

Survey type: Zero-offset VSP, Offset VSP and Walkaway VSP survey

Company: CO2CRC Pilot Project Ltd.

Well: Naylor 1

Field: Naylor

Country: Australia

Run: 4

Date: 5/14/2006

Recorded by: S. Nakanishi

Witnessed by: Kevin Dodds, Brian Evans

Report Contents

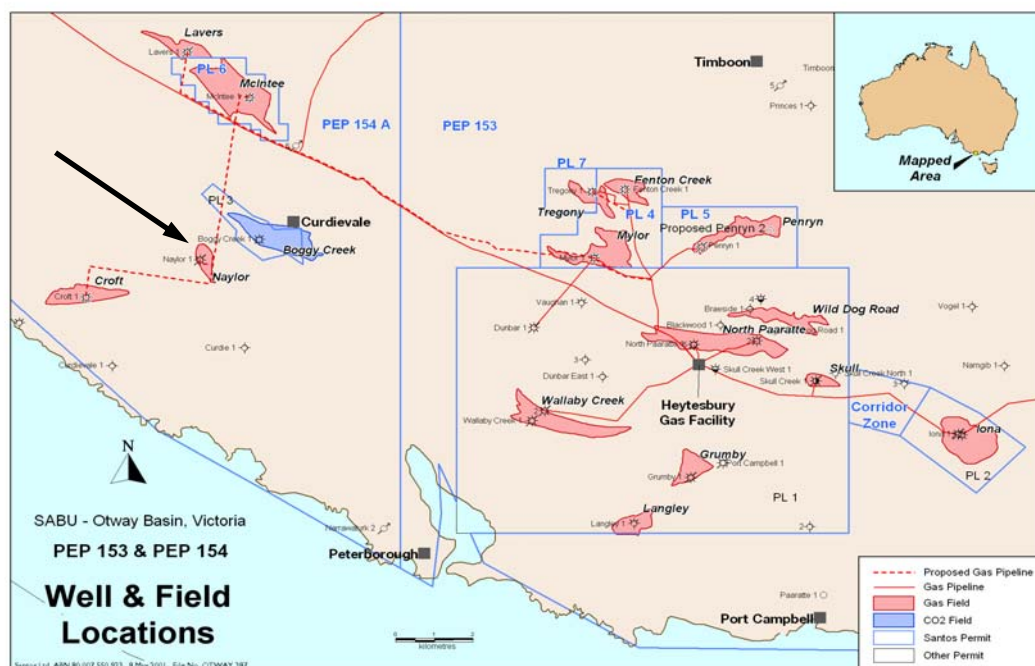
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Introduction

A borehole seismic survey was recorded in the vertical (max. 8 deg deviation) well, Naylor-1 in period of 14 to 18 May 2006. The survey was conducted by configuring Zero-offset VSP, Offset VSP and Walkaway VSP. The data were acquired using 8 shuttles VSIT-C (10 m spacing) downhole Tool. Single IVI T-1500 6,000 lb mini-vibroseis truck (P-wave mode / S-wave mode) was used for VSP source.

Naylor-1 was drilled (May 2001) as an Otway basin gas exploration well to be located in the PEP 154 licence, approximately 10 km North West of the town of Peterborough, 1.6 km south west of the Boggy Creek CO2 field. The VSP survey is a part of the Otway Basin Pilot Project, which provides a means to demonstrate and test ability to detect the presence and distribution of CO2.



Objectives of the survey are

- Establish the suitability of the mini-vibrator as a source for VSP surveys
- Assess quality of data from system of source, receiver and coupling environment
- To provide a high resolution velocity profile and assess imaging of reservoir, gas and water contact (VSP)
- To establish working protocols for acquiring a walkaway (WVSP) with minivibrator to optimise future potential multiple surveys.
- To establish data quality limits with distance from well for a WVSP data acquisition.
- Assess data quality with distance for 9 component data acquisition
- To compare data quality from intersection of WVSP line with surface multi-component line.
- To image structural elements, fault, seal, trap.
- Assessment of potential for direct detection and extent of water gas contact.
- Evaluate potential of 9 component WVSP data to provide AVO signature of water gas contact

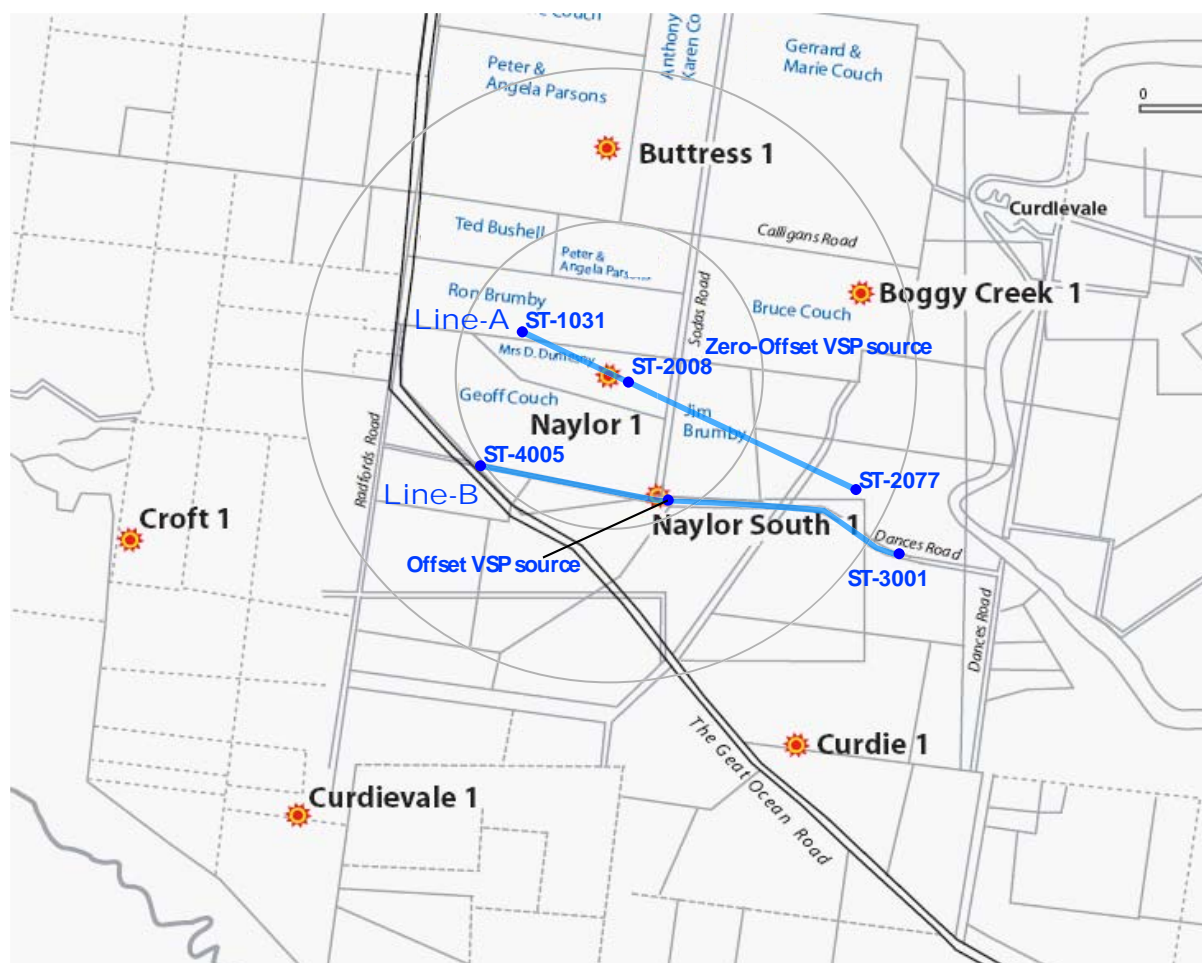
Survey overview

Prior to the VSP survey, Owen Bride Plug was set at 2016 m MD to kill gas leakage from the casing patch 2020 mMD. Entire VSP surveys used pressure control equipment (flow tube with BOP) at well head for safety precaution. 15-ton mobile crane was used for rig-up. The survey was conducted in day-time only. The sensor shuttle (VSIS) of the downhole tool was customized for slim-mode (2.992 Inch ID casing 3 ½" 13Cr95 9.2#) in order to optimize the quality of horizontal signal (X and Y).

Min-vibrator was set for 15 seconds sweep length from 10 Hz to 150 Hz (linear sweep) for P-wave mode and 10 – 80 Hz (linear sweep) for S-wave mode.

Overall of the data quality is considerably good including horizontal signal (X and Y channel). However, strong 120Hz harmonic noise was observed particularly at the top receiver in all surveys. The noise was seen in the background measurement. It is caused by the 60Hz power transformer of the top tools (electronics – VSCC/VSPC / telemetry cartridge - STGC). The vibration is transmitted through the borehole fluid or the casing. The noise is seems to be stronger in the small casing.

Field Cross-correlation is done by using Filtered Ground Force signal through MinVib T-1500 and Downhole X, Y and Z- GAC (accelerometer) without Geophone transformation.



14 May 2006, Offset-VSP

Min-Vibrator (P-wave mode) was position at 657883E, 57331139N on Dances Rd near Naylor South 1 wellhead. The data was recorded from 2010 mMD to 660 mMD. At least 5 sweeps were recorded at each VSP level. 5 meters spacing of the receivers from 2010 m MD to 1800 mMD was recorded. Top two receivers (VSIS ENP35 and VSIS-8077) were overlapped by bottom two receivers at each station depth in order to ensure data quality. VSIS-8077 (2'nd top receiver) had cross-talk noise on X-channel below 1000 mMD. The VSIS was replaced after the Offset-VSP survey. Gammer Ray Log was recorded (up log) while main VSP survey. Depth offset – 1.0 meter is observed. The depth offset is not corrected in this report.

15/16 May 2006, Walkaway VSP Line-A

VSIS receivers were set at 1800, 1790, 1780, 1770, 1760, 1750, 1740 and 1730 mMD during the Walkaway survey line-A. Min-vibrator (P-wave mode) ran from Station No. 2001 to 2046 (East side) and from 1061 to 1031 (West side). The survey was resumed next day (16 May 2006) after re-anchoring the receiver at same depth. Station No. 2048 to 2077 (Far East end) was obtained. At least 3 to 7 sweeps were recorded at each station depending on the SNR. Depth was correlated with Gammer Ray Log.

16 May 2006, Walkaway VSP Line-B

VSIS receivers were set at 2000, 1990, 1980, 1970, 1960, 1950, 1940 and 1930 mMD during the Walkaway survey line-B. Min-vibrator (P-wave mode) ran from Station No. 3001 to 4005 along Dances Rd. From station No 3001 to 3020 took every 20 meters interval. From 3020 to 3048 and from 4001 to 4005 took every 40 meters interval.

17 May 2006, Zero-Offset VSP

Min-Vibrator (P-wave mode) was position at station No 2008 on line-A. The data was recorded from 2010 mMD to 120 mMD. At least 5 sweeps were recorded at each VSP level. 5 meters spacing of the receivers from 2010 m MD to 1730 mMD was recorded. Top receiver was overlapped by bottom receiver at each station depth in order to ensure data quality and repeatability.

The location (ST-2008) of the source (187 meters offset) was chosen avoiding the noise from the tube-wave for imaging processing.

The survey depth from 190mMD to 50 mMD was obtained by moving the Min-Vibrator at Station No 2002, in order to obtain weather zone velocity (SRD depth 51.1 m).

Gammer Ray Log was recorded (up log) while main VSP survey. Depth offset – 1.0 meter is observed. The depth offset is not corrected in this report.

18 May 2006, Walkaway VSP (S-wave mode) Line-A

VSIS receivers were set at 1800, 1790, 1780, 1770, 1760, 1750, 1740 and 1730 mMD during the Walkaway survey line-A. Min-vibrator (S-wave mode, sweep length 15 seconds 10 – 80 Hz linear sweep) ran from Station No. 2002 to 2046 (East) with Inline-S (S1) facing vibrator truck to East and from 2046 to 2002 (East) with Cross-S (S2) facing vibrator truck to West. The reverse polarity check was conducted at ST-2046 with S1 mode and ST-2020 with S2 mode. Depth was correlated with Gammer Ray Log.

Well Information

| | |
|-------------------------------------|----------------------------------|
| Company | CO2CRC Pilot Project Ltd. |
| Well | Naylor 1 |
| Field | Naylor |
| Country | Australia |
| State | Victoria |
| Logging Date | 5/14/2006 |
| Run Number | 4 |
| Service Order | AUSL06273144 |
| Well Head (Latitude) | 38*31' 47.26"S |
| Well Head (Longitude) | 142*48' 30.43"E |
| Well Head (X Coordinate) | 657634.3 UTM |
| Well Head (Y Coordinate) | 5733850.5 UTM |
| Total Depth - Driller | 2157.0 m |
| Total Depth - Logger | 2055.3 m |
| Maximum Hole Deviation | 8.0 deg |
| Azimuth of Maximum Deviation | 125.0 deg |
| Program Version | 14C0-302 |
| Bit Size | 6.750 in |
| Recorded by | S. Nakanishi |
| Witnessed by | Kevin Dodds, Brian Evans |

Elevation Information

| | |
|----------------------------------|----------------|
| Permanent Datum | Mean Sea Level |
| Elevation Permanent Datum | 0.0 m |
| Above Permanent Datum | 51.1 m |
| Drilling Measured From | Rotary Table |
| Derrick Floor | 51.1 m |
| Ground Level | 46.4 m |
| Kelly Bush | 51.1 m |
| Log Measured From | Rotary Table |
| Elevation Log Zero | 51.1 m |

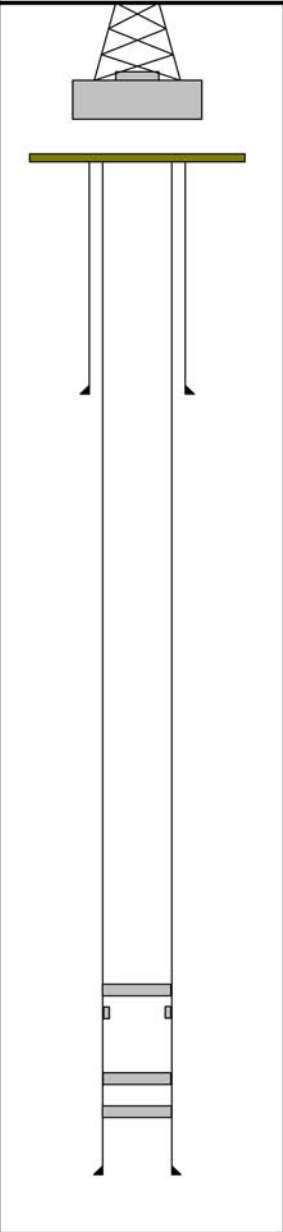
Depth Corrected Information

| | |
|--------------------------------|------------|
| Water Velocity | 1750.0 m/s |
| Seismic Reference Datum | 0.0 m |

Remarks

| |
|---|
| Correlated to "DLL SLL MLL LCS GR CAL" (16-May-2001) logged by REEVES. |
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Well Sketch

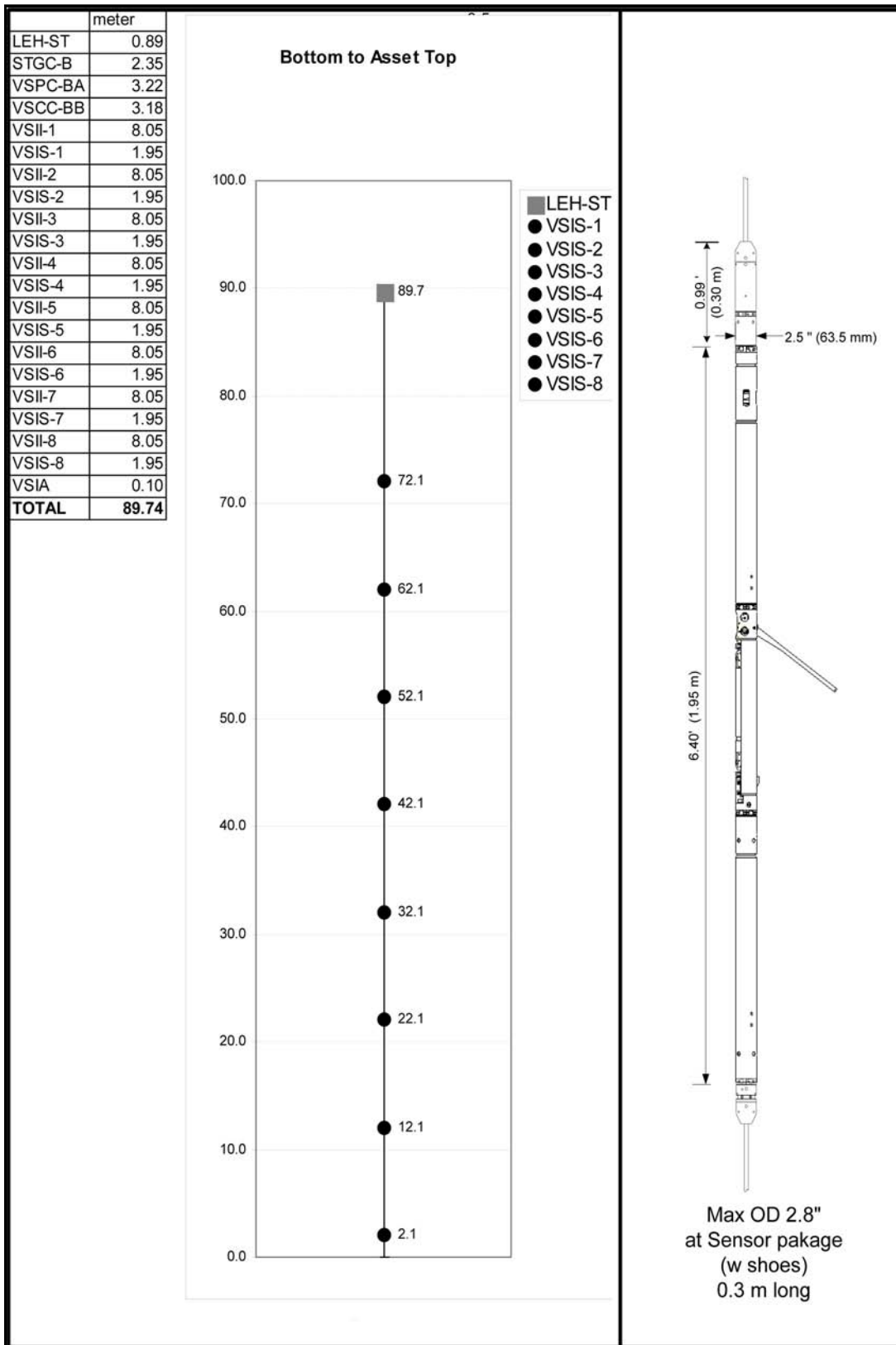
| Drilling Rig:- Rig-less | | | | | | | |
|-------------------------------|------|----|-------------|--|--------------|-------------|--|
| Production String | (in) | | (ft) | Well Schematic | (ft) | (in) | |
| | OD | ID | MD | | MD | OD | ID |
| Derrick Floor Elevation GL | | | 51.1 4.7 |  | 485 | 9.875 | Drillers Depth Used |
| | | | | | 2016 2020 | | Bridge Plug Owen Casing Patch ID 2.375 |
| | | | | | 2056 2100 | | Top Fish (MH22/CCL) 2062m Bridge plug Owen Bridge Plug |
| | | | | | 2152 2157 | 3.5 6.75 | Casing Shoe 9.2# ID 2.992 Borehole Segment Bottom |

Well Inclinery List

Meas. Tie Depth 0 m
 True Vert. Tie Depth 0 m

| Measured Depth (m) | Deviation (deg) | Azimuth (deg) | True Vertical Depth (m) |
|--------------------|-----------------|---------------|-------------------------|
| 0 | 0 | 322 | |
| 70 | 0 | 322 | 70 |
| 80 | 0.2 | 322 | 80 |
| 174 | 0.2 | 92 | 174 |
| 377 | 0.2 | 335 | 377 |
| 473 | 0.12 | 327 | 473 |
| 635 | 1.25 | 97 | 634.98 |
| 787 | 0.3 | 32 | 786.97 |
| 934 | 0.7 | 298 | 933.96 |
| 1099 | 0.5 | 7 | 1098.95 |
| 1254 | 0.7 | 247 | 1253.94 |
| 1420 | 0.5 | 190 | 1419.93 |
| 1553 | 0.5 | 169 | 1552.93 |
| 1695 | 2 | 159 | 1694.89 |
| 1848 | 4.75 | 149 | 1847.61 |
| 2014 | 8 | 137 | 2012.56 |
| 2070 | 6.9 | 122 | 2068.09 |
| 2150 | 5 | 119 | 2147.65 |

Tool Sketch



Downhole Equipment Information

| | |
|--|-------------------------------|
| Tool Type | VSIT-C |
| Surface Equipment | WASM-AB 758, WSI-A 1742 |
| Combined Tool | SGTC-B 8097 |
| Number of Shuttles | 8 |
| Nominal Receiver Spacing | 10 m |
| Gimbaled (Y/N) | No |
| Downhole Geophone Type | GAC-D 3-axis orthogonal |
| Sensitivity | 0.5 V/G 3% |
| Natural Frequency | 20 Hz |
| Damping Factor | N/A |
| DC Resistance | 1500 Ohms 3% @25 degC |
| Measurement Specification | |
| Dynamic range | > 105 dB at 36 dB |
| Distortion | < -90 dB |
| Analog Low-Cut filter | 0.3 Hz, -6 dB/Oct |
| Digital Low-Cut filter | None |
| DC Offset removal | Averaging by surface software |
| Digital High-Cut filter | Linear phase at down hole |
| Pass band ripple | +/- 0.01 dB |
| Stop band attenuation | < -130 dB |
| Bandwidth | 80% of Nyquist frequency |
| Test Signal harmonic distortion | < -110 dB |
| Tool SN | |
| VSPC-BA | 8096 |
| VSCC-BB | 8095 |
| VSII-AB | 8140 |
| Receiver #1 (VSIS-CA) | 8138 |
| VSII-AB | 8403 |
| Receiver #2 (VSIS-CA) | 8091 |
| VSII-AB | 8445 |
| Receiver #3 (VSIS-CA) | 8119 |
| VSII-AB | 8443 |
| Receiver #4 (VSIS-CA) | 8128 |
| VSII-AB | 8133 |
| Receiver #5 (VSIS-CA) | 8136 |
| VSII-AB | 8134 |
| Receiver #6 (VSIS-CA) | 8417 |
| VSII-AB | 8402 |
| Receiver #7 (VSIS-CA) | 8419 |
| VSII-AB | 8444 |
| Receiver #8 (VSIS-CA) | 8420 |
| VSIA | ENP-14 |

Remarks

Offset VSP used Receiver-1 ENP35 and Receiver-2 8077.
VSIS-CA 8077 suffer cross-talk noise on Y-channels.

Offset-VSP Operation Time Summary - 1

| DATE | Time Start | Time Taken Hr : min | OPERATION |
|-----------|------------|---------------------|--|
| 14-May-06 | 12:00 | 1:10 | Rig Up VSI |
| | 13:10 | 0:10 | RIH in hole to 32 m |
| | 13:20 | 0:30 | Surface check the tool at 32 m |
| | 13:50 | 0:30 | RIH |
| | 14:20 | 0:10 | GR correlation log at 1040 m add 2.2 m |
| | 14:30 | 0:05 | RIH |
| | 14:35 | 0:10 | Repeat check station at 1051m |
| | 14:45 | 0:40 | RIH |
| | 15:25 | 4:55 | Start Offset VSP from 2010 m |
| | 20:20 | 0:00 | End the survey at 581 m |
| | 20:20 | 0:10 | POOH |
| | 20:30 | 0:10 | at 100 m stop |
| | 20:40 | | Shut down the tool for next survey |
| | | | 8:40 |

Remarks:

14 May 2006 Offset VSP survey.
Rig-up used BOP and flow-tube for pressure control.

WVSP line-A Operation Time Summary - 2

| DATE | Time Start | Time Taken Hr : min | OPERATION |
|-----------|------------|---------------------|--|
| 15-May-06 | 7:00 | 0:55 | POOH from 100 m to change 2 x VSIS. |
| | 7:55 | 0:35 | RIH in hole to 1060 m |
| | 8:30 | 0:10 | GR correlation log on-depth |
| | 8:40 | 0:20 | Tool test at 1750 m |
| | 9:00 | 0:45 | RIH |
| | 9:45 | 0:20 | Sweep test at 1721 m ST-2001 |
| | 10:05 | 0:25 | Swweep test at 1750 m ST 2001 |
| | 10:30 | 1:05 | Start WVSP line-A at 1721 (1800m) from ST-2001 |
| | 11:35 | 0:21 | VIB bogged at ST-2017 |
| | 11:56 | 1:49 | Resume at ST-2018 |
| | 13:45 | 0:15 | End of Line-A East at ST-2046 |
| | 14:00 | 1:45 | Resume Line-A west from ST-1061 |
| | 15:45 | 0:10 | End of Line-A West at ST-2031 |
| | 15:55 | | Shut down the tool at 1721 m for next survey |
| | | | 8:55 |

Remarks:

15 May 2006 Walkaway VSP survey line-A
Rig-up used BOP and flow-tube for pressure control.

WVSP Line-A/B Operation Time Summary - 3

| DATE | Time Start | Time Taken Hr : min | OPERATION |
|-----------|------------|--|--|
| 16-May-06 | 7:25 | 0:15 | Power-up Tool and Test Tool at 1721 m |
| | 7:40 | 0:30 | Move VIB to Line-A far East end |
| | 8:10 | 1:00 | Start WVSP line-A at 1721 (1800m) from ST-2048 |
| | 9:10 | 0:40 | VIB bogged at ST-2060 |
| | 9:50 | 0:23 | Resume at ST-2061 |
| | 10:13 | 0:04 | VIB bogged at ST-2064 |
| | 10:17 | 0:07 | Resume at ST-2065 |
| | 10:24 | 0:03 | VIB bogged at ST-2066 |
| | 10:27 | 1:02 | Resume at ST-2067 |
| | 11:29 | 0:06 | complete Line-A at ST-2077 and Test Tool |
| | 11:35 | 0:15 | RIH 2000 m |
| | 11:50 | 0:05 | Test tool at 2000m |
| | 11:55 | 0:05 | Start WVSP line-B from ST-2077 |
| | 12:00 | 1:44 | VIB bogged at ST 2077 |
| | 13:44 | 0:36 | Abandon Line-A WVAP AVO survey |
| | 14:20 | 0:40 | Meeting Plan-B |
| | 15:00 | 1:30 | Strat Line-B for AVO WVSP from ST-3001 |
| | 16:30 | 0:41 | at ST 3020 |
| | 17:11 | 0:19 | st ST 3048 |
| | 17:30 | 0:20 | complete Line-B at ST-4005 and Test Tool |
| 17:50 | | Shut down the tool at 1721 m for next survey | |
| | | 10:25 | HRS –TOTAL OPERATING TIME |

Remarks:

16 May 2006 Walkaway VSP survey line-A and Line-B
Rig-up used BOP and flow-tube for pressure control.

ZVSP

Operation Time Summary - 4

| DATE | Time Start | Time Taken Hr : min | OPERATION |
|-----------|------------|---------------------|---|
| 17-May-06 | 7:30 | 0:15 | Power-up Tool and RIH to 1931 m |
| | 7:45 | 0:15 | set tool at 1931(2010m) and Test Tool |
| | 8:00 | 0:15 | Test sweep at ST 2006 and ST 2008 |
| | 8:15 | 2:45 | Start ZVSP at ST-2008 (5 sweep per station) |
| | 11:00 | 1:25 | at 741 strats 3 sweeps per station. |
| | 12:25 | 0:20 | at 111 m, check surface velocity VIB locate at ST 2002 |
| | 12:45 | 0:05 | End of ZVSP survey |
| | 12:50 | 0:50 | RIH to 1800 m for Next survey, configure VIB for S-mode |
| | 13:40 | 1:50 | set Tool at 1800 m for stand-by |
| | 15:30 | 1:00 | Check S-sweep |
| | 16:30 | | Shut down the tool at 1800 m for next survey |
| | | | 9:00 |

Remarks:

17 May 2006 Zero-offset VSP survey and test S-mode sweep
Rig-up used BOP and flow-tube for pressure control.

WVSP S-wave Line-A Operation Time Summary - 5

| DATE | Time Start | Time Taken Hr : min | OPERATION |
|-----------|------------|---------------------|--|
| 18-May-06 | 7:30 | 0:20 | Power up Tool and Test Tool at 1800 m |
| | 7:50 | 0:32 | Start WVSP S1-mode from ST-2002 |
| | 8:22 | 0:43 | at ST 2013 |
| | 9:05 | 0:10 | at ST 2032, move to next ST 2034 |
| | 9:15 | 0:35 | resume at ST 2034 |
| | 9:50 | 0:10 | at ST-2046 conduct polarity check of S1 mode |
| | 10:00 | 0:10 | End WVSP S1 mode survey at ST-2046,m change plate to S2 mode |
| | 10:10 | 0:35 | stat WVSP S2 mode from ST-2046 |
| | 10:45 | 0:10 | at ST-2034 |
| | 10:55 | 0:45 | at ST-2032 |
| | 11:40 | 0:05 | at ST-2020 conduct polarity check of S2 mode |
| | 11:45 | 0:10 | at ST-2018 (reverse polarity only acquired due to restriced space) |
| | 11:55 | 0:35 | at ST-2013 |
| | 12:30 | 0:05 | End WVSP S2 mode survey at ST-2002 and Test Tool |
| | 12:35 | 0:40 | POOH |
| | 13:15 | 0:45 | Tool at surface |
| | 14:00 | | Complete Rig down, the well is free. |
| | | 6:30 | HRS –TOTAL OPERATING TIME |

Remarks:

18 May 2006 Walkaway VSP survey S-mode
Rig-up used BOP and flow-tube for pressure control.

Zero-Offset VSP Report

General Information

| | |
|--|-----------------|
| Survey Type | Zero Offset VSP |
| Surface Recording Length | 15500.0 ms |
| Surface Sampling Rate | 2.0 ms |
| Downhole Recording Length | 20500.0 ms |
| Downhole Sampling Rate | 2.0 ms |
| Top of Survey | 50.0 m |
| Bottom of Survey | 2010.0 m |
| Number of Shots | 168 |
| Number of Downhole Traces | 1344 |
| Number of Downhole Traces used for Processing | 993 |

Borehole Seismic Source Information - Source 1

Engineer: S. Nakanishi

Well Name: Naylor-1

Date: 17-May-2006

Rig: Rigless/ 15Ton Crane

Geometrical Coordinates

Longitude: 142 48' 30.43" E

Latitude: 38 31' 47.26" S

UTM Coordinates

Easting: 657634.25 m E

Northing: 5733850.49 m N

Permanent Datum: MSL

Log Measured From: DF

Elev. 51.1

Unit: m

Ground Elev. at Well Head 46.4

SRD (Seismic Reference Datum): MSL

Elev. 0.0

from SLB zero: 51.1

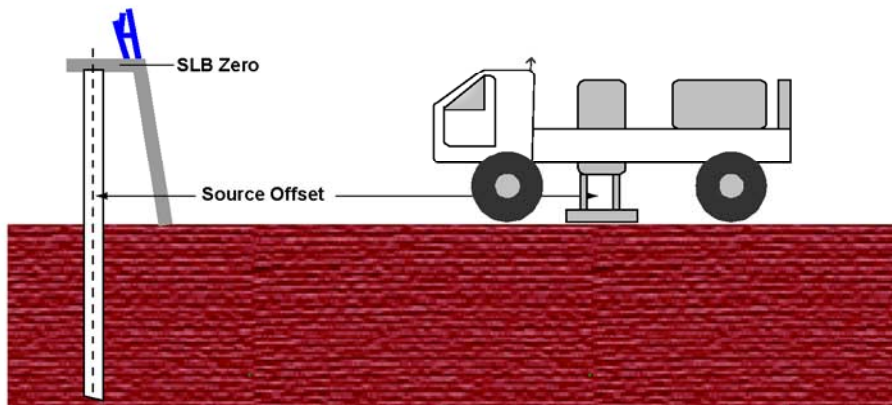
(SRDS)

Source UTM Coordinates

Easting: 657802.6 mE

Northing: 5733769.2 mN

Ground Elev. at VP: 45.2



Gun Depth from SLB : 5.9 (GDSZ)

Gun Depth from SRD : -45.2

Gun Depth from GL (WH): 1.2

Ground Condition: Clay soil
Flat terrain

Ground Water Level from GL: 1.0

Gun Azimuth (Grid North): 115.8 deg (GAZI)

Gun Offset: 186.9 (GOFF)

Vibrator: IVI MinVib T1500

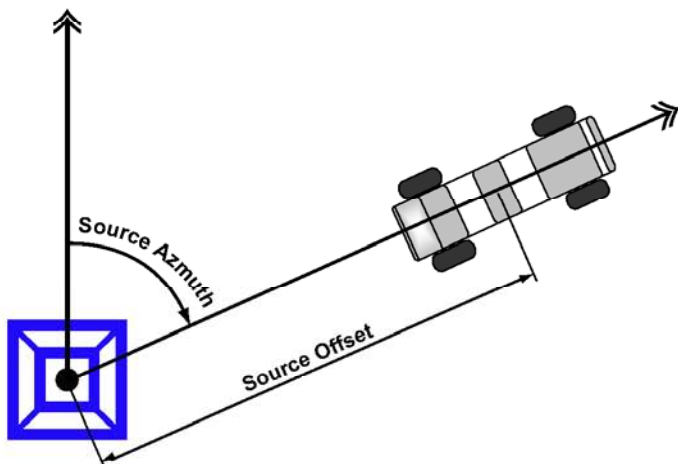
Controller - Encoder: RTS-100

Decoder: SIB-100

Version: ANSIR

Mass Weight 311 lbs
BasePlate Weight 370 lbs
HoldDown Weight 10,000 lbs

Zero Time Adjust N/A
Radio Reference Delay N/A



Sweep Parameters

Start Frequency 10 Hz
End Frequency 150 Hz
Sweep Length 15 sec
Start Taper 0.2 sec
End Taper 0.2 sec
Sweep Type Linear
VIB Sweep Phase N/A
ESG Sweep Phase N/A
Phase Lock Mode N/A
Force Mode N/A

Surface Velocity Survey (Rig Source only)

Tool Measured Depth: 130.0

Measured Transit Time: 119.8 ms

Measured Surface Velocity: 1,878.6 m/sec (SVEL)

Provided Surface Velocity by Client: 1,750.0 m/sec

Borehole Seismic Source Information

Surface Sensor Channels

WSAM (WSI)
sn: **WSAM: -AB 910****WSI: 1742**

Pilot Signal

SSPS

| | | |
|---------------------|---------------------|-------------------------------------|
| S1 (WSI-SS2) | none | <input type="checkbox"/> |
| S2 (WSI-SS3) | Filtered Ground For | <input checked="" type="checkbox"/> |
| S3 (WSI-SS4) | none | <input type="checkbox"/> |
| S4 (WSI-SS5) | | <input type="checkbox"/> |
| S5 (WSI-SS6) | | <input type="checkbox"/> |
| S6 (WSI-SS7) | | <input type="checkbox"/> |

Quality Check Surface Signals

| | S1 Time Break / PP | | S2 TT(ms) / PP | | S3 TT(ms) / PP | | S4 TT(ms) / PP | | S5 TT(ms) / PP | | S6 TT(ms) / PP | |
|--------|--------------------|---|----------------|-------|----------------|---|----------------|---|----------------|---|----------------|---|
| Shot-1 | 0.0 / | 0 | 0.0 / | 19081 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-2 | 0.0 / | 0 | 0.0 / | 19013 | 1.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-3 | 0.0 / | 0 | 0.0 / | 19287 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-4 | 0.0 / | 0 | 0.0 / | 19342 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-5 | 0.0 / | 0 | 0.0 / | 19244 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |

Other Logs Information

| | | | | |
|--------------|-----------|------|----|-------|
| Sonic Log: | Interval: | from | to | Date: |
| Density Log: | Interval: | from | to | Date: |

Remarks

MinVib T1500 used 10Hz to 150Hz linear sweep for 15 seconds. Baseplate used the shearwave plate for P-wave mode. PSS or QC signal is not available in the RTS-100 system.

Contact Closure pin-F and G of RTS-100 is used for triggering MinVib through WSI-A (30 msec period). Start Delay sets 0.1 s.

SIB-100 can provide three reference pilot signals (Synthetic, Ground Force and Filtered Ground force). Only one of them can be transmitted through UHF radio. The Filtered Ground Force signal is recommended for correlation by the IVI. Pilot signal (Filtered Ground Force signal) is recorded for correlation. FGF signal is generated in the SIB-100 box in real time by combining the baseplate accelerometer and the mass accelerometer signals during each sweep. This signal is then filtered with a tracking high cut filter. The frequency of this tracking filter is set to remove all higher order harmonics. . FGF signals is 180 degree phase different to GF signal according to Elmo Christensen / IVI.

FGF signal is recorded in reversed polarity (RTS-100 pin-D to WSI pin-A, RTS-100 pin-N to WSI pin-B) in order to obtain positive peak correlation. Downhole receiver (GAC) has SEG reverse polarity (1975).

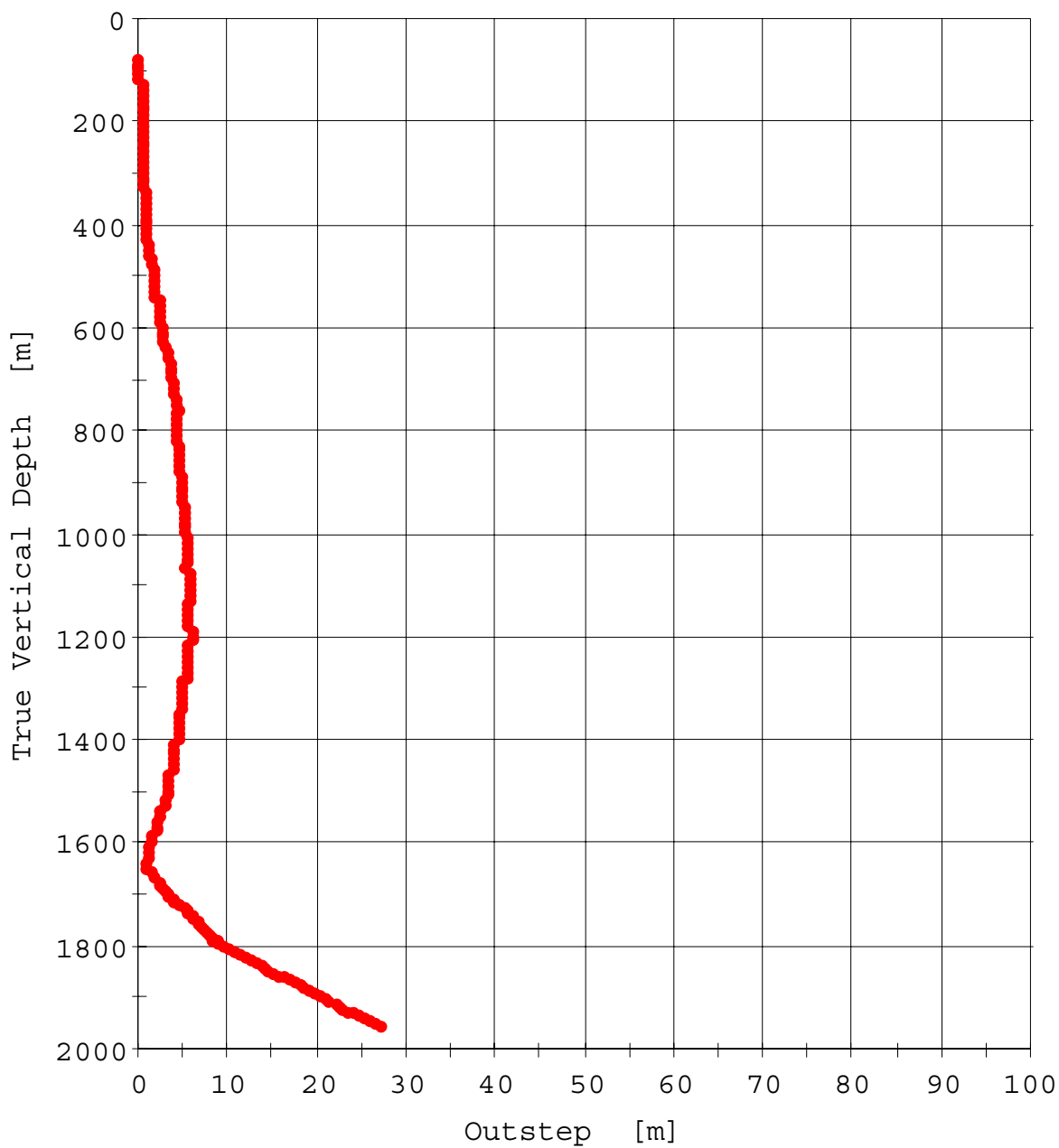
Recording surface signals (WSAM) S1 - No input. S2 - FGF (15500 msec @ 2 msec sampling with TOFS 500 ms to avoid transit noise). Correlation Length 5000 msec. Downhole listening time is 20500 msec @ 2 msec sampling). Input impedance of the channel SS3 (S2) of WSAM-AB was changed from 462-ohm to 10K-ohm in order to obtain better dynamic range.

Detail T-1500 MinVib specification

Max. Theoretical Peak Force: 6,000 Pounds
 Mass Piston Area: 1.50 Inches²
 Reaction Mass Weight: 311 Pounds
 Reaction Mass Stroke: 1.88 Inches
 Servovalve; 5 GPM
 Servovalve Pilot Filter: 3 Micron
 Baseplate Area: 1,018 Inches²
 Baseplate Assembly Weight: 370 Pounds
 Lift System Stroke: 38 Inches
 Lift Cylinder Diameter: 2.5 Inches
 Lift Synchronization: Mechanical Crossbeam
 Vibrator Pump Flow: 15 GPM @ 2100 RPM
 Holddown Weight: 10,000 Pounds

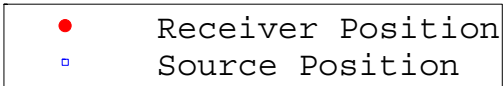
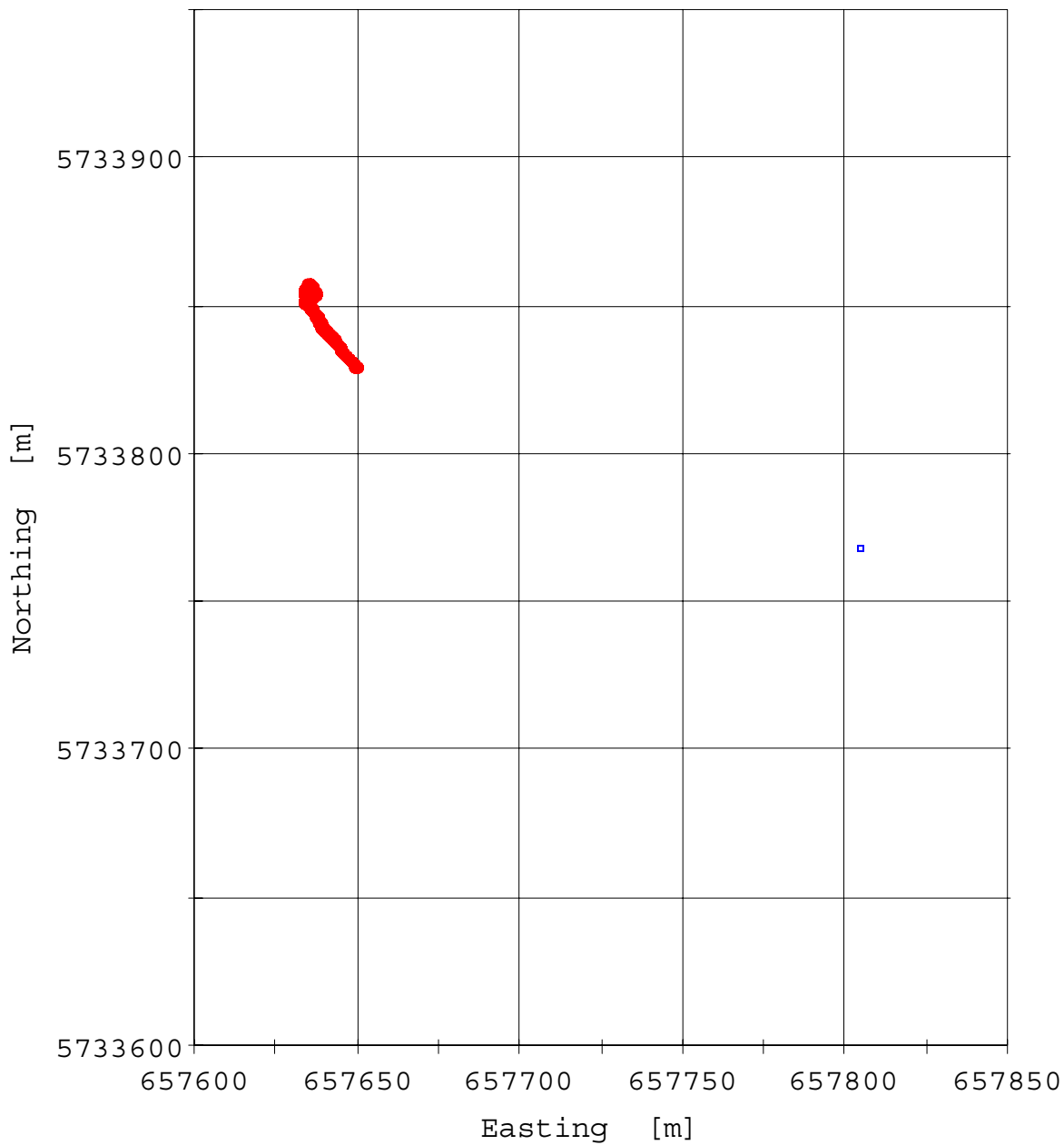


Well Profile

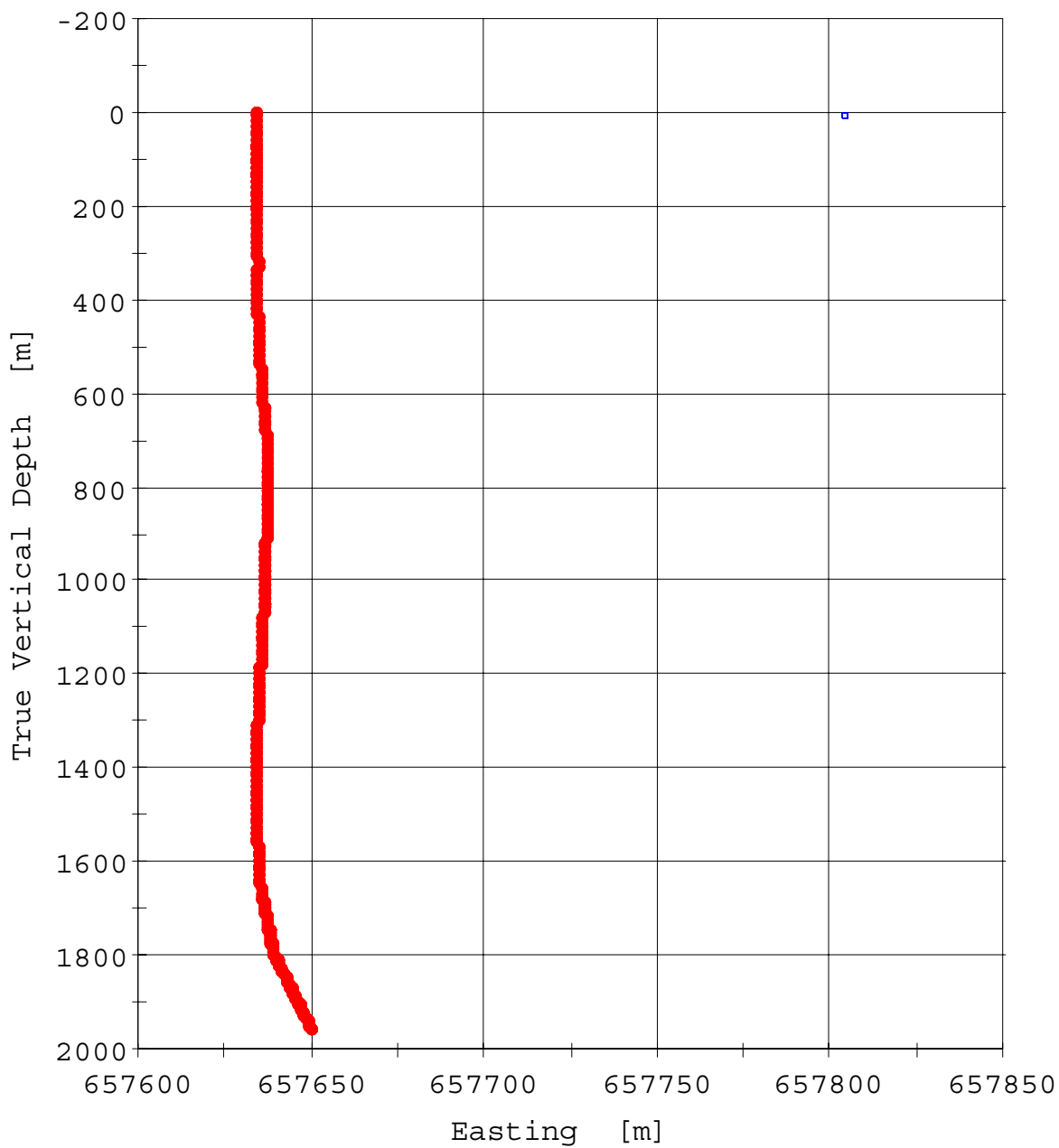


• Receiver Position

Geometry Information Page (X-Y)

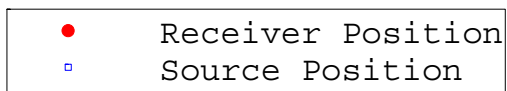
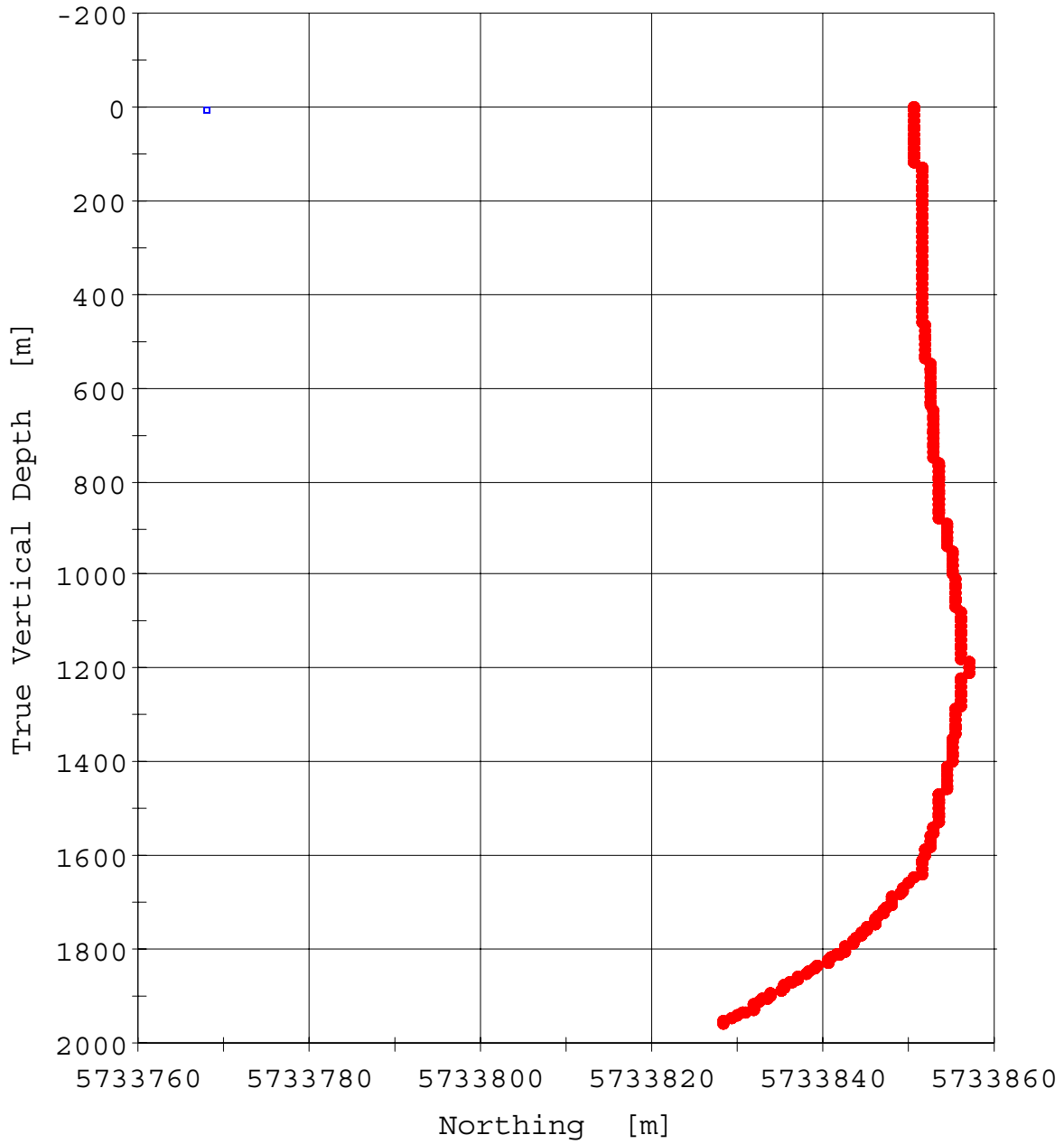


Geometry Information Page (X-Z)

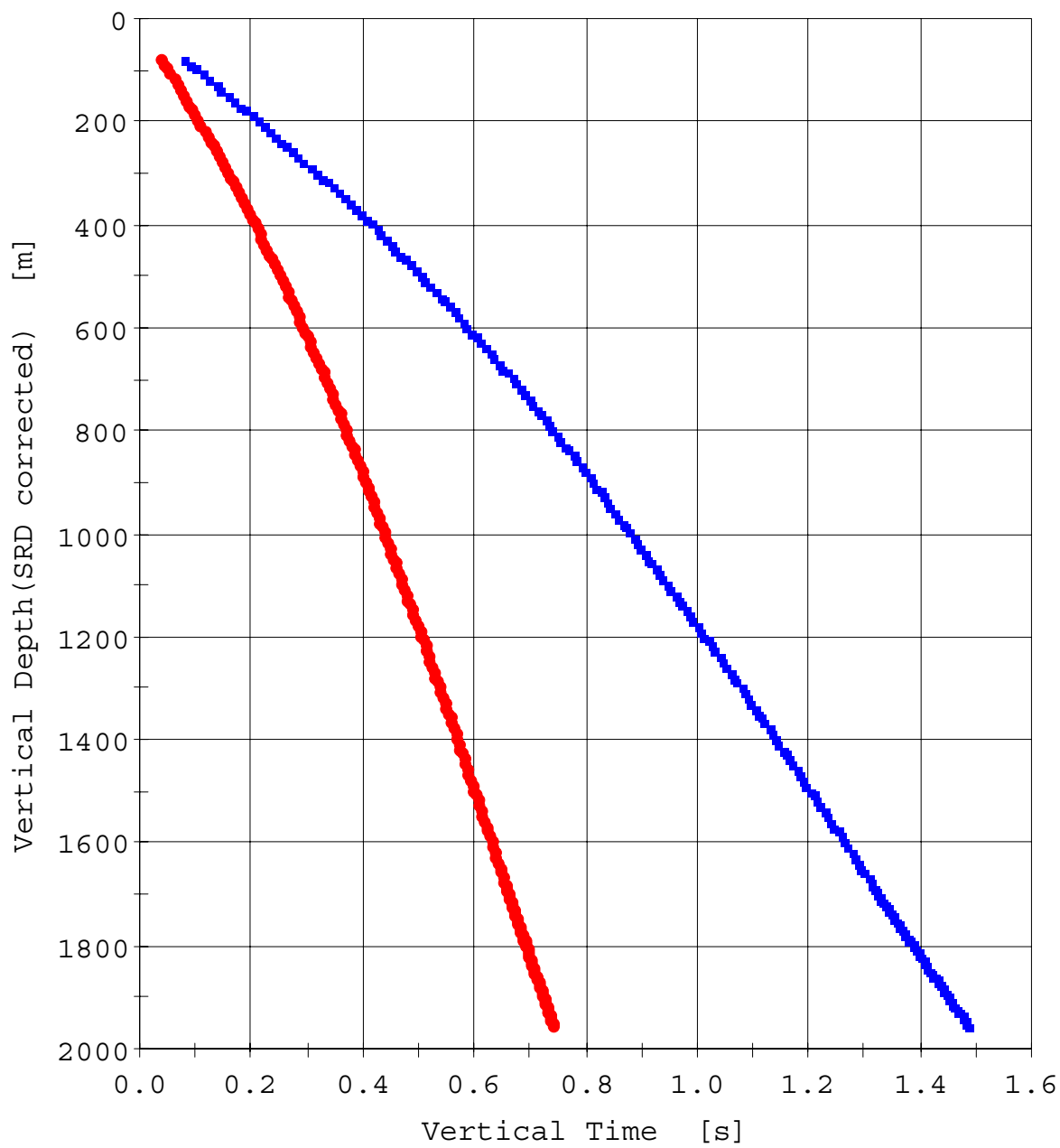


● Receiver Position
□ Source Position

Geometry Information Page (Y-Z)

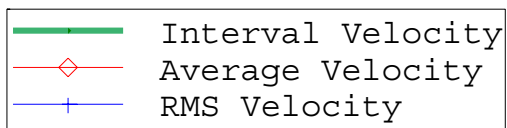
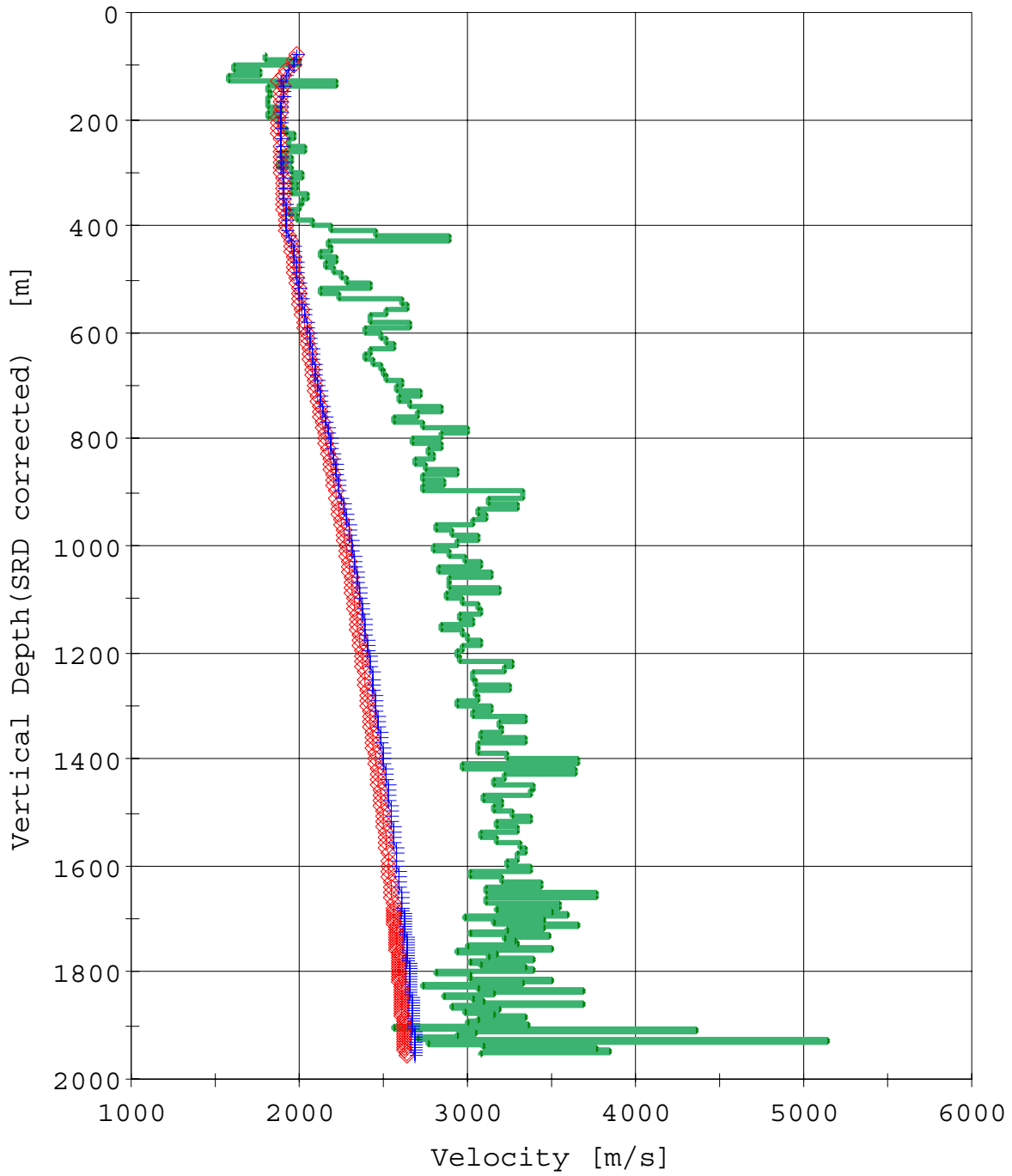


Time Depth Plot Page



• One-way Vertical Time
■ Two-way Vertical Time

Velocity Plot Page



Stack Summary Listing (1/8) from VSI_007_A_gac_wavefield_z.ldr

| Stack Number ACQUISITION SHOT_ NUMBER | Measured Depth [m] CABLE_ LENGTH | True Vertical Depth [m] RECEIVER_ CORRECTION Z | Measured Time [s] TRANSIT_ TIME | One-way Vertical Time [s] TRANSIT_ TIME_SRD | Two-way Vertical Time [s] TRANSIT_ TIME_ INITIAL | Interval Velocity [m/s] VELOCITY_ 1 | Average Velocity [m/s] VELOCITY_ 2 | RMS Velocity [m/s] VELOCITY_ 3 |
|--|---|--|--|---|---|---|--|--|
| | 0 | 0 | 0 | 0 | 0 | | | |
| | | | | | | 1988.3 | | |
| 31 | 130.0 | 78.9 | 0.1198 | 0.0397 | 0.0794 | | 1988.3 | 1988.3 |
| | | | | | | 1791.3 | | |
| 31 | 140.0 | 88.9 | 0.1233 | 0.0453 | 0.0905 | | 1964.0 | 1965.1 |
| | | | | | | 1998.1 | | |
| 31 | 150.0 | 98.9 | 0.1260 | 0.0503 | 0.1005 | | 1967.4 | 1968.4 |
| | | | | | | 1612.3 | | |
| 31 | 160.0 | 108.9 | 0.1307 | 0.0565 | 0.1130 | | 1928.4 | 1932.5 |
| | | | | | | 1761.8 | | |
| 31 | 170.0 | 118.9 | 0.1347 | 0.0622 | 0.1243 | | 1913.2 | 1917.6 |
| | | | | | | 1581.4 | | |
| 31 | 180.0 | 128.9 | 0.1398 | 0.0685 | 0.1369 | | 1882.6 | 1889.0 |
| | | | | | | 2212.8 | | |
| 31 | 190.0 | 138.9 | 0.1423 | 0.0730 | 0.1460 | | 1903.0 | 1910.7 |
| | | | | | | 1811.9 | | |
| 30 | 200.0 | 148.9 | 0.1463 | 0.0785 | 0.1570 | | 1896.6 | 1903.9 |
| | | | | | | 1830.1 | | |
| 30 | 210.0 | 158.9 | 0.1503 | 0.0840 | 0.1680 | | 1892.3 | 1899.2 |
| | | | | | | 1810.2 | | |
| 30 | 220.0 | 168.9 | 0.1545 | 0.0895 | 0.1790 | | 1887.2 | 1893.8 |
| | | | | | | 1812.0 | | |
| 30 | 230.0 | 178.9 | 0.1587 | 0.0950 | 0.1901 | | 1882.8 | 1889.1 |
| | | | | | | 1882.9 | | |
| 30 | 240.0 | 188.9 | 0.1628 | 0.1003 | 0.2007 | | 1882.8 | 1888.8 |
| | | | | | | 1812.2 | | |
| 30 | 250.0 | 198.9 | 0.1672 | 0.1059 | 0.2117 | | 1879.2 | 1884.9 |
| | | | | | | 1880.0 | | |
| 30 | 260.0 | 208.9 | 0.1714 | 0.1112 | 0.2223 | | 1879.2 | 1884.7 |
| | | | | | | 1889.0 | | |
| 29 | 270.0 | 218.9 | 0.1756 | 0.1165 | 0.2329 | | 1879.6 | 1884.8 |
| | | | | | | 1927.8 | | |
| 29 | 280.0 | 228.9 | 0.1798 | 0.1216 | 0.2433 | | 1881.7 | 1886.7 |
| | | | | | | 1964.6 | | |
| 29 | 290.0 | 238.9 | 0.1839 | 0.1267 | 0.2535 | | 1885.0 | 1889.9 |
| | | | | | | 1944.2 | | |
| 29 | 300.0 | 248.9 | 0.1881 | 0.1319 | 0.2638 | | 1887.3 | 1892.0 |
| | | | | | | 2024.3 | | |
| 29 | 310.0 | 258.9 | 0.1921 | 0.1368 | 0.2736 | | 1892.3 | 1897.0 |
| | | | | | | 1896.3 | | |
| 29 | 320.0 | 268.9 | 0.1966 | 0.1421 | 0.2842 | | 1892.4 | 1896.9 |
| | | | | | | 1946.1 | | |
| 29 | 330.0 | 278.9 | 0.2010 | 0.1472 | 0.2945 | | 1894.3 | 1898.7 |
| | | | | | | 1880.0 | | |
| 28 | 340.0 | 288.9 | 0.2056 | 0.1526 | 0.3051 | | 1893.8 | 1898.0 |
| | | | | | | 1960.8 | | |
| 28 | 350.0 | 298.9 | 0.2100 | 0.1577 | 0.3153 | | 1896.0 | 1900.1 |
| | | | | | | 2008.1 | | |
| 28 | 360.0 | 308.9 | 0.2143 | 0.1626 | 0.3253 | | 1899.4 | 1903.5 |
| | | | | | | 1959.9 | | |
| 28 | 370.0 | 318.9 | 0.2187 | 0.1677 | 0.3355 | | 1901.2 | 1905.2 |
| | | | | | | 1990.8 | | |
| 28 | 380.0 | 328.9 | 0.2231 | 0.1728 | 0.3455 | | 1903.8 | 1907.8 |
| | | | | | | 1953.4 | | |
| 28 | 390.0 | 338.9 | 0.2277 | 0.1779 | 0.3558 | | 1905.3 | 1909.1 |
| | | | | | | 2039.3 | | |

Stack Summary Listing (2/8) from VSI_007_A_gac_wavefield_z.ldb

| Stack Number ACQUISITION SHOT_ NUMBER | Measured Depth [m] CABLE_ LENGTH | True Vertical Depth [m] RECEIVER_ CORRECTION Z | Measured Time [s] TRANSIT_ TIME | One-way Vertical Time [s] TRANSIT_ TIME_SRD | Two-way Vertical Time [s] TRANSIT_ TIME_ INITIAL | Interval Velocity [m/s] VELOCITY_ 1 | Average Velocity [m/s] VELOCITY_ 2 | RMS Velocity [m/s] VELOCITY_ 3 |
|--|---|--|--|---|---|---|--|--|
| 28 | 400.0 | 348.9 | 0.2320 | 0.1828 | 0.3656 | | 1908.9 | 1912.7 |
| | | | | | | 2011.4 | | |
| 27 | 410.0 | 358.9 | 0.2365 | 0.1878 | 0.3755 | | 1911.6 | 1915.4 |
| | | | | | | 1994.6 | | |
| 27 | 420.0 | 368.9 | 0.2410 | 0.1928 | 0.3856 | | 1913.7 | 1917.5 |
| | | | | | | 1934.5 | | |
| 27 | 430.0 | 378.9 | 0.2457 | 0.1979 | 0.3959 | | 1914.3 | 1917.9 |
| | | | | | | 1983.1 | | |
| 27 | 440.0 | 388.9 | 0.2502 | 0.2030 | 0.4060 | | 1916.0 | 1919.6 |
| | | | | | | 2074.4 | | |
| 27 | 450.0 | 398.9 | 0.2546 | 0.2078 | 0.4156 | | 1919.7 | 1923.3 |
| | | | | | | 2185.6 | | |
| 27 | 460.0 | 408.9 | 0.2587 | 0.2124 | 0.4248 | | 1925.4 | 1929.3 |
| | | | | | | 2452.2 | | |
| 27 | 470.0 | 418.9 | 0.2623 | 0.2165 | 0.4329 | | 1935.3 | 1940.5 |
| | | | | | | 2894.5 | | |
| 26 | 480.0 | 428.9 | 0.2652 | 0.2199 | 0.4398 | | 1950.4 | 1959.1 |
| | | | | | | 2173.5 | | |
| 26 | 490.0 | 438.9 | 0.2694 | 0.2245 | 0.4490 | | 1955.0 | 1963.7 |
| | | | | | | 2184.0 | | |
| 26 | 500.0 | 448.9 | 0.2736 | 0.2291 | 0.4582 | | 1959.5 | 1968.3 |
| | | | | | | 2126.1 | | |
| 26 | 510.0 | 458.9 | 0.2779 | 0.2338 | 0.4676 | | 1962.9 | 1971.6 |
| | | | | | | 2224.1 | | |
| 26 | 520.0 | 468.9 | 0.2821 | 0.2383 | 0.4766 | | 1967.8 | 1976.7 |
| | | | | | | 2155.3 | | |
| 26 | 530.0 | 478.9 | 0.2864 | 0.2429 | 0.4859 | | 1971.4 | 1980.3 |
| | | | | | | 2195.4 | | |
| 26 | 540.0 | 488.9 | 0.2906 | 0.2475 | 0.4950 | | 1975.5 | 1984.4 |
| | | | | | | 2250.0 | | |
| 25 | 550.0 | 498.9 | 0.2947 | 0.2519 | 0.5039 | | 1980.4 | 1989.4 |
| | | | | | | 2288.2 | | |
| 25 | 560.0 | 508.9 | 0.2987 | 0.2563 | 0.5126 | | 1985.6 | 1994.9 |
| | | | | | | 2419.7 | | |
| 25 | 570.0 | 518.9 | 0.3025 | 0.2604 | 0.5209 | | 1992.5 | 2002.3 |
| | | | | | | 2122.1 | | |
| 25 | 580.0 | 528.9 | 0.3069 | 0.2651 | 0.5303 | | 1994.8 | 2004.5 |
| | | | | | | 2232.2 | | |
| 25 | 590.0 | 538.9 | 0.3111 | 0.2696 | 0.5393 | | 1998.7 | 2008.5 |
| | | | | | | 2613.6 | | |
| 25 | 600.0 | 548.9 | 0.3147 | 0.2735 | 0.5469 | | 2007.3 | 2018.2 |
| | | | | | | 2641.3 | | |
| 25 | 610.0 | 558.9 | 0.3182 | 0.2772 | 0.5545 | | 2016.0 | 2028.0 |
| | | | | | | 2515.6 | | |
| 24 | 620.0 | 568.9 | 0.3219 | 0.2812 | 0.5624 | | 2023.1 | 2035.7 |
| | | | | | | 2423.3 | | |
| 24 | 630.0 | 578.9 | 0.3257 | 0.2853 | 0.5707 | | 2028.8 | 2041.9 |
| | | | | | | 2651.7 | | |
| 24 | 640.0 | 588.9 | 0.3292 | 0.2891 | 0.5782 | | 2037.0 | 2051.0 |
| | | | | | | 2389.4 | | |
| 24 | 650.0 | 598.9 | 0.3331 | 0.2933 | 0.5866 | | 2042.0 | 2056.2 |
| | | | | | | 2481.1 | | |
| 24 | 660.0 | 608.9 | 0.3369 | 0.2973 | 0.5946 | | 2047.9 | 2062.6 |
| | | | | | | 2516.1 | | |
| 24 | 670.0 | 618.9 | 0.3407 | 0.3013 | 0.6026 | | 2054.1 | 2069.2 |
| | | | | | | 2568.4 | | |

Stack Summary Listing (3/8) from VSI_007_A_gac_wavefield_z.ldr

| Stack Number ACQUISITION SHOT_ NUMBER | Measured Depth [m] CABLE_ LENGTH | True Vertical Depth [m] RECEIVER_ CORRECTION Z | Measured Time [s] TRANSIT_ TIME | One-way Vertical Time [s] TRANSIT_ TIME_SRD | Two-way Vertical Time [s] TRANSIT_ TIME_ INITIAL | Interval Velocity [m/s] VELOCITY_ 1 | Average Velocity [m/s] VELOCITY_ 2 | RMS Velocity [m/s] VELOCITY_ 3 |
|--|---|--|--|---|---|---|--|--|
| 24 | 680.0 | 628.9 | 0.3443 | 0.3052 | 0.6104 | | 2060.7 | 2076.3 |
| | | | | | | 2425.7 | | |
| 23 | 690.0 | 638.9 | 0.3482 | 0.3093 | 0.6186 | | 2065.6 | 2081.4 |
| | | | | | | 2387.6 | | |
| 23 | 700.0 | 648.9 | 0.3522 | 0.3135 | 0.6270 | | 2069.9 | 2085.7 |
| | | | | | | 2430.0 | | |
| 23 | 710.0 | 658.9 | 0.3561 | 0.3176 | 0.6352 | | 2074.5 | 2090.6 |
| | | | | | | 2485.1 | | |
| 23 | 720.0 | 668.9 | 0.3600 | 0.3216 | 0.6433 | | 2079.7 | 2096.0 |
| | | | | | | 2506.7 | | |
| 23 | 730.0 | 678.9 | 0.3637 | 0.3256 | 0.6513 | | 2084.9 | 2101.5 |
| | | | | | | 2523.0 | | |
| 23 | 740.0 | 688.9 | 0.3675 | 0.3296 | 0.6592 | | 2090.2 | 2107.1 |
| | | | | | | 2604.1 | | |
| 23 | 750.0 | 698.9 | 0.3712 | 0.3334 | 0.6669 | | 2096.1 | 2113.4 |
| | | | | | | 2571.2 | | |
| 22 | 760.0 | 708.9 | 0.3749 | 0.3373 | 0.6746 | | 2101.5 | 2119.3 |
| | | | | | | 2716.8 | | |
| 22 | 770.0 | 718.9 | 0.3784 | 0.3410 | 0.6820 | | 2108.2 | 2126.6 |
| | | | | | | 2590.1 | | |
| 22 | 780.0 | 728.9 | 0.3820 | 0.3449 | 0.6897 | | 2113.6 | 2132.4 |
| | | | | | | 2655.3 | | |
| 22 | 790.0 | 738.9 | 0.3856 | 0.3486 | 0.6972 | | 2119.4 | 2138.7 |
| | | | | | | 2840.2 | | |
| 22 | 800.0 | 748.9 | 0.3890 | 0.3521 | 0.7043 | | 2126.6 | 2146.8 |
| | | | | | | 2703.5 | | |
| 22 | 810.0 | 758.9 | 0.3926 | 0.3558 | 0.7117 | | 2132.6 | 2153.4 |
| | | | | | | 2566.3 | | |
| 22 | 820.0 | 768.9 | 0.3963 | 0.3597 | 0.7195 | | 2137.3 | 2158.3 |
| | | | | | | 2741.5 | | |
| 21 | 830.0 | 778.9 | 0.3998 | 0.3634 | 0.7268 | | 2143.4 | 2164.9 |
| | | | | | | 2998.5 | | |
| 21 | 840.0 | 788.9 | 0.4030 | 0.3667 | 0.7335 | | 2151.2 | 2173.9 |
| | | | | | | 2847.3 | | |
| 21 | 850.0 | 798.9 | 0.4064 | 0.3702 | 0.7405 | | 2157.8 | 2181.3 |
| | | | | | | 2671.8 | | |
| 21 | 860.0 | 808.9 | 0.4100 | 0.3740 | 0.7480 | | 2162.9 | 2186.7 |
| | | | | | | 2843.4 | | |
| 21 | 870.0 | 818.9 | 0.4134 | 0.3775 | 0.7550 | | 2169.3 | 2193.8 |
| | | | | | | 2761.0 | | |
| 21 | 880.0 | 828.9 | 0.4169 | 0.3811 | 0.7622 | | 2174.9 | 2199.8 |
| | | | | | | 2800.1 | | |
| 21 | 890.0 | 838.9 | 0.4203 | 0.3847 | 0.7694 | | 2180.7 | 2206.2 |
| | | | | | | 2689.0 | | |
| 20 | 900.0 | 848.9 | 0.4239 | 0.3884 | 0.7768 | | 2185.5 | 2211.3 |
| | | | | | | 2749.1 | | |
| 20 | 910.0 | 858.9 | 0.4274 | 0.3920 | 0.7841 | | 2190.8 | 2216.9 |
| | | | | | | 2942.0 | | |
| 20 | 920.0 | 868.9 | 0.4307 | 0.3954 | 0.7909 | | 2197.2 | 2224.1 |
| | | | | | | 2739.2 | | |
| 20 | 930.0 | 878.9 | 0.4343 | 0.3991 | 0.7982 | | 2202.2 | 2229.4 |
| | | | | | | 2865.6 | | |
| 20 | 940.0 | 888.9 | 0.4377 | 0.4026 | 0.8052 | | 2207.9 | 2235.7 |
| | | | | | | 2734.7 | | |
| 20 | 950.0 | 898.9 | 0.4412 | 0.4062 | 0.8125 | | 2212.7 | 2240.6 |
| | | | | | | 3334.7 | | |

Stack Summary Listing (4/8) from VSI_007_A_gac_wavefield_z.ldr

| Stack Number ACQUISITION SHOT_ NUMBER | Measured Depth [m] CABLE_ LENGTH | True Vertical Depth [m] RECEIVER_ CORRECTION_ Z | Measured Time [s] TRANSIT_ TIME | One-way Vertical Time [s] TRANSIT_ TIME_SRD | Two-way Vertical Time [s] TRANSIT_ TIME_ INITIAL | Interval Velocity [m/s] VELOCITY_ 1 | Average Velocity [m/s] VELOCITY_ 2 | RMS Velocity [m/s] VELOCITY_ 3 |
|--|---|---|--|---|---|---|--|--|
| 20 | 960.0 | 908.9 | 0.4441 | 0.4092 | 0.8185 | | 2220.9 | 2250.6 |
| | | | | | | 3131.5 | | |
| 19 | 970.0 | 918.9 | 0.4472 | 0.4124 | 0.8249 | | 2228.0 | 2258.7 |
| | | | | | | 3296.8 | | |
| 19 | 980.0 | 928.9 | 0.4501 | 0.4155 | 0.8309 | | 2235.8 | 2268.0 |
| | | | | | | 3056.3 | | |
| 19 | 990.0 | 938.9 | 0.4533 | 0.4187 | 0.8375 | | 2242.2 | 2275.3 |
| | | | | | | 3112.0 | | |
| 19 | 1000.0 | 948.9 | 0.4564 | 0.4219 | 0.8439 | | 2248.8 | 2282.8 |
| | | | | | | 3032.7 | | |
| 19 | 1010.0 | 958.9 | 0.4596 | 0.4252 | 0.8505 | | 2254.9 | 2289.5 |
| | | | | | | 2809.7 | | |
| 19 | 1020.0 | 968.9 | 0.4631 | 0.4288 | 0.8576 | | 2259.5 | 2294.3 |
| | | | | | | 2908.1 | | |
| 19 | 1030.0 | 978.9 | 0.4665 | 0.4322 | 0.8645 | | 2264.6 | 2299.9 |
| | | | | | | 3070.2 | | |
| 18 | 1040.0 | 988.9 | 0.4696 | 0.4355 | 0.8710 | | 2270.7 | 2306.6 |
| | | | | | | 2934.6 | | |
| 18 | 1050.0 | 998.9 | 0.4730 | 0.4389 | 0.8778 | | 2275.8 | 2312.1 |
| | | | | | | 2792.3 | | |
| 18 | 1060.0 | 1008.9 | 0.4765 | 0.4425 | 0.8850 | | 2280.0 | 2316.4 |
| | | | | | | 2897.3 | | |
| 18 | 1070.0 | 1018.9 | 0.4798 | 0.4459 | 0.8919 | | 2284.8 | 2321.5 |
| | | | | | | 2984.2 | | |
| 18 | 1080.0 | 1028.9 | 0.4831 | 0.4493 | 0.8986 | | 2290.0 | 2327.1 |
| | | | | | | 3078.0 | | |
| 18 | 1090.0 | 1038.9 | 0.4863 | 0.4525 | 0.9051 | | 2295.7 | 2333.4 |
| | | | | | | 2835.5 | | |
| 18 | 1100.0 | 1048.9 | 0.4897 | 0.4561 | 0.9121 | | 2299.8 | 2337.7 |
| | | | | | | 3133.6 | | |
| 17 | 1110.0 | 1058.8 | 0.4928 | 0.4592 | 0.9185 | | 2305.6 | 2344.1 |
| | | | | | | 2884.5 | | |
| 17 | 1120.0 | 1068.8 | 0.4962 | 0.4627 | 0.9254 | | 2309.9 | 2348.6 |
| | | | | | | 2897.9 | | |
| 17 | 1130.0 | 1078.8 | 0.4996 | 0.4662 | 0.9323 | | 2314.3 | 2353.2 |
| | | | | | | 3184.1 | | |
| 17 | 1140.0 | 1088.8 | 0.5027 | 0.4693 | 0.9386 | | 2320.1 | 2359.7 |
| | | | | | | 2876.9 | | |
| 17 | 1150.0 | 1098.8 | 0.5061 | 0.4728 | 0.9456 | | 2324.2 | 2363.9 |
| | | | | | | 2961.9 | | |
| 17 | 1160.0 | 1108.8 | 0.5094 | 0.4762 | 0.9523 | | 2328.7 | 2368.7 |
| | | | | | | 3061.2 | | |
| 17 | 1170.0 | 1118.8 | 0.5126 | 0.4794 | 0.9588 | | 2333.7 | 2374.1 |
| | | | | | | 3072.1 | | |
| 16 | 1180.0 | 1128.9 | 0.5158 | 0.4827 | 0.9654 | | 2338.7 | 2379.5 |
| | | | | | | 2959.4 | | |
| 16 | 1190.0 | 1138.9 | 0.5191 | 0.4861 | 0.9721 | | 2343.0 | 2384.0 |
| | | | | | | 3024.9 | | |
| 16 | 1200.0 | 1148.8 | 0.5224 | 0.4894 | 0.9787 | | 2347.6 | 2388.9 |
| | | | | | | 2850.5 | | |
| 16 | 1210.0 | 1158.8 | 0.5258 | 0.4929 | 0.9857 | | 2351.2 | 2392.5 |
| | | | | | | 2972.1 | | |
| 16 | 1220.0 | 1168.8 | 0.5291 | 0.4962 | 0.9925 | | 2355.4 | 2396.9 |
| | | | | | | 2995.1 | | |
| 16 | 1230.0 | 1178.8 | 0.5324 | 0.4996 | 0.9992 | | 2359.7 | 2401.4 |
| | | | | | | 3079.4 | | |

Stack Summary Listing (5/8) from VSI_007_A_gac_wavefield_z.ldr

| Stack Number ACQUISITION SHOT_ NUMBER | Measured Depth [m] CABLE_ LENGTH | True Vertical Depth [m] RECEIVER_ CORRECTION_ Z | Measured Time [s] TRANSIT_ TIME | One-way Vertical Time [s] TRANSIT_ TIME_SRD | Two-way Vertical Time [s] TRANSIT_ TIME_ INITIAL | Interval Velocity [m/s] VELOCITY_ 1 | Average Velocity [m/s] VELOCITY_ 2 | RMS Velocity [m/s] VELOCITY_ 3 |
|--|---|---|--|---|---|---|--|--|
| 16 | 1240.0 | 1188.8 | 0.5356 | 0.5028 | 1.0056 | 2970.6 | 2364.3 | 2406.4 |
| 15 | 1250.0 | 1198.8 | 0.5389 | 0.5062 | 1.0124 | 2930.3 | 2368.4 | 2410.6 |
| 15 | 1260.0 | 1208.8 | 0.5423 | 0.5096 | 1.0192 | 2960.9 | 2372.1 | 2414.4 |
| 15 | 1270.0 | 1218.8 | 0.5456 | 0.5130 | 1.0260 | 3266.6 | 2376.0 | 2418.4 |
| 15 | 1280.0 | 1228.8 | 0.5486 | 0.5160 | 1.0321 | 3222.1 | 2381.3 | 2424.3 |
| 15 | 1290.0 | 1238.8 | 0.5516 | 0.5191 | 1.0383 | 3029.7 | 2386.3 | 2429.9 |
| 15 | 1300.0 | 1248.8 | 0.5549 | 0.5224 | 1.0449 | 3048.2 | 2390.4 | 2434.1 |
| 15 | 1310.0 | 1258.8 | 0.5581 | 0.5257 | 1.0514 | 3245.1 | 2394.5 | 2438.4 |
| 14 | 1320.0 | 1268.9 | 0.5611 | 0.5288 | 1.0576 | 3049.1 | 2399.5 | 2443.9 |
| 14 | 1330.0 | 1278.9 | 0.5644 | 0.5321 | 1.0642 | 3066.0 | 2403.5 | 2448.1 |
| 14 | 1340.0 | 1288.9 | 0.5676 | 0.5354 | 1.0707 | 2938.3 | 2407.5 | 2452.4 |
| 14 | 1350.0 | 1298.9 | 0.5709 | 0.5388 | 1.0775 | 3134.3 | 2410.8 | 2455.7 |
| 14 | 1360.0 | 1308.9 | 0.5741 | 0.5419 | 1.0839 | 3024.1 | 2415.1 | 2460.3 |
| 14 | 1370.0 | 1318.9 | 0.5773 | 0.5453 | 1.0905 | 3349.7 | 2418.8 | 2464.1 |
| 14 | 1380.0 | 1328.9 | 0.5803 | 0.5482 | 1.0965 | 3195.1 | 2423.9 | 2469.8 |
| 13 | 1390.0 | 1338.9 | 0.5834 | 0.5514 | 1.1027 | 3200.4 | 2428.2 | 2474.5 |
| 13 | 1400.0 | 1348.9 | 0.5864 | 0.5545 | 1.1090 | 3084.9 | 2432.6 | 2479.2 |
| 13 | 1410.0 | 1358.9 | 0.5896 | 0.5577 | 1.1155 | 3339.6 | 2436.4 | 2483.1 |
| 13 | 1420.0 | 1368.9 | 0.5926 | 0.5607 | 1.1215 | 3067.1 | 2441.2 | 2488.5 |
| 13 | 1430.0 | 1378.9 | 0.5958 | 0.5640 | 1.1280 | 3061.6 | 2444.8 | 2492.2 |
| 13 | 1440.0 | 1388.9 | 0.5990 | 0.5673 | 1.1345 | 3229.1 | 2448.4 | 2495.8 |
| 13 | 1450.0 | 1398.9 | 0.6021 | 0.5704 | 1.1407 | 3651.2 | 2452.6 | 2500.4 |
| 12 | 1460.0 | 1408.8 | 0.6047 | 0.5731 | 1.1462 | 2963.9 | 2458.3 | 2507.1 |
| 12 | 1470.0 | 1418.8 | 0.6081 | 0.5765 | 1.1529 | 3641.0 | 2461.3 | 2510.1 |
| 12 | 1480.0 | 1428.8 | 0.6108 | 0.5792 | 1.1584 | 3218.4 | 2466.9 | 2516.6 |
| 12 | 1490.0 | 1438.8 | 0.6138 | 0.5823 | 1.1646 | 3150.3 | 2470.9 | 2520.9 |
| 12 | 1500.0 | 1448.8 | 0.6170 | 0.5855 | 1.1710 | 3385.8 | 2474.6 | 2524.7 |
| 12 | 1510.0 | 1458.8 | 0.6199 | 0.5884 | 1.1769 | 3374.3 | 2479.1 | 2529.8 |

Stack Summary Listing (6/8) from VSI_007_A_gac_wavefield_z.ldr

| Stack Number ACQUISITION SHOT_ NUMBER | Measured Depth [m] CABLE_ LENGTH | True Vertical Depth [m] RECEIVER_ CORRECTION_ Z | Measured Time [s] TRANSIT_ TIME | One-way Vertical Time [s] TRANSIT_ TIME_SRD | Two-way Vertical Time [s] TRANSIT_ TIME_ INITIAL | Interval Velocity [m/s] VELOCITY_ 1 | Average Velocity [m/s] VELOCITY_ 2 | RMS Velocity [m/s] VELOCITY_ 3 |
|--|---|---|--|---|---|---|--|--|
| 12 | 1520.0 | 1468.8 | 0.6228 | 0.5914 | 1.1828 | | 2483.6 | 2534.7 |
| | | | | | | 3091.3 | | |
| 11 | 1530.0 | 1478.8 | 0.6260 | 0.5946 | 1.1893 | | 2486.9 | 2538.1 |
| | | | | | | 3201.1 | | |
| 11 | 1540.0 | 1488.8 | 0.6291 | 0.5978 | 1.1955 | | 2490.7 | 2542.0 |
| | | | | | | 3156.6 | | |
| 11 | 1550.0 | 1498.8 | 0.6322 | 0.6009 | 1.2019 | | 2494.2 | 2545.6 |
| | | | | | | 3264.5 | | |
| 11 | 1560.0 | 1508.8 | 0.6352 | 0.6040 | 1.2080 | | 2498.1 | 2549.8 |
| | | | | | | 3370.6 | | |
| 11 | 1570.0 | 1518.8 | 0.6381 | 0.6070 | 1.2139 | | 2502.4 | 2554.4 |
| | | | | | | 3165.2 | | |
| 11 | 1580.0 | 1528.8 | 0.6413 | 0.6101 | 1.2202 | | 2505.8 | 2558.0 |
| | | | | | | 3290.1 | | |
| 11 | 1590.0 | 1538.8 | 0.6442 | 0.6132 | 1.2263 | | 2509.7 | 2562.1 |
| | | | | | | 3082.8 | | |
| 10 | 1600.0 | 1548.8 | 0.6474 | 0.6164 | 1.2328 | | 2512.7 | 2565.1 |
| | | | | | | 3176.6 | | |
| 10 | 1610.0 | 1558.8 | 0.6505 | 0.6195 | 1.2391 | | 2516.1 | 2568.6 |
| | | | | | | 3317.6 | | |
| 10 | 1620.0 | 1568.8 | 0.6535 | 0.6226 | 1.2451 | | 2519.9 | 2572.7 |
| | | | | | | 3341.7 | | |
| 10 | 1630.0 | 1578.8 | 0.6565 | 0.6255 | 1.2511 | | 2523.9 | 2577.0 |
| | | | | | | 3302.4 | | |
| 10 | 1640.0 | 1588.8 | 0.6595 | 0.6286 | 1.2572 | | 2527.6 | 2580.9 |
| | | | | | | 3230.0 | | |
| 10 | 1650.0 | 1598.8 | 0.6625 | 0.6317 | 1.2633 | | 2531.1 | 2584.5 |
| | | | | | | 3369.1 | | |
| 10 | 1660.0 | 1608.8 | 0.6654 | 0.6346 | 1.2693 | | 2535.0 | 2588.7 |
| | | | | | | 3018.6 | | |
| 9 | 1670.0 | 1618.8 | 0.6687 | 0.6380 | 1.2759 | | 2537.5 | 2591.2 |
| | | | | | | 3200.4 | | |
| 9 | 1680.0 | 1628.8 | 0.6718 | 0.6411 | 1.2822 | | 2540.7 | 2594.5 |
| | | | | | | 3434.8 | | |
| 9 | 1690.0 | 1638.8 | 0.6747 | 0.6440 | 1.2880 | | 2544.8 | 2598.9 |
| | | | | | | 3112.0 | | |
| 9 | 1700.0 | 1648.8 | 0.6779 | 0.6472 | 1.2944 | | 2547.6 | 2601.7 |
| | | | | | | 3763.6 | | |
| 9 | 1710.0 | 1658.8 | 0.6804 | 0.6499 | 1.2997 | | 2552.5 | 2607.5 |
| | | | | | | 3108.2 | | |
| 9 | 1720.0 | 1668.8 | 0.6836 | 0.6531 | 1.3061 | | 2555.3 | 2610.2 |
| | | | | | | 3545.2 | | |
| 9 | 1730.0 | 1678.7 | 0.6864 | 0.6559 | 1.3118 | | 2559.5 | 2614.9 |
| | | | | | | 3170.6 | | |
| 8 | 1735.0 | 1683.7 | 0.6879 | 0.6575 | 1.3149 | | 2561.0 | 2616.4 |
| | | | | | | 3498.2 | | |
| 7 | 1740.0 | 1688.7 | 0.6893 | 0.6589 | 1.3178 | | 2563.0 | 2618.6 |
| | | | | | | 3593.8 | | |
| 8 | 1745.0 | 1693.7 | 0.6907 | 0.6603 | 1.3205 | | 2565.2 | 2621.0 |
| | | | | | | 2992.1 | | |
| 7 | 1750.0 | 1698.7 | 0.6923 | 0.6619 | 1.3239 | | 2566.3 | 2622.0 |
| | | | | | | 3450.0 | | |
| 8 | 1755.0 | 1703.7 | 0.6938 | 0.6634 | 1.3268 | | 2568.2 | 2624.1 |
| | | | | | | 3162.5 | | |
| 7 | 1760.0 | 1708.7 | 0.6953 | 0.6650 | 1.3299 | | 2569.6 | 2625.5 |
| | | | | | | 3658.4 | | |

Stack Summary Listing (7/8) from VSI_007_A_gac_wavefield_z.ldr

| Stack Number ACQUISITION SHOT_ NUMBER | Measured Depth [m] CABLE_ LENGTH | True Vertical Depth [m] RECEIVER_ CORRECTION_ Z | Measured Time [s] TRANSIT_ TIME | One-way Vertical Time [s] TRANSIT_ TIME_SRD | Two-way Vertical Time [s] TRANSIT_ TIME_ INITIAL | Interval Velocity [m/s] VELOCITY_ 1 | Average Velocity [m/s] VELOCITY_ 2 | RMS Velocity [m/s] VELOCITY_ 3 |
|--|---|---|--|---|---|---|--|--|
| 8 | 1765.0 | 1713.7 | 0.6967 | 0.6663 | 1.3327 | | 2571.8 | 2628.1 |
| | | | | | | 3448.3 | | |
| 7 | 1770.0 | 1718.7 | 0.6981 | 0.6678 | 1.3356 | | 2573.7 | 2630.1 |
| | | | | | | 3236.3 | | |
| 8 | 1775.0 | 1723.7 | 0.6996 | 0.6693 | 1.3386 | | 2575.2 | 2631.7 |
| | | | | | | 3019.3 | | |
| 7 | 1780.0 | 1728.7 | 0.7012 | 0.6710 | 1.3419 | | 2576.3 | 2632.7 |
| | | | | | | 3479.1 | | |
| 8 | 1785.0 | 1733.6 | 0.7026 | 0.6724 | 1.3448 | | 2578.3 | 2634.8 |
| | | | | | | 3223.1 | | |
| 7 | 1790.0 | 1738.6 | 0.7042 | 0.6740 | 1.3479 | | 2579.8 | 2636.3 |
| | | | | | | 3279.9 | | |
| 8 | 1795.0 | 1743.6 | 0.7057 | 0.6755 | 1.3510 | | 2581.3 | 2637.9 |
| | | | | | | 3303.7 | | |
| 7 | 1800.0 | 1748.6 | 0.7072 | 0.6770 | 1.3540 | | 2582.9 | 2639.6 |
| | | | | | | 3006.3 | | |
| 6 | 1805.0 | 1753.6 | 0.7088 | 0.6786 | 1.3573 | | 2584.0 | 2640.6 |
| | | | | | | 3495.5 | | |
| 5 | 1810.0 | 1758.6 | 0.7102 | 0.6801 | 1.3602 | | 2585.9 | 2642.6 |
| | | | | | | 2937.1 | | |
| 6 | 1815.0 | 1763.6 | 0.7119 | 0.6818 | 1.3635 | | 2586.8 | 2643.4 |
| | | | | | | 3176.8 | | |
| 5 | 1820.0 | 1768.6 | 0.7134 | 0.6833 | 1.3667 | | 2588.1 | 2644.8 |
| | | | | | | 3117.6 | | |
| 6 | 1825.0 | 1773.6 | 0.7150 | 0.6849 | 1.3699 | | 2589.4 | 2646.0 |
| | | | | | | 3388.7 | | |
| 5 | 1830.0 | 1778.6 | 0.7165 | 0.6864 | 1.3728 | | 2591.1 | 2647.8 |
| | | | | | | 3013.8 | | |
| 6 | 1835.0 | 1783.6 | 0.7181 | 0.6881 | 1.3761 | | 2592.1 | 2648.7 |
| | | | | | | 3082.0 | | |
| 5 | 1840.0 | 1788.5 | 0.7197 | 0.6897 | 1.3794 | | 2593.2 | 2649.8 |
| | | | | | | 3349.4 | | |
| 6 | 1845.0 | 1793.5 | 0.7212 | 0.6912 | 1.3824 | | 2594.9 | 2651.5 |
| | | | | | | 3387.7 | | |
| 5 | 1850.0 | 1798.5 | 0.7226 | 0.6927 | 1.3853 | | 2596.6 | 2653.3 |
| | | | | | | 2812.5 | | |
| 6 | 1855.0 | 1803.5 | 0.7244 | 0.6944 | 1.3888 | | 2597.1 | 2653.7 |
| | | | | | | 3017.0 | | |
| 5 | 1860.0 | 1808.5 | 0.7260 | 0.6961 | 1.3921 | | 2598.1 | 2654.7 |
| | | | | | | 3021.0 | | |
| 6 | 1865.0 | 1813.4 | 0.7276 | 0.6977 | 1.3954 | | 2599.1 | 2655.6 |
| | | | | | | 3499.9 | | |
| 5 | 1870.0 | 1818.4 | 0.7290 | 0.6991 | 1.3983 | | 2600.9 | 2657.6 |
| | | | | | | 3328.8 | | |
| 4 | 1875.0 | 1823.3 | 0.7304 | 0.7006 | 1.4012 | | 2602.5 | 2659.2 |
| | | | | | | 2728.3 | | |
| 3 | 1880.0 | 1828.3 | 0.7323 | 0.7024 | 1.4049 | | 2602.8 | 2659.4 |
| | | | | | | 3058.9 | | |
| 4 | 1885.0 | 1833.3 | 0.7338 | 0.7041 | 1.4081 | | 2603.9 | 2660.3 |
| | | | | | | 3689.9 | | |
| 3 | 1890.0 | 1838.3 | 0.7352 | 0.7054 | 1.4108 | | 2605.9 | 2662.7 |
| | | | | | | 3156.1 | | |
| 4 | 1895.0 | 1843.2 | 0.7367 | 0.7070 | 1.4140 | | 2607.2 | 2663.9 |
| | | | | | | 2853.5 | | |
| 3 | 1900.0 | 1848.2 | 0.7384 | 0.7087 | 1.4175 | | 2607.8 | 2664.4 |
| | | | | | | 3030.8 | | |

Stack Summary Listing (8/8) from VSI_007_A_gac_wavefield_z.ldr

| Stack Number ACQUISITION SHOT_ NUMBER | Measured Depth [m] CABLE_ LENGTH | True Vertical Depth [m] RECEIVER_ CORRECTION_ Z | Measured Time [s] TRANSIT_ TIME | One-way Vertical Time [s] TRANSIT_ TIME_SRD | Two-way Vertical Time [s] TRANSIT_ TIME_ INITIAL | Interval Velocity [m/s] VELOCITY_ 1 | Average Velocity [m/s] VELOCITY_ 2 | RMS Velocity [m/s] VELOCITY_ 3 |
|--|---|---|--|---|---|---|--|--|
| 4 | 1905.0 | 1853.2 | 0.7400 | 0.7104 | 1.4207 | | 2608.7 | 2665.3 |
| | | | | | | 3091.0 | | |
| 3 | 1910.0 | 1858.1 | 0.7416 | 0.7120 | 1.4240 | | 2609.8 | 2666.3 |
| | | | | | | 3690.5 | | |
| 4 | 1915.0 | 1863.1 | 0.7429 | 0.7133 | 1.4266 | | 2611.9 | 2668.6 |
| | | | | | | 2903.9 | | |
| 3 | 1920.0 | 1868.1 | 0.7446 | 0.7150 | 1.4301 | | 2612.6 | 2669.2 |
| | | | | | | 3184.9 | | |
| 4 | 1925.0 | 1873.0 | 0.7461 | 0.7166 | 1.4332 | | 2613.8 | 2670.4 |
| | | | | | | 2985.6 | | |
| 3 | 1930.0 | 1878.0 | 0.7478 | 0.7183 | 1.4365 | | 2614.7 | 2671.2 |
| | | | | | | 3149.9 | | |
| 4 | 1935.0 | 1883.0 | 0.7493 | 0.7198 | 1.4397 | | 2615.8 | 2672.3 |
| | | | | | | 3346.2 | | |
| 3 | 1940.0 | 1888.0 | 0.7508 | 0.7213 | 1.4426 | | 2617.3 | 2673.9 |
| | | | | | | 3061.4 | | |
| 2 | 1945.0 | 1892.9 | 0.7524 | 0.7229 | 1.4459 | | 2618.3 | 2674.8 |
| | | | | | | 2999.3 | | |
| 1 | 1950.0 | 1897.9 | 0.7540 | 0.7246 | 1.4492 | | 2619.2 | 2675.6 |
| | | | | | | 3361.7 | | |
| 2 | 1955.0 | 1902.9 | 0.7555 | 0.7261 | 1.4522 | | 2620.7 | 2677.2 |
| | | | | | | 2569.0 | | |
| 1 | 1960.0 | 1907.8 | 0.7574 | 0.7280 | 1.4560 | | 2620.6 | 2676.9 |
| | | | | | | 4366.2 | | |
| 2 | 1965.0 | 1912.8 | 0.7585 | 0.7292 | 1.4583 | | 2623.3 | 2680.4 |
| | | | | | | 3052.4 | | |
| 1 | 1970.0 | 1917.8 | 0.7601 | 0.7308 | 1.4616 | | 2624.3 | 2681.3 |
| | | | | | | 2934.7 | | |
| 2 | 1975.0 | 1922.7 | 0.7618 | 0.7325 | 1.4650 | | 2625.0 | 2681.9 |
| | | | | | | 2710.6 | | |
| 1 | 1980.0 | 1927.7 | 0.7636 | 0.7343 | 1.4686 | | 2625.2 | 2681.9 |
| | | | | | | 5136.4 | | |
| 2 | 1985.0 | 1932.7 | 0.7645 | 0.7353 | 1.4706 | | 2628.5 | 2686.6 |
| | | | | | | 2764.4 | | |
| 1 | 1990.0 | 1937.7 | 0.7663 | 0.7371 | 1.4742 | | 2628.8 | 2686.8 |
| | | | | | | 3099.3 | | |
| 2 | 1995.0 | 1942.6 | 0.7679 | 0.7387 | 1.4774 | | 2629.8 | 2687.8 |
| | | | | | | 3764.1 | | |
| 1 | 2000.0 | 1947.6 | 0.7692 | 0.7400 | 1.4800 | | 2631.9 | 2690.1 |
| | | | | | | 3846.6 | | |
| 2 | 2005.0 | 1952.6 | 0.7704 | 0.7413 | 1.4826 | | 2634.0 | 2692.5 |
| | | | | | | 3077.5 | | |
| 1 | 2010.0 | 1957.5 | 0.7721 | 0.7429 | 1.4858 | | 2634.9 | 2693.4 |
| | | | | | | | | |

Shot Summary Listing (1/8)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|--------------------|
| 130.0 | 2 | 31 | -12.1 | 3.1 | 877.9 | 169, 170, 171, 172 |
| 140.0 | 3 | 31 | -10.2 | 3.0 | 849.1 | 169, 170, 171, 172 |
| 150.0 | 4 | 31 | -12.8 | 3.2 | 952.5 | 169, 170, 171, 172 |
| 160.0 | 5 | 31 | -16.3 | 3.3 | 810.4 | 169, 170, 171, 172 |
| 170.0 | 6 | 31 | 23.4 | 3.2 | 839.9 | 169, 170, 171, 172 |
| 180.0 | 7 | 31 | 13.0 | 3.2 | 848.1 | 169, 170, 171, 172 |
| 190.0 | 8 | 31 | -21.8 | 3.2 | 868.3 | 169, 170, 171, 172 |
| 200.0 | 2 | 30 | -14.2 | 3.1 | 865.9 | 166, 167, 168 |
| 210.0 | 3 | 30 | -10.1 | 3.0 | 829.4 | 166, 167, 168 |
| 220.0 | 4 | 30 | -12.4 | 3.2 | 950.3 | 166, 167, 168 |
| 230.0 | 5 | 30 | -16.1 | 3.3 | 820.6 | 166, 167, 168 |
| 240.0 | 6 | 30 | 23.1 | 3.2 | 852.2 | 166, 167, 168 |
| 250.0 | 7 | 30 | 16.2 | 3.2 | 844.3 | 166, 167, 168 |
| 260.0 | 8 | 30 | -15.2 | 3.2 | 841.4 | 166, 167, 168 |
| 270.0 | 2 | 29 | -8.4 | 3.1 | 844.8 | 163, 164, 165 |
| 280.0 | 3 | 29 | -9.5 | 3.0 | 845.8 | 163, 164, 165 |
| 290.0 | 4 | 29 | -12.4 | 3.2 | 932.9 | 163, 164, 165 |
| 300.0 | 5 | 29 | -15.7 | 3.3 | 755.4 | 163, 164, 165 |
| 310.0 | 6 | 29 | 24.0 | 3.2 | 842.3 | 163, 164, 165 |
| 320.0 | 7 | 29 | 12.1 | 3.2 | 826.1 | 163, 164, 165 |
| 330.0 | 8 | 29 | -15.3 | 3.2 | 852.9 | 163, 164, 165 |
| 340.0 | 2 | 28 | -8.6 | 3.1 | 850.7 | 160, 161, 162 |
| 350.0 | 3 | 28 | -8.1 | 3.0 | 800.2 | 160, 161, 162 |
| 360.0 | 4 | 28 | -13.6 | 3.2 | 938.4 | 160, 161, 162 |
| 370.0 | 5 | 28 | -16.3 | 3.3 | 780.1 | 160, 161, 162 |
| 380.0 | 6 | 28 | 22.3 | 3.2 | 835.3 | 160, 161, 162 |
| 390.0 | 7 | 28 | 15.9 | 3.2 | 824.9 | 160, 161, 162 |
| 400.0 | 8 | 28 | -16.0 | 3.2 | 842.9 | 160, 161, 162 |

Shot Summary Listing (2/8)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|---------------|
| 410.0 | 2 | 27 | -7.7 | 3.1 | 837.2 | 157, 158, 159 |
| 420.0 | 3 | 27 | -18.9 | 3.0 | 809.8 | 157, 158, 159 |
| 430.0 | 4 | 27 | -13.9 | 3.2 | 924.7 | 157, 158, 159 |
| 440.0 | 5 | 27 | -16.0 | 3.3 | 778.7 | 157, 158, 159 |
| 450.0 | 6 | 27 | 19.5 | 3.2 | 844.4 | 157, 158, 159 |
| 460.0 | 7 | 27 | 5.9 | 3.2 | 821.8 | 157, 158, 159 |
| 470.0 | 8 | 27 | -18.5 | 3.2 | 845.0 | 157, 158, 159 |
| 480.0 | 2 | 26 | -1.7 | 3.1 | 829.3 | 153, 154, 155 |
| 490.0 | 3 | 26 | -16.4 | 3.0 | 806.1 | 153, 154, 155 |
| 500.0 | 4 | 26 | -15.7 | 3.2 | 912.1 | 153, 154, 155 |
| 510.0 | 5 | 26 | -17.7 | 3.3 | 785.3 | 153, 154, 155 |
| 520.0 | 6 | 26 | 22.0 | 3.2 | 833.5 | 153, 154, 155 |
| 530.0 | 7 | 26 | 8.6 | 3.2 | 823.3 | 153, 154, 155 |
| 540.0 | 8 | 26 | -1.6 | 3.2 | 819.5 | 153, 154, 155 |
| 550.0 | 2 | 25 | -11.2 | 3.1 | 814.4 | 150, 151, 152 |
| 560.0 | 3 | 25 | -7.6 | 3.0 | 787.2 | 150, 151, 152 |
| 570.0 | 4 | 25 | -13.9 | 3.2 | 887.6 | 150, 151, 152 |
| 580.0 | 5 | 25 | -15.6 | 3.3 | 778.0 | 150, 151, 152 |
| 590.0 | 6 | 25 | 22.0 | 3.2 | 830.3 | 150, 151, 152 |
| 600.0 | 7 | 25 | 14.0 | 3.2 | 815.0 | 150, 151, 152 |
| 610.0 | 8 | 25 | -16.2 | 3.2 | 821.5 | 150, 151, 152 |
| 620.0 | 2 | 24 | 0.3 | 3.1 | 818.7 | 146, 147, 148 |
| 630.0 | 3 | 24 | -4.7 | 3.0 | 780.7 | 146, 147, 148 |
| 640.0 | 4 | 24 | -13.5 | 3.2 | 917.1 | 146, 147, 148 |
| 650.0 | 5 | 24 | -16.4 | 3.3 | 766.1 | 146, 147, 148 |
| 660.0 | 6 | 24 | 20.8 | 3.2 | 815.8 | 146, 147, 148 |
| 670.0 | 7 | 24 | 18.0 | 3.2 | 815.2 | 146, 147, 148 |
| 680.0 | 8 | 24 | -0.3 | 3.2 | 815.9 | 146, 147, 148 |

Shot Summary Listing (3/8)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|-------------------------|
| 690.0 | 2 | 23 | 3.2 | 3.1 | 807.8 | 143, 144, 145 |
| 700.0 | 3 | 23 | -8.9 | 3.0 | 770.6 | 143, 144, 145 |
| 710.0 | 4 | 23 | -13.3 | 3.2 | 905.4 | 143, 144, 145 |
| 720.0 | 5 | 23 | -15.3 | 3.3 | 772.9 | 143, 144, 145 |
| 730.0 | 6 | 23 | 15.8 | 3.2 | 821.9 | 143, 144, 145 |
| 740.0 | 7 | 23 | 18.7 | 3.2 | 807.1 | 143, 144, 145 |
| 750.0 | 8 | 23 | -5.3 | 3.2 | 822.2 | 143, 144, 145 |
| 760.0 | 2 | 22 | -3.5 | 3.1 | 802.8 | 140, 141, 142 |
| 770.0 | 3 | 22 | -4.7 | 3.0 | 786.5 | 140, 141, 142 |
| 780.0 | 4 | 22 | -12.1 | 3.2 | 889.9 | 140, 141, 142 |
| 790.0 | 5 | 22 | -16.3 | 3.3 | 775.9 | 140, 141, 142 |
| 800.0 | 6 | 22 | 11.0 | 3.2 | 819.1 | 140, 141, 142 |
| 810.0 | 7 | 22 | 11.2 | 3.2 | 804.6 | 140, 141, 142 |
| 820.0 | 8 | 22 | -11.2 | 3.2 | 813.5 | 140, 141, 142 |
| 830.0 | 2 | 21 | -2.2 | 3.1 | 803.0 | 135, 136, 137, 138, 139 |
| 840.0 | 3 | 21 | -14.4 | 3.0 | 742.0 | 135, 136, 137, 138, 139 |
| 850.0 | 4 | 21 | -13.5 | 3.2 | 890.8 | 135, 136, 137, 138, 139 |
| 860.0 | 5 | 21 | -13.8 | 3.3 | 772.9 | 135, 136, 137, 138, 139 |
| 870.0 | 6 | 21 | 15.0 | 3.2 | 807.5 | 135, 136, 137, 138, 139 |
| 880.0 | 7 | 21 | 14.1 | 3.2 | 783.6 | 135, 136, 137, 138, 139 |
| 890.0 | 8 | 21 | -8.0 | 3.1 | 802.2 | 135, 136, 137, 138, 139 |
| 900.0 | 2 | 20 | -0.8 | 3.1 | 792.4 | 130, 131, 132, 133, 134 |
| 910.0 | 3 | 20 | -9.0 | 3.0 | 770.6 | 130, 131, 132, 133, 134 |
| 920.0 | 4 | 20 | -14.8 | 3.2 | 872.4 | 130, 131, 132, 133, 134 |
| 930.0 | 5 | 20 | -16.1 | 3.3 | 758.0 | 130, 131, 132, 133, 134 |
| 940.0 | 6 | 20 | 13.7 | 3.1 | 787.1 | 130, 131, 132, 133, 134 |
| 950.0 | 7 | 20 | 16.8 | 3.2 | 785.6 | 130, 131, 132, 133, 134 |
| 960.0 | 8 | 20 | -9.0 | 3.1 | 802.2 | 130, 131, 132, 133, 134 |

Shot Summary Listing (4/8)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|------------------------------|
| 970.0 | 2 | 19 | -4.5 | 3.1 | 791.2 | 125, 126, 127, 128, 129 |
| 980.0 | 3 | 19 | -5.8 | 3.0 | 759.0 | 125, 126, 127, 128, 129 |
| 990.0 | 4 | 19 | -18.6 | 3.2 | 862.1 | 125, 126, 127, 128, 129 |
| 1000.0 | 5 | 19 | -17.5 | 3.3 | 753.2 | 125, 126, 127, 128, 129 |
| 1010.0 | 6 | 19 | 24.5 | 3.2 | 802.9 | 125, 126, 127, 128, 129 |
| 1020.0 | 7 | 19 | 8.3 | 3.2 | 778.8 | 125, 126, 127, 128, 129 |
| 1030.0 | 8 | 19 | -11.7 | 3.1 | 786.9 | 125, 126, 127, 128, 129 |
| 1040.0 | 2 | 18 | -9.6 | 3.1 | 785.9 | 119, 120, 121, 122, 123 |
| 1050.0 | 3 | 18 | -6.0 | 3.0 | 757.0 | 119, 120, 121, 122, 123 |
| 1060.0 | 4 | 18 | -16.0 | 3.2 | 855.4 | 119, 120, 121, 122, 123 |
| 1070.0 | 5 | 18 | -16.2 | 3.3 | 737.4 | 119, 120, 121, 122, 123 |
| 1080.0 | 6 | 18 | 25.7 | 3.2 | 801.8 | 119, 120, 121, 122, 123 |
| 1090.0 | 7 | 18 | 13.8 | 3.2 | 765.9 | 119, 120, 121, 122, 123 |
| 1100.0 | 8 | 18 | -16.3 | 3.1 | 778.7 | 119, 120, 121, 122, 123 |
| 1110.0 | 2 | 17 | -1.0 | 3.1 | 784.8 | 113, 114, 115, 116, 117, 118 |
| 1120.0 | 3 | 17 | -11.1 | 3.0 | 751.4 | 113, 114, 115, 116, 117, 118 |
| 1130.0 | 4 | 17 | -16.8 | 3.2 | 846.0 | 113, 114, 115, 116, 117, 118 |
| 1140.0 | 5 | 17 | -12.7 | 3.2 | 737.4 | 113, 114, 115, 116, 117, 118 |
| 1150.0 | 6 | 17 | 21.3 | 3.1 | 792.9 | 113, 114, 115, 117, 118 |
| 1160.0 | 7 | 17 | 15.6 | 3.2 | 763.6 | 113, 114, 115, 116, 117, 118 |
| 1170.0 | 8 | 17 | -6.6 | 3.1 | 779.1 | 113, 114, 115, 116, 117, 118 |
| 1180.0 | 2 | 16 | -7.0 | 3.1 | 771.8 | 108, 109, 110, 111, 112 |
| 1190.0 | 3 | 16 | -21.6 | 3.0 | 733.9 | 108, 109, 110, 111, 112 |
| 1200.0 | 4 | 16 | -17.3 | 3.1 | 853.5 | 108, 109, 110, 111, 112 |
| 1210.0 | 5 | 16 | -16.6 | 3.2 | 704.7 | 108, 109, 110, 111, 112 |
| 1220.0 | 6 | 16 | 15.0 | 3.1 | 798.3 | 108, 109, 110, 111, 112 |
| 1230.0 | 7 | 16 | 17.8 | 3.2 | 770.5 | 108, 109, 110, 111, 112 |
| 1240.0 | 8 | 16 | 7.1 | 3.1 | 786.7 | 108, 109, 110, 111, 112 |

Shot Summary Listing (5/8)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|--------------------------------|
| 1250.0 | 2 | 15 | -10.3 | 3.0 | 758.1 | 103, 104, 105, 106, 107 |
| 1260.0 | 3 | 15 | -14.4 | 3.0 | 717.7 | 103, 104, 105, 106, 107 |
| 1270.0 | 4 | 15 | -15.5 | 3.2 | 841.6 | 103, 104, 105, 106, 107 |
| 1280.0 | 5 | 15 | -18.9 | 3.3 | 730.4 | 103, 104, 105, 106, 107 |
| 1290.0 | 6 | 15 | 13.7 | 3.2 | 784.8 | 103, 104, 105, 106, 107 |
| 1300.0 | 7 | 15 | 8.5 | 3.2 | 747.0 | 103, 104, 105, 106, 107 |
| 1310.0 | 8 | 15 | -15.9 | 3.1 | 761.2 | 103, 104, 105, 106, 107 |
| 1320.0 | 2 | 14 | -9.5 | 3.0 | 756.6 | 96, 97, 98, 99, 100, 101 |
| 1330.0 | 3 | 14 | -20.9 | 3.0 | 735.2 | 96, 97, 98, 99, 100, 101 |
| 1340.0 | 4 | 14 | -14.8 | 3.2 | 828.3 | 96, 97, 98, 99, 100, 101 |
| 1350.0 | 5 | 14 | -19.2 | 3.3 | 718.0 | 96, 97, 98, 99, 100, 101 |
| 1360.0 | 6 | 14 | 11.9 | 3.2 | 786.8 | 96, 97, 98, 99, 100, 101 |
| 1370.0 | 7 | 14 | 13.0 | 3.2 | 751.7 | 96, 97, 98, 99, 100, 101 |
| 1380.0 | 8 | 14 | -8.8 | 3.1 | 762.1 | 96, 97, 98, 99, 100, 101 |
| 1390.0 | 2 | 13 | -2.8 | 3.1 | 750.8 | 88, 90, 91, 92, 93, 94, 95 |
| 1400.0 | 3 | 13 | -18.8 | 3.0 | 733.6 | 88, 89, 90, 91, 92, 93, 94, 95 |
| 1410.0 | 4 | 13 | -13.8 | 3.2 | 815.5 | 88, 90, 91, 92, 94, 95 |
| 1420.0 | 5 | 13 | -6.2 | 3.3 | 732.9 | 88, 90, 91, 92, 94, 95 |
| 1430.0 | 6 | 13 | 10.3 | 3.2 | 783.9 | 88, 89, 90, 91, 92, 93, 94, 95 |
| 1440.0 | 7 | 13 | 8.6 | 3.2 | 737.6 | 88, 89, 90, 91, 92, 93, 94, 95 |
| 1450.0 | 8 | 13 | -12.9 | 3.1 | 778.3 | 88, 89, 90, 92, 93, 94, 95 |
| 1460.0 | 2 | 12 | 10.8 | 3.0 | 748.3 | 82, 83, 84, 85, 86, 87 |
| 1470.0 | 3 | 12 | -4.8 | 3.0 | 724.1 | 82, 83, 84, 85, 86, 87 |
| 1480.0 | 4 | 12 | -11.3 | 3.1 | 801.7 | 82, 83, 84, 85, 86, 87 |
| 1490.0 | 5 | 12 | -6.1 | 3.3 | 720.4 | 82, 83, 84, 85, 86, 87 |
| 1500.0 | 6 | 12 | 7.2 | 3.2 | 768.7 | 82, 83, 84, 85, 86, 87 |
| 1510.0 | 7 | 12 | 5.3 | 3.2 | 731.1 | 82, 83, 84, 85, 86, 87 |
| 1520.0 | 8 | 12 | -5.8 | 3.1 | 773.9 | 82, 83, 84, 85, 86, 87 |

Shot Summary Listing (6/8)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|--------------------|
| 1530.0 | 2 | 11 | -1.1 | 3.0 | 734.3 | 77, 78, 79, 80, 81 |
| 1540.0 | 3 | 11 | -3.0 | 3.0 | 703.0 | 77, 78, 79, 80, 81 |
| 1550.0 | 4 | 11 | -8.9 | 3.2 | 795.1 | 77, 78, 79, 80, 81 |
| 1560.0 | 5 | 11 | -17.3 | 3.2 | 700.6 | 77, 78, 79, 80, 81 |
| 1570.0 | 6 | 11 | 4.1 | 3.1 | 774.1 | 77, 78, 79, 80, 81 |
| 1580.0 | 7 | 11 | 7.5 | 3.2 | 730.7 | 77, 78, 79, 80, 81 |
| 1590.0 | 8 | 11 | -3.6 | 3.1 | 766.0 | 77, 78, 79, 80, 81 |
| 1600.0 | 2 | 10 | 7.1 | 3.0 | 726.9 | 71, 72, 74, 75, 76 |
| 1610.0 | 3 | 10 | 7.6 | 3.0 | 688.2 | 71, 72, 74, 75, 76 |
| 1620.0 | 4 | 10 | -11.4 | 3.1 | 808.8 | 71, 72, 74, 75, 76 |
| 1630.0 | 5 | 10 | -12.9 | 3.2 | 621.9 | 71, 72, 74, 75, 76 |
| 1640.0 | 6 | 10 | 12.7 | 3.2 | 770.0 | 71, 72, 74, 75, 76 |
| 1650.0 | 7 | 10 | 4.9 | 3.2 | 723.3 | 71, 72, 74, 75, 76 |
| 1660.0 | 8 | 10 | -17.8 | 3.1 | 750.1 | 71, 72, 74, 75, 76 |
| 1670.0 | 2 | 9 | -19.2 | 3.0 | 721.4 | 65, 66, 67, 68, 69 |
| 1680.0 | 3 | 9 | 11.4 | 3.0 | 686.1 | 65, 66, 67, 68, 69 |
| 1690.0 | 4 | 9 | -8.0 | 3.1 | 802.4 | 65, 66, 67, 68, 69 |
| 1700.0 | 5 | 9 | -20.4 | 3.2 | 691.8 | 65, 66, 67, 68, 69 |
| 1710.0 | 6 | 9 | 6.9 | 3.1 | 752.3 | 65, 66, 67, 68, 69 |
| 1720.0 | 7 | 9 | 1.8 | 3.2 | 694.7 | 65, 66, 67, 68, 69 |
| 1730.0 | 8 | 9 | 17.7 | 3.1 | 741.6 | 65, 66, 67, 68, 69 |
| 1735.0 | 2 | 8 | 42.9 | 3.0 | 716.0 | 60, 61, 62, 63, 64 |
| 1740.0 | 2 | 7 | 42.6 | 3.0 | 714.2 | 54, 55, 56, 57, 59 |
| 1745.0 | 3 | 8 | 66.5 | 3.0 | 682.3 | 60, 61, 62, 63, 64 |
| 1750.0 | 3 | 7 | 65.4 | 3.0 | 685.2 | 54, 55, 56, 57, 59 |
| 1755.0 | 4 | 8 | 4.9 | 3.1 | 788.8 | 60, 61, 62, 63, 64 |
| 1760.0 | 4 | 7 | 3.5 | 3.1 | 764.7 | 54, 55, 56, 57, 59 |
| 1765.0 | 5 | 8 | 44.3 | 3.2 | 692.4 | 60, 61, 62, 63, 64 |

Shot Summary Listing (7/8)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|------------------------|
| 1770.0 | 5 | 7 | 41.2 | 3.2 | 666.1 | 54, 55, 56, 57, 59 |
| 1775.0 | 6 | 8 | 42.8 | 3.1 | 757.1 | 60, 61, 62, 63, 64 |
| 1780.0 | 6 | 7 | 42.8 | 3.1 | 756.4 | 54, 55, 56, 57, 59 |
| 1785.0 | 7 | 8 | 16.4 | 3.2 | 693.9 | 60, 61, 62, 63, 64 |
| 1790.0 | 7 | 7 | 16.4 | 3.2 | 695.0 | 54, 55, 56, 57, 59 |
| 1795.0 | 8 | 8 | -39.8 | 3.1 | 737.0 | 60, 61, 62, 63, 64 |
| 1800.0 | 8 | 7 | -39.9 | 3.1 | 734.7 | 54, 55, 56, 57, 59 |
| 1805.0 | 2 | 6 | 14.9 | 3.0 | 708.5 | 49, 50, 51, 52, 53 |
| 1810.0 | 2 | 5 | 10.8 | 3.0 | 698.6 | 43, 44, 45, 46, 47, 48 |
| 1815.0 | 3 | 6 | 29.0 | 3.0 | 661.7 | 49, 50, 51, 52, 53 |
| 1820.0 | 3 | 5 | 4.0 | 3.0 | 663.5 | 43, 44, 45, 46, 47, 48 |
| 1825.0 | 4 | 6 | -20.4 | 3.2 | 769.9 | 49, 50, 51, 52, 53 |
| 1830.0 | 4 | 5 | -20.5 | 3.1 | 763.6 | 43, 44, 45, 46, 47, 48 |
| 1835.0 | 5 | 6 | 3.9 | 3.2 | 653.0 | 49, 50, 51, 52, 53 |
| 1840.0 | 5 | 5 | 3.9 | 3.2 | 658.9 | 43, 44, 45, 46, 47, 48 |
| 1845.0 | 6 | 6 | -4.7 | 3.1 | 757.3 | 49, 50, 51, 52, 53 |
| 1850.0 | 6 | 5 | -4.8 | 3.1 | 741.6 | 43, 44, 45, 46, 47, 48 |
| 1855.0 | 7 | 6 | -23.7 | 3.2 | 687.0 | 49, 50, 51, 52, 53 |
| 1860.0 | 7 | 5 | -32.3 | 3.2 | 683.9 | 43, 44, 45, 46, 47, 48 |
| 1865.0 | 8 | 6 | -85.2 | 3.1 | 733.0 | 49, 50, 51, 52, 53 |
| 1870.0 | 8 | 5 | -92.8 | 3.1 | 723.5 | 43, 44, 45, 46, 47, 48 |
| 1875.0 | 2 | 4 | -50.1 | 3.0 | 689.0 | 35, 36, 40, 41, 42 |
| 1880.0 | 2 | 3 | -50.0 | 3.0 | 682.5 | 29, 30, 31, 32, 34 |
| 1885.0 | 3 | 4 | -18.0 | 2.9 | 659.3 | 35, 36, 40, 41, 42 |
| 1890.0 | 3 | 3 | -18.0 | 3.0 | 655.8 | 29, 30, 31, 32, 34 |
| 1895.0 | 4 | 4 | -48.4 | 3.1 | 743.2 | 35, 36, 40, 41, 42 |
| 1900.0 | 4 | 3 | -48.4 | 3.2 | 749.0 | 29, 30, 31, 32, 34 |
| 1905.0 | 5 | 4 | -64.0 | 3.2 | 658.1 | 35, 36, 40, 41, 42 |

Shot Summary Listing (8/8)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|--------------------|
| 1910.0 | 5 | 3 | -64.2 | 3.2 | 638.7 | 29, 30, 31, 32, 34 |
| 1915.0 | 6 | 4 | -51.5 | 3.1 | 746.9 | 35, 36, 40, 41, 42 |
| 1920.0 | 6 | 3 | -51.5 | 3.1 | 722.0 | 29, 30, 31, 32, 34 |
| 1925.0 | 7 | 4 | -98.3 | 3.2 | 700.2 | 35, 36, 40, 41, 42 |
| 1930.0 | 7 | 3 | -98.3 | 3.2 | 680.0 | 29, 30, 31, 32, 34 |
| 1935.0 | 8 | 4 | 174.6 | 3.1 | 713.7 | 35, 36, 40, 41, 42 |
| 1940.0 | 8 | 3 | 174.7 | 3.1 | 700.9 | 29, 30, 31, 32, 34 |
| 1945.0 | 2 | 2 | -162.7 | 3.0 | 682.5 | 24, 25, 26, 27, 28 |
| 1950.0 | 2 | 1 | 139.8 | 3.0 | 682.5 | 19, 20, 21, 22, 23 |
| 1955.0 | 3 | 2 | -124.2 | 3.0 | 657.3 | 24, 25, 26, 27, 28 |
| 1960.0 | 3 | 1 | -177.2 | 2.9 | 648.8 | 19, 20, 21, 22, 23 |
| 1965.0 | 4 | 2 | -82.1 | 3.1 | 625.2 | 24, 25, 26, 27, 28 |
| 1970.0 | 4 | 1 | -82.2 | 3.1 | 683.1 | 19, 20, 21, 22, 23 |
| 1975.0 | 5 | 2 | 176.9 | 3.2 | 563.1 | 24, 25, 26, 27, 28 |
| 1980.0 | 5 | 1 | 137.3 | 3.2 | 631.3 | 19, 20, 21, 22, 23 |
| 1985.0 | 6 | 2 | 174.4 | 3.1 | 647.4 | 24, 25, 26, 27, 28 |
| 1990.0 | 6 | 1 | 123.0 | 3.1 | 722.2 | 19, 20, 21, 22, 23 |
| 1995.0 | 7 | 2 | 129.3 | 3.2 | 672.1 | 24, 25, 26, 27, 28 |
| 2000.0 | 7 | 1 | 88.5 | 3.2 | 637.4 | 19, 20, 21, 22, 23 |
| 2005.0 | 8 | 2 | 37.0 | 3.1 | 703.8 | 24, 25, 27, 28 |
| 2010.0 | 8 | 1 | -0.4 | 3.1 | 687.5 | 19, 20, 21, 22, 23 |

Field Processing Report Zero-Offset VSP

| Process Flow | Parameter |
|--------------|--|
| | <p>[LoadLdf] Input 1: VSI_007_A_gac_wavefield_x.ldf Input 2: VSI_007_A_gac_wavefield_y.ldf Input 3: VSI_007_A_gac_wavefield_z.ldf</p> <p>[Frequency2] Apply FZ</p> <p>[BPFilte] Phase: Zero Band Width: 5.0 - 160.0Hz</p> <p>[GenVel] Apply internal Normalization/Denormalization Mean Filter 11 Traces</p> <p>[WaveDecon] Waveshape Deconvolution Design Filter trace Input start at TRANSIT_TIME wavelet: 8.0 - 100.0 Hz zero-phase Polarity: Positive</p> <p>[Frequency1] Apply FK</p> <p>[BPFilte1] Phase: Zero Band Width: 8.0 - 110.0Hz</p> <p>[TVG(TAR)] Travel time exponent = 1.20</p> <p>[Frequency3] Apply FK</p> <p>[GenVel1] Median Filter 7 Traces</p> <p>[Corridor] Window Start: TRANSIT_TIME - 0.000 (s) Window End: TRANSIT_TIME - -0.200 (s) (Deepest 10 traces remain) Mean Stack BPF 5.0 - 90.0Hz</p> <p>[Frequency] Apply FK</p> |

[LoadLdf]

FileLoadLdf Parameters

Input 1: VSI_007_A_gac_wavefield_x.ldf
Input 2: VSI_007_A_gac_wavefield_y.ldf
Input 3: VSI_007_A_gac_wavefield_z.ldf

[3CPolarization]

Polarizations Parameters

Compute polarization from TRANSIT_TIME - 0.015 s for 0.015 s using threshold
Apply rotation on traces
2D rotation
save Hmn/Hmx angle in POLARIZATION_1 and rectilinearity in USER_KEY_1
save Try/Nry angle in POLARIZATION_2 and rectilinearity in USER_KEY_2
Reference to Z

[TraceRange]

Trace Range Set Manual Parameters

Trace Range Set Parameters
Remove Bad Trace

[Shft]

Shift Parameters

Shift: + TRANSIT_TIME_ACCURACY - 0 s
Update selected headers

[Frequency2]

Spectral Analyser Parameters

Process from TRANSIT_TIME - 0.020 s
Gate Length = 3.000 s = (samples) 1501
= (F Max = 200 Hz
= (Apply F Max)
Trace range from 1 to 178
Depth/Offset header = RECEIVER_POSITION_Z
Output is Frequency Domain
Compute Amplitude spectrum in dB

[BPFfilter]

BPF Parameters

Butterworth Filter, Zero Phase
Characteristic: 5.000 Hz to 160.000 Hz Order 3

[GenVelfil]

Mean/Median Generalized Velocity Filter Parameters

Align events using times of TRANSIT_TIME x 1.000
Compute both enhanced and residual output
Apply internal Normalization/Denormalization based on RMS of time window
From TRANSIT_TIME - 0.020 s
Window length = 0.100 s

Mean Stacking

Stacking window (traces): 11
Stacking window (samples): 1

Source and receiver coordinates Parameters

Source Offset: SOURCE_LINE_POSITION_RHO
Source Depth: SOURCE_LINE_POSITION_Z
Receiver Offset: RECEIVER_LINE_POSITION_RHO
Receiver Depth: RECEIVER_LINE_POSITION_Z

[WaveDecon]

Waveshaping deconvolution Parameters

Design Filter trace by trace
Filter input start at TRANSIT_TIME - 0.080 s
Filter input window: 0.800 s
Filter Length is filter input window
Desired wavelet created by filtered unit impulse from 8.000 Hz to 100.000
Positive wavelet polarity
Wavelet delay time = Filter Length / 2
White noise (%): 5.000
Waveshaping optimization Parameters

[Frequency1]

Spectral Analyser Parameters

Process from TRANSIT_TIME - 0.020 s
Gate Length = 3.000 s = (samples) 1501
= (F Max = 200 Hz
= (Apply F Max)
Trace range from 1 to 178
Depth/Offset header = RECEIVER_POSITION_Z
Output is FK Domain
Compute Amplitude spectrum in dB

[BPFfilter1]

BPF Parameters

Butterworth Filter, Zero Phase
Characteristic: 8.000 Hz to 110.000 Hz Order 3

[TVG(TAR)]

Time-Varying Gain Parameters

Window start at TRANSIT_TIME - 0.000000
Window length = 3.000000
Travel time exponent = 1.200000
Exponential Weighting = 0.000000

[Frequency3]

Spectral Analyser Parameters

Process from TRANSIT_TIME - 0.020 s
Gate Length = 3.000 s = (samples) 1501
= (F Max = 200 Hz
= (Apply F Max)
Trace range from 1 to 178
Depth/Offset header = RECEIVER_POSITION_Z
Output is FK Domain
Compute Amplitude spectrum in dB

[GenVelfill1]

Mean/Median Generalized Velocity Filter Parameters

Align events using times of TRANSIT_TIME x -1.000
Compute both enhanced and residual output
Median Stacking
Stacking window (traces): 7
Stacking window (samples): 1
Source and receiver coordinates Parameters
Source Offset: SOURCE_LINE_POSITION_RHO
Source Depth: SOURCE_LINE_POSITION_Z
Receiver Offset: RECEIVER_LINE_POSITION_RHO
Receiver Depth: RECEIVER_LINE_POSITION_Z

[Corridor]


Corridor stack Parameters

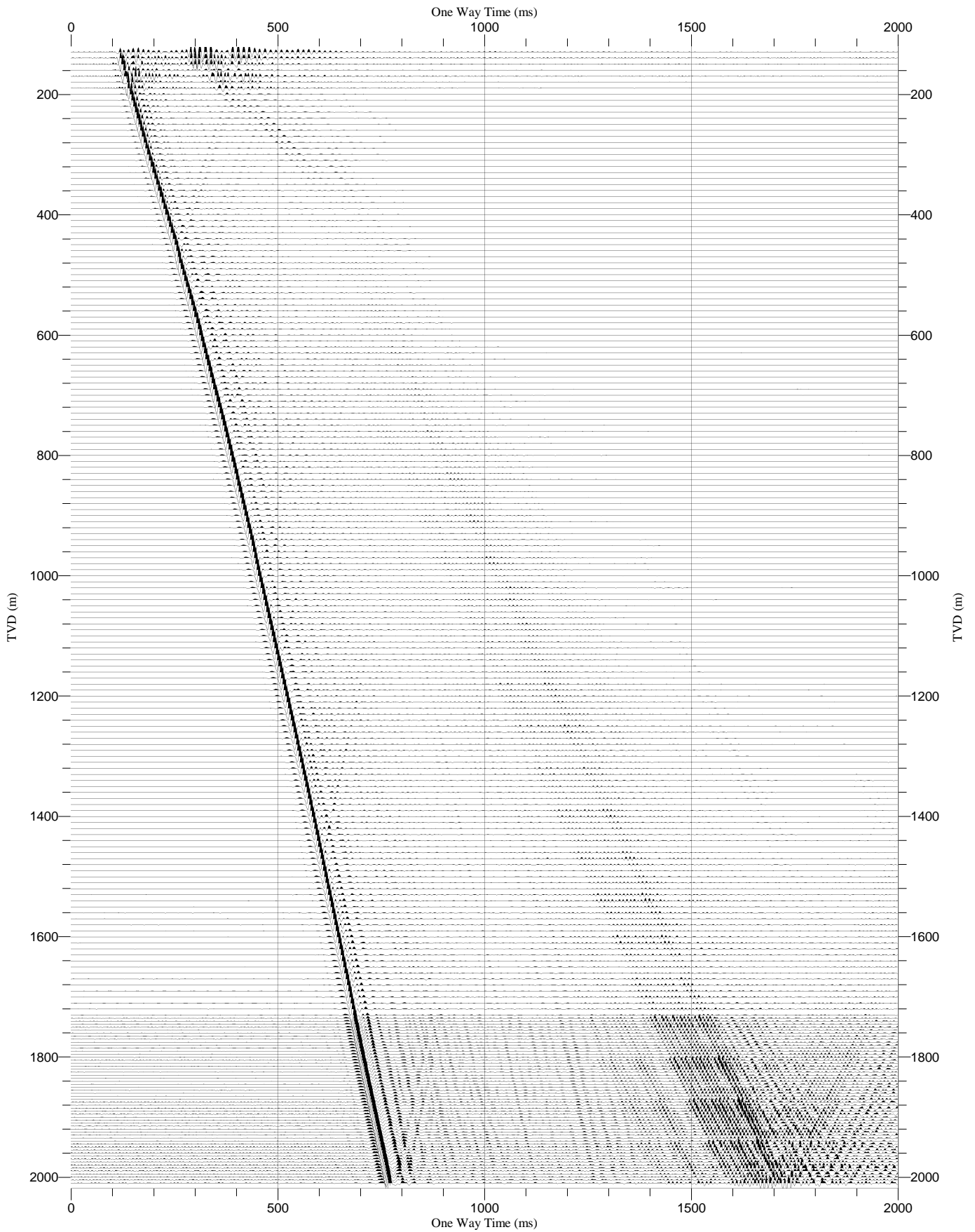
Mute before TRANSIT_TIME - 0 s
Mute after TRANSIT_TIME - -0.200 s
All traces except the deepest (traces): 10
Depth header: RECEIVER_POSITION_Z
Mean stack
Apply +TT with TRANSIT_TIME
Replicate corridor stack x 10
Apply BPF on resulting corridor stack
BPF Parameters
Butterworth Filter, Zero Phase
Characteristic: 5.000 Hz to 90.000 Hz Order 3

[Frequency]

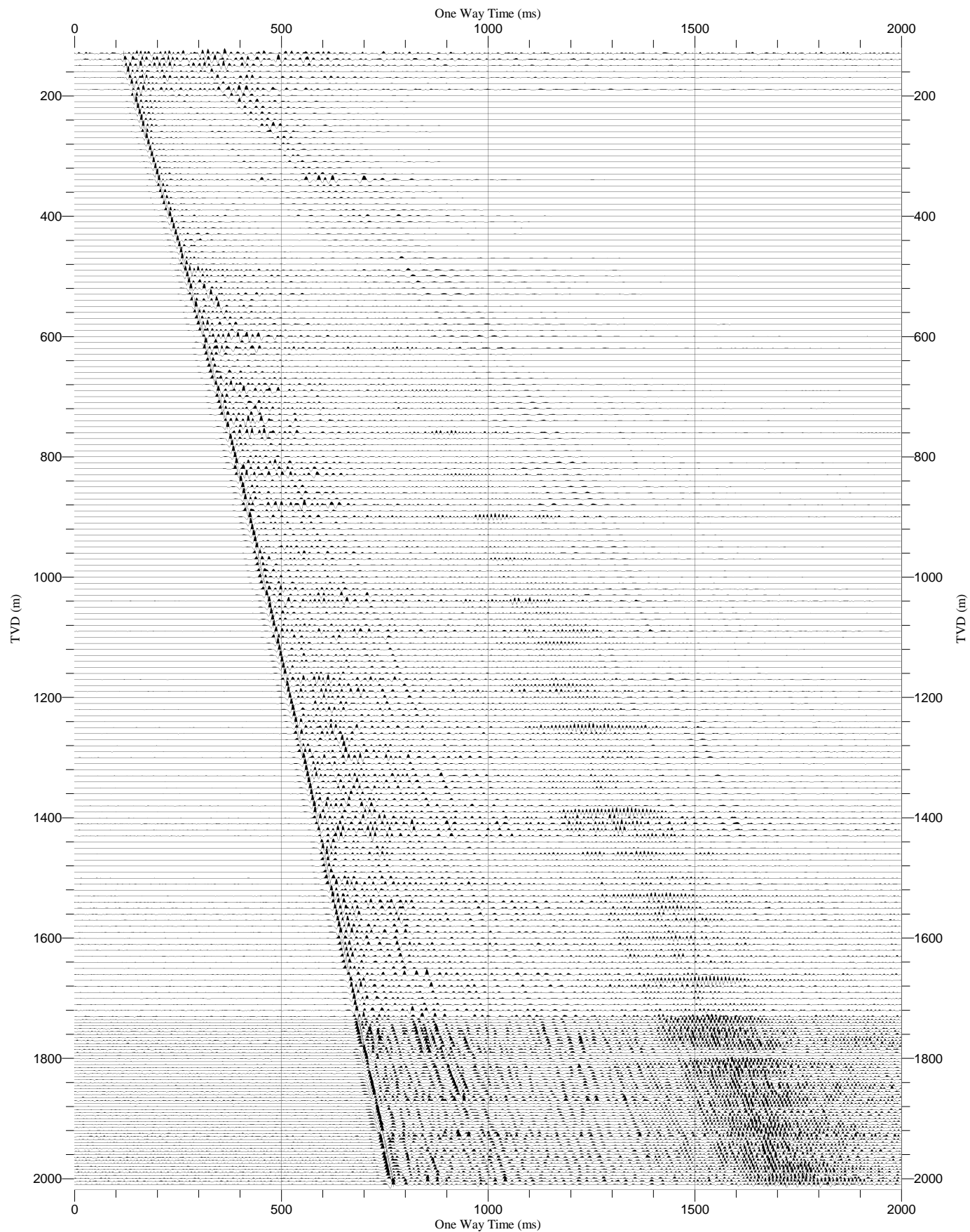
Spectral Analyser Parameters


Process from TRANSIT_TIME - 0 s
Gate Length = 3.000 s = (samples) 1501
= (F Max = 200 Hz
= (Apply F Max)
Trace range from 1 to 178
Depth/Offset header = RECEIVER_POSITION_Z
Output is FK Domain
Compute Amplitude spectrum in dB

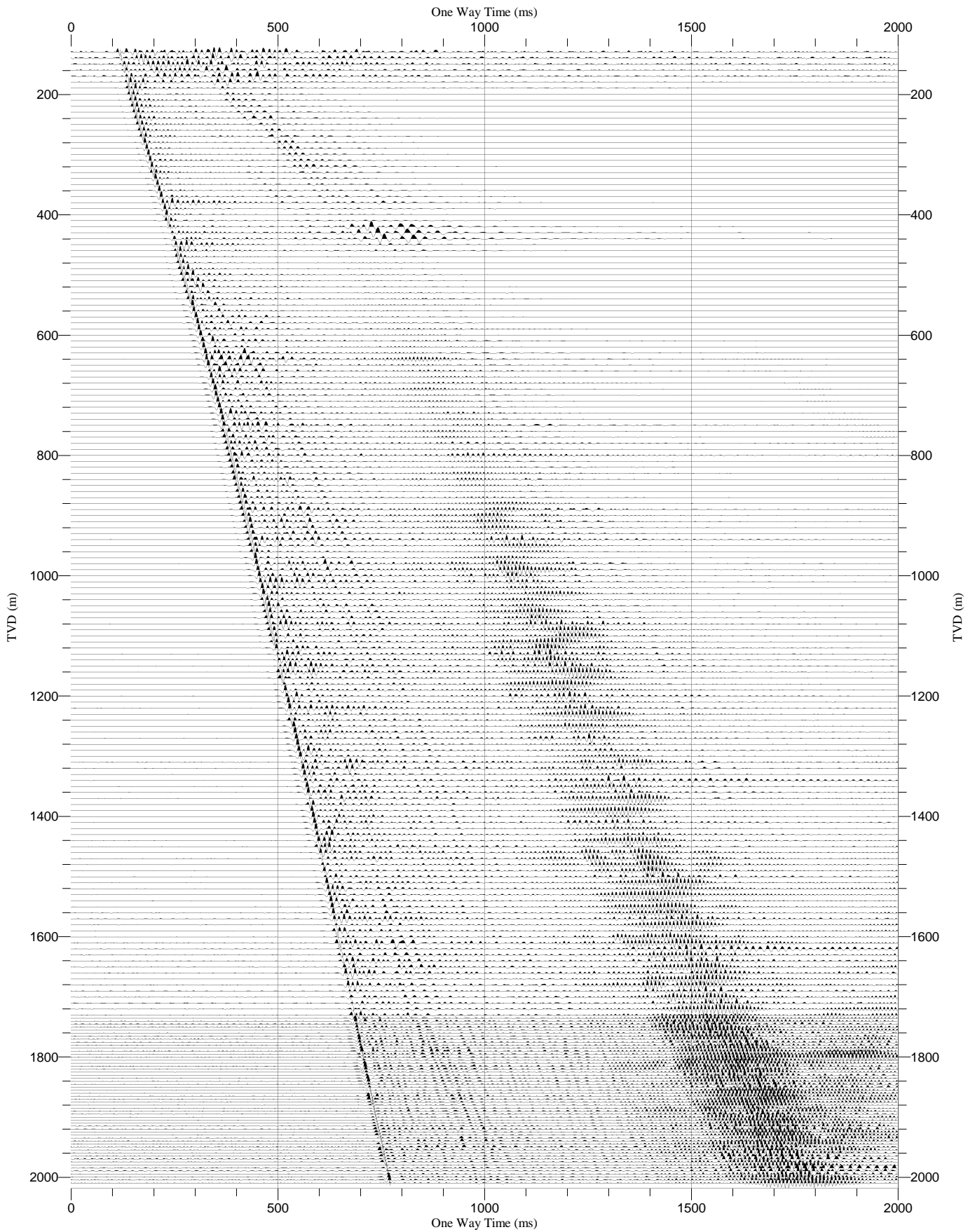
| | | |
|---------------|---|---|
| Raw Stack (Z) | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 7.8 cm/sec, 1/8810 |  |
|---------------|---|---|




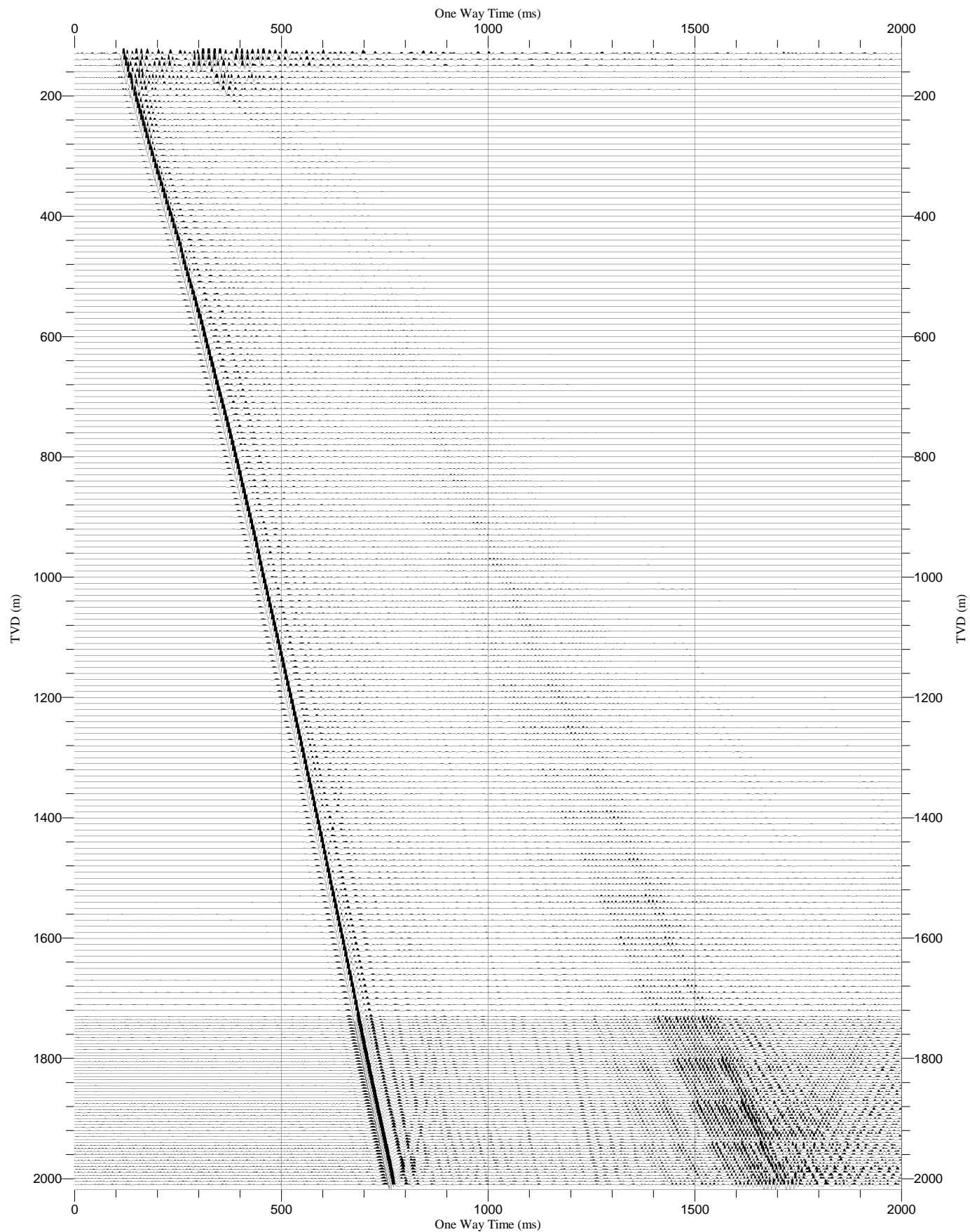
Raw Stack (X) Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 7.8 cm/sec, 1/8810




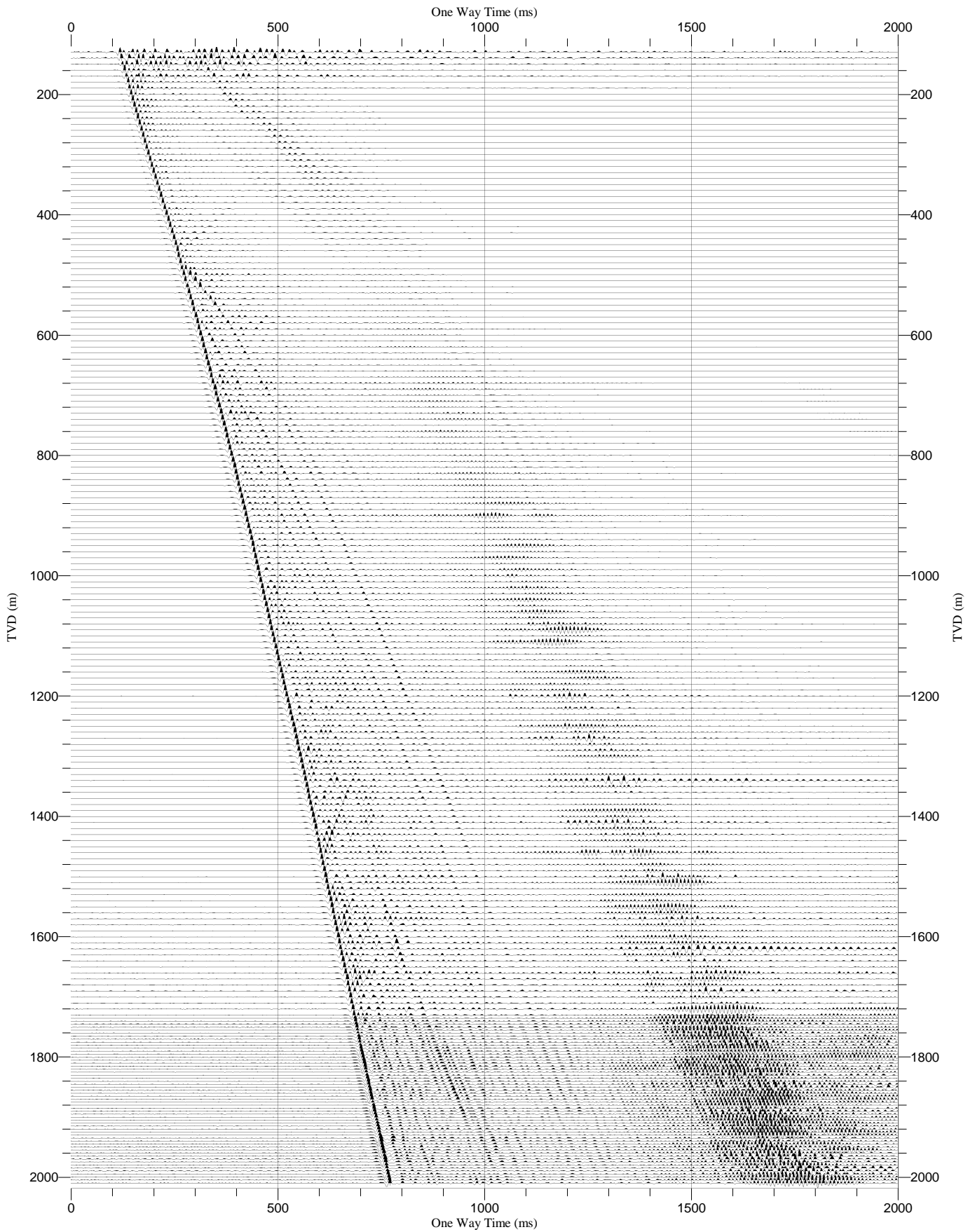
| | | |
|---------------|---|---|
| Raw Stack (Y) | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 7.8 cm/sec, 1/8810 |  |
|---------------|---|---|

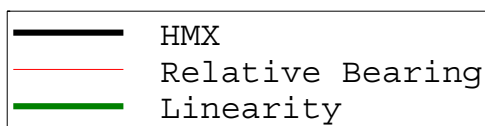
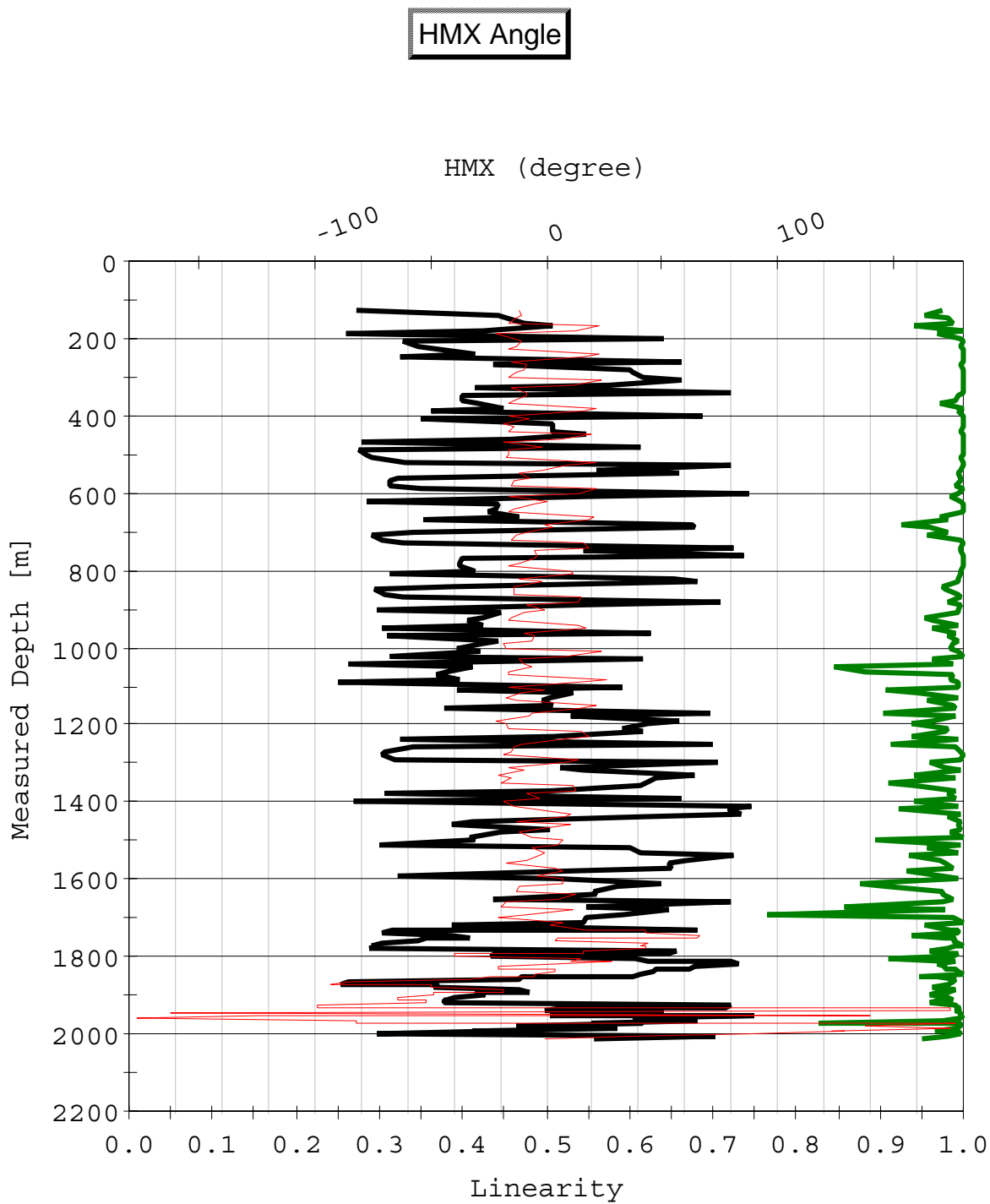


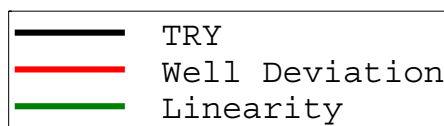
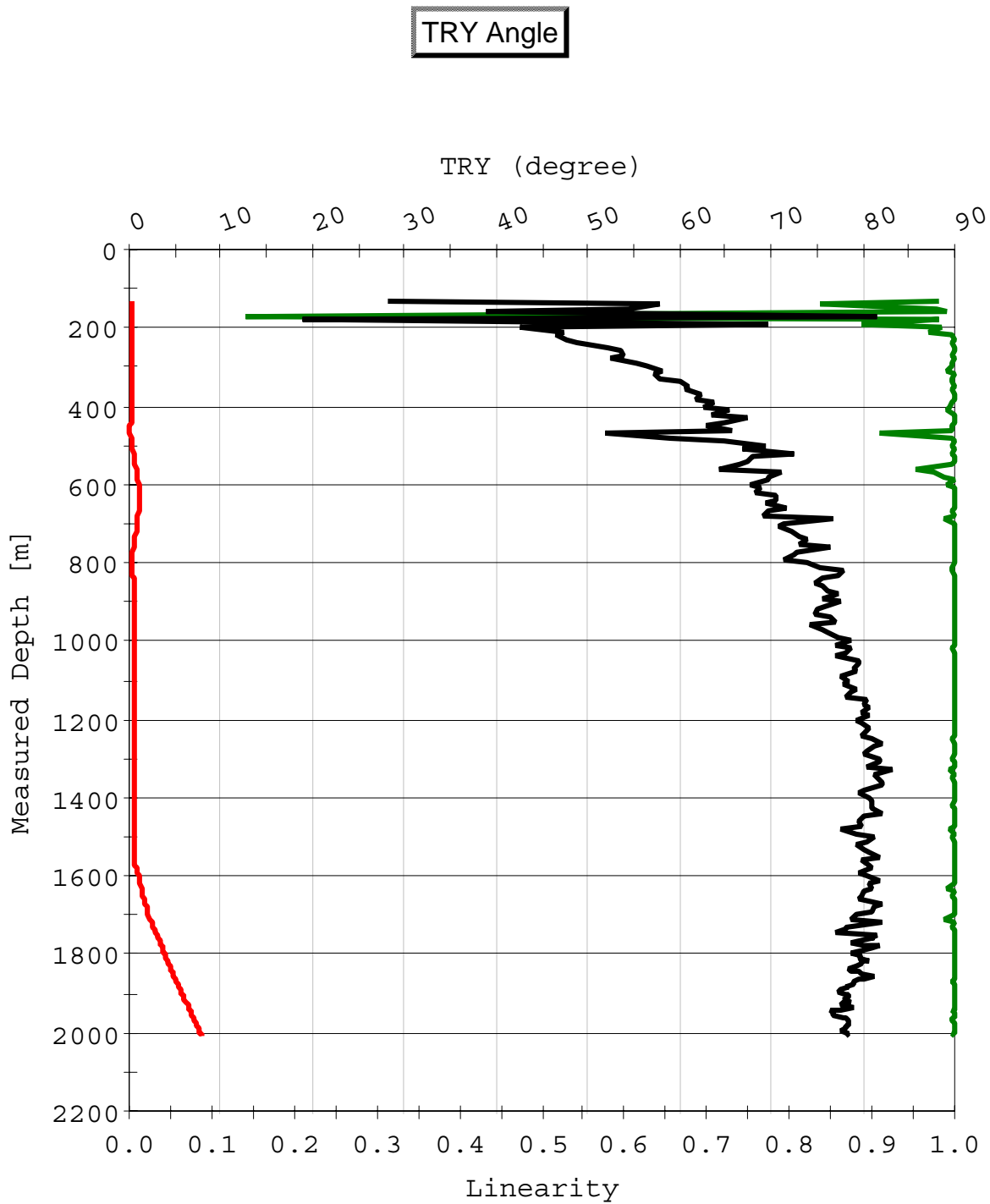
| | | |
|-----------------|---|---|
| Raw Stack (TRY) | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 7.8 cm/sec, 1/8810 |  |
|-----------------|---|---|




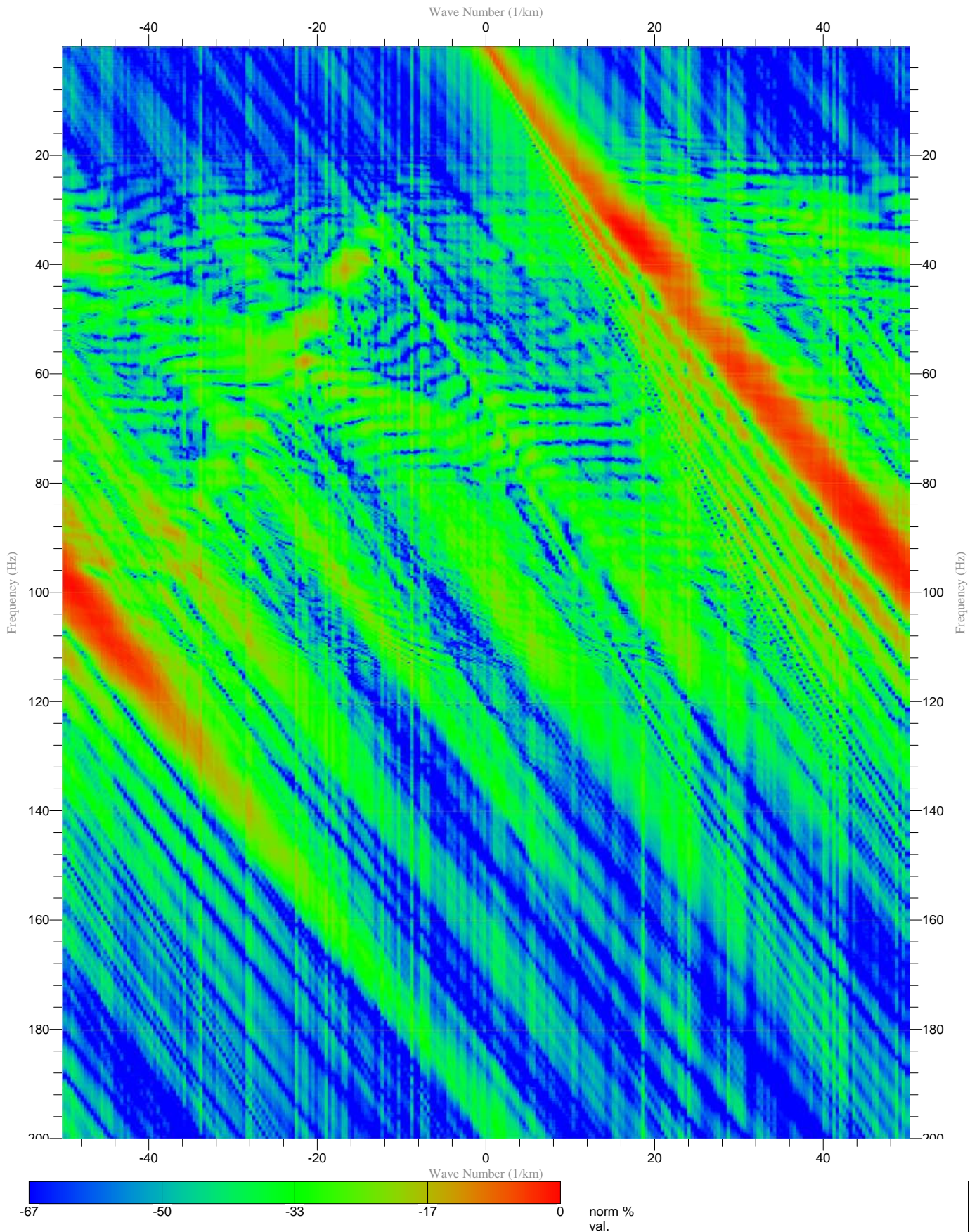
| | | |
|-----------------|---|---|
| Raw Stack (HMX) | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 7.8 cm/sec, 1/8810 |  |
|-----------------|---|---|




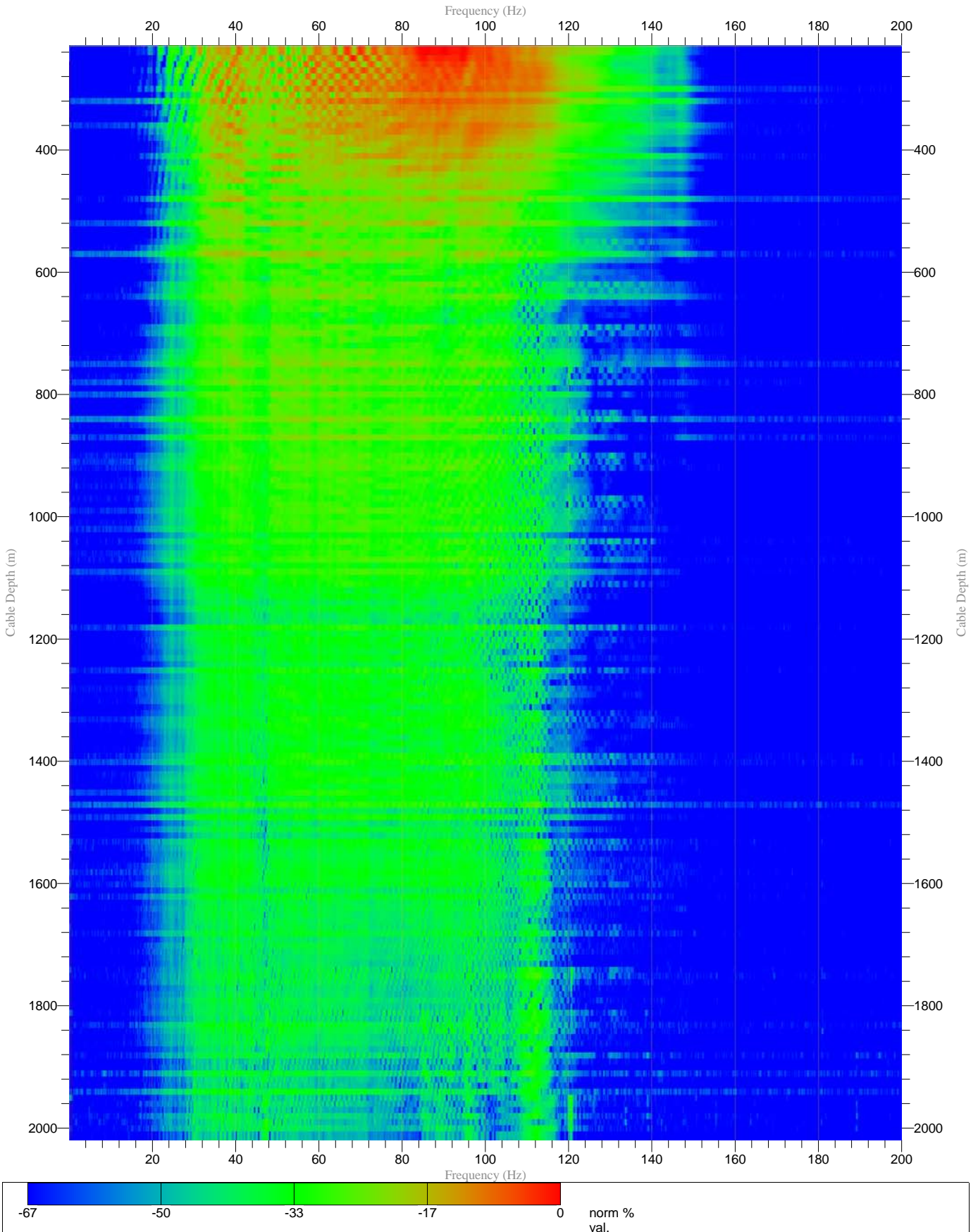




| | | |
|----------------------------------|---|---|
| VSP Raw Stack (Z) FK Apply FK | Normalization Trace by Trace (100%) Polarity Normal Frequency (Hz) Scaling 0.11 cm/Hz, 6.30(1/km)/cm |  |
|----------------------------------|---|---|

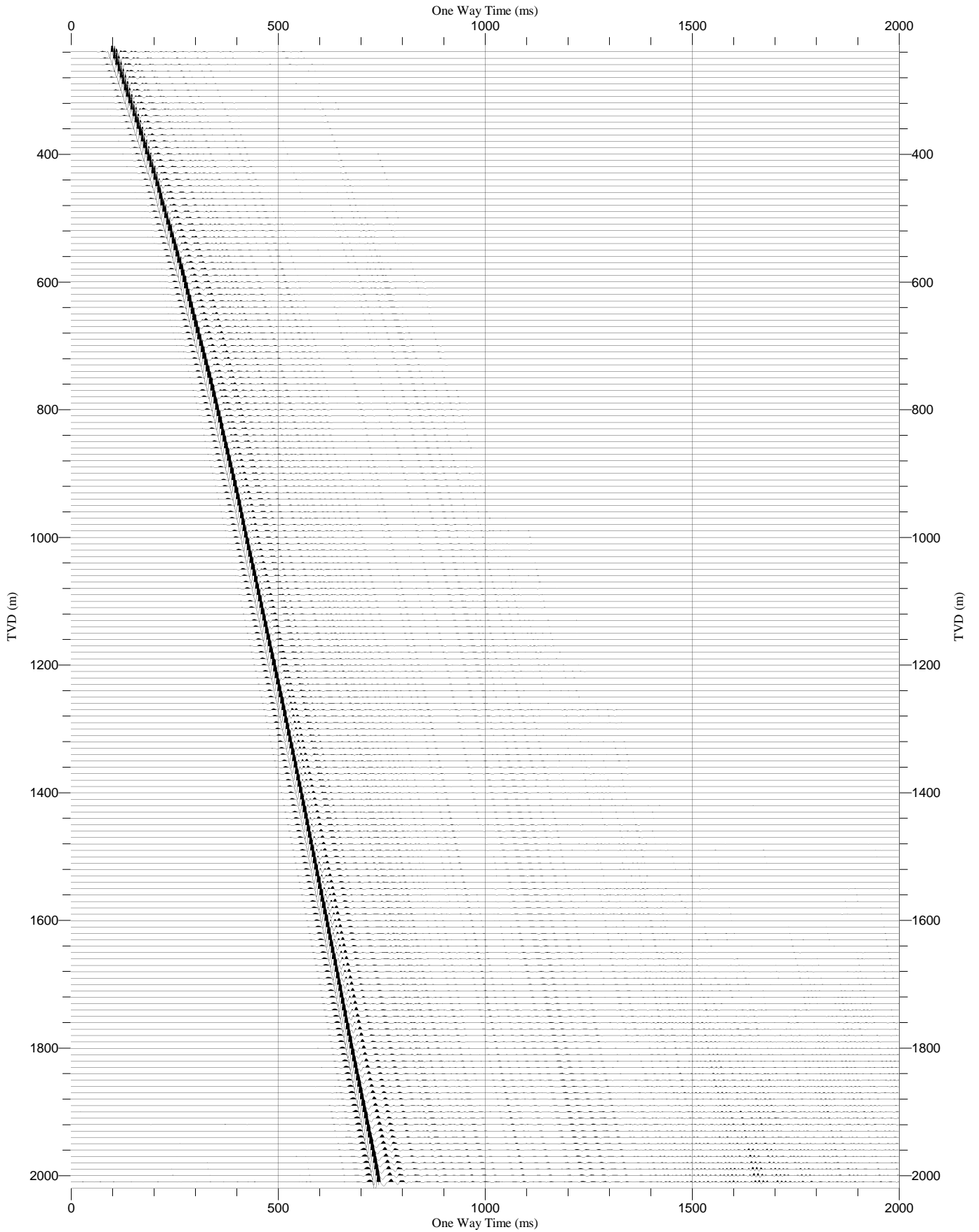


| | | |
|----------------------------------|---|---|
| VSP Raw Stack (Z) FZ Apply FZ | Normalization Trace by Trace (100%) Polarity Normal Frequency (Hz) Scaling 0.1 cm/Hz, 1/8340 |  |
|----------------------------------|---|---|



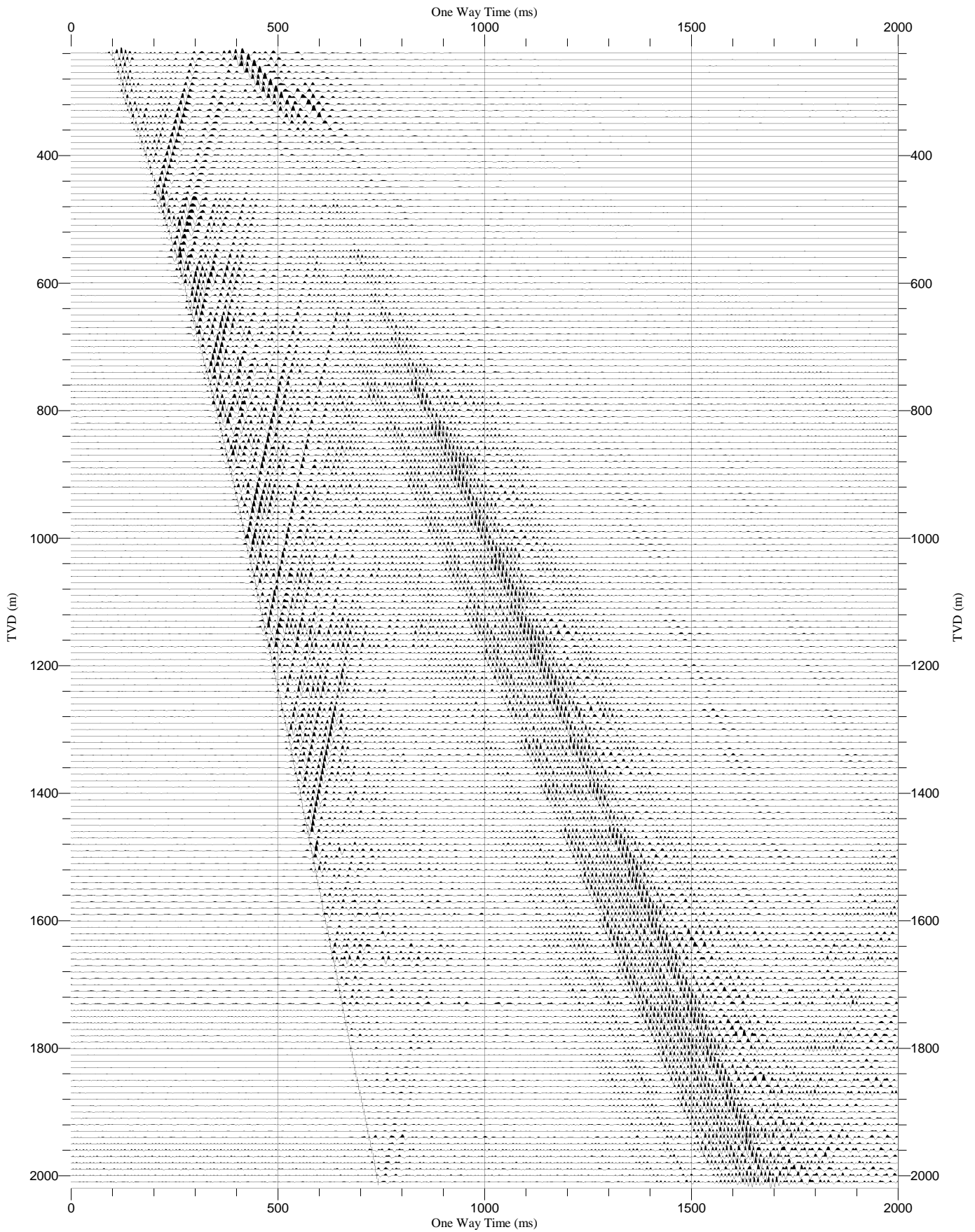
VSP Downgoing
BPF 5.0 - 160.0Hz
Mean Filter 11 Traces


Normalization Trace by Trace (200%)
Polarity Normal
One Way Time (ms)
Scaling 7.8 cm/sec, 1/8310

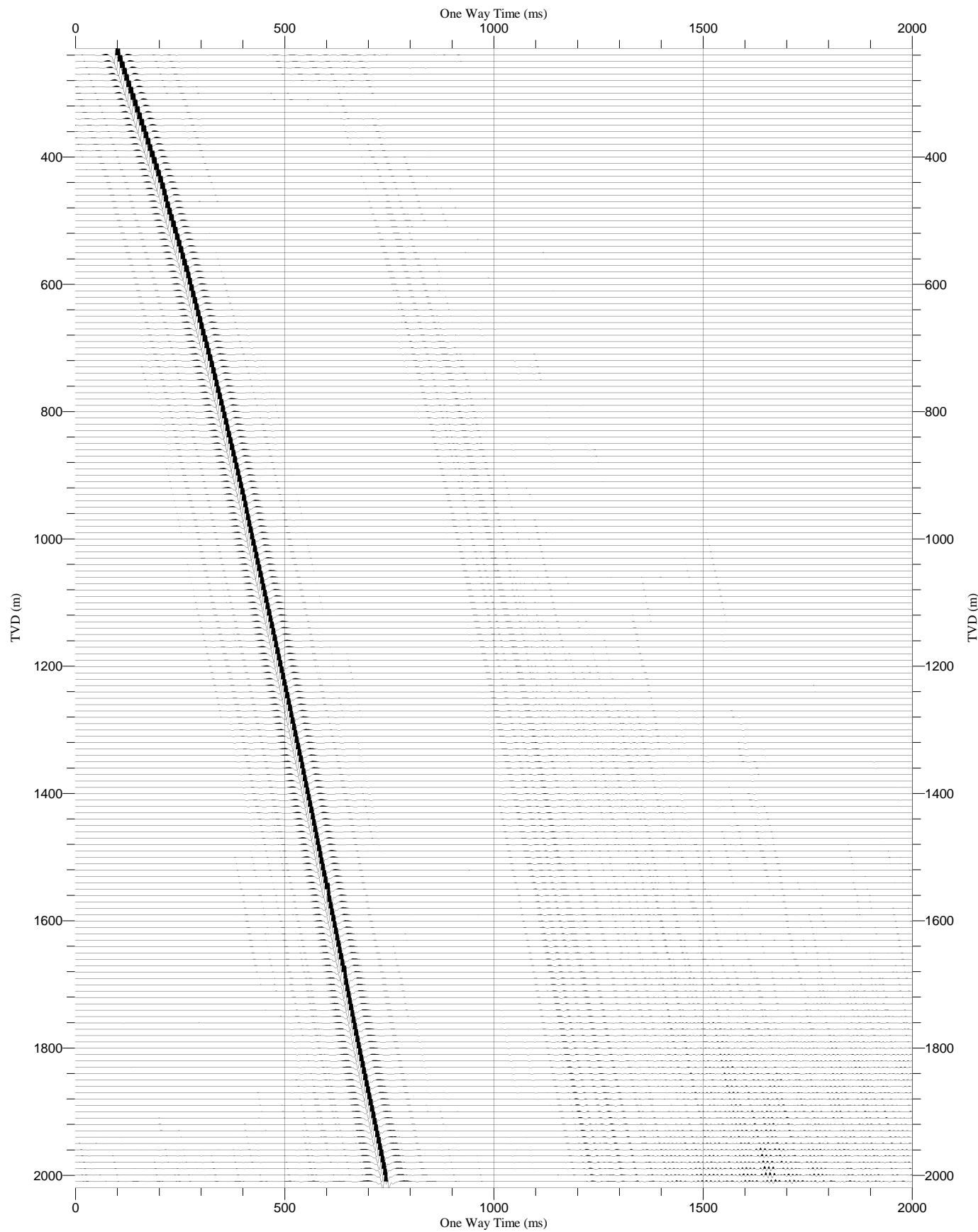


VSP Upgoing
BPF 5.0 - 160.0Hz
Mean Filter 11 Traces

Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 7.8 cm/sec, 1/8310

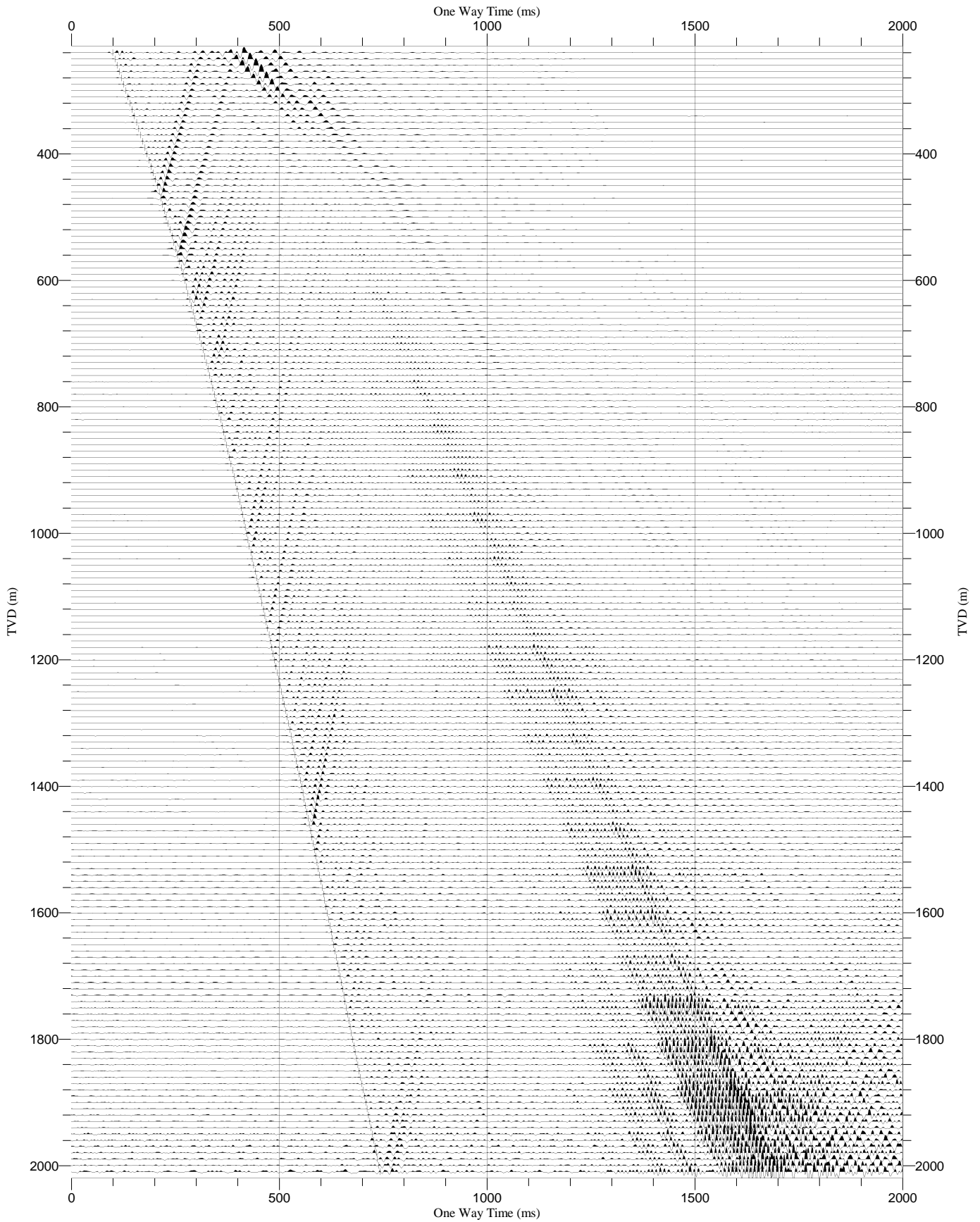



| | | |
|---|--|---|
| VSP Waveshape decon downgoing BPF 5.0 - 160.0Hz Mean Filter 11 Traces Waveshape Decon.(wavelet: 8.0 - 100.0 Hz zero-phase) | Normalization Largest Trace in Gather (300%) Polarity Normal One Way Time (ms) Scaling 7.8 cm/sec, 1/8420 |  |
|---|--|---|

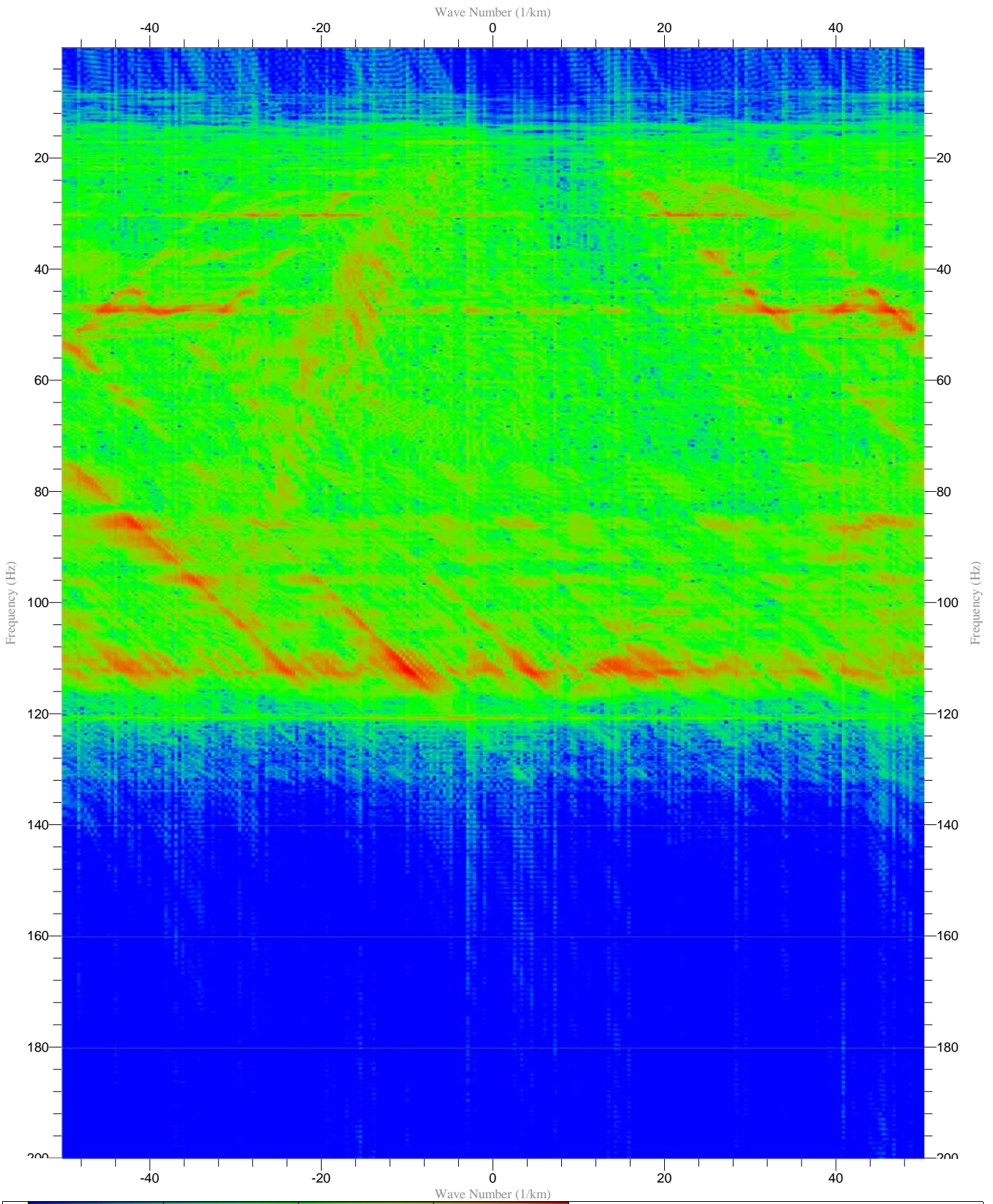



VSP Waveshape decon upgoing
BPF 5.0 - 160.0Hz
Mean Filter 11 Traces
Waveshape Decon.(wavelet: 8.0 - 100.0 Hz zero-phase)

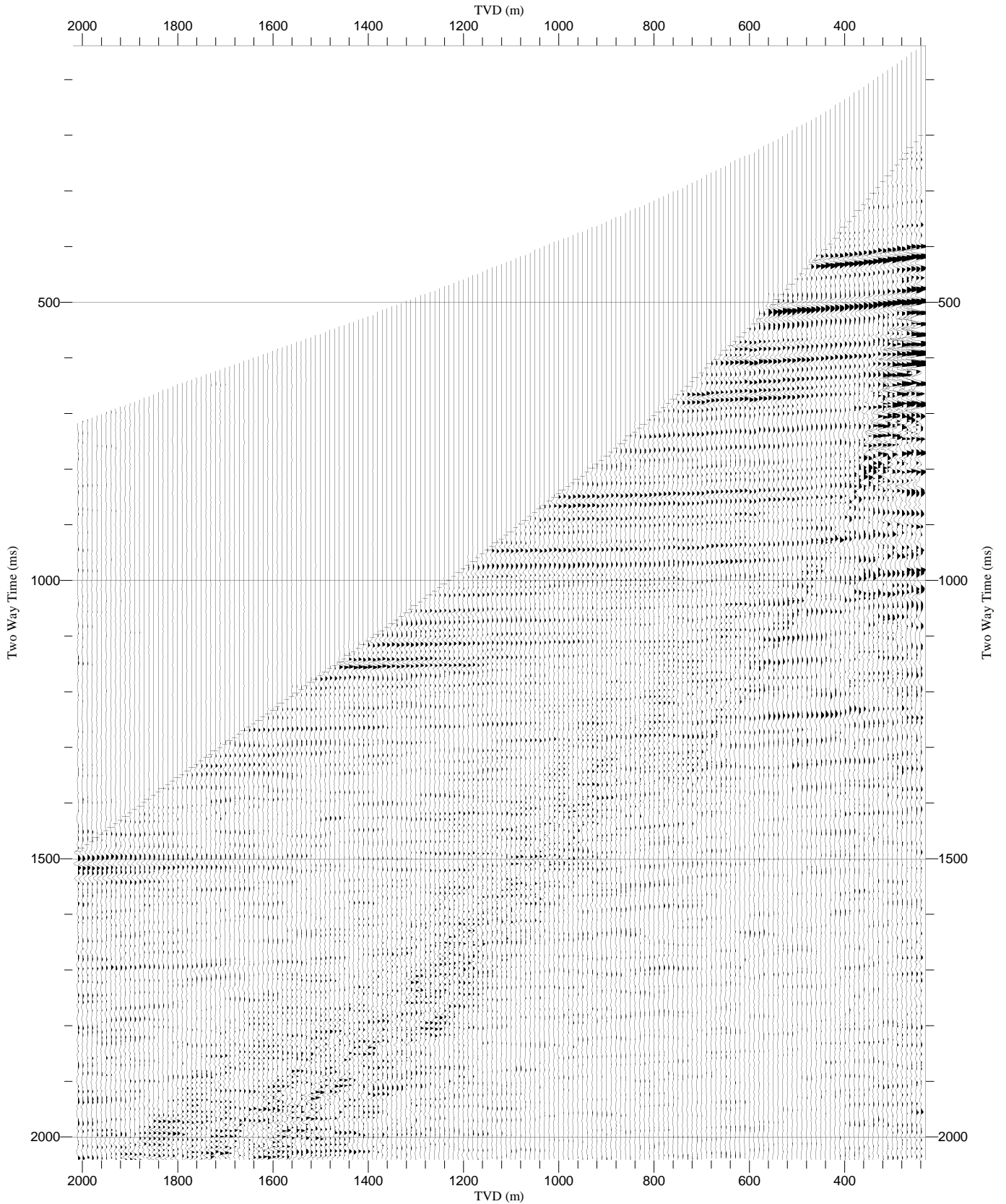
Normalization Largest Trace in Gather (300%)
Polarity Normal
One Way Time (ms)
Scaling 7.8 cm/sec, 1/8420




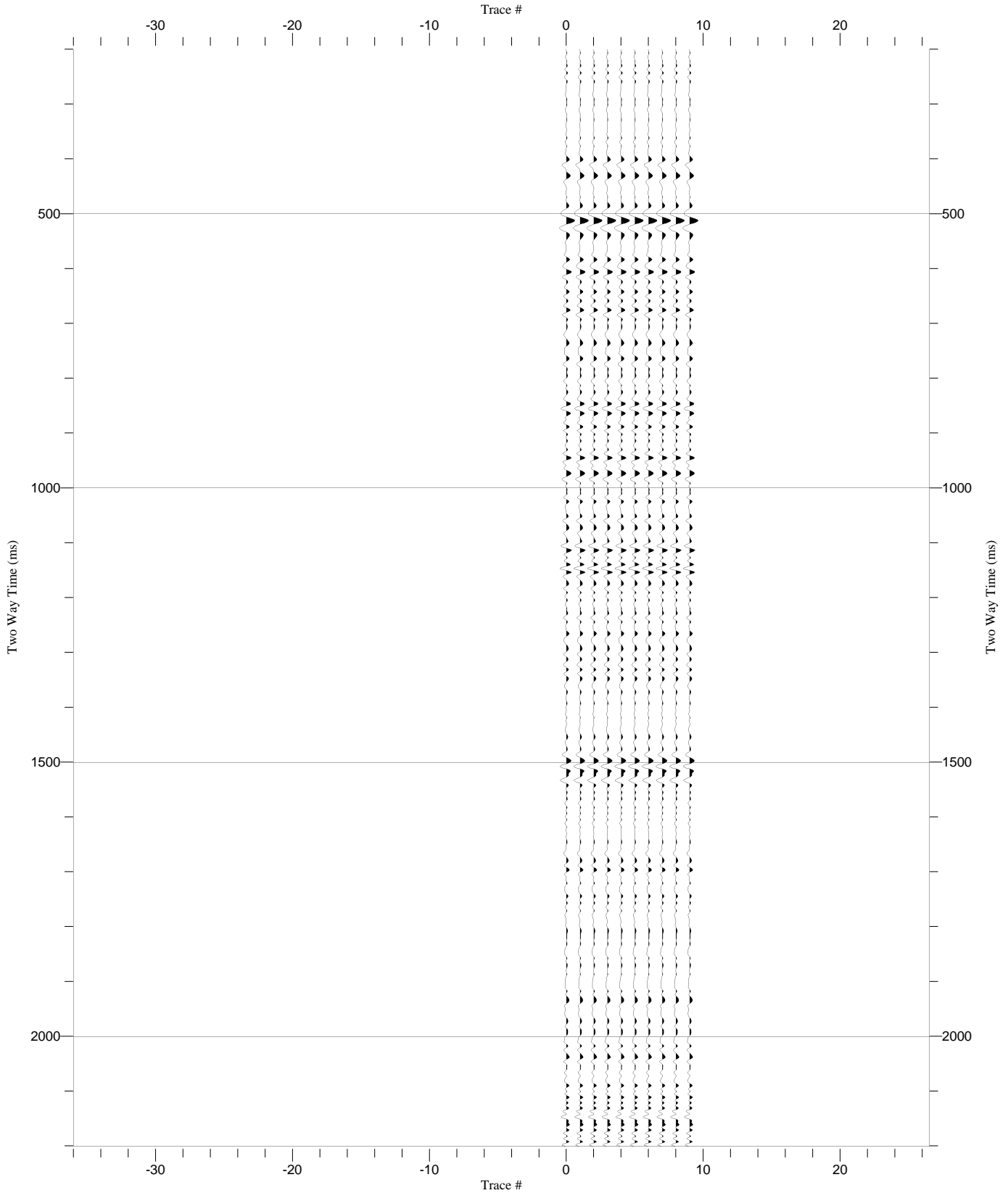
| | | |
|--|---|---|
| VSP Waveshape decon upgoing FK Apply FK | Normalization Trace by Trace (100%) Polarity Normal Frequency (Hz) Scaling 0.11 cm/Hz, 6.30(1/km)/cm |  |
|--|---|---|




| | | |
|--|--|---|
| VSP Corridor Stack (Input) BPF 5.0 - 160.0Hz Mean Filter 11 Traces Waveshape Decon.(wavelet: 8.0 - 100.0 Hz zero-phase) BPF 8.0 - 110.0Hz Travel time exponent = 1.20 Median Filter 7 Traces | Normalization Largest Trace in Gather (500%) Polarity Normal Two Way Time (ms) Scaling 10.2 cm/sec, 1/11460 |  |
|--|--|---|

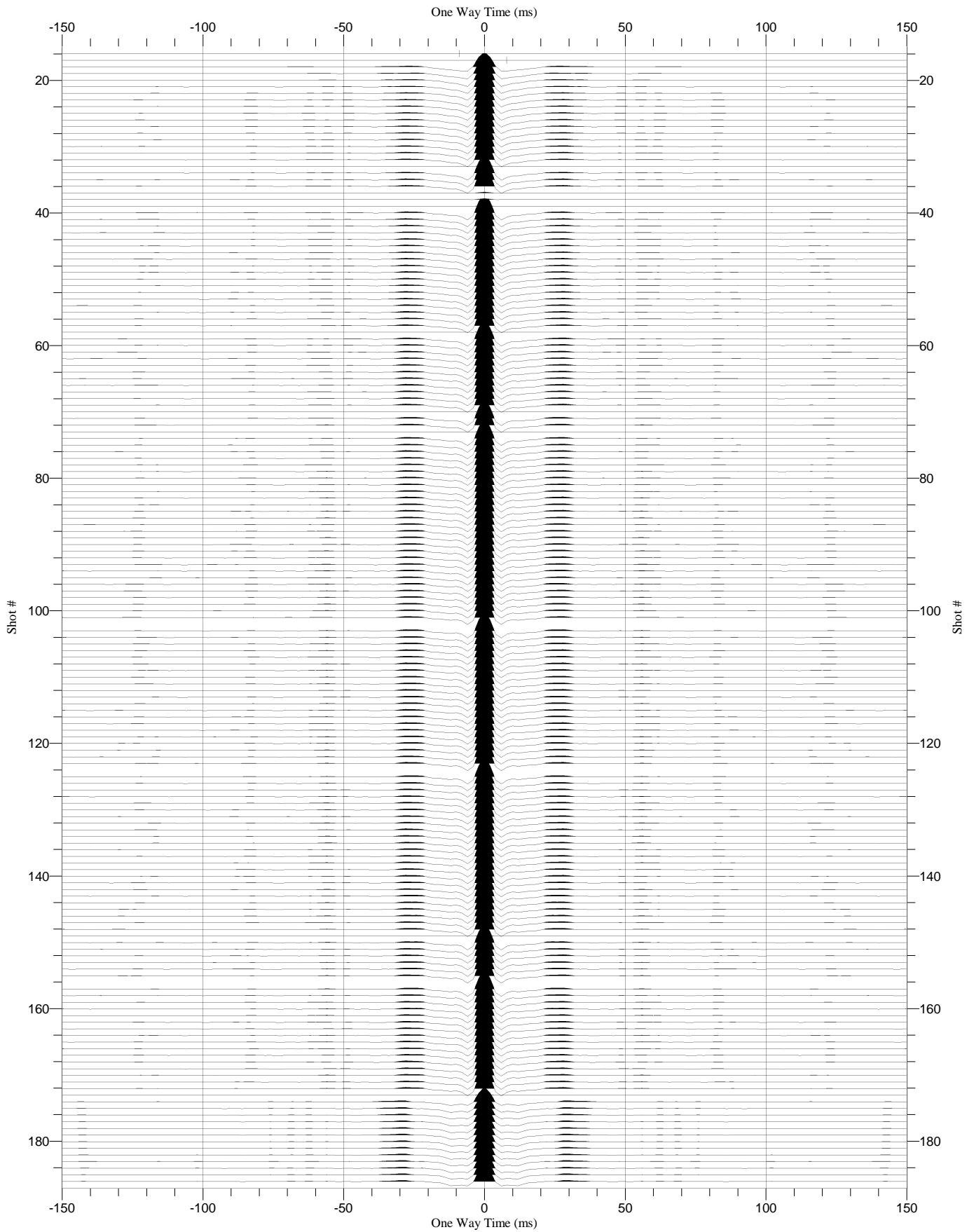


| | | |
|--|--|---|
| VSP Corridor Stack (output) BPF 5.0 - 160.0Hz Mean Filter 11 Traces Waveshape Decon.(wavelet: 8.0 - 100.0 Hz zero-phase) BPF 8.0 - 110.0Hz Travel time exponent = 1.20 Median Filter 7 Traces Corridor Stack (Mean): BPF 5.0 - 90.0Hz | Normalization Trace by Trace (100%) Polarity Normal Two Way Time (ms) Scaling 10.00 cm/sec, 4.00/cm |  |
|--|--|---|

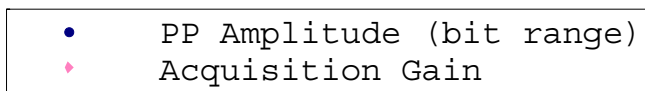
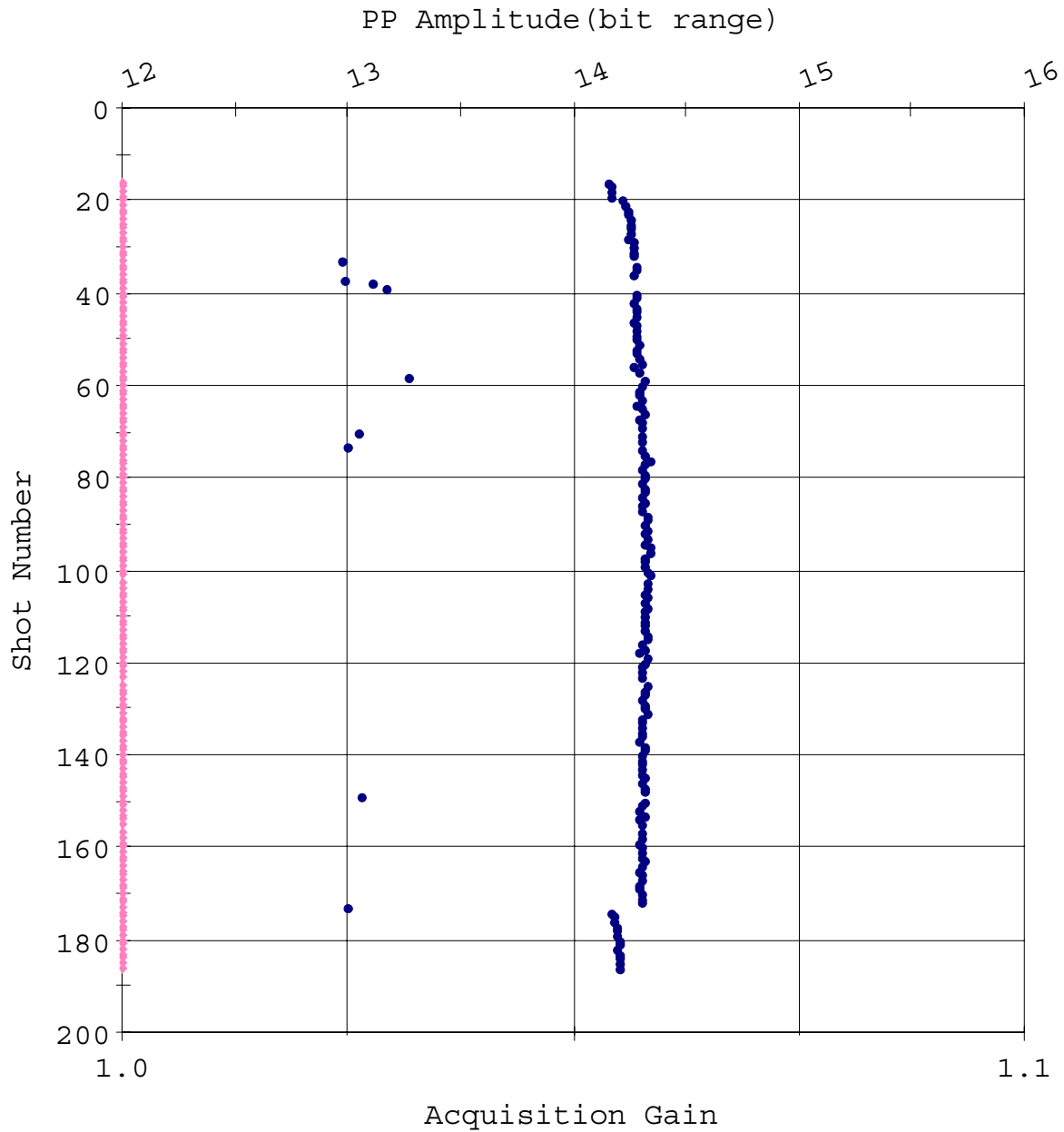


Source Signature QC Report Zero-Offset VSP

| | | |
|-------------------------|---|---|
| Source Sensor Signature | Normalization Largest Trace in Gather (300%) Polarity Normal One Way Time (ms) Scaling 53.14 cm/sec, 7.99/cm |  |
|-------------------------|---|---|

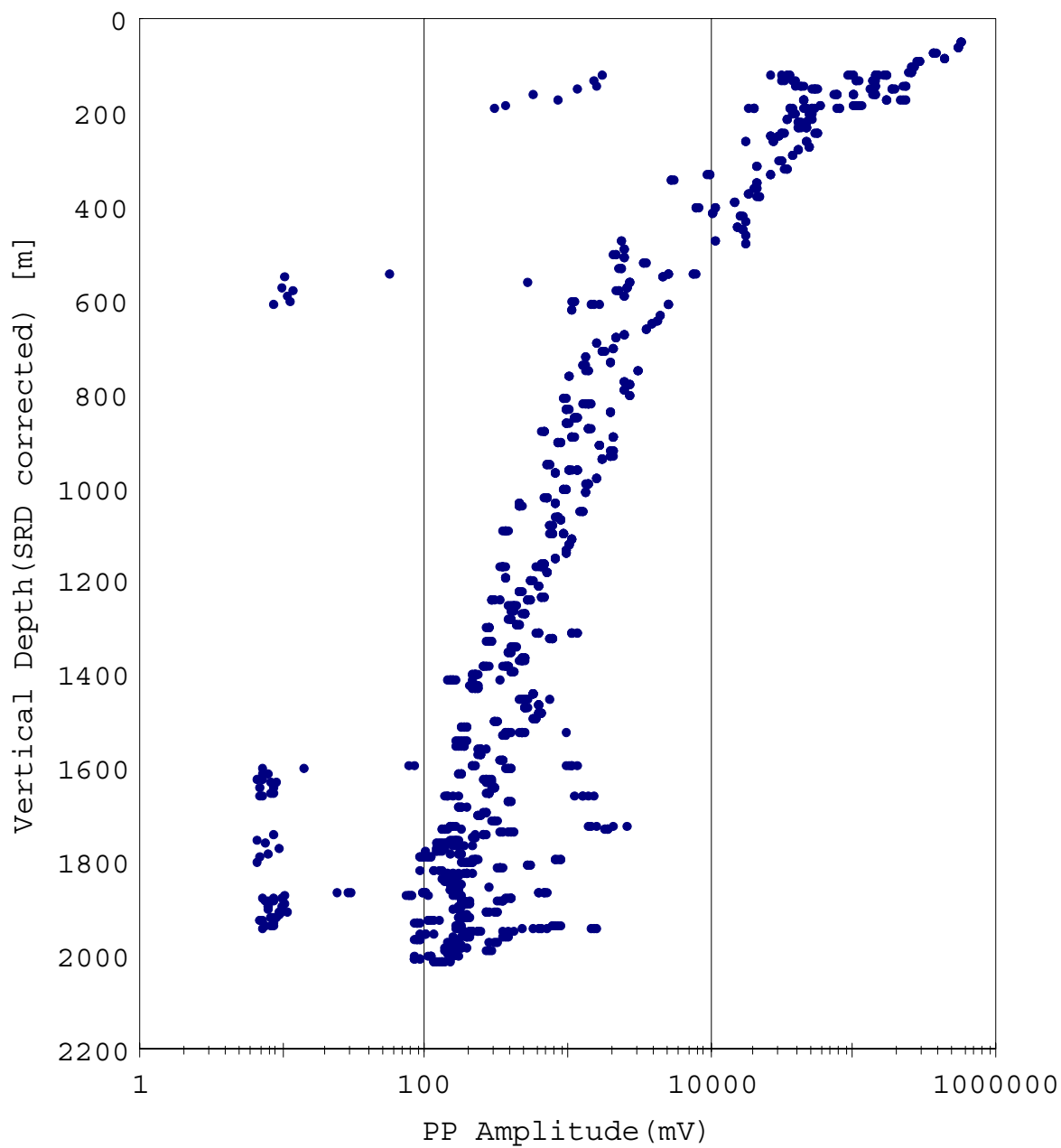


Amplitude QC Plot (Surface)



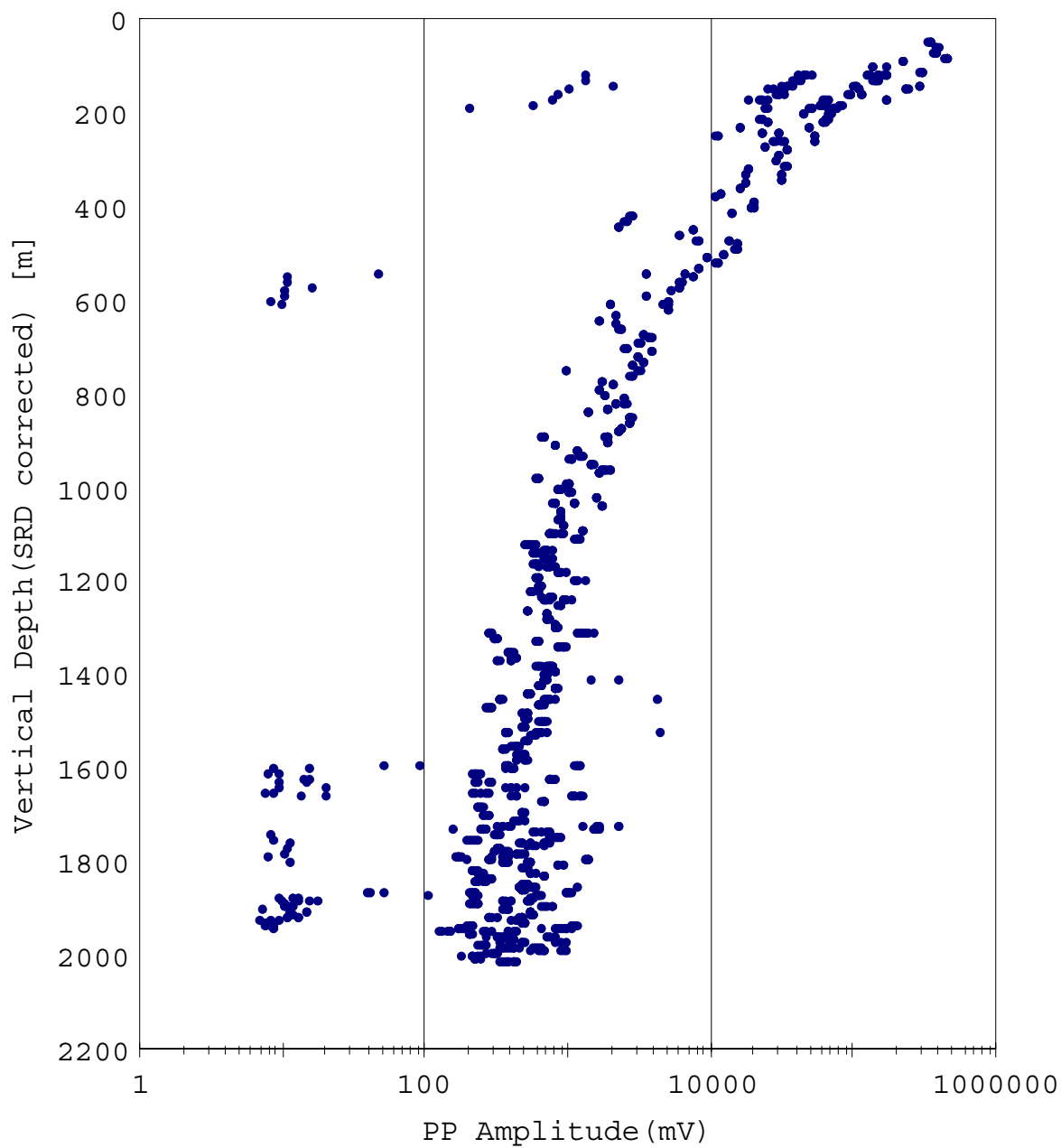
Amplitude QC Report Zero-Offset VSP

Peak To Peak Plot (X)



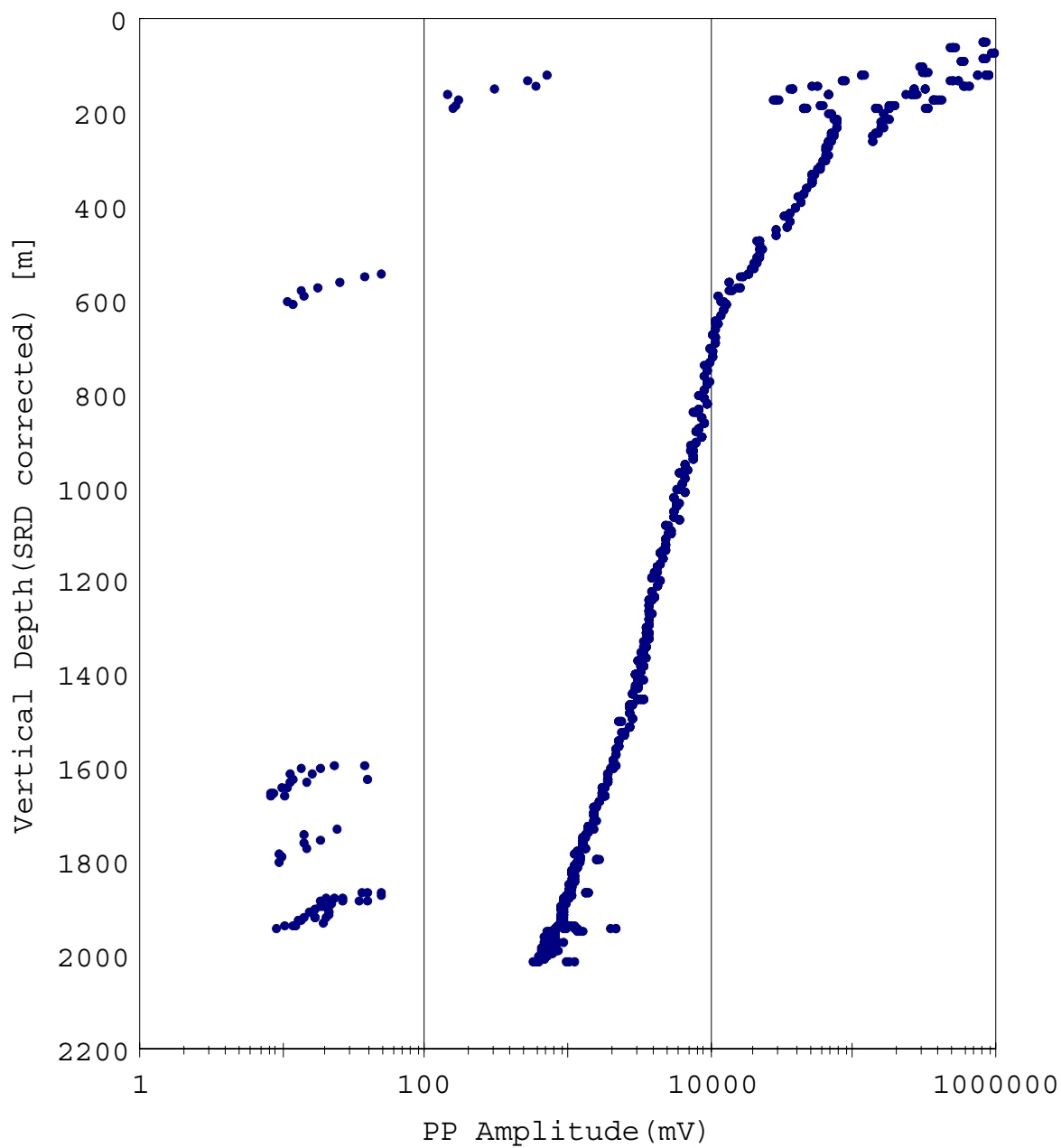
• PP Amplitude (mV)

Peak To Peak Plot (Y)



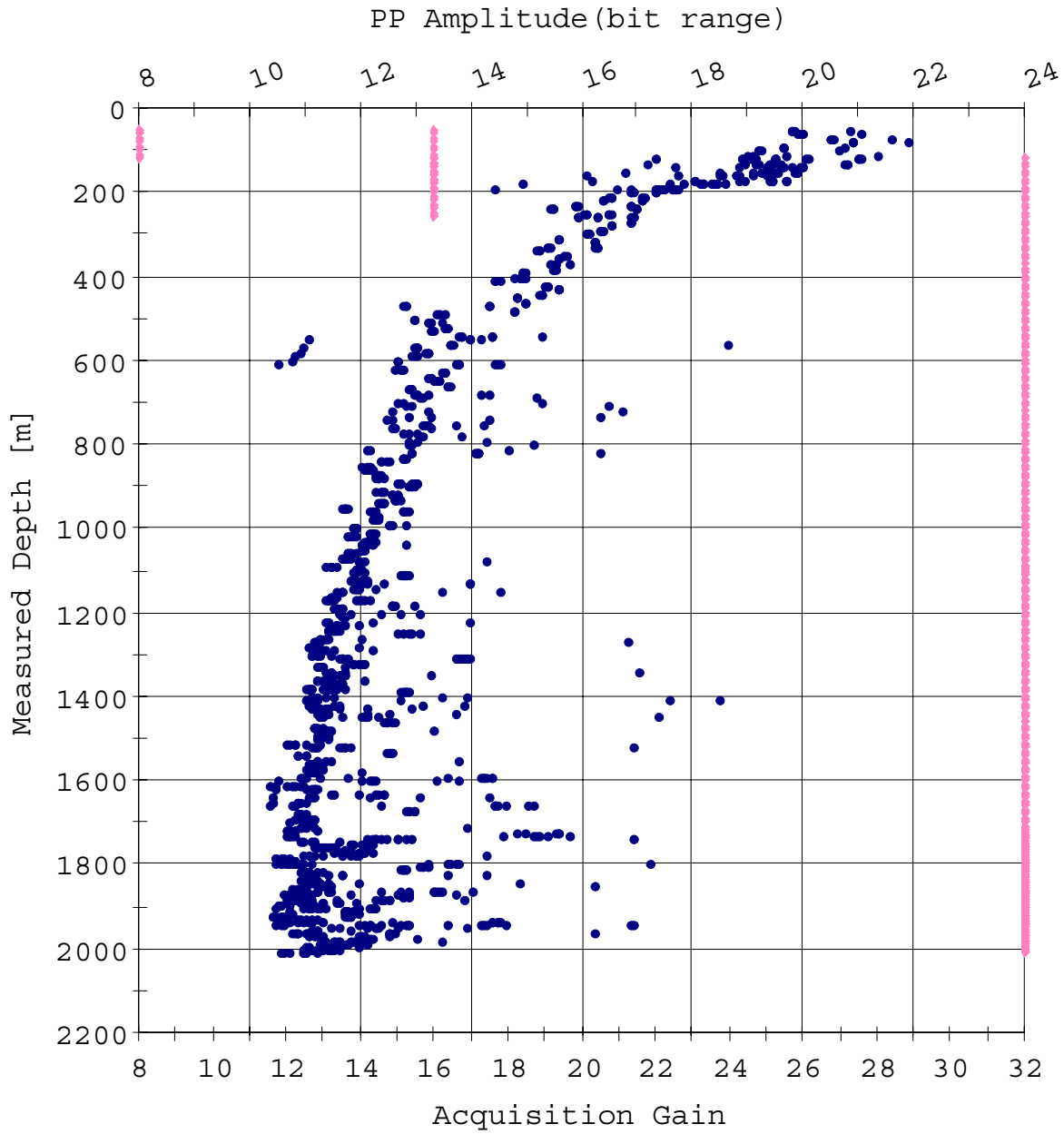
• PP Amplitude (mV)

Peak To Peak Plot (Z)



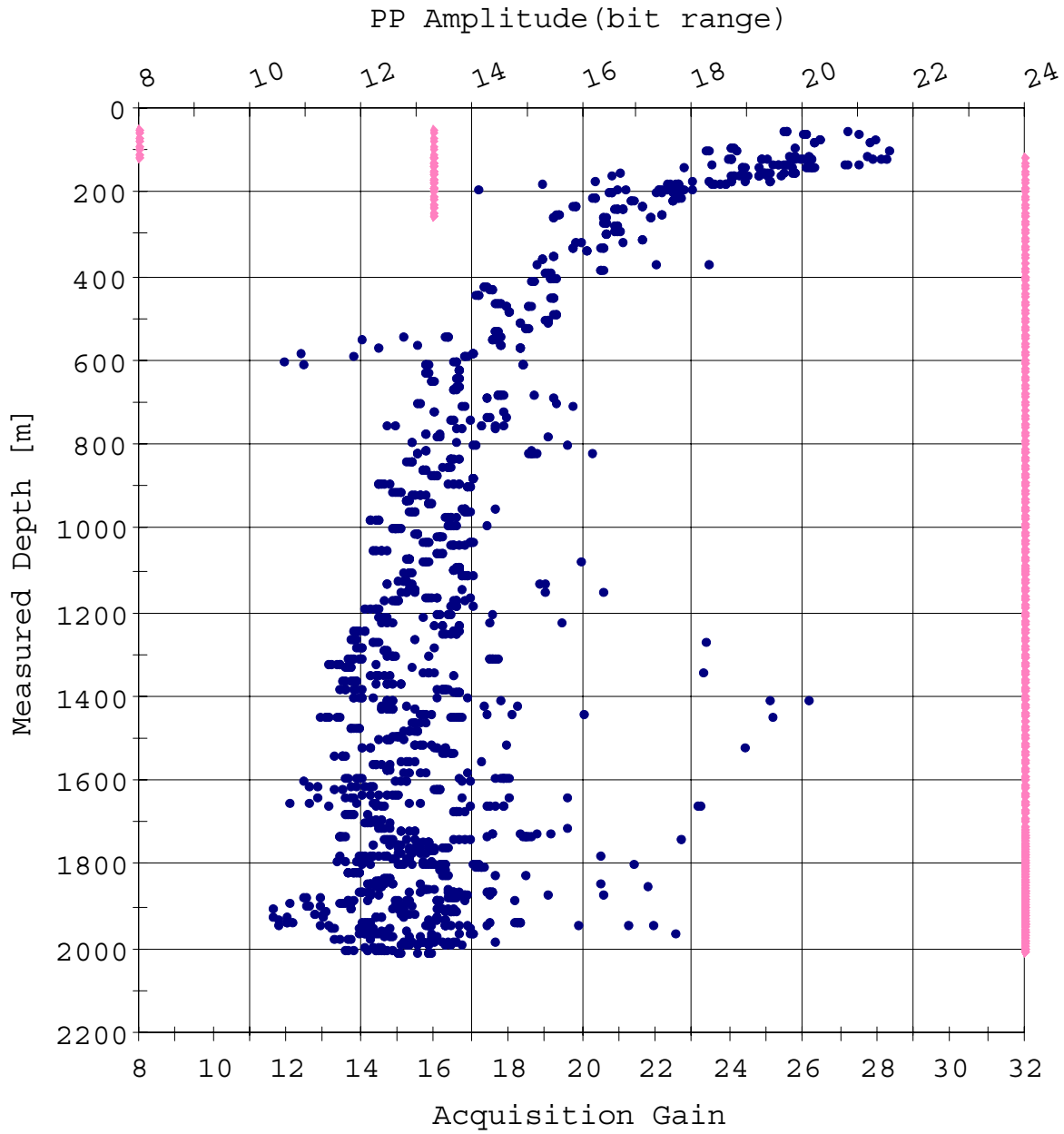
• PP Amplitude (mV)

Amplitude QC Plot (X)



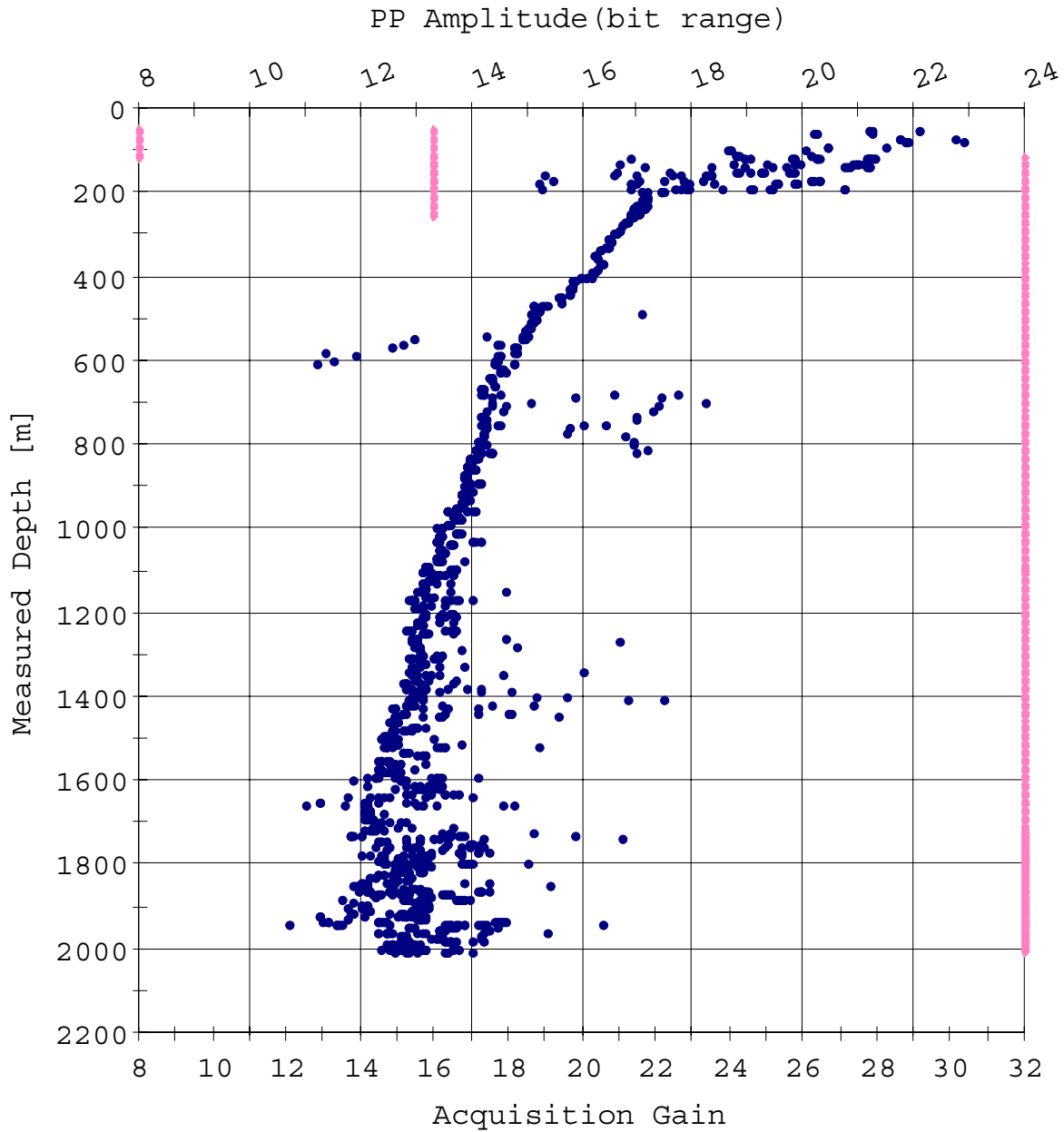
- PP Amplitude (bit range)
- ◆ Acquisition Gain

Amplitude QC Plot (Y)



- PP Amplitude (bit range)
- ◆ Acquisition Gain

Amplitude QC Plot (Z)



- PP Amplitude (bit range)
- ◆ Acquisition Gain

Shot and Observer Report Zero-Offset VSP

Observer's Note (1/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Source | Remarks |
|----------------|----------|-----------|-------|--------|--------|------------------|
| 2010.0 | 06:18:43 | SHAK | 1 | | | |
| 2010.0 | 06:19:39 | BKGD | 2 | | | |
| 2010.0 | 06:20:27 | ENLO | 3 | | | |
| 2010.0 | 06:21:07 | ENHI | 4 | | | |
| 2010.0 | 06:21:33 | ETHD | 5 | | | |
| 2010.0 | 06:22:04 | DRNG | 6 | | | |
| 2010.0 | 06:22:36 | GA02 | 7 | | | |
| 2010.0 | 06:22:52 | GA04 | 8 | | | |
| 2010.0 | 06:23:08 | GA08 | 9 | | | |
| 2010.0 | 06:23:25 | GA16 | 10 | | | |
| 2010.0 | 06:23:41 | GA32 | 11 | | | |
| 2010.0 | 06:24:13 | XTLK | 12 | | | |
| 2010.0 | 06:24:49 | XTLK | 13 | | | |
| 2010.0 | 06:25:26 | XTLK | 14 | | | |
| 2010.0 | 06:26:01 | EIMP | 15 | | | |
| 2010.0 | 06:26:56 | SHOT | 16 | 1 | A | st 2006 |
| 2010.0 | 06:28:03 | SHOT | 17 | 1 | A | st 2006 |
| 2010.0 | 06:29:12 | SHOT | 18 | 1 | A | st 2006 |
| 2010.0 | 06:31:21 | SHOT | 19 | 1 | A | st 2008 for ZVSP |
| 2010.0 | 06:33:54 | SHOT | 20 | 1 | A | st 2008 |
| 2010.0 | 06:34:34 | SHOT | 21 | 1 | A | |
| 2010.0 | 06:38:58 | SHOT | 22 | 1 | A | |
| 2010.0 | 06:39:38 | SHOT | 23 | 1 | A | |
| 2005.0 | 06:43:40 | SHOT | 24 | 2 | A | |
| 2005.0 | 06:44:18 | SHOT | 25 | 2 | A | |
| 2005.0 | 06:44:54 | SHOT | 26 | 2 | A | |
| 2005.0 | 06:45:31 | SHOT | 27 | 2 | A | |
| 2005.0 | 06:46:05 | SHOT | 28 | 2 | A | |
| 1940.0 | 06:51:29 | SHOT | 29 | 3 | A | |
| 1940.0 | 06:52:09 | SHOT | 30 | 3 | A | |
| 1940.0 | 06:52:46 | SHOT | 31 | 3 | A | |
| 1940.0 | 06:53:21 | SHOT | 32 | 3 | A | |
| 1940.0 | 06:53:55 | SHOT | 33 | 3 | A | miss fire |
| 1940.0 | 06:54:44 | SHOT | 34 | 3 | A | |
| 1935.0 | 06:58:22 | SHOT | 35 | 4 | A | |
| 1935.0 | 06:58:59 | SHOT | 36 | 4 | A | |
| 1935.0 | 06:59:32 | SHOT | 37 | 4 | A | missfire |
| 1935.0 | 07:00:10 | SHOT | 38 | 4 | A | miss fire |
| 1935.0 | 07:01:14 | SHOT | 39 | 4 | A | missfire |
| 1935.0 | 07:02:24 | SHOT | 40 | 4 | A | |
| 1935.0 | 07:03:01 | SHOT | 41 | 4 | A | |
| 1935.0 | 07:03:37 | SHOT | 42 | 4 | A | |
| 1870.0 | 07:08:50 | SHOT | 43 | 5 | A | |
| 1870.0 | 07:09:27 | SHOT | 44 | 5 | A | |
| 1870.0 | 07:10:11 | SHOT | 45 | 5 | A | |
| 1870.0 | 07:10:46 | SHOT | 46 | 5 | A | |
| 1870.0 | 07:11:22 | SHOT | 47 | 5 | A | |
| 1870.0 | 07:11:57 | SHOT | 48 | 5 | A | |
| 1865.0 | 07:15:17 | SHOT | 49 | 6 | A | |
| 1865.0 | 07:15:54 | SHOT | 50 | 6 | A | |
| 1865.0 | 07:16:36 | SHOT | 51 | 6 | A | |
| 1865.0 | 07:17:11 | SHOT | 52 | 6 | A | |
| 1865.0 | 07:17:47 | SHOT | 53 | 6 | A | |
| 1800.0 | 07:23:50 | SHOT | 54 | 7 | A | |
| 1800.0 | 07:24:35 | SHOT | 55 | 7 | A | |
| 1800.0 | 07:25:11 | SHOT | 56 | 7 | A | |
| 1800.0 | 07:25:48 | SHOT | 57 | 7 | A | |
| 1800.0 | 07:26:26 | SHOT | 58 | 7 | A | missfire |
| 1800.0 | 07:27:04 | SHOT | 59 | 7 | A | |

Observer's Note (2/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Source | Remarks |
|----------------|----------|-----------|-------|--------|--------|-----------------|
| 1795.0 | 07:30:35 | SHOT | 60 | 8 | A | |
| 1795.0 | 07:31:13 | SHOT | 61 | 8 | A | |
| 1795.0 | 07:31:54 | SHOT | 62 | 8 | A | |
| 1795.0 | 07:32:30 | SHOT | 63 | 8 | A | |
| 1795.0 | 07:33:26 | SHOT | 64 | 8 | A | |
| 1730.0 | 07:39:18 | SHOT | 65 | 9 | A | |
| 1730.0 | 07:39:59 | SHOT | 66 | 9 | A | |
| 1730.0 | 07:40:35 | SHOT | 67 | 9 | A | |
| 1730.0 | 07:41:08 | SHOT | 68 | 9 | A | |
| 1730.0 | 07:41:45 | SHOT | 69 | 9 | A | |
| 1660.0 | 07:46:53 | SHOT | 70 | 10 | A | missfire |
| 1660.0 | 07:47:31 | SHOT | 71 | 10 | A | |
| 1660.0 | 07:48:32 | SHOT | 72 | 10 | A | |
| 1660.0 | 07:49:09 | SHOT | 73 | 10 | A | missfire |
| 1660.0 | 07:49:48 | SHOT | 74 | 10 | A | |
| 1660.0 | 07:50:24 | SHOT | 75 | 10 | A | |
| 1660.0 | 07:51:01 | SHOT | 76 | 10 | A | |
| 1590.0 | 07:56:00 | SHOT | 77 | 11 | A | |
| 1590.0 | 07:56:37 | SHOT | 78 | 11 | A | |
| 1590.0 | 07:57:11 | SHOT | 79 | 11 | A | |
| 1590.0 | 07:57:47 | SHOT | 80 | 11 | A | |
| 1590.0 | 07:58:23 | SHOT | 81 | 11 | A | |
| 1520.0 | 08:03:41 | SHOT | 82 | 12 | A | |
| 1520.0 | 08:04:18 | SHOT | 83 | 12 | A | reject sp noise |
| 1520.0 | 08:04:57 | SHOT | 84 | 12 | A | |
| 1520.0 | 08:05:30 | SHOT | 85 | 12 | A | |
| 1520.0 | 08:06:05 | SHOT | 86 | 12 | A | |
| 1520.0 | 08:06:40 | SHOT | 87 | 12 | A | |
| 1450.0 | 08:11:46 | SHOT | 88 | 13 | A | |
| 1450.0 | 08:12:23 | SHOT | 89 | 13 | A | vsi-4 sp noise |
| 1450.0 | 08:13:13 | SHOT | 90 | 13 | A | |
| 1450.0 | 08:13:50 | SHOT | 91 | 13 | A | vsi-8 sp noise |
| 1450.0 | 08:14:26 | SHOT | 92 | 13 | A | |
| 1450.0 | 08:15:07 | SHOT | 93 | 13 | A | vsi-4 noise |
| 1450.0 | 08:15:45 | SHOT | 94 | 13 | A | |
| 1450.0 | 08:16:27 | SHOT | 95 | 13 | A | |
| 1380.0 | 08:21:46 | SHOT | 96 | 14 | A | |
| 1380.0 | 08:22:39 | SHOT | 97 | 14 | A | |
| 1380.0 | 08:23:17 | SHOT | 98 | 14 | A | |
| 1380.0 | 08:23:58 | SHOT | 99 | 14 | A | |
| 1380.0 | 08:24:39 | SHOT | 100 | 14 | A | |
| 1380.0 | 08:25:13 | SHOT | 101 | 14 | A | |
| 1310.0 | 08:30:26 | SHAK | 102 | | | |
| 1310.0 | 08:31:41 | SHOT | 103 | 15 | A | |
| 1310.0 | 08:32:17 | SHOT | 104 | 15 | A | |
| 1310.0 | 08:32:52 | SHOT | 105 | 15 | A | |
| 1310.0 | 08:33:28 | SHOT | 106 | 15 | A | |
| 1310.0 | 08:34:03 | SHOT | 107 | 15 | A | |
| 1240.0 | 08:39:43 | SHOT | 108 | 16 | A | |
| 1240.0 | 08:40:22 | SHOT | 109 | 16 | A | |
| 1240.0 | 08:40:57 | SHOT | 110 | 16 | A | |
| 1240.0 | 08:41:32 | SHOT | 111 | 16 | A | |
| 1240.0 | 08:42:07 | SHOT | 112 | 16 | A | |
| 1170.0 | 08:47:36 | SHOT | 113 | 17 | A | |
| 1170.0 | 08:48:14 | SHOT | 114 | 17 | A | |
| 1170.0 | 08:48:49 | SHOT | 115 | 17 | A | |
| 1170.0 | 08:49:23 | SHOT | 116 | 17 | A | vsi-6 y moise |
| 1170.0 | 08:49:58 | SHOT | 117 | 17 | A | |
| 1170.0 | 08:50:33 | SHOT | 118 | 17 | A | |

Observer's Note (3/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Source | Remarks |
|----------------|----------|-----------|-------|--------|--------|-------------------|
| 1100.0 | 08:55:24 | SHOT | 119 | 18 | A | |
| 1100.0 | 08:56:02 | SHOT | 120 | 18 | A | |
| 1100.0 | 08:56:39 | SHOT | 121 | 18 | A | |
| 1100.0 | 08:57:13 | SHOT | 122 | 18 | A | |
| 1100.0 | 08:57:48 | SHOT | 123 | 18 | A | |
| 1030.0 | 09:02:44 | BKGD | 124 | | | |
| 1030.0 | 09:03:07 | SHOT | 125 | 19 | A | |
| 1030.0 | 09:03:44 | SHOT | 126 | 19 | A | |
| 1030.0 | 09:04:24 | SHOT | 127 | 19 | A | |
| 1030.0 | 09:05:01 | SHOT | 128 | 19 | A | |
| 1030.0 | 09:05:38 | SHOT | 129 | 19 | A | |
| 960.0 | 09:10:58 | SHOT | 130 | 20 | A | |
| 960.0 | 09:11:36 | SHOT | 131 | 20 | A | |
| 960.0 | 09:12:13 | SHOT | 132 | 20 | A | |
| 960.0 | 09:12:49 | SHOT | 133 | 20 | A | |
| 960.0 | 09:13:28 | SHOT | 134 | 20 | A | |
| 890.0 | 09:19:32 | SHOT | 135 | 21 | A | |
| 890.0 | 09:20:17 | SHOT | 136 | 21 | A | |
| 890.0 | 09:21:02 | SHOT | 137 | 21 | A | |
| 890.0 | 09:21:49 | SHOT | 138 | 21 | A | |
| 890.0 | 09:22:30 | SHOT | 139 | 21 | A | |
| 820.0 | 09:27:50 | SHOT | 140 | 22 | A | |
| 820.0 | 09:28:29 | SHOT | 141 | 22 | A | |
| 820.0 | 09:29:06 | SHOT | 142 | 22 | A | |
| 750.0 | 09:34:09 | SHOT | 143 | 23 | A | |
| 750.0 | 09:34:47 | SHOT | 144 | 23 | A | |
| 750.0 | 09:35:22 | SHOT | 145 | 23 | A | |
| 680.0 | 09:40:39 | SHOT | 146 | 24 | A | |
| 680.0 | 09:41:19 | SHOT | 147 | 24 | A | |
| 680.0 | 09:41:54 | SHOT | 148 | 24 | A | |
| 610.0 | 09:47:19 | SHOT | 149 | 25 | A | missfire |
| 610.0 | 09:48:02 | SHOT | 150 | 25 | A | |
| 610.0 | 09:48:40 | SHOT | 151 | 25 | A | |
| 610.0 | 09:49:17 | SHOT | 152 | 25 | A | |
| 540.0 | 09:54:07 | SHOT | 153 | 26 | A | |
| 540.0 | 09:54:45 | SHOT | 154 | 26 | A | |
| 540.0 | 09:55:21 | SHOT | 155 | 26 | A | |
| 540.0 | 09:56:05 | BKGD | 156 | | | |
| 470.0 | 10:00:57 | SHOT | 157 | 27 | A | |
| 470.0 | 10:01:42 | SHOT | 158 | 27 | A | |
| 470.0 | 10:02:16 | SHOT | 159 | 27 | A | |
| 400.0 | 10:07:07 | SHOT | 160 | 28 | A | |
| 400.0 | 10:07:49 | SHOT | 161 | 28 | A | |
| 400.0 | 10:08:24 | SHOT | 162 | 28 | A | |
| 330.0 | 10:13:14 | SHOT | 163 | 29 | A | |
| 330.0 | 10:13:52 | SHOT | 164 | 29 | A | |
| 330.0 | 10:14:26 | SHOT | 165 | 29 | A | |
| 260.0 | 10:19:13 | SHOT | 166 | 30 | A | |
| 260.0 | 10:19:55 | SHOT | 167 | 30 | A | |
| 260.0 | 10:20:33 | SHOT | 168 | 30 | A | |
| 190.0 | 10:25:47 | SHOT | 169 | 31 | A | st 2008 |
| 190.0 | 10:26:32 | SHOT | 170 | 31 | A | |
| 190.0 | 10:27:47 | SHOT | 171 | 31 | A | |
| 190.0 | 10:28:43 | SHOT | 172 | 31 | A | |
| 190.0 | 10:38:47 | SHOT | 173 | 32 | A | st 2002 miss fire |
| 190.0 | 10:39:26 | SHOT | 174 | 32 | A | st 2002 |
| 190.0 | 10:40:09 | SHOT | 175 | 32 | A | st2002 |
| 190.0 | 10:40:59 | SHOT | 176 | 32 | A | st 2002 |
| 260.0 | 10:54:33 | SHOT | 177 | 33 | A | st 2002 |

Observer's Note (4/4)

| Well depth[m] | Time | Shot Type | Shot# | Stack# | Source | Remarks |
|---------------|----------|-----------|-------|--------|--------|---------|
| 260.0 | 10:55:14 | SHOT | 178 | 33 | A | st 2002 |
| 260.0 | 10:55:52 | SHOT | 179 | 33 | A | st 2002 |
| 190.0 | 11:00:56 | SHOT | 180 | 34 | A | st 2002 |
| 190.0 | 11:01:36 | SHOT | 181 | 34 | A | st 2002 |
| 190.0 | 11:02:16 | SHOT | 182 | 34 | A | st 2002 |
| 120.0 | 11:09:01 | SHOT | 183 | 35 | A | st 2002 |
| 120.0 | 11:09:55 | SHOT | 184 | 35 | A | st2002 |
| 120.0 | 11:10:31 | SHOT | 185 | 35 | A | st 2002 |
| 120.0 | 11:11:06 | SHOT | 186 | 35 | A | st 2002 |

VSI Tool Evaluation Test Report Zero-Offset VSP

| VSI Seismic Evaluation Report | | | | | | | |
|-------------------------------|---------|---------|----------|--------------------------|-------------|-------------|--------|
| ELECTRICAL NOISE LOW TEST | | | | | | | |
| 2006/05/17 07:50:27 | | | | | | | |
| Shot No: 3 | | | | Station Depth: 2010.04 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| DC Offset | 1 | X | -25.4275 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1307 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4506 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3659 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1385 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.5520 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.3837 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1351 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4820 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.2294 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1314 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4360 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -25.0906 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4898 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.3829 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1322 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4977 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.3883 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1333 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4711 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.2974 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1395 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5050 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.3684 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1359 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.4809 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2986 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1364 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.4907 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.3395 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1373 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.5267 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2933 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1388 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.6483 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.2679 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1338 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4682 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3480 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1343 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4927 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3287 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1319 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.5070 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.4077 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1354 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.5213 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.3329 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1352 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.4397 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -25.3428 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1346 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.5012 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.3194 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1369 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.5891 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -25.2818 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1392 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5108 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.3319 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1367 | micro V | - | 0.5000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| Noise Peak | 7 | Z | 0.5755 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.4163 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1294 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4589 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.2812 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1384 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5232 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.4420 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1356 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.5133 | micro V | - | 2.0000 | PASS |

ELECTRICAL NOISE HIGH TEST

2006/05/17 07:51:07

Shot No: 4

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.3355 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1284 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4647 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.4685 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1356 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.5495 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.2379 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1346 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4668 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -24.9991 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1295 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4313 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -24.7965 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.5713 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2340 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1291 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4838 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.1186 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1338 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.6144 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.4852 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1393 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.4717 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.2808 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1353 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.4810 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2378 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1358 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.4652 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.1297 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1325 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.5260 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.1763 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1377 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.5364 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.0406 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1325 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4836 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3562 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1333 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4693 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3246 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1398 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.5382 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.3412 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1333 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4960 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.0049 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1346 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.5505 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -24.8892 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1324 | micro V | - | 0.5000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| Noise Peak | 6 | Z | 0.4171 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.1660 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1367 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.5225 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -24.9760 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1379 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.4876 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.1359 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1349 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.4580 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.1840 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4262 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.0113 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1351 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5085 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.0909 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1357 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.4907 | micro V | - | 2.0000 | PASS |

ELECTRICAL DISTORTION TEST

2006/05/17 07:51:33

Shot No: 5

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|---------------------------|---------|---------|-----------|------|-------------|-------------|--------|
| Total Harmonic Distortion | 1 | X | -96.8279 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Y | -97.3085 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Z | -96.8608 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | X | -93.4648 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Y | -94.3492 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Z | -96.9343 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | X | -99.3203 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Y | -98.8934 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Z | -100.2839 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | X | -98.7060 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Y | -99.1916 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Z | -97.4836 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | X | -94.6538 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Y | -95.6945 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Z | -95.1758 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | X | -96.7716 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Y | -99.6054 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Z | -96.7426 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | X | -98.3104 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Y | -97.6489 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Z | -96.6049 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | X | -97.4828 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Y | -96.5518 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Z | -97.9817 | dB | - | -90.0000 | PASS |

SYSTEM DYNAMIC RANGE TEST

2006/05/17 07:52:04

Shot No: 6

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|----------------------|---------|---------|----------|------|-------------|-------------|--------|
| System Dynamic Range | 1 | X | 107.8435 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Y | 107.7530 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Z | 107.7419 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | X | 106.2375 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Y | 106.6364 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Z | 106.3219 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | X | 106.7121 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Y | 106.4039 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Z | 106.3425 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | X | 106.6708 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Y | 106.7382 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Z | 106.5784 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | X | 106.6870 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Y | 106.8784 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Z | 106.5591 | dB | 103.0000 | - | PASS |

| | | | | | | | |
|----------------------|---|---|----------|----|----------|---|------|
| System Dynamic Range | 6 | X | 106.3334 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Y | 106.2334 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Z | 106.4254 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | X | 107.4087 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Y | 107.3140 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Z | 107.2495 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | X | 107.1634 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Y | 107.3012 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Z | 107.2666 | dB | 103.0000 | - | PASS |

AMPLIFIER GAIN 2 TEST

2006/05/17 07:52:36

Shot No: 7

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1165 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1292 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1136 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1205 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1426 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1197 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1304 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1286 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1299 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1286 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1141 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1095 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1023 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1133 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1216 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1061 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1144 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1048 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 4 TEST

2006/05/17 07:52:52

Shot No: 8

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1043 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 1 | X | 0.0122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1251 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0979 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1188 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1123 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1413 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1186 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1293 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1328 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1293 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1162 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1257 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1121 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1200 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1016 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0996 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1112 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1203 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1143 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0040 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 8 TEST

2006/05/17 07:53:08

Shot No: 9

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1242 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0943 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1203 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1124 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1413 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1187 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1315 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Accuracy | 3 | Z | 0.1367 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1318 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | -0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1262 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1126 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1207 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1152 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1038 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | -0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1063 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0992 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1107 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1215 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0001 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1049 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1130 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1036 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0011 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 2 TEST

2006/05/17 07:52:36

Shot No: 7

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1165 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1292 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1136 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1205 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1426 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1197 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1304 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1286 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1299 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1286 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1141 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1082 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1095 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1023 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1133 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1216 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1061 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1144 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1048 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 16 TEST

2006/05/17 07:53:25

Shot No: 10

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0936 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0229 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1186 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0106 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0919 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1151 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1377 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1153 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1284 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1368 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1279 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1162 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1222 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0065 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1072 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0070 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1177 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1113 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0072 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.0984 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0098 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.0991 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0038 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0070 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0946 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0076 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1077 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1172 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1016 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1094 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |

| Gain Accuracy | 8 | Z | 0.1015 | dB | -0.5000 | 0.5000 | PASS |
|-------------------------------|---------|---------|----------|---------------------------------|-------------|-------------|--------|
| Gain Step Accuracy | 8 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| AMPLIFIER GAIN 32 TEST | | | | | | | |
| 2006/05/17 07:53:41 | | | | | | | |
| Shot No: 11 | | | | Station Depth: 2010.04 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| Gain Accuracy | 1 | X | 0.0933 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0232 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1230 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0063 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0947 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0190 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1107 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1393 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1197 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1332 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1386 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0101 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1291 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1163 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1252 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0035 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1083 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0058 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1224 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1142 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0043 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.0989 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1068 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0965 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1107 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1188 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1094 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | -0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0022 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.0938 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0110 | dB | -0.5000 | 0.5000 | PASS |
| CROSS TALK X TEST | | | | | | | |
| 2006/05/17 07:54:13 | | | | | | | |
| Shot No: 12 | | | | Station Depth: 2010.04 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| Cross Talk X-Y | 1 | - | -99.2942 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 1 | - | -97.8593 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 2 | - | -99.6450 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 2 | - | -98.0704 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 3 | - | -99.0609 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 3 | - | -97.6727 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 4 | - | -99.2741 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 4 | - | -97.4382 | dB | - | -90.0000 | PASS |

| | | | | | | | |
|----------------|---|---|----------|----|---|----------|------|
| Cross Talk X-Y | 5 | - | -99.4623 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 5 | - | -98.3050 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 6 | - | -99.4278 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 6 | - | -98.1521 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 7 | - | -99.3157 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 7 | - | -98.2289 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 8 | - | -99.0691 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 8 | - | -98.3060 | dB | - | -90.0000 | PASS |

CROSS TALK Y TEST

2006/05/17 07:54:49

Shot No: 13

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Y-Z | 1 | - | -97.5423 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 1 | - | -99.0283 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 2 | - | -97.5351 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 2 | - | -99.0021 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 3 | - | -97.3402 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 3 | - | -99.0408 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 4 | - | -96.9600 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 4 | - | -98.9049 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 5 | - | -97.6962 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 5 | - | -99.2355 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 6 | - | -97.9866 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 6 | - | -99.0932 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 7 | - | -97.9941 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 7 | - | -98.9031 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 8 | - | -97.8390 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 8 | - | -98.9516 | dB | - | -90.0000 | PASS |

CROSS TALK Z TEST

2006/05/17 07:55:26

Shot No: 14

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Z-X | 1 | - | -96.2253 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 1 | - | -95.7376 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 2 | - | -96.9212 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 2 | - | -96.8125 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 3 | - | -96.4643 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 3 | - | -96.0255 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 4 | - | -96.2251 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 4 | - | -95.4971 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 5 | - | -96.9498 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 5 | - | -96.7195 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 6 | - | -96.5417 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 6 | - | -96.1465 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 7 | - | -96.7059 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 7 | - | -96.2932 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 8 | - | -97.4310 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 8 | - | -96.9884 | dB | - | -90.0000 | PASS |

IMPULSE RESPONSE TEST

2006/05/17 07:56:01

Shot No: 15

Station Depth: 2010.04 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------------|---------|---------|----------|---------|-------------|-------------|--------|
| Amplitude (0.3Hz) | 1 | X | -1.5098 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | X | -3.5765 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | X | 571.8320 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | X | 0.0000 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Y | -1.4286 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Y | -3.5757 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Y | 572.6945 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Y | -0.7713 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Z | -1.4736 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Z | -3.5760 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Z | 571.6537 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Z | -0.4676 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | X | -1.4338 | dB | -5.0000 | - | PASS |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (400Hz) | 2 | X | -3.5738 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | X | 571.5952 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | X | -0.3930 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Y | -1.5723 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Y | -3.5739 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Y | 571.4036 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Y | 0.9601 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Z | -1.6007 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Z | -3.5749 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Z | 572.9417 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Z | 1.2960 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | X | -1.4466 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | X | -3.5705 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | X | 571.3315 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | X | -0.3797 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Y | -1.4485 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Y | -3.5713 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Y | 572.1791 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Y | -0.6042 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Z | -1.4949 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Z | -3.5708 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Z | 572.2122 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Z | 0.0711 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | X | -1.6622 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | X | -3.5741 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | X | 572.7161 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | X | 1.8381 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Y | -1.5545 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Y | -3.5781 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Y | 571.6810 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Y | 0.7215 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Z | -1.5342 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Z | -3.5764 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Z | 572.6318 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Z | 0.4077 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | X | -1.5721 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | X | -3.5788 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | X | 571.6209 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | X | 0.7570 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Y | -1.4931 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Y | -3.5810 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Y | 572.0507 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Y | -0.1330 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Z | -1.6493 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Z | -3.5784 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Z | 572.0528 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Z | 1.4627 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | X | -1.6132 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | X | -3.5799 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | X | 570.7907 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | X | 1.3430 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Y | -1.5121 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Y | -3.5802 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Y | 570.8729 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Y | 0.1581 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Z | -1.5773 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Z | -3.5757 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Z | 571.3984 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Z | 0.8349 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | X | -1.5672 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | X | -3.5772 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | X | 570.0336 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | X | 1.1968 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Y | -1.5526 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Y | -3.5751 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Y | 571.1105 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Y | 1.1057 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Z | -1.4994 | dB | -5.0000 | - | PASS |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (400Hz) | 7 | Z | -3.5764 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Z | 571.6436 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Z | 0.4001 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | X | -1.5642 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | X | -3.5762 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | X | 570.6410 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | X | 1.5482 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Y | -1.6039 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Y | -3.5753 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Y | 571.8102 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Y | 1.5218 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Z | -1.6662 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Z | -3.5757 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Z | 570.8191 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Z | 2.3230 | degree | - | - | - |

Offset VSP Report

General Information

| | |
|--|------------|
| Survey Type | Offset VSP |
| Surface Recording Length | 15500.0 ms |
| Surface Sampling Rate | 2.0 ms |
| Downhole Recording Length | 20500.0 ms |
| Downhole Sampling Rate | 2.0 ms |
| Top of Survey | 590.0 m |
| Bottom of Survey | 2010.0 m |
| Number of Shots | 158 |
| Number of Downhole Traces | 1264 |
| Number of Downhole Traces used for Processing | 775 |

Borehole Seismic Source Information - Source 1

Engineer: S. Nakanishi

Well Name: Naylor-1

Date: 14-May-2006

Rig: Rigless/ 15Ton Crane

Geometrical Coordinates

Longitude: 142 48' 30.43" E

Latitude: 38 31' 47.26" S

UTM Coordinates

Easting: 657634.25 m E

Northing: 5733850.49 m N

Permanent Datum: MSL

Log Measured From: DF

Elev. 51.1

Unit: m

Ground Elev. at Well Head 46.4

SRD (Seismic Reference Datum): MSL

Elev. 0.0

from SLB zero: 51.1

(SRDS)

Source UTM Coordinates

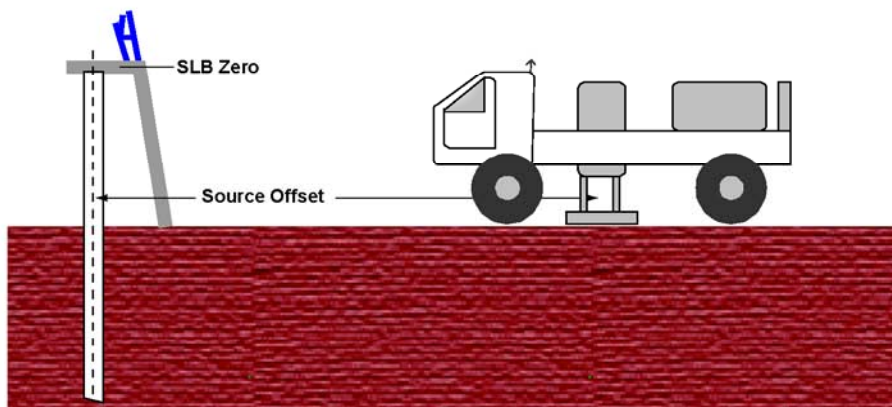
Easting: 657883

mE

Northing: 5733139

mN

Ground Elev. at VP: 47.3



Gun Depth from SLB : 3.8 (GDSZ)

Gun Depth from SRD : -47.3

Gun Depth from GL (WH): -0.9

Ground Condition: Clay soil
Flat terrain

Ground Water Level from GL: 1.0

Gun Azimuth (Grid North): 160.7 deg (GAZI)

Gun Offset: 753.7 (GOFF)

Vibrator: IVI MinVib T1500

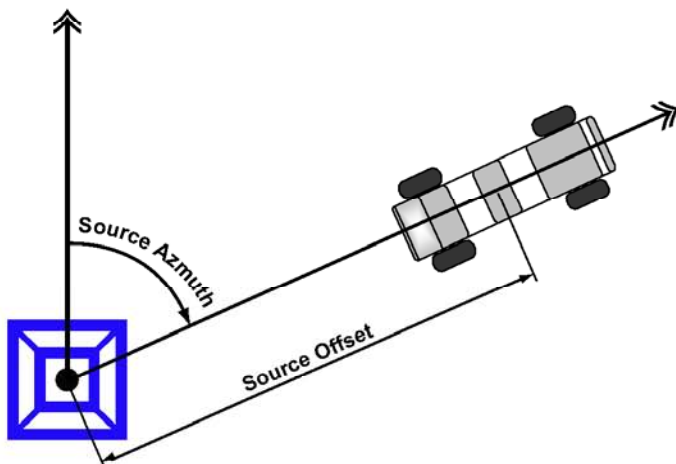
Controller - Encoder: RTS-100

Decoder: SIB-100

Version: ANSIR

Mass Weight 311 lbs
BasePlate Weight 370 lbs
HoldDown Weight 10,000 lbs

Zero Time Adjust N/A
Radio Reference Delay N/A



Sweep Parameters

Start Frequency 10 Hz
End Frequency 150 Hz
Sweep Length 15 sec
Start Taper 0.2 sec
End Taper 0.2 sec
Sweep Type Linear
VIB Sweep Phase N/A
ESG Sweep Phase N/A
Phase Lock Mode N/A
Force Mode N/A

Surface Velocity Survey (Rig Source only)

Tool Measured Depth: 610.0

Measured Transit Time: 463.2 ms Reliable TT

Measured Surface Velocity: NA

Provided Surface Velocity by Client: 1,750.0 m/sec

Borehole Seismic Source Information

Surface Sensor Channels

WSAM (WSI)

sn: **WSAM: -AB 910**

WSI: 1742

Pilot Signal

SSPS

| | | |
|---------------------|---------------------|-------------------------------------|
| S1 (WSI-SS2) | none | <input type="checkbox"/> |
| S2 (WSI-SS3) | Filtered Ground For | <input checked="" type="checkbox"/> |
| S3 (WSI-SS4) | none | <input type="checkbox"/> |
| S4 (WSI-SS5) | | <input type="checkbox"/> |
| S5 (WSI-SS6) | | <input type="checkbox"/> |
| S6 (WSI-SS7) | | <input type="checkbox"/> |

Quality Check Surface Signals

| | S1 Time Break / PP | | S2 TT(ms) / PP | | S3 TT(ms) / PP | | S4 TT(ms) / PP | | S5 TT(ms) / PP | | S6 TT(ms) / PP | |
|--------|--------------------|---|----------------|-------|----------------|---|----------------|---|----------------|---|----------------|---|
| Shot-1 | 0.0 / | 0 | 0.0 / | 19081 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-2 | 0.0 / | 0 | 0.0 / | 19013 | 1.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-3 | 0.0 / | 0 | 0.0 / | 19287 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-4 | 0.0 / | 0 | 0.0 / | 19342 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-5 | 0.0 / | 0 | 0.0 / | 19244 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |

Other Logs Information

| | | | | |
|---------------------|------------------|-------------|-----------|--------------|
| Sonic Log: | Interval: | from | to | Date: |
| Density Log: | Interval: | from | to | Date: |

Remarks

MinVib T1500 used 10Hz to 150Hz linear sweep for 15 seconds. Baseplate used the shearwave plate for P-wave mode. PSS or QC signal is not available in the RTS-100 system.

Contact Closure pin-F and G of RTS-100 is used for triggering MinVib through WSI-A (30 msec period). Start Delay sets 0.1 s.

SIB-100 can provide three reference pilot signals (Synthetic, Ground Force and Filtered Ground force). Only one of them can be transmitted through UHF radio. The Filtered Ground Force signal is recommended for correlation by the IVI. Pilot signal (Filtered Ground Force signal) is recorded for correlation. FGF signal is generated in the SIB-100 box in real time by combining the baseplate accelerometer and the mass accelerometer signals during each sweep. This signal is then filtered with a tracking high cut filter. The frequency of this tracking filter is set to remove all higher order harmonics. . FGF signals is 180 degree phase different to GF signal according to Elmo Christensen / IVI.

FGF signal is recorded in reversed polarity (RTS-100 pin-D to WSI pin-A, RTS-100 pin-N to WSI pin-B) in order to obtain positive peak correlation. Downhole receiver (GAC) has SEG reverse polarity (1975).

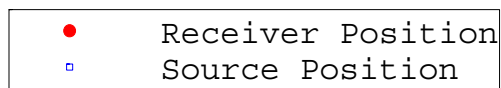
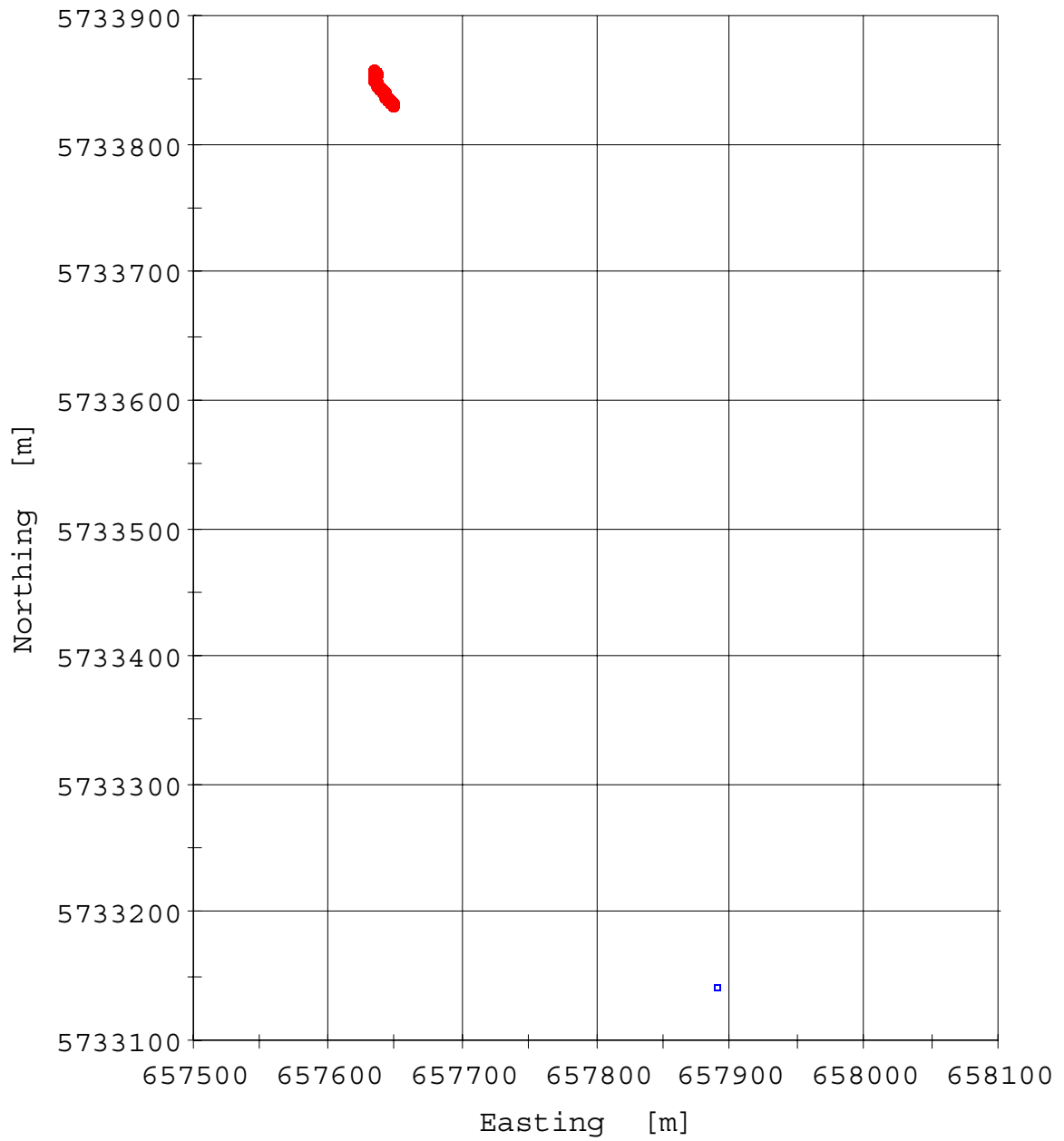
Recording surface signals (WSAM) S1 - No input. S2 - FGF (15500 msec @ 2 msec sampling with TOFS 500 ms to avoid transit noise). Correlation Length 5000 msec. Downhole listening time is 20500 msec @ 2 msec sampling). Input impedance of the channel SS3 (S2) of WSAM-AB was changed from 462-ohm to 10K-ohm in order to obtain better dynamic range.

Detail T-1500 MinVib specification

- Max. Theoretical Peak Force: 6,000 Pounds
- Mass Piston Area: 1.50 Inches²
- Reaction Mass Weight: 311 Pounds
- Reaction Mass Stroke: 1.88 Inches
- Servovalve; 5 GPM
- Servovalve Pilot Filter: 3 Micron
- Baseplate Area: 1,018 Inches²
- Baseplate Assembly Weight: 370 Pounds
- Lift System Stroke: 38 Inches
- Lift Cylinder Diameter: 2.5 Inches
- Lift Synchronization: Mechanical Crossbeam
- Vibrator Pump Flow: 15 GPM @ 2100 RPM
- Holddown Weight: 10,000 Pounds



Geometry Information Page (X-Y)



Shot Summary Listing (1/6)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|------------------------------|
| 610.0 | 3 | 33 | -22.3 | 3.0 | 771.5 | 177, 178, 179, 180, 181 |
| 620.0 | 4 | 33 | -21.1 | 3.2 | 905.5 | 177, 178, 179, 180, 181 |
| 630.0 | 5 | 33 | -18.5 | 3.3 | 766.9 | 177, 178, 179, 180, 181 |
| 640.0 | 6 | 33 | 15.8 | 3.2 | 774.7 | 177, 178, 179, 180, 181 |
| 650.0 | 7 | 33 | 15.3 | 3.2 | 790.4 | 177, 178, 179, 180, 181 |
| 660.0 | 8 | 33 | -15.8 | 3.2 | 802.0 | 177, 178, 179, 180, 181 |
| 670.0 | 3 | 32 | -22.1 | 3.0 | 780.0 | 170, 171, 172, 173, 174, 175 |
| 680.0 | 4 | 32 | -21.3 | 3.2 | 902.4 | 170, 171, 172, 173, 174, 175 |
| 690.0 | 5 | 32 | -21.5 | 3.3 | 763.7 | 170, 171, 172, 173, 174, 175 |
| 700.0 | 6 | 32 | 12.1 | 3.2 | 805.8 | 170, 171, 172, 173, 174, 175 |
| 710.0 | 7 | 32 | 18.5 | 3.2 | 796.5 | 170, 171, 172, 173, 174, 175 |
| 720.0 | 8 | 32 | -19.0 | 3.2 | 789.6 | 170, 171, 172, 173, 174, 175 |
| 730.0 | 3 | 31 | -17.6 | 3.0 | 782.9 | 164, 165, 166, 167, 168 |
| 740.0 | 4 | 31 | -26.5 | 3.2 | 897.4 | 164, 165, 166, 167, 168 |
| 750.0 | 5 | 31 | -21.3 | 3.3 | 771.7 | 164, 165, 166, 167, 168 |
| 760.0 | 6 | 31 | 13.4 | 3.2 | 798.9 | 164, 165, 166, 167, 168 |
| 770.0 | 7 | 31 | 18.7 | 3.2 | 780.3 | 164, 165, 166, 167, 168 |
| 780.0 | 8 | 31 | -9.6 | 3.1 | 774.4 | 164, 165, 166, 167, 168 |
| 790.0 | 3 | 30 | -11.9 | 3.0 | 761.6 | 159, 160, 161, 162, 163 |
| 800.0 | 4 | 30 | -28.3 | 3.2 | 897.4 | 159, 160, 161, 162, 163 |
| 810.0 | 5 | 30 | -14.9 | 3.3 | 776.6 | 159, 160, 161, 162, 163 |
| 820.0 | 6 | 30 | 13.0 | 3.2 | 807.6 | 159, 160, 161, 162, 163 |
| 830.0 | 7 | 30 | 16.3 | 3.2 | 775.1 | 159, 160, 161, 162, 163 |
| 840.0 | 8 | 30 | -9.9 | 3.1 | 792.7 | 159, 160, 161, 162, 163 |
| 850.0 | 3 | 29 | -12.1 | 3.0 | 759.8 | 154, 155, 156, 157, 158 |
| 860.0 | 4 | 29 | -29.6 | 3.2 | 893.9 | 154, 155, 156, 157, 158 |
| 870.0 | 5 | 29 | -9.1 | 3.2 | 750.4 | 154, 155, 156, 157, 158 |
| 880.0 | 6 | 29 | 23.6 | 3.2 | 804.2 | 154, 155, 156, 157, 158 |

Shot Summary Listing (2/6)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|------------------------------|
| 890.0 | 7 | 29 | 16.2 | 3.2 | 767.5 | 154, 155, 156, 157, 158 |
| 900.0 | 8 | 29 | -8.9 | 3.1 | 791.4 | 154, 155, 156, 157, 158 |
| 910.0 | 3 | 28 | -26.1 | 3.0 | 753.5 | 148, 149, 150, 151, 152 |
| 920.0 | 4 | 28 | -29.6 | 3.2 | 881.1 | 148, 149, 150, 151, 152 |
| 930.0 | 5 | 28 | -7.4 | 3.3 | 760.4 | 148, 149, 150, 151, 152 |
| 940.0 | 6 | 28 | 19.6 | 3.2 | 794.1 | 148, 149, 150, 151, 152 |
| 950.0 | 7 | 28 | 23.0 | 3.2 | 760.4 | 148, 149, 150, 151, 152 |
| 960.0 | 8 | 28 | -9.3 | 3.1 | 785.8 | 148, 149, 150, 151, 152 |
| 970.0 | 3 | 27 | -24.3 | 3.0 | 740.9 | 142, 143, 144, 145, 146 |
| 980.0 | 4 | 27 | -29.6 | 3.2 | 880.0 | 142, 143, 144, 145, 146 |
| 990.0 | 5 | 27 | -10.7 | 3.3 | 765.2 | 142, 143, 144, 145, 146 |
| 1000.0 | 6 | 27 | 17.0 | 3.1 | 792.6 | 142, 143, 144, 145, 146 |
| 1010.0 | 7 | 27 | 20.5 | 3.2 | 753.8 | 142, 143, 144, 145, 146 |
| 1020.0 | 8 | 27 | -9.3 | 3.1 | 778.1 | 142, 143, 144, 145, 146 |
| 1030.0 | 3 | 26 | -23.6 | 3.0 | 744.1 | 135, 136, 137, 138, 140, 141 |
| 1040.0 | 4 | 26 | -27.8 | 3.2 | 877.8 | 135, 136, 137, 138, 140, 141 |
| 1050.0 | 5 | 26 | -22.0 | 3.3 | 754.3 | 135, 136, 137, 138, 140, 141 |
| 1060.0 | 6 | 26 | 10.9 | 3.2 | 786.1 | 135, 136, 137, 138, 140, 141 |
| 1070.0 | 7 | 26 | 16.2 | 3.2 | 745.2 | 135, 136, 137, 138, 140, 141 |
| 1080.0 | 8 | 26 | -9.8 | 3.1 | 766.5 | 135, 136, 137, 138, 140, 141 |
| 1090.0 | 3 | 25 | -24.8 | 3.0 | 736.7 | 130, 131, 132, 133, 134 |
| 1100.0 | 4 | 25 | -27.7 | 3.2 | 867.9 | 130, 131, 132, 133, 134 |
| 1110.0 | 5 | 25 | -21.5 | 3.3 | 753.2 | 130, 131, 132, 133, 134 |
| 1120.0 | 6 | 25 | 6.5 | 3.2 | 792.6 | 130, 131, 132, 133, 134 |
| 1130.0 | 7 | 25 | 10.7 | 3.2 | 745.6 | 130, 131, 132, 133, 134 |
| 1140.0 | 8 | 25 | -15.4 | 3.1 | 770.5 | 130, 131, 132, 133, 134 |
| 1150.0 | 3 | 24 | -25.4 | 3.0 | 723.3 | 125, 126, 127, 128, 129 |
| 1160.0 | 4 | 24 | -27.5 | 3.2 | 868.4 | 125, 126, 127, 128, 129 |

Shot Summary Listing (3/6)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|-------------------------|
| 1170.0 | 5 | 24 | -21.7 | 3.3 | 753.9 | 125, 126, 127, 128, 129 |
| 1180.0 | 6 | 24 | 2.5 | 3.1 | 775.2 | 125, 126, 127, 128, 129 |
| 1190.0 | 7 | 24 | 4.7 | 3.2 | 747.4 | 125, 126, 127, 128, 129 |
| 1200.0 | 8 | 24 | -11.4 | 3.1 | 771.1 | 125, 126, 127, 128, 129 |
| 1210.0 | 3 | 23 | -22.5 | 3.0 | 739.4 | 120, 121, 122, 123, 124 |
| 1220.0 | 4 | 23 | -30.9 | 3.1 | 857.4 | 120, 121, 122, 123, 124 |
| 1230.0 | 5 | 23 | -21.6 | 3.3 | 743.1 | 120, 121, 122, 123, 124 |
| 1240.0 | 6 | 23 | 21.2 | 3.2 | 781.6 | 120, 121, 122, 123, 124 |
| 1250.0 | 7 | 23 | 13.7 | 3.2 | 747.8 | 120, 121, 122, 123, 124 |
| 1260.0 | 8 | 23 | -10.7 | 3.1 | 776.1 | 120, 121, 122, 123, 124 |
| 1270.0 | 3 | 22 | -19.6 | 3.0 | 727.9 | 115, 116, 117, 118, 119 |
| 1280.0 | 4 | 22 | -28.4 | 3.2 | 827.1 | 115, 116, 117, 118, 119 |
| 1290.0 | 5 | 22 | -21.6 | 3.3 | 733.9 | 115, 116, 117, 118, 119 |
| 1300.0 | 6 | 22 | 16.4 | 3.2 | 776.8 | 115, 116, 117, 118, 119 |
| 1310.0 | 7 | 22 | 10.0 | 3.2 | 717.5 | 115, 116, 117, 118, 119 |
| 1320.0 | 8 | 22 | -6.0 | 3.1 | 760.9 | 115, 116, 117, 118, 119 |
| 1330.0 | 3 | 21 | -13.0 | 3.0 | 709.4 | 109, 111, 112, 113, 114 |
| 1340.0 | 4 | 21 | -28.1 | 3.2 | 843.0 | 109, 111, 112, 113, 114 |
| 1350.0 | 5 | 21 | -20.7 | 3.3 | 732.9 | 109, 111, 112, 113, 114 |
| 1360.0 | 6 | 21 | 19.4 | 3.2 | 772.9 | 109, 111, 112, 113, 114 |
| 1370.0 | 7 | 21 | 14.5 | 3.2 | 738.5 | 109, 111, 112, 113, 114 |
| 1380.0 | 8 | 21 | -8.4 | 3.1 | 752.3 | 109, 111, 112, 113, 114 |
| 1390.0 | 3 | 20 | -10.5 | 3.0 | 719.4 | 103, 104, 105, 107, 108 |
| 1400.0 | 4 | 20 | -32.0 | 3.2 | 833.4 | 103, 104, 105, 107, 108 |
| 1410.0 | 5 | 20 | -21.7 | 3.2 | 727.8 | 103, 104, 105, 107, 108 |
| 1420.0 | 6 | 20 | 14.6 | 3.2 | 759.7 | 103, 104, 105, 107, 108 |
| 1430.0 | 7 | 20 | 13.8 | 3.2 | 717.2 | 103, 104, 105, 107, 108 |
| 1440.0 | 8 | 20 | -16.6 | 3.1 | 744.2 | 103, 104, 105, 107, 108 |

Shot Summary Listing (4/6)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|-----------------------|
| 1450.0 | 3 | 19 | -8.7 | 3.0 | 697.2 | 98, 99, 100, 101, 102 |
| 1460.0 | 4 | 19 | -31.6 | 3.2 | 842.6 | 98, 99, 100, 101, 102 |
| 1470.0 | 5 | 19 | -19.9 | 3.2 | 714.5 | 98, 99, 100, 101, 102 |
| 1480.0 | 6 | 19 | 10.4 | 3.2 | 761.9 | 98, 99, 100, 101, 102 |
| 1490.0 | 7 | 19 | 13.2 | 3.2 | 732.5 | 98, 99, 100, 101, 102 |
| 1500.0 | 8 | 19 | -11.5 | 3.2 | 741.8 | 98, 99, 100, 101, 102 |
| 1510.0 | 3 | 18 | -11.5 | 3.0 | 685.0 | 93, 94, 95, 96, 97 |
| 1520.0 | 4 | 18 | -31.9 | 3.2 | 821.1 | 93, 94, 95, 96, 97 |
| 1530.0 | 5 | 18 | -21.7 | 3.2 | 711.0 | 93, 94, 95, 96, 97 |
| 1540.0 | 6 | 18 | 6.4 | 3.1 | 767.3 | 93, 94, 95, 96, 97 |
| 1550.0 | 7 | 18 | 4.3 | 3.2 | 714.0 | 93, 94, 95, 96, 97 |
| 1560.0 | 8 | 18 | -9.9 | 3.1 | 739.2 | 93, 94, 95, 96, 97 |
| 1570.0 | 3 | 17 | -13.4 | 3.0 | 685.0 | 88, 89, 90, 91, 92 |
| 1580.0 | 4 | 17 | -32.1 | 3.1 | 810.4 | 88, 89, 90, 91, 92 |
| 1590.0 | 5 | 17 | -28.3 | 3.2 | 711.0 | 88, 89, 90, 91, 92 |
| 1600.0 | 6 | 17 | 1.0 | 3.2 | 765.1 | 88, 89, 90, 91, 92 |
| 1610.0 | 7 | 17 | 6.3 | 3.2 | 720.4 | 88, 89, 90, 91, 92 |
| 1620.0 | 8 | 17 | -15.6 | 3.1 | 751.7 | 88, 89, 90, 91, 92 |
| 1630.0 | 3 | 16 | -13.7 | 2.9 | 675.7 | 83, 84, 85, 86, 87 |
| 1640.0 | 4 | 16 | -34.4 | 3.1 | 775.7 | 83, 84, 85, 86, 87 |
| 1650.0 | 5 | 16 | -29.1 | 3.2 | 683.3 | 83, 84, 85, 86, 87 |
| 1660.0 | 6 | 16 | 10.4 | 3.1 | 762.1 | 83, 84, 85, 86, 87 |
| 1670.0 | 7 | 16 | -6.9 | 3.2 | 706.8 | 83, 84, 85, 86, 87 |
| 1680.0 | 8 | 16 | -27.0 | 3.1 | 728.0 | 83, 84, 85, 86, 87 |
| 1690.0 | 3 | 15 | -9.4 | 3.0 | 689.4 | 82 |
| 1700.0 | 4 | 15 | -34.9 | 3.1 | 793.2 | 82 |
| 1710.0 | 5 | 15 | -41.4 | 3.2 | 655.9 | 82 |
| 1720.0 | 6 | 15 | 1.5 | 3.1 | 759.5 | 82 |

Shot Summary Listing (5/6)

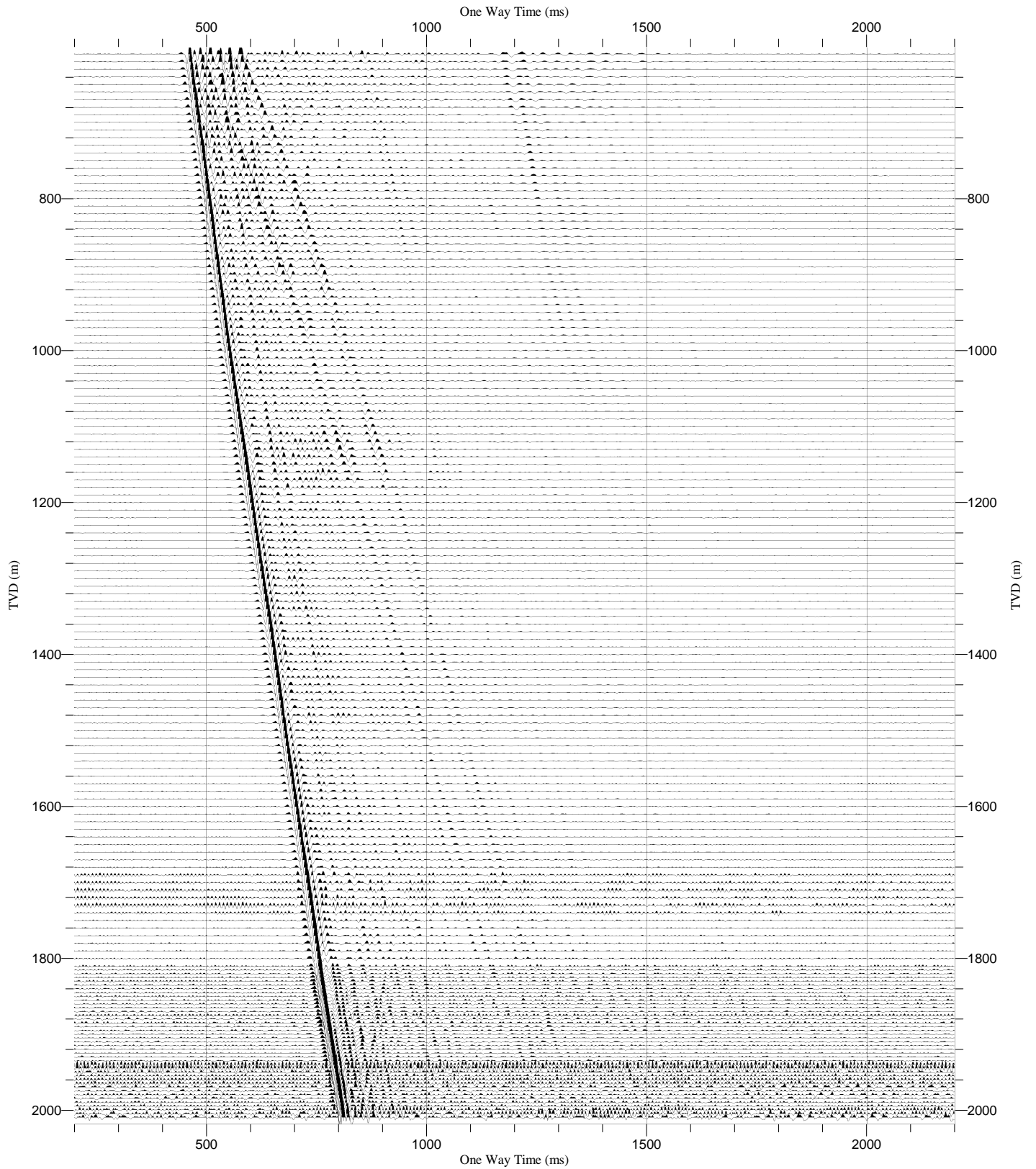
| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|--------------------|
| 1730.0 | 7 | 15 | -17.2 | 3.2 | 692.5 | 82 |
| 1740.0 | 8 | 15 | -39.6 | 3.1 | 734.1 | 82 |
| 1750.0 | 3 | 14 | -2.4 | 3.0 | 662.7 | 72, 73, 74, 75, 76 |
| 1760.0 | 4 | 14 | -33.7 | 3.1 | 783.7 | 72, 73, 74, 75, 76 |
| 1770.0 | 5 | 14 | -13.9 | 3.2 | 683.7 | 72, 73, 74, 75, 76 |
| 1780.0 | 6 | 14 | 12.9 | 3.1 | 741.8 | 72, 73, 74, 75, 76 |
| 1790.0 | 7 | 14 | 10.3 | 3.2 | 671.1 | 72, 73, 74, 75, 76 |
| 1800.0 | 8 | 14 | -26.1 | 3.1 | 698.3 | 72, 73, 74, 75, 76 |
| 1810.0 | 3 | 13 | -22.5 | 3.0 | 666.0 | 53, 54, 55, 56 |
| 1815.0 | 3 | 12 | -21.3 | 2.9 | 659.1 | 48, 49, 50, 51, 52 |
| 1820.0 | 4 | 13 | -36.2 | 3.1 | 770.8 | 53, 54, 55, 56 |
| 1825.0 | 4 | 12 | -36.2 | 3.1 | 769.9 | 48, 49, 50, 51, 52 |
| 1830.0 | 5 | 13 | -44.0 | 3.2 | 659.2 | 53, 54, 55, 56 |
| 1835.0 | 5 | 12 | -28.4 | 3.2 | 654.4 | 48, 49, 50, 51, 52 |
| 1840.0 | 6 | 13 | -43.2 | 3.1 | 744.5 | 53, 54, 55, 56 |
| 1845.0 | 6 | 12 | -38.6 | 3.1 | 745.2 | 48, 49, 50, 51, 52 |
| 1850.0 | 7 | 13 | -98.5 | 3.2 | 694.9 | 53, 54, 55, 56 |
| 1855.0 | 7 | 12 | -107.8 | 3.2 | 669.9 | 48, 49, 50, 51, 52 |
| 1860.0 | 8 | 13 | -161.4 | 3.1 | 705.3 | 53, 54, 55, 56 |
| 1865.0 | 8 | 12 | -161.5 | 3.1 | 702.4 | 48, 49, 50, 51, 52 |
| 1870.0 | 2 | 10 | -8.4 | 2.8 | 711.3 | 37, 38, 39, 40, 41 |
| 1875.0 | 3 | 11 | 111.5 | 3.0 | 649.4 | 43, 44, 45, 46, 47 |
| 1880.0 | 3 | 10 | 67.3 | 2.9 | 651.9 | 37, 38, 39, 40, 41 |
| 1885.0 | 3 | 9 | 42.5 | 2.9 | 649.8 | 32, 33, 34, 35, 36 |
| 1890.0 | 4 | 10 | -23.0 | 3.1 | 764.3 | 37, 38, 39, 40, 41 |
| 1895.0 | 4 | 9 | -29.3 | 3.2 | 773.2 | 32, 33, 34, 35, 36 |
| 1900.0 | 5 | 10 | 83.6 | 3.2 | 654.7 | 37, 38, 39, 40, 41 |
| 1905.0 | 5 | 9 | 49.3 | 3.2 | 659.9 | 32, 33, 34, 35, 36 |

Shot Summary Listing (6/6)

| Measured Depth [m] | Tool Number | Stack Number | Relative Bearing [deg] | Caliper [in] | Anchoring force [kg] | Shot number |
|--------------------|-------------|--------------|------------------------|--------------|----------------------|------------------------------------|
| 1910.0 | 6 | 10 | 92.7 | 3.1 | 725.5 | 37, 38, 39, 40, 41 |
| 1915.0 | 7 | 11 | -115.4 | 3.2 | 662.0 | 43, 44, 45, 46, 47 |
| 1920.0 | 7 | 10 | 107.4 | 3.2 | 674.8 | 37, 38, 39, 40, 41 |
| 1925.0 | 8 | 11 | 179.0 | 3.1 | 698.5 | 43, 44, 45, 46, 47 |
| 1930.0 | 8 | 10 | 75.0 | 3.1 | 692.8 | 37, 38, 39, 40, 41 |
| 1935.0 | 8 | 9 | 26.9 | 3.1 | 672.3 | 32, 33, 34, 35, 36 |
| 1940.0 | 3 | 8 | -78.4 | 3.0 | 636.0 | 23, 24, 25, 26, 27, 28, 29, 30, 31 |
| 1945.0 | 3 | 7 | -85.3 | 3.0 | 632.9 | 20, 21, 22 |
| 1950.0 | 3 | 6 | -97.0 | 3.0 | 628.6 | 17, 18, 19 |
| 1955.0 | 4 | 7 | 177.3 | 3.1 | 756.2 | 20, 21, 22 |
| 1960.0 | 5 | 8 | -78.3 | 3.2 | 655.8 | 23, 24, 25, 26, 27, 28, 29, 30, 31 |
| 1965.0 | 5 | 7 | -78.5 | 3.2 | 643.1 | 20, 21, 22 |
| 1970.0 | 4 | 4 | 170.2 | 3.1 | 699.6 | 11, 12, 13 |
| 1975.0 | 5 | 5 | -118.9 | 3.2 | 521.7 | 14, 15, 16 |
| 1980.0 | 5 | 4 | -161.9 | 3.2 | 664.9 | 11, 12, 13 |
| 1985.0 | 6 | 5 | -86.3 | 3.2 | 715.7 | 14, 15, 16 |
| 1990.0 | 8 | 8 | -111.5 | 3.1 | 697.2 | 23, 24, 25, 26, 27, 28, 29, 30, 31 |
| 1995.0 | 8 | 7 | -111.5 | 3.1 | 684.8 | 20, 21, 22 |
| 2000.0 | 8 | 6 | -122.6 | 3.1 | 678.7 | 17, 18, 19 |
| 2005.0 | 8 | 5 | -147.4 | 3.1 | 672.9 | 14, 15, 16 |
| 2010.0 | 8 | 4 | 140.2 | 3.1 | 660.6 | 11, 12, 13 |

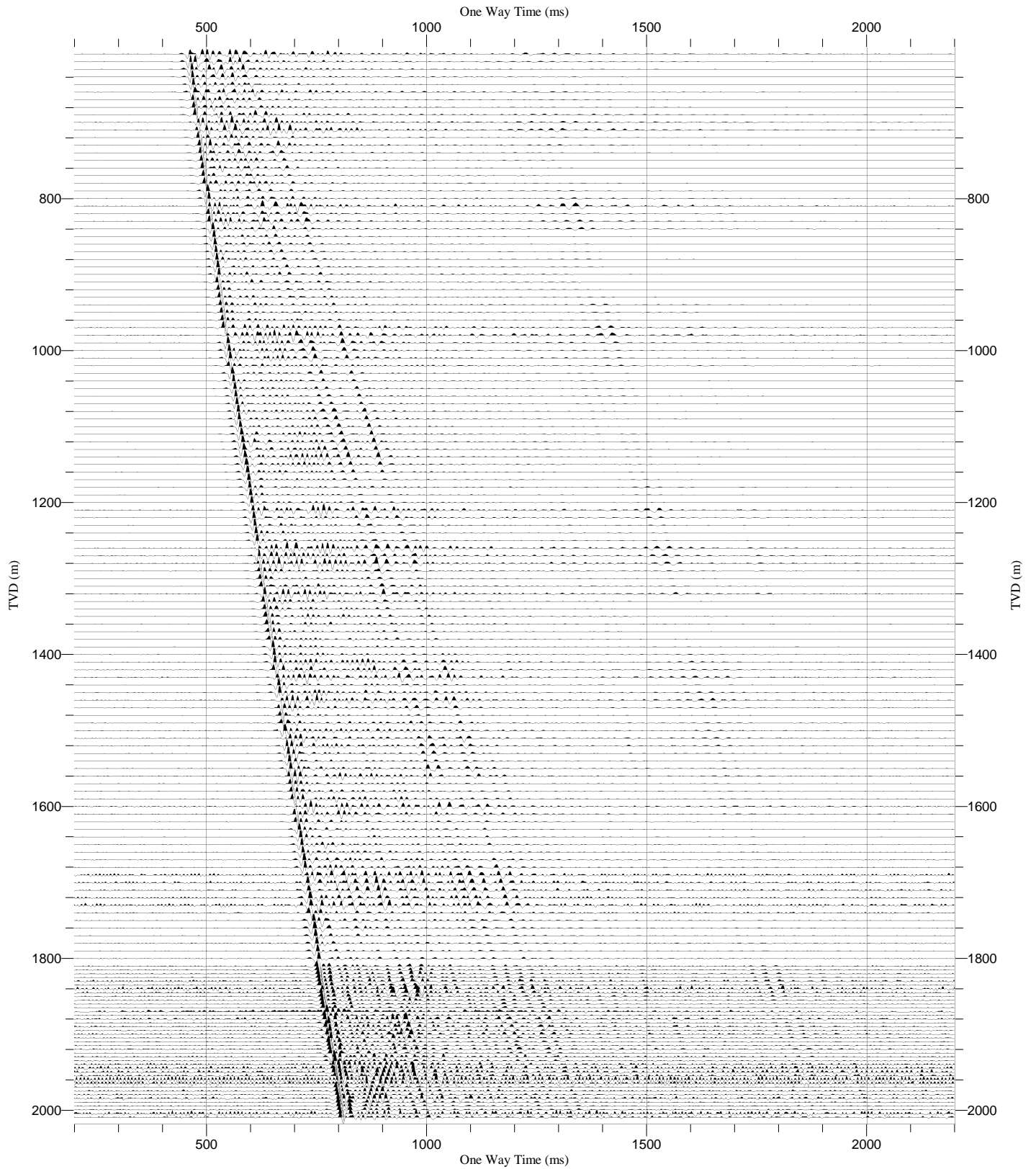
Raw Stack (Z)

Normalization Trace by Trace (200%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



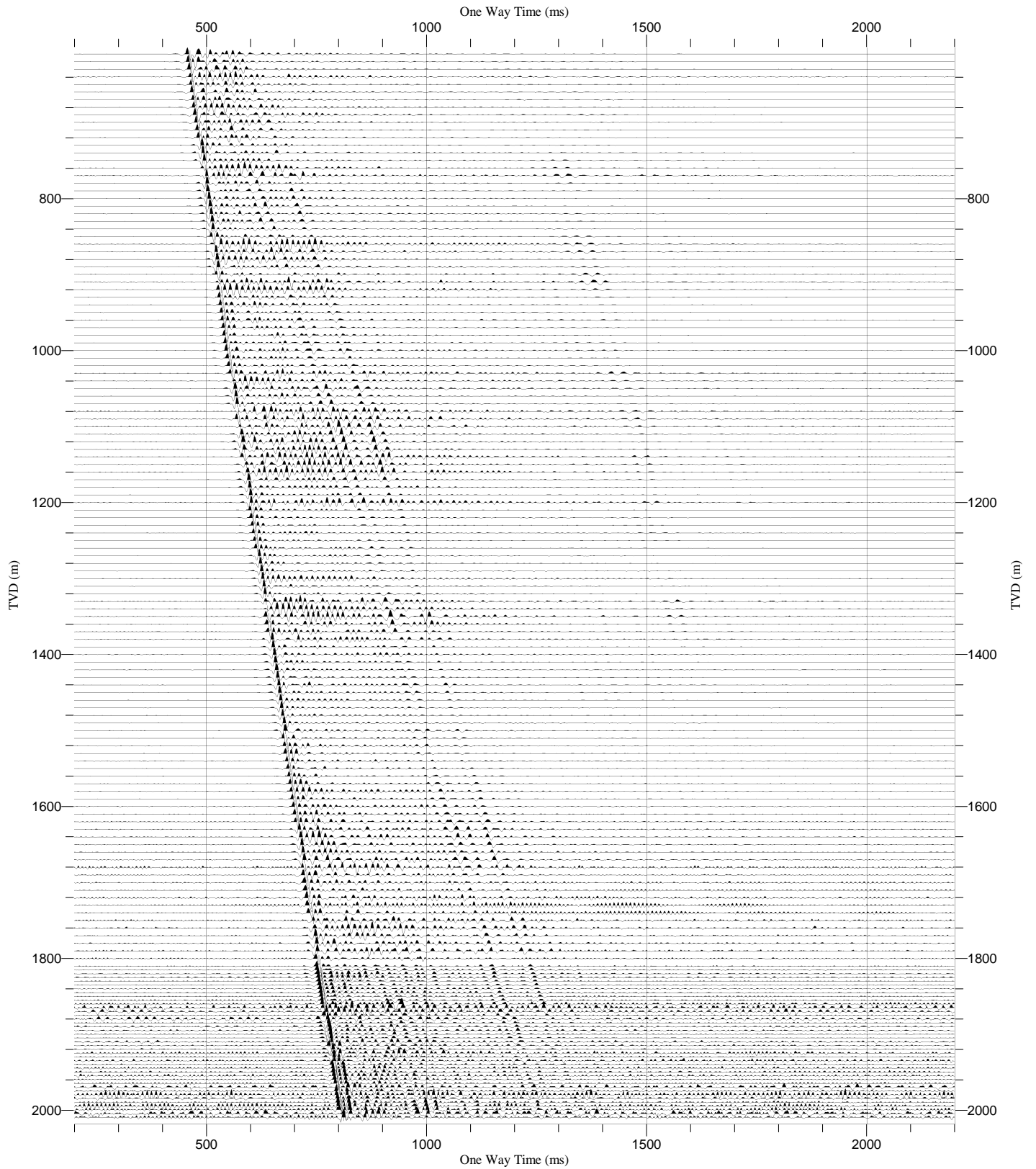
Raw Stack (X)

Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



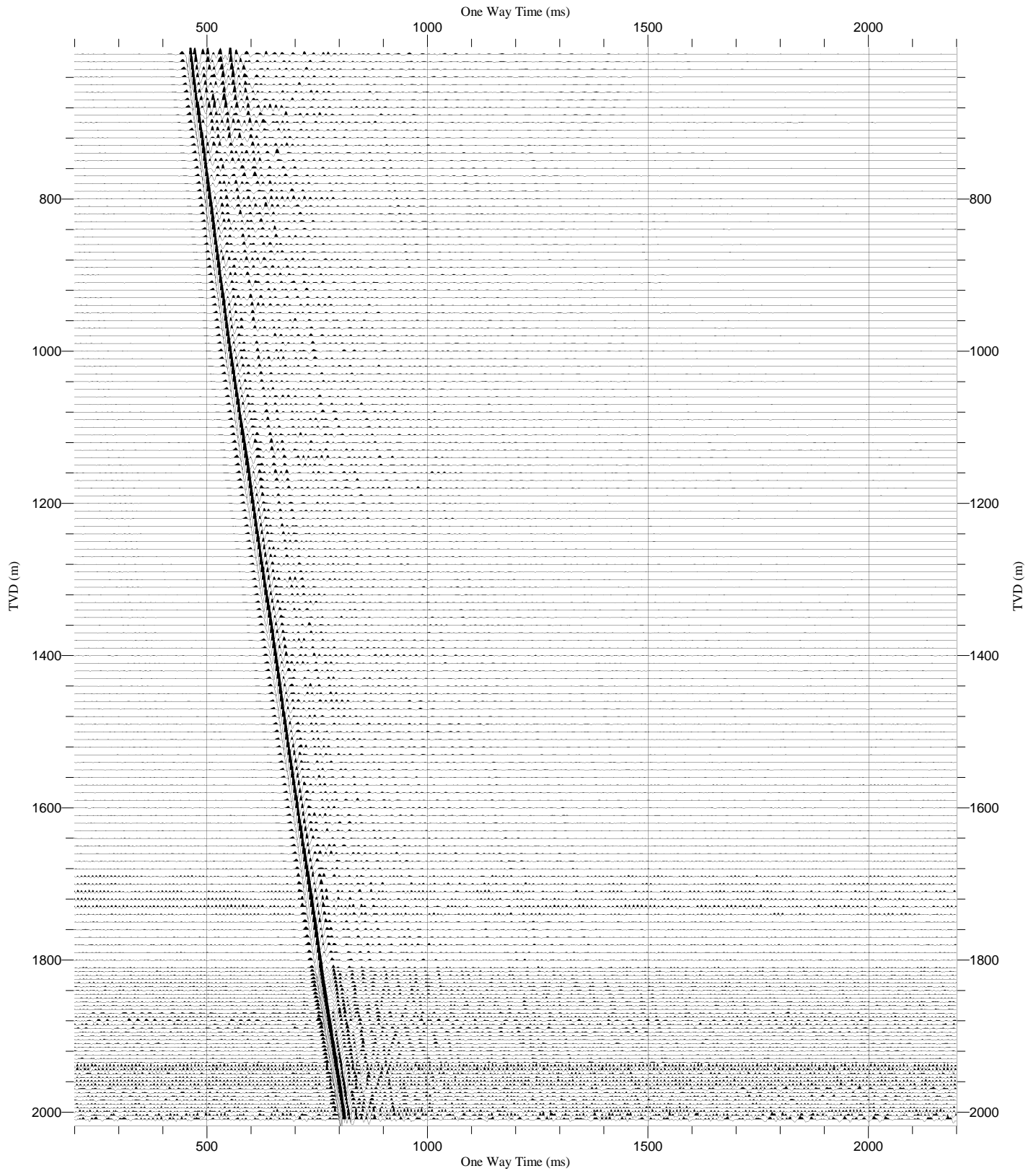
Raw Stack (Y)

Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



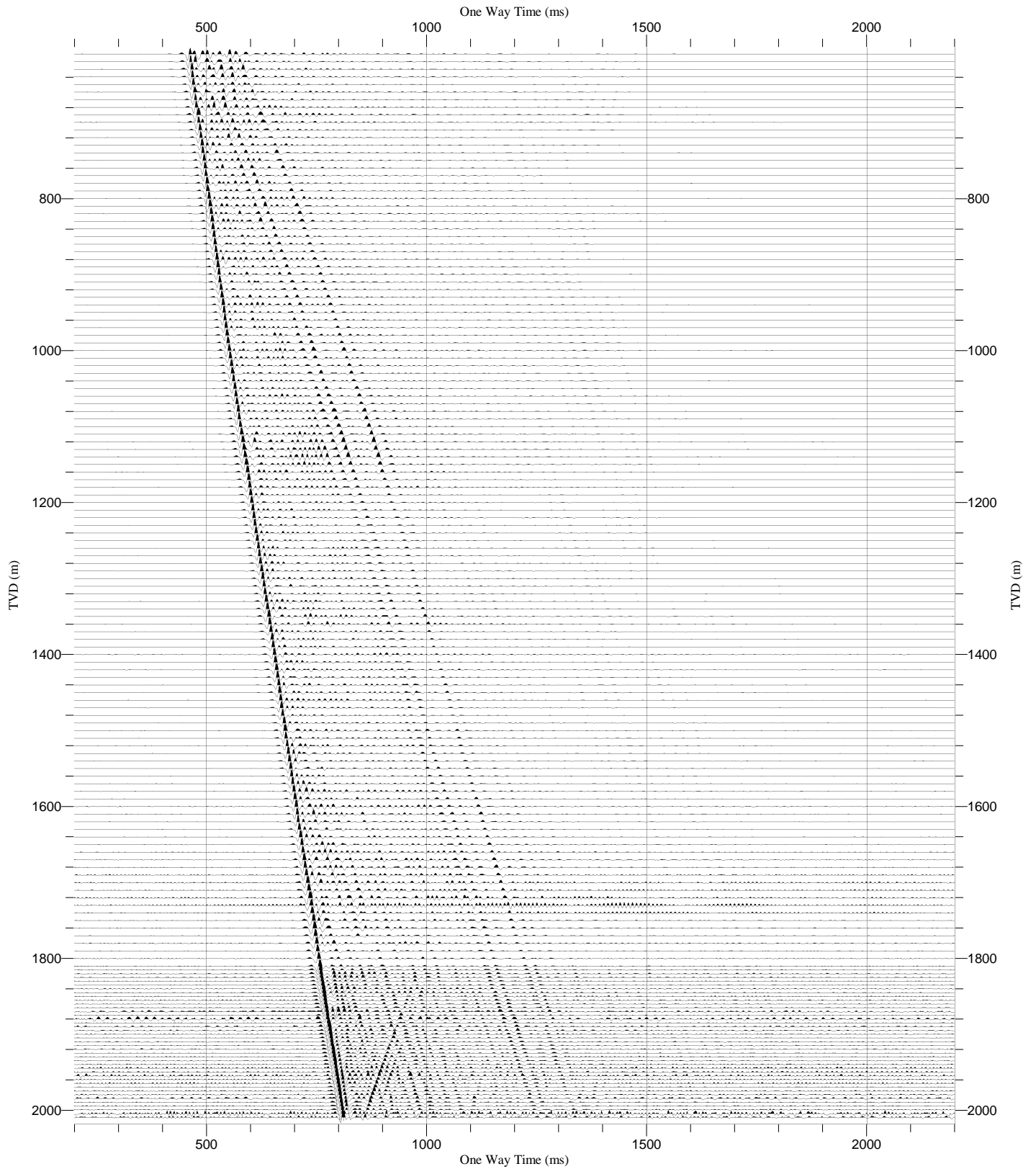
Raw Stack (TRY)

Normalization Trace by Trace (200%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



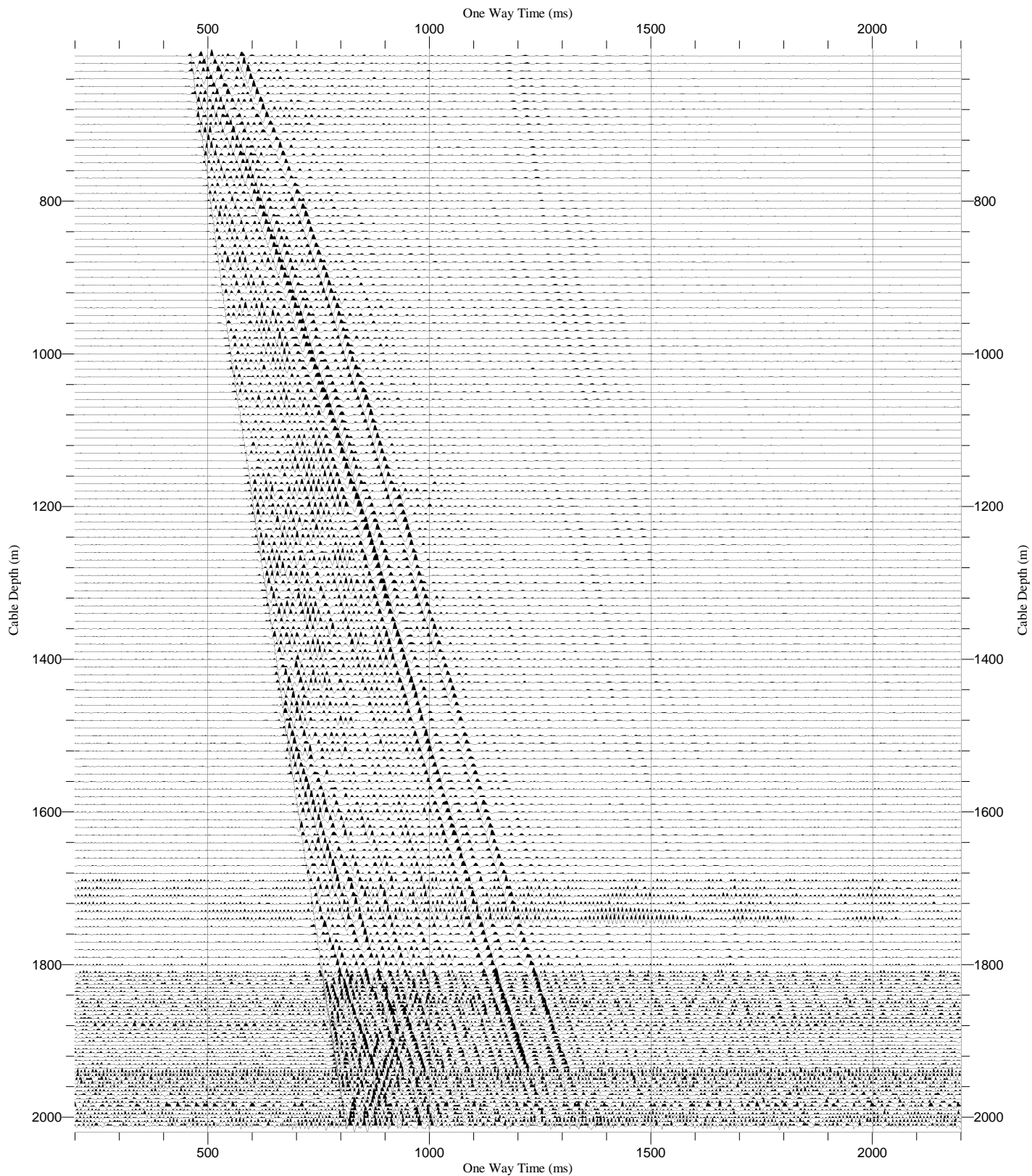
Raw Stack (HMX)

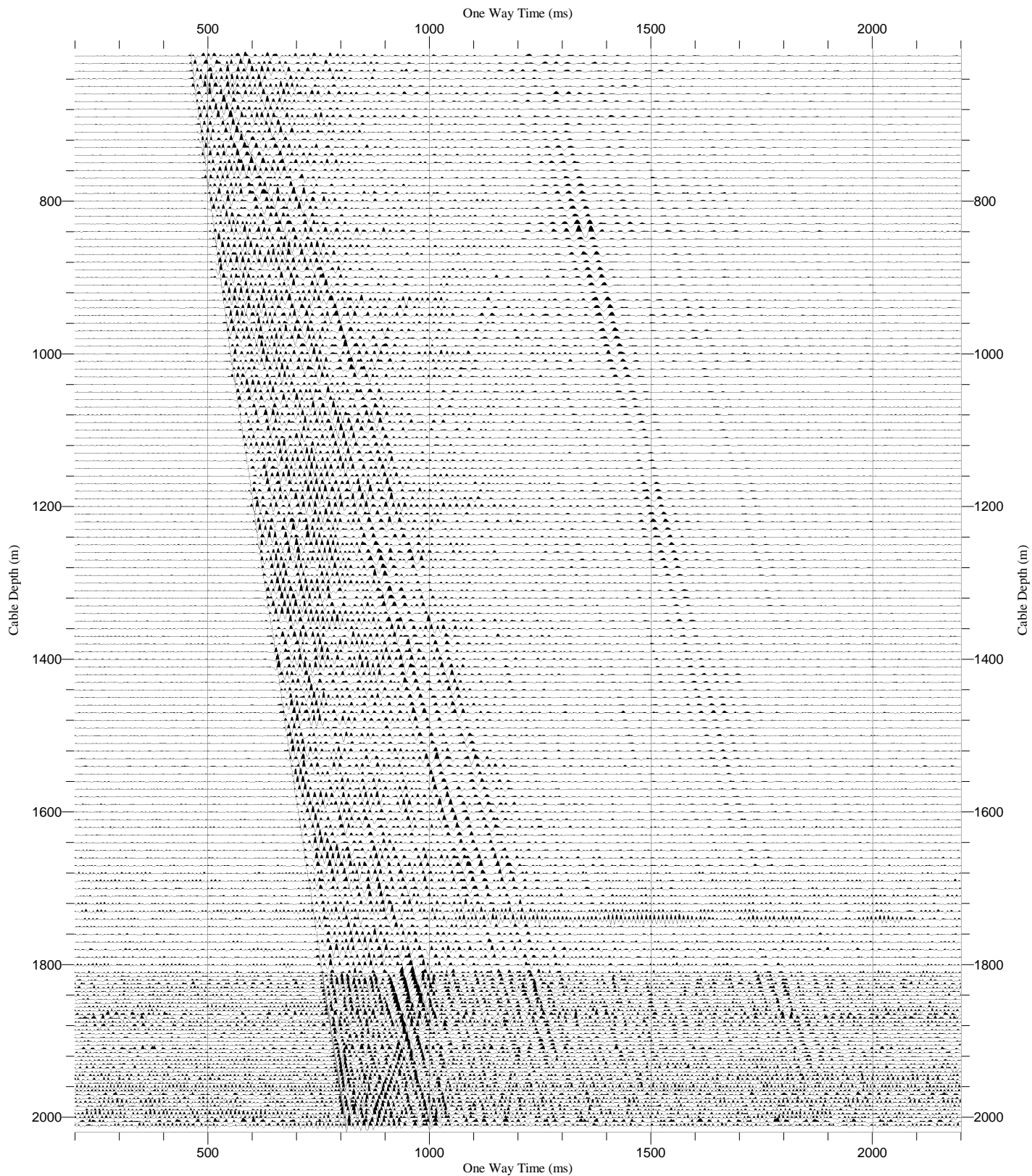
Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170



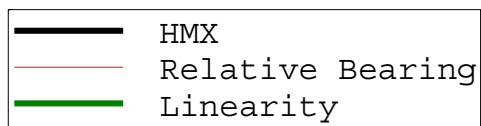
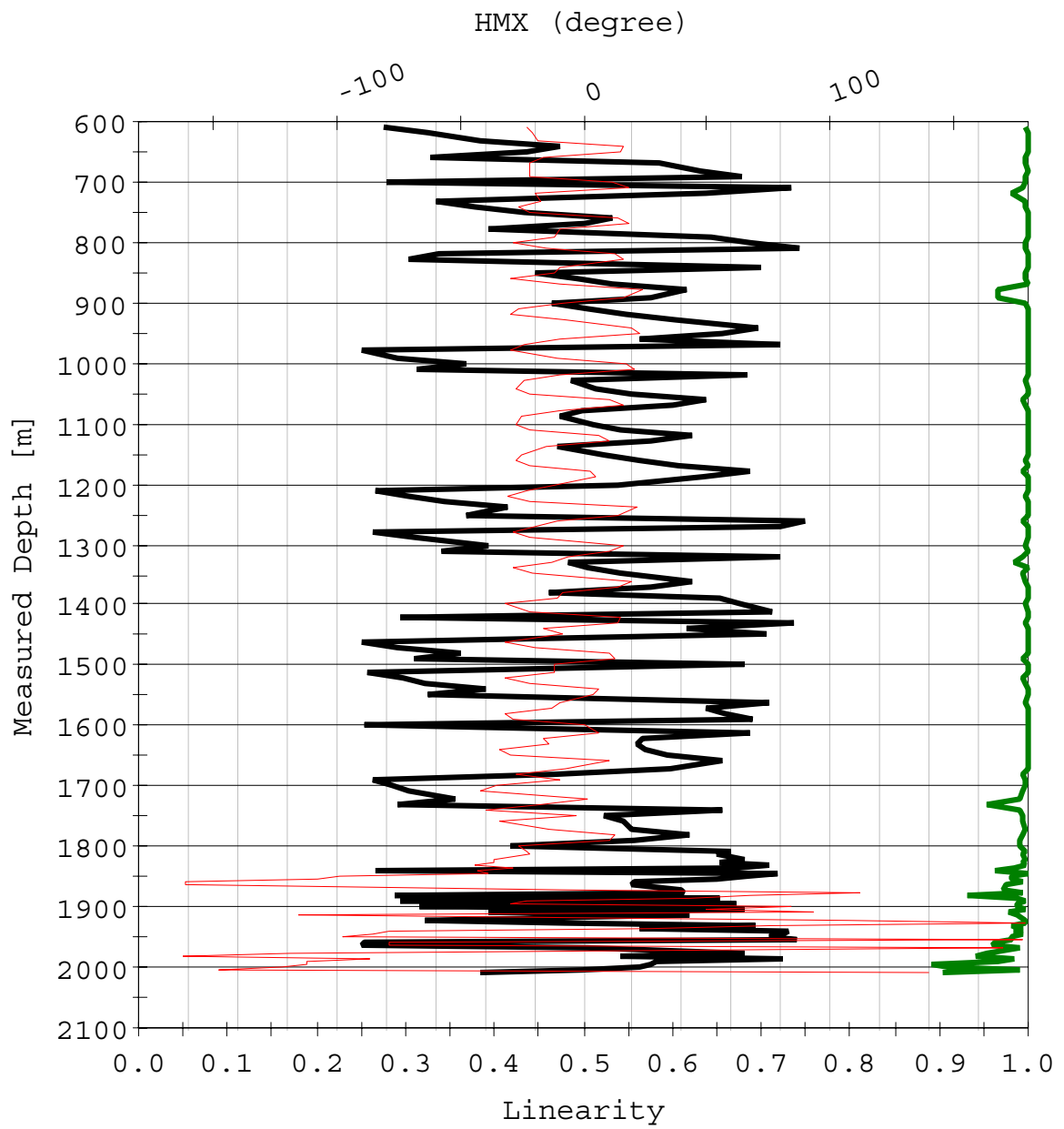
NRY

Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 8.1 cm/sec, 1/7170

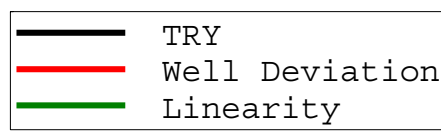
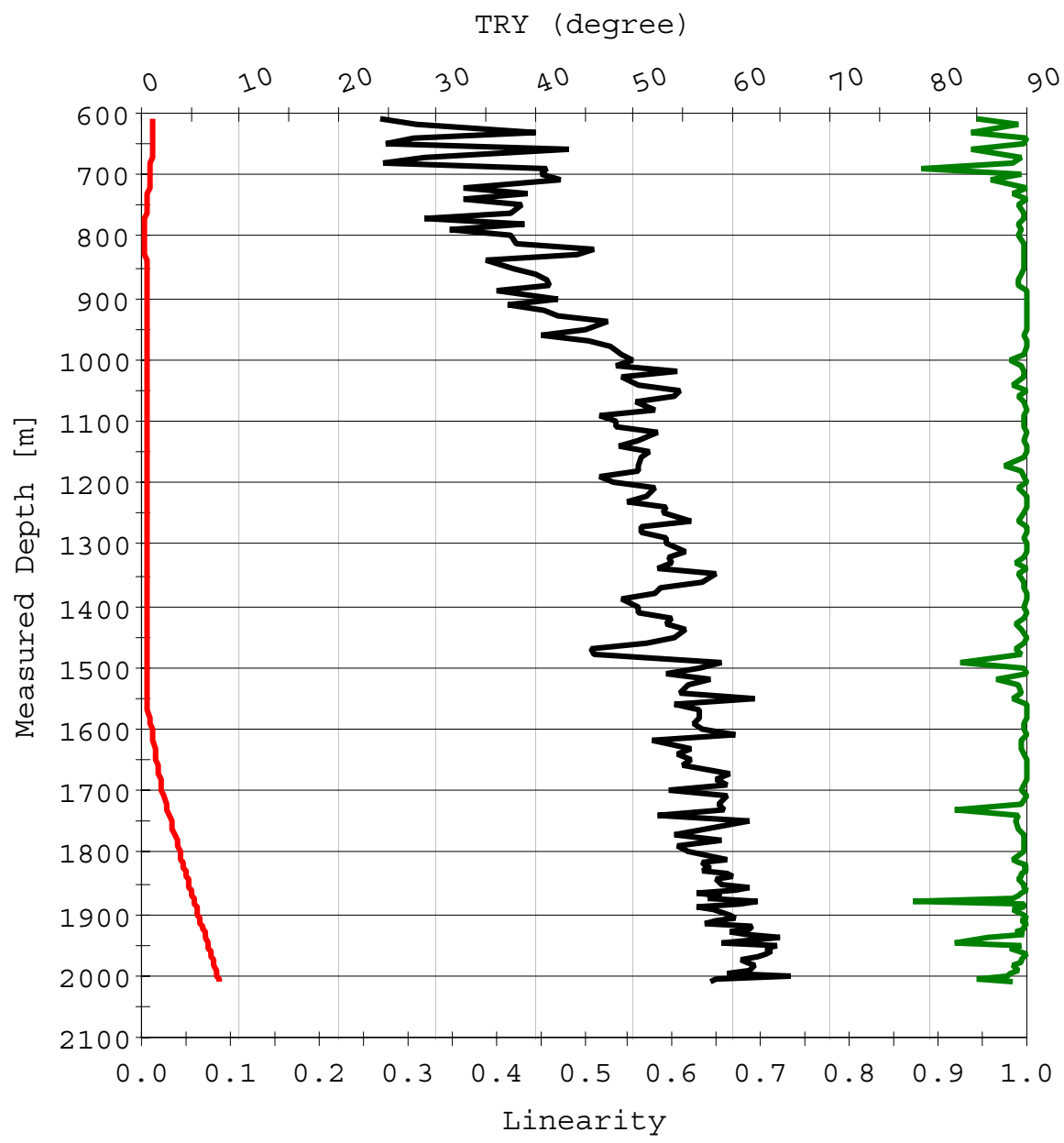




HMX Angle



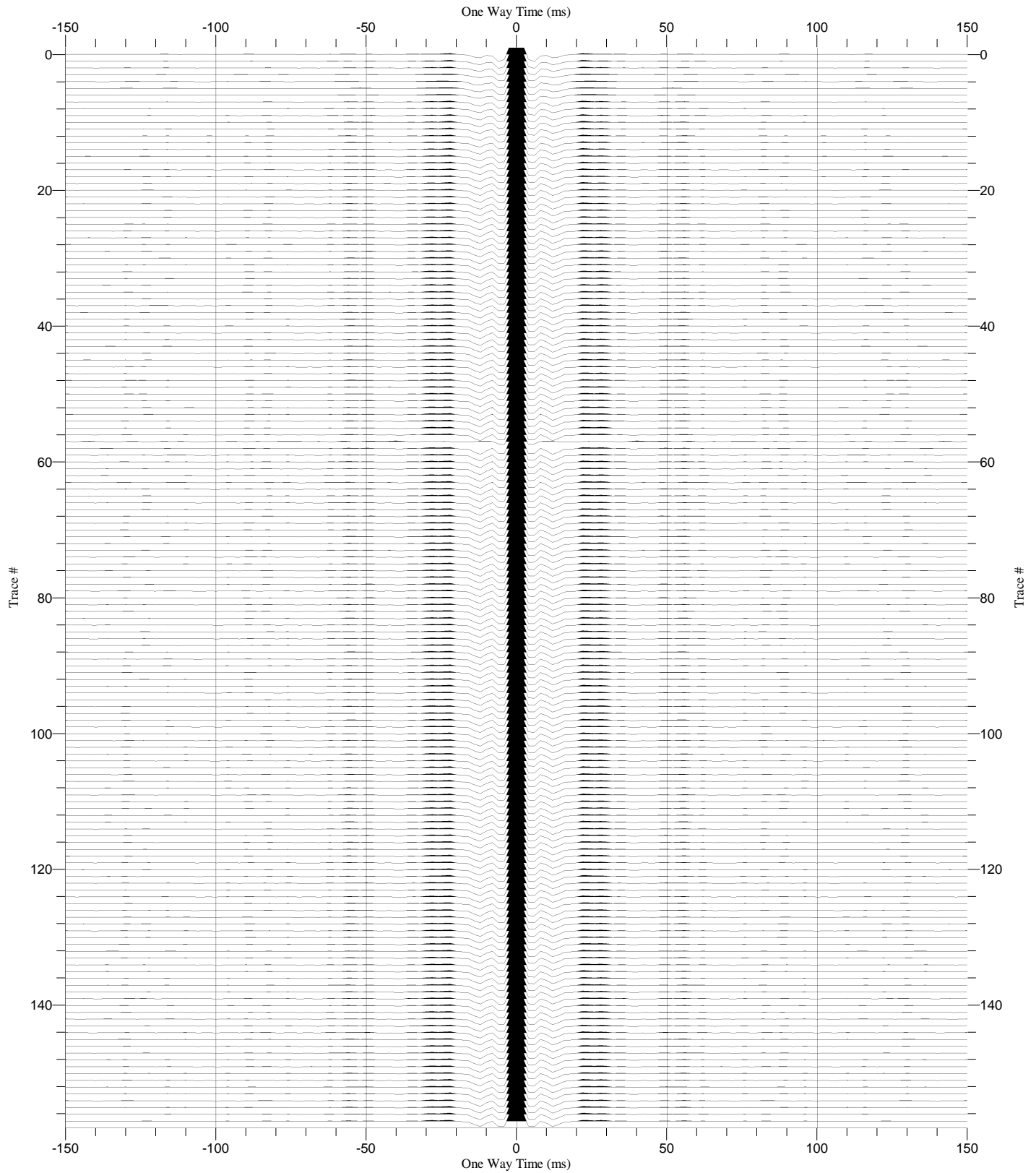
TRY Angle



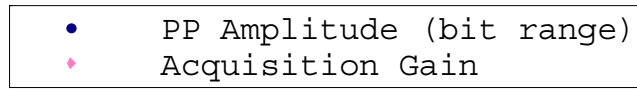
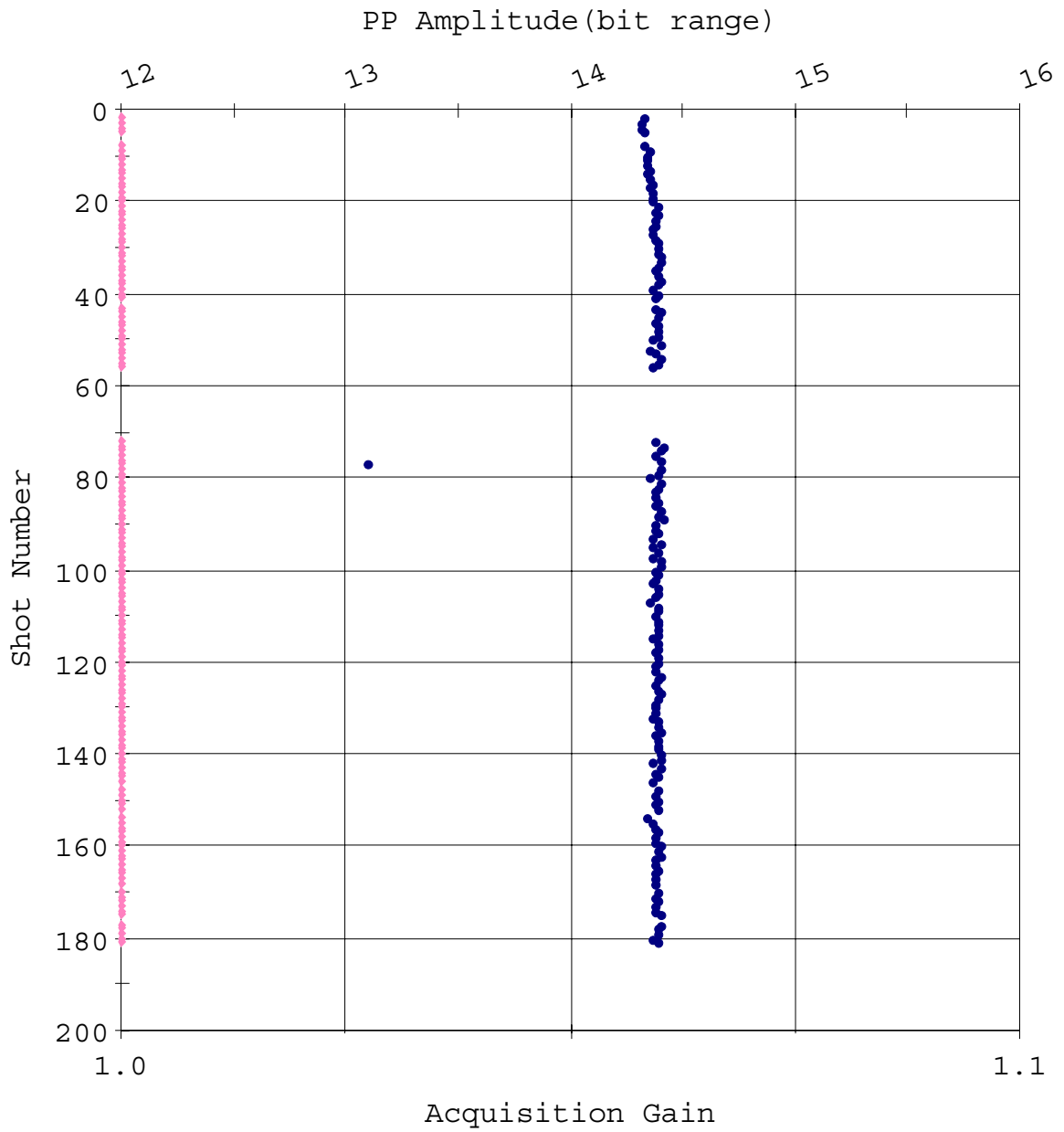
Source Signature QC Report Offset VSP

Source Sensor Signature

Normalization Trace by Trace (300%)
Polarity Normal
One Way Time (ms)
Scaling 55.03 cm/sec, 8.05/cm

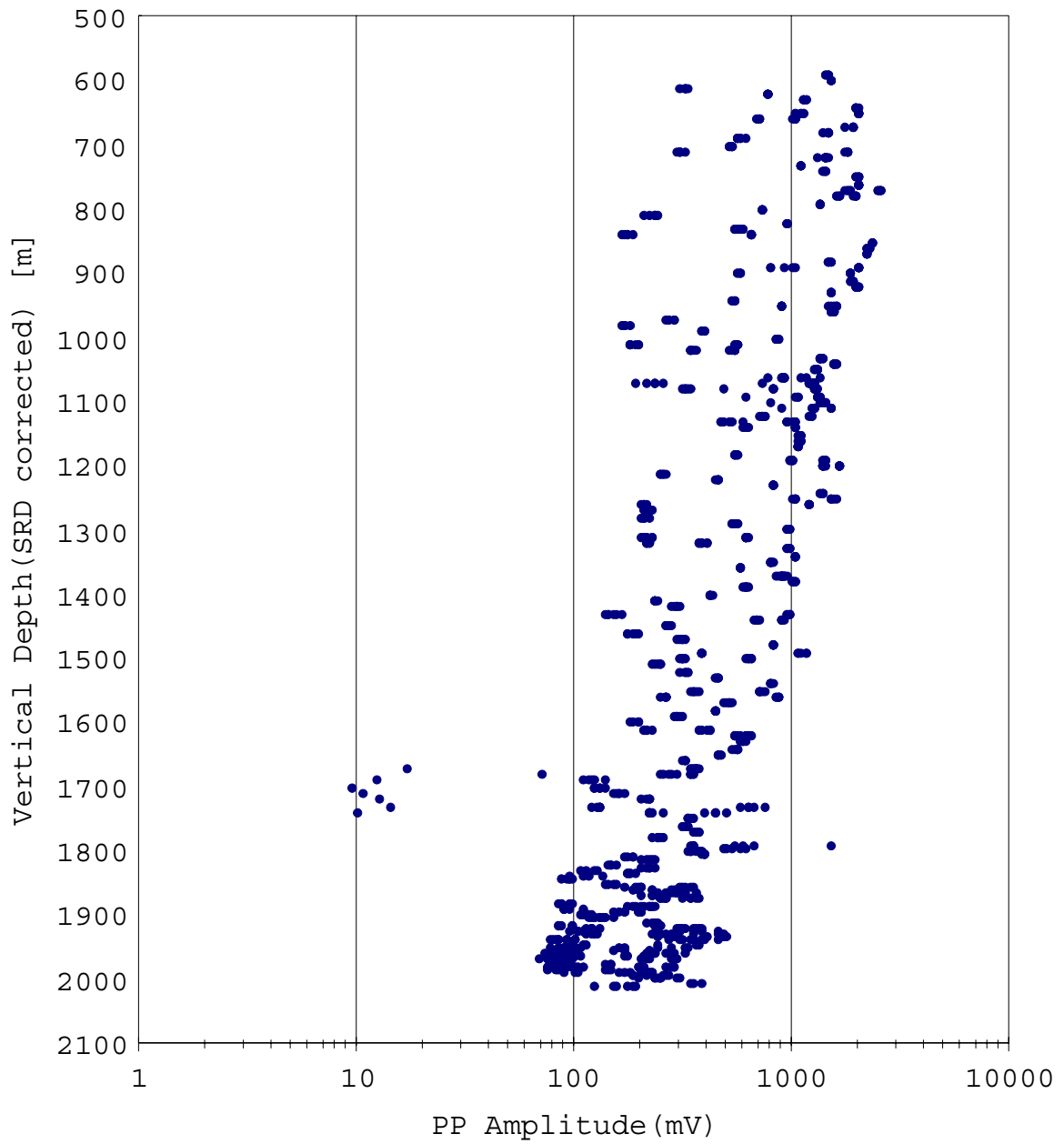


Amplitude QC Plot (Surface)



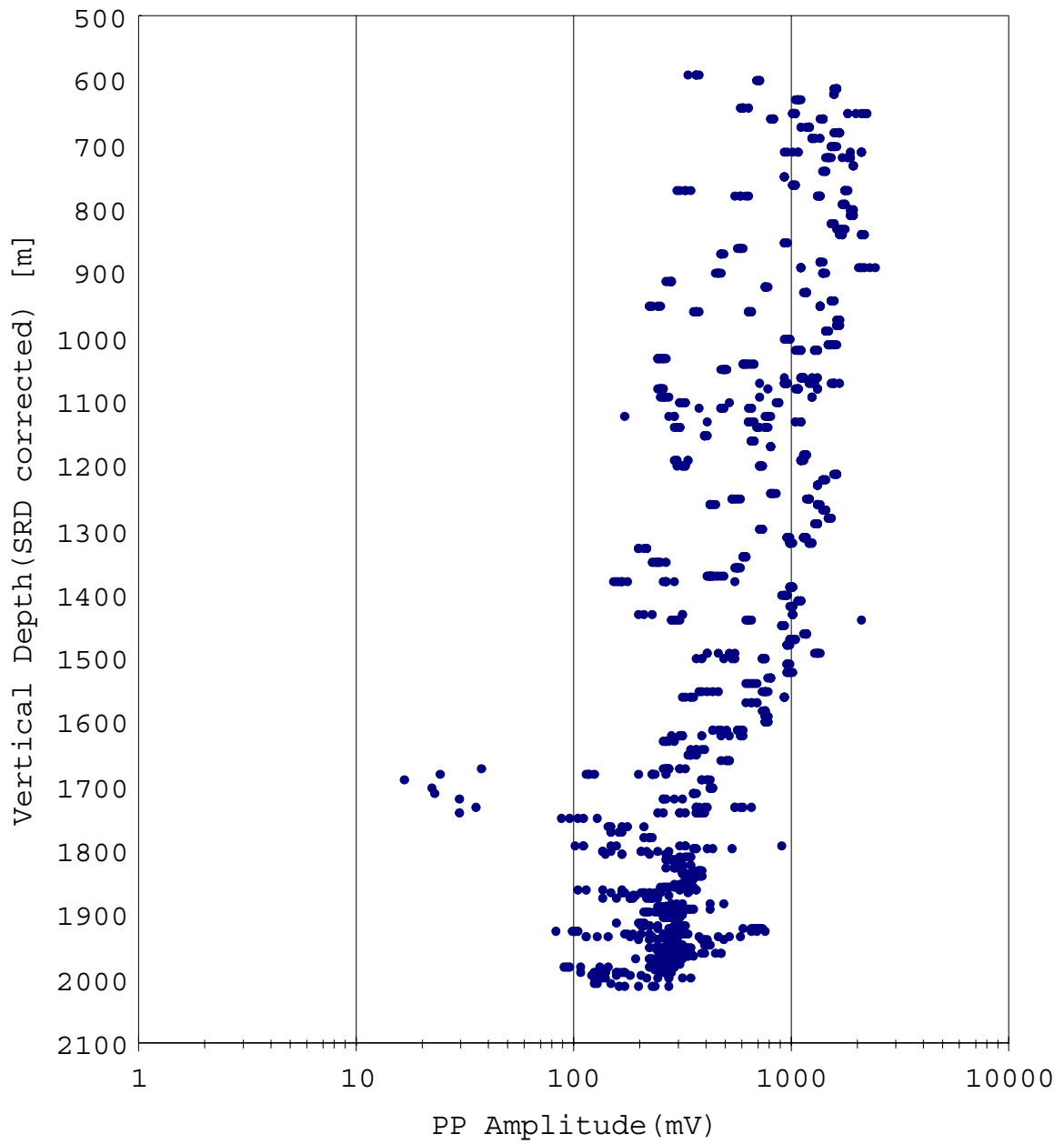
Amplitude QC Report Offset VSP

Peak To Peak Plot (X)



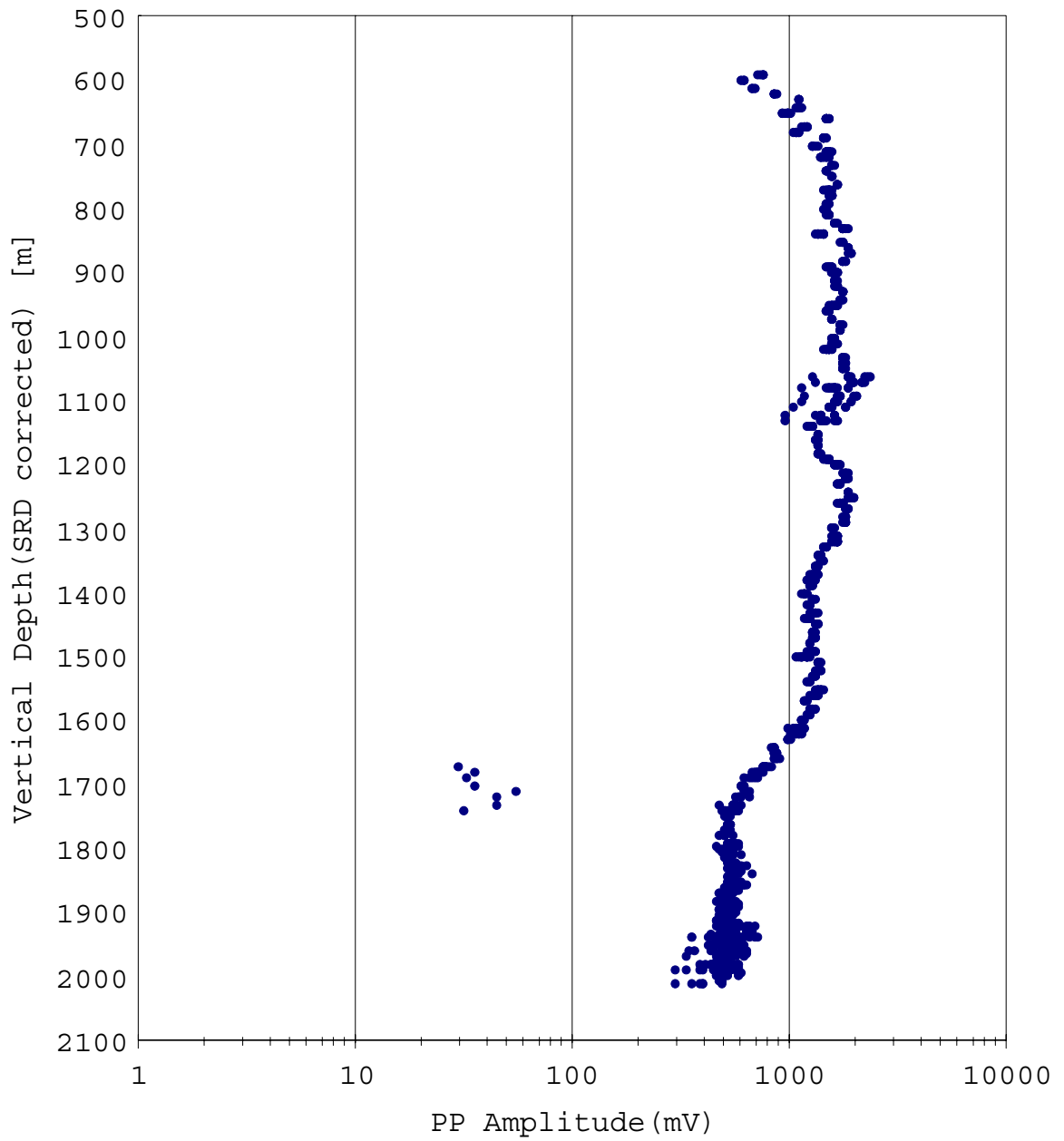
• PP Amplitude (mV)

Peak To Peak Plot (Y)



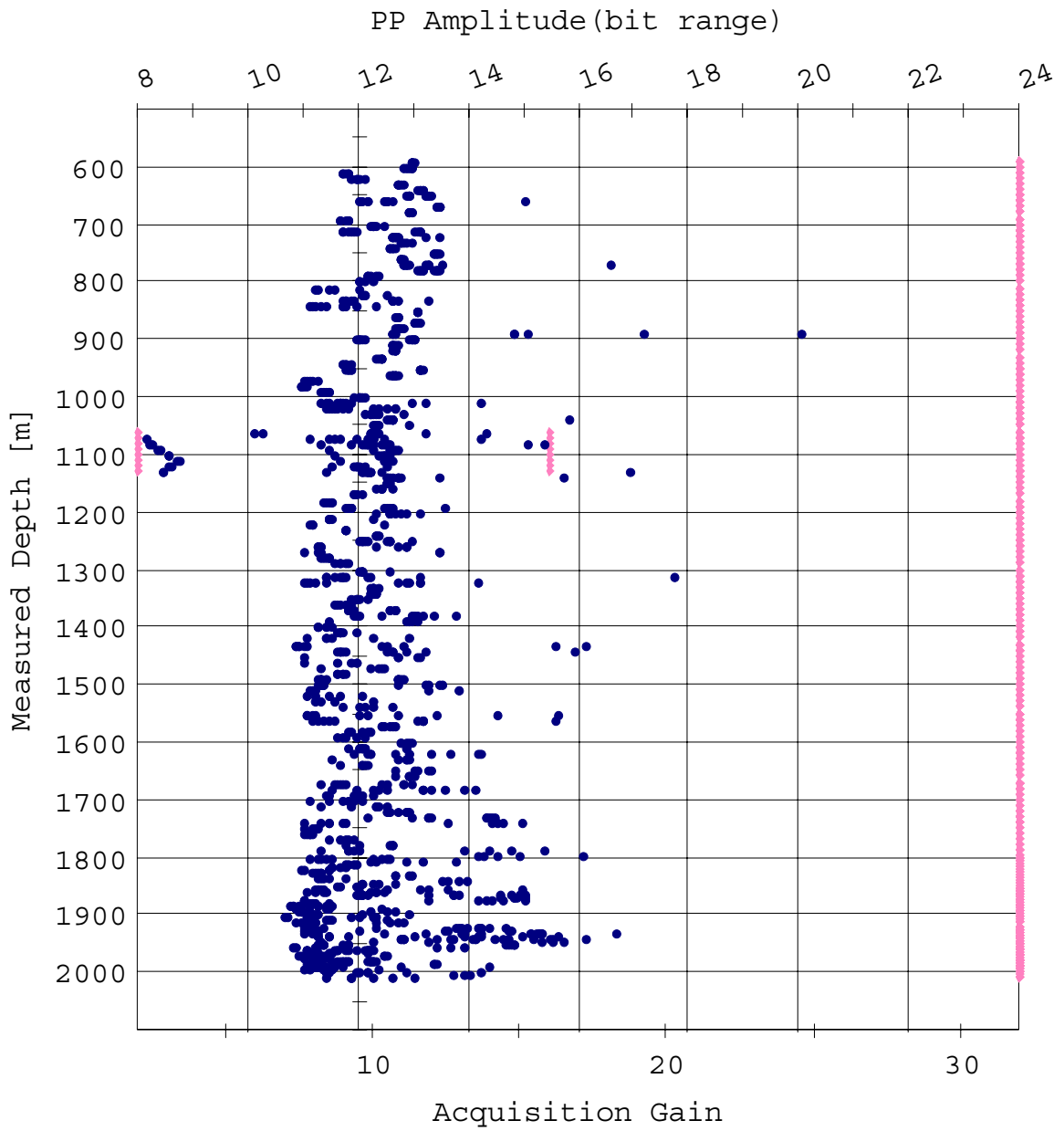
• PP Amplitude (mV)

Peak To Peak Plot (Z)



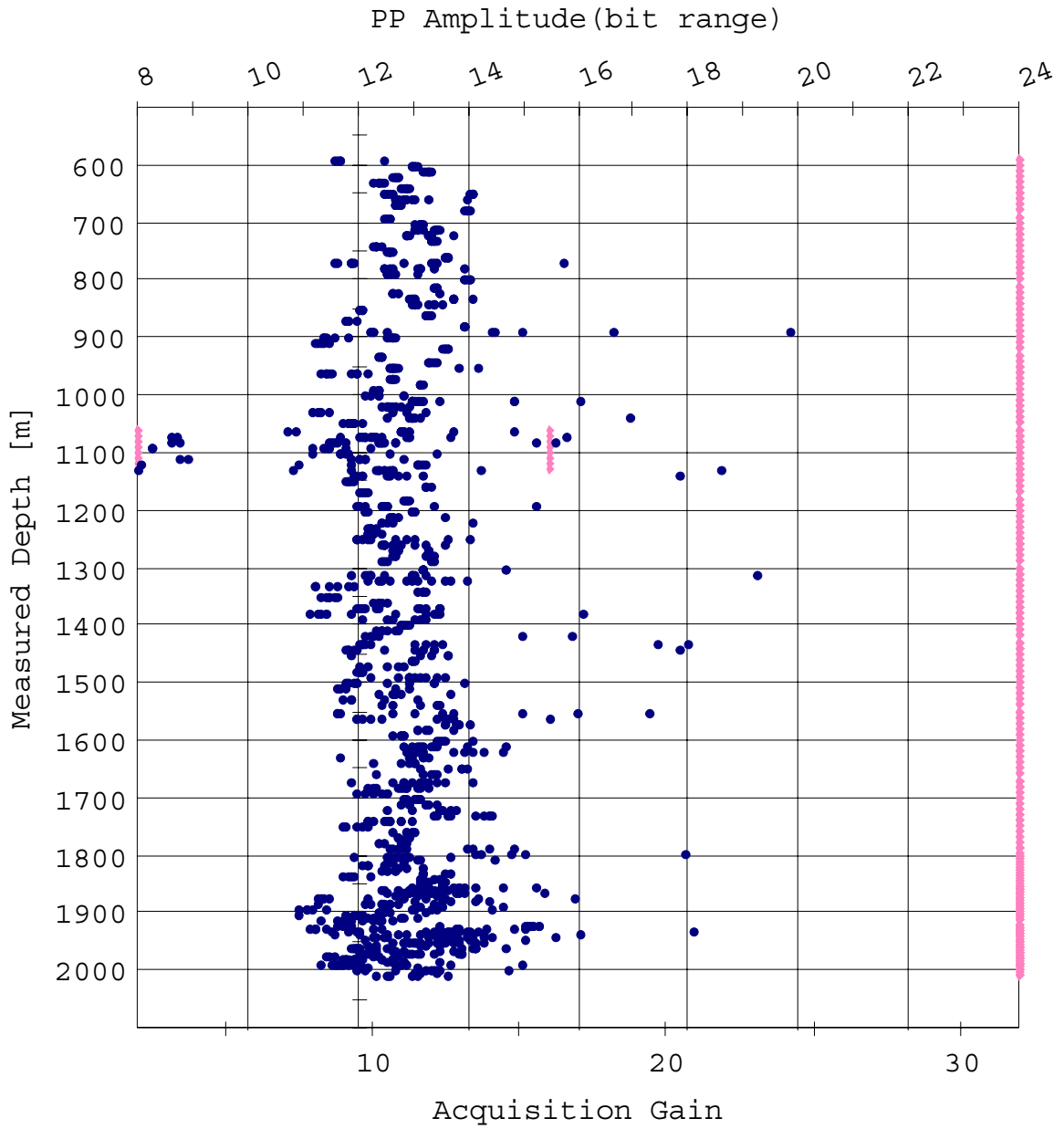
• PP Amplitude (mV)

Amplitude QC Plot (X)



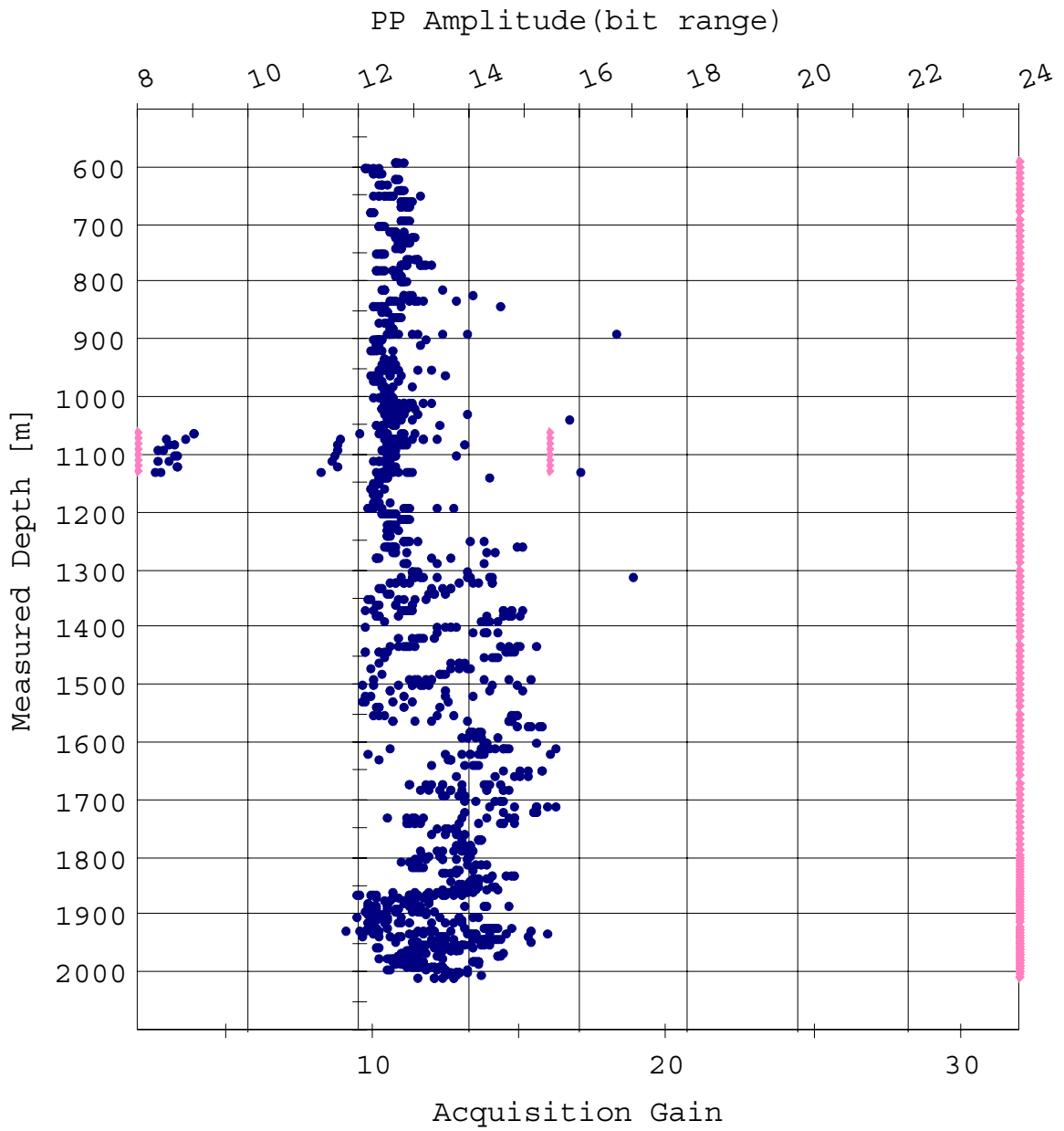
- PP Amplitude (bit range)
- ◆ Acquisition Gain

Amplitude QC Plot (Y)



- PP Amplitude (bit range)
- ◆ Acquisition Gain

Amplitude QC Plot (Z)



- PP Amplitude (bit range)
- ◆ Acquisition Gain

Shot and Observer Report Offset VSP

Observer's Note (1/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Source | Remarks |
|----------------|----------|-----------|-------|--------|--------|-----------------|
| 1130.0 | 13:06:23 | SHAK | 1 | | | |
| 1130.0 | 13:07:03 | SHOT | 2 | 1 | A | 10-150 Hz sweep |
| 1130.0 | 13:08:52 | SHOT | 3 | 1 | A | 10-150 Hz sweep |
| 1130.0 | 13:11:29 | SHOT | 4 | 1 | A | 10-150 Hz sweep |
| 1130.0 | 13:13:35 | SHOT | 5 | 2 | A | 10-250 Hz Sweep |
| 2010.0 | 13:55:08 | SHAK | 6 | | | |
| 2010.0 | 13:55:53 | BKGD | 7 | | | |
| 2010.0 | 13:56:22 | SHOT | 8 | 3 | A | 10-200 Hz sweep |
| 2010.0 | 13:57:57 | SHOT | 9 | 3 | A | 10-250 Hz sweep |
| 2010.0 | 13:59:45 | SHOT | 10 | 3 | A | 10-250 Hz sweep |
| 2010.0 | 14:02:45 | SHOT | 11 | 4 | A | 10-150 Hz Sweep |
| 2010.0 | 14:04:28 | SHOT | 12 | 4 | A | |
| 2010.0 | 14:05:10 | SHOT | 13 | 4 | A | |
| 2005.0 | 14:12:07 | SHOT | 14 | 5 | A | |
| 2005.0 | 14:13:25 | SHOT | 15 | 5 | A | |
| 2005.0 | 14:14:33 | SHOT | 16 | 5 | A | |
| 2000.0 | 14:19:46 | SHOT | 17 | 6 | A | |
| 2000.0 | 14:20:29 | SHOT | 18 | 6 | A | |
| 2000.0 | 14:21:12 | SHOT | 19 | 6 | A | |
| 1995.0 | 14:27:28 | SHOT | 20 | 7 | A | |
| 1995.0 | 14:29:07 | SHOT | 21 | 7 | A | |
| 1995.0 | 14:29:51 | SHOT | 22 | 7 | A | |
| 1990.0 | 14:34:36 | SHOT | 23 | 8 | A | |
| 1990.0 | 14:35:17 | SHOT | 24 | 8 | A | |
| 1990.0 | 14:36:07 | SHOT | 25 | 8 | A | |
| 1990.0 | 14:37:04 | SHOT | 26 | 8 | A | |
| 1990.0 | 14:38:08 | SHOT | 27 | 8 | A | |
| 1990.0 | 14:38:47 | SHOT | 28 | 8 | A | |
| 1990.0 | 14:39:27 | SHOT | 29 | 8 | A | |
| 1990.0 | 14:40:06 | SHOT | 30 | 8 | A | |
| 1990.0 | 14:40:47 | SHOT | 31 | 8 | A | |
| 1935.0 | 14:49:30 | SHOT | 32 | 9 | A | |
| 1935.0 | 14:50:17 | SHOT | 33 | 9 | A | |
| 1935.0 | 14:50:56 | SHOT | 34 | 9 | A | |
| 1935.0 | 14:51:38 | SHOT | 35 | 9 | A | |
| 1935.0 | 14:52:30 | SHOT | 36 | 9 | A | |
| 1930.0 | 14:57:52 | SHOT | 37 | 10 | A | |
| 1930.0 | 14:58:38 | SHOT | 38 | 10 | A | |
| 1930.0 | 14:59:26 | SHOT | 39 | 10 | A | |
| 1930.0 | 15:00:24 | SHOT | 40 | 10 | A | |
| 1930.0 | 15:01:03 | SHOT | 41 | 10 | A | |
| 1925.0 | 15:10:24 | SHAK | 42 | | | |
| 1925.0 | 15:11:07 | SHOT | 43 | 11 | A | |
| 1925.0 | 15:12:35 | SHOT | 44 | 11 | A | |
| 1925.0 | 15:13:25 | SHOT | 45 | 11 | A | |
| 1925.0 | 15:14:01 | SHOT | 46 | 11 | A | |
| 1925.0 | 15:14:36 | SHOT | 47 | 11 | A | |
| 1865.0 | 15:21:06 | SHOT | 48 | 12 | A | |
| 1865.0 | 15:22:14 | SHOT | 49 | 12 | A | |
| 1865.0 | 15:23:01 | SHOT | 50 | 12 | A | |
| 1865.0 | 15:23:40 | SHOT | 51 | 12 | A | |
| 1865.0 | 15:24:18 | SHOT | 52 | 12 | A | |
| 1860.0 | 15:29:14 | SHOT | 53 | 13 | A | |
| 1860.0 | 15:31:19 | SHOT | 54 | 13 | A | |
| 1860.0 | 15:32:11 | SHOT | 55 | 13 | A | |
| 1860.0 | 15:32:52 | SHOT | 56 | 13 | A | |
| 1860.0 | 15:34:33 | ENLO | 57 | | | |
| 1860.0 | 15:35:13 | ENHI | 58 | | | |
| 1860.0 | 15:35:38 | ETHD | 59 | | | |

Observer's Note (2/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Source | Remarks |
|----------------|----------|-----------|-------|--------|--------|-------------|
| 1860.0 | 15:36:10 | DRNG | 60 | | | |
| 1860.0 | 15:36:41 | GA02 | 61 | | | |
| 1860.0 | 15:36:57 | GA04 | 62 | | | |
| 1860.0 | 15:37:14 | GA08 | 63 | | | |
| 1860.0 | 15:37:30 | GA16 | 64 | | | |
| 1860.0 | 15:37:46 | GA32 | 65 | | | |
| 1860.0 | 15:38:18 | XTLK | 66 | | | |
| 1860.0 | 15:38:55 | XTLK | 67 | | | |
| 1860.0 | 15:39:31 | XTLK | 68 | | | |
| 1860.0 | 15:40:07 | EIMP | 69 | | | |
| 1860.0 | 15:40:46 | SHAK | 70 | | | |
| 1860.0 | 15:41:24 | BKGD | 71 | | | |
| 1800.0 | 15:47:42 | SHOT | 72 | 14 | A | |
| 1800.0 | 15:48:32 | SHOT | 73 | 14 | A | |
| 1800.0 | 15:49:09 | SHOT | 74 | 14 | A | |
| 1800.0 | 15:49:45 | SHOT | 75 | 14 | A | |
| 1800.0 | 15:50:22 | SHOT | 76 | 14 | A | |
| 1740.0 | 15:56:22 | SHOT | 77 | 15 | A | Miss Fire |
| 1740.0 | 15:57:05 | SHOT | 78 | 15 | A | |
| 1740.0 | 15:57:47 | SHOT | 79 | 15 | A | |
| 1740.0 | 15:58:32 | SHOT | 80 | 15 | A | |
| 1740.0 | 15:59:43 | SHOT | 81 | 15 | A | |
| 1740.0 | 16:00:23 | SHOT | 82 | 15 | A | |
| 1680.0 | 16:07:42 | SHOT | 83 | 16 | A | |
| 1680.0 | 16:08:31 | SHOT | 84 | 16 | A | |
| 1680.0 | 16:09:08 | SHOT | 85 | 16 | A | |
| 1680.0 | 16:10:21 | SHOT | 86 | 16 | A | |
| 1680.0 | 16:11:18 | SHOT | 87 | 16 | A | |
| 1620.0 | 16:18:08 | SHOT | 88 | 17 | A | |
| 1620.0 | 16:18:54 | SHOT | 89 | 17 | A | |
| 1620.0 | 16:19:42 | SHOT | 90 | 17 | A | |
| 1620.0 | 16:20:21 | SHOT | 91 | 17 | A | |
| 1620.0 | 16:20:59 | SHOT | 92 | 17 | A | |
| 1560.0 | 16:26:34 | SHOT | 93 | 18 | A | |
| 1560.0 | 16:27:17 | SHOT | 94 | 18 | A | |
| 1560.0 | 16:27:54 | SHOT | 95 | 18 | A | |
| 1560.0 | 16:28:40 | SHOT | 96 | 18 | A | |
| 1560.0 | 16:29:19 | SHOT | 97 | 18 | A | |
| 1500.0 | 16:34:42 | SHOT | 98 | 19 | A | |
| 1500.0 | 16:35:19 | SHOT | 99 | 19 | A | |
| 1500.0 | 16:35:57 | SHOT | 100 | 19 | A | |
| 1500.0 | 16:36:42 | SHOT | 101 | 19 | A | |
| 1500.0 | 16:37:19 | SHOT | 102 | 19 | A | |
| 1440.0 | 16:42:27 | SHOT | 103 | 20 | A | |
| 1440.0 | 16:43:06 | SHOT | 104 | 20 | A | |
| 1440.0 | 16:44:04 | SHOT | 105 | 20 | A | |
| 1440.0 | 16:44:40 | SHOT | 106 | 20 | A | SPIKE NOISE |
| 1440.0 | 16:45:27 | SHOT | 107 | 20 | A | |
| 1440.0 | 16:46:07 | SHOT | 108 | 20 | A | |
| 1380.0 | 16:51:34 | SHOT | 109 | 21 | A | |
| 1380.0 | 16:52:12 | SHOT | 110 | 21 | A | SP NOISE |
| 1380.0 | 16:53:00 | SHOT | 111 | 21 | A | |
| 1380.0 | 16:53:45 | SHOT | 112 | 21 | A | |
| 1380.0 | 16:54:22 | SHOT | 113 | 21 | A | |
| 1380.0 | 16:55:05 | SHOT | 114 | 21 | A | |
| 1320.0 | 17:03:16 | SHOT | 115 | 22 | A | |
| 1320.0 | 17:04:33 | SHOT | 116 | 22 | A | |
| 1320.0 | 17:05:15 | SHOT | 117 | 22 | A | |
| 1320.0 | 17:05:51 | SHOT | 118 | 22 | A | |

Observer's Note (3/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Source | Remarks |
|----------------|----------|-----------|-------|--------|--------|----------|
| 1320.0 | 17:06:27 | SHOT | 119 | 22 | A | |
| 1260.0 | 17:11:46 | SHOT | 120 | 23 | A | |
| 1260.0 | 17:12:49 | SHOT | 121 | 23 | A | |
| 1260.0 | 17:13:26 | SHOT | 122 | 23 | A | |
| 1260.0 | 17:14:03 | SHOT | 123 | 23 | A | |
| 1260.0 | 17:14:42 | SHOT | 124 | 23 | A | |
| 1200.0 | 17:19:45 | SHOT | 125 | 24 | A | |
| 1200.0 | 17:21:19 | SHOT | 126 | 24 | A | |
| 1200.0 | 17:21:54 | SHOT | 127 | 24 | A | |
| 1200.0 | 17:22:29 | SHOT | 128 | 24 | A | |
| 1200.0 | 17:23:04 | SHOT | 129 | 24 | A | |
| 1140.0 | 17:28:16 | SHOT | 130 | 25 | A | |
| 1140.0 | 17:28:56 | SHOT | 131 | 25 | A | |
| 1140.0 | 17:29:31 | SHOT | 132 | 25 | A | |
| 1140.0 | 17:30:07 | SHOT | 133 | 25 | A | |
| 1140.0 | 17:30:44 | SHOT | 134 | 25 | A | |
| 1080.0 | 17:35:50 | SHOT | 135 | 26 | A | SP NOISE |
| 1080.0 | 17:36:29 | SHOT | 136 | 26 | A | |
| 1080.0 | 17:37:06 | SHOT | 137 | 26 | A | |
| 1080.0 | 17:37:42 | SHOT | 138 | 26 | A | |
| 1080.0 | 17:38:20 | SHOT | 139 | 26 | A | SP NOISE |
| 1080.0 | 17:39:03 | SHOT | 140 | 26 | A | |
| 1080.0 | 17:39:42 | SHOT | 141 | 26 | A | |
| 1020.0 | 17:45:03 | SHOT | 142 | 27 | A | |
| 1020.0 | 17:45:53 | SHOT | 143 | 27 | A | |
| 1020.0 | 17:46:31 | SHOT | 144 | 27 | A | |
| 1020.0 | 17:47:22 | SHOT | 145 | 27 | A | |
| 1020.0 | 17:47:58 | SHOT | 146 | 27 | A | |
| 960.0 | 17:53:37 | SHAK | 147 | | | |
| 960.0 | 17:54:08 | SHOT | 148 | 28 | A | |
| 960.0 | 17:55:06 | SHOT | 149 | 28 | A | |
| 960.0 | 17:55:58 | SHOT | 150 | 28 | A | |
| 960.0 | 17:57:18 | SHOT | 151 | 28 | A | |
| 960.0 | 17:58:10 | SHOT | 152 | 28 | A | |
| 900.0 | 18:03:37 | SHAK | 153 | | | |
| 900.0 | 18:04:09 | SHOT | 154 | 29 | A | |
| 900.0 | 18:04:49 | SHOT | 155 | 29 | A | |
| 900.0 | 18:05:26 | SHOT | 156 | 29 | A | |
| 900.0 | 18:06:02 | SHOT | 157 | 29 | A | |
| 900.0 | 18:06:39 | SHOT | 158 | 29 | A | |
| 840.0 | 18:11:32 | SHOT | 159 | 30 | A | |
| 840.0 | 18:12:14 | SHOT | 160 | 30 | A | |
| 840.0 | 18:13:14 | SHOT | 161 | 30 | A | |
| 840.0 | 18:13:48 | SHOT | 162 | 30 | A | |
| 840.0 | 18:14:23 | SHOT | 163 | 30 | A | |
| 780.0 | 18:19:21 | SHOT | 164 | 31 | A | |
| 780.0 | 18:20:02 | SHOT | 165 | 31 | A | |
| 780.0 | 18:20:57 | SHOT | 166 | 31 | A | |
| 780.0 | 18:21:33 | SHOT | 167 | 31 | A | |
| 780.0 | 18:22:16 | SHOT | 168 | 31 | A | |
| 720.0 | 18:27:42 | SHOT | 170 | 32 | A | |
| 720.0 | 18:28:29 | SHOT | 171 | 32 | A | |
| 720.0 | 18:29:05 | SHOT | 172 | 32 | A | |
| 720.0 | 18:29:42 | SHOT | 173 | 32 | A | |
| 720.0 | 18:30:25 | SHOT | 174 | 32 | A | |
| 720.0 | 18:31:03 | SHOT | 175 | 32 | A | |
| 660.0 | 18:37:15 | SHAK | 176 | | | |
| 660.0 | 18:37:54 | SHOT | 177 | 33 | A | |
| 660.0 | 18:38:44 | SHOT | 178 | 33 | A | |

Observer's Note (4/4)

| Well depth[m] | Time | Shot Type | Shot# | Stack# | Source | Remarks |
|---------------|----------|-----------|-------|--------|--------|---------|
| 660.0 | 18:39:22 | SHOT | 179 | 33 | A | |
| 660.0 | 18:40:17 | SHOT | 180 | 33 | A | |
| 660.0 | 18:40:53 | SHOT | 181 | 33 | A | |

VSI Tool Evaluation Test Report Offset VSP

VSI Seismic Evaluation Report

ELECTRICAL NOISE LOW TEST

2006/05/14 17:04:33

Shot No: 57

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.2595 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1306 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4471 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3254 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4450 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.4057 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1343 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.5213 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.3124 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1380 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.5300 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -25.3366 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1379 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.5865 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2757 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1367 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4828 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.3934 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1312 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.5216 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.2987 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1418 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5445 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.3728 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1325 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.5004 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.3017 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1401 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.6245 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.3424 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1347 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4702 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2993 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1324 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.4839 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.2687 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1310 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4726 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3504 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1351 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.5452 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3308 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1342 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.4849 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.4129 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1339 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4988 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.3381 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1321 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.5020 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -25.3510 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1295 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.4731 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.3218 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1389 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.4786 | micro V | - | 2.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| DC Offset | 7 | Y | -25.2864 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1346 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5383 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.3352 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1376 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.5101 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.4204 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.5091 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.2824 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1368 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.4884 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.4469 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1372 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.4651 | micro V | - | 2.0000 | PASS |

ELECTRICAL NOISE HIGH TEST

2006/05/14 17:05:13

Shot No: 58

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.0744 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1313 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4991 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.1310 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1310 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4478 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.3944 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1309 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.5142 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -24.8059 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1361 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4397 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -24.9706 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1330 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4786 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2426 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1351 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4694 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.1475 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1339 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4479 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.4512 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1391 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.4980 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.2968 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1309 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.4813 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2290 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.4709 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.1197 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1319 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.5940 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2095 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1378 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.5067 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.0175 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1356 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.5685 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3357 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1320 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4696 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.2957 | milli V | -100.0000 | 100.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| RMS Noise Level | 5 | Z | 0.1345 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.4912 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.3685 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1328 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4701 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.0319 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.5611 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -24.9589 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1336 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.4666 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.1626 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1382 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.5256 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -24.9908 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1353 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.4727 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.1337 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1347 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.5003 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.1959 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4621 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -24.9764 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1337 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.4481 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.1096 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1343 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.4851 | micro V | - | 2.0000 | PASS |

ELECTRICAL DISTORTION TEST

2006/05/14 17:05:38

Shot No: 59

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|---------------------------|---------|---------|-----------|------|-------------|-------------|--------|
| Total Harmonic Distortion | 1 | X | -98.5088 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Y | -98.8355 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Z | -100.0197 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | X | -98.9537 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Y | -98.5950 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Z | -99.2795 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | X | -99.7574 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Y | -99.2945 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Z | -100.8400 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | X | -99.2626 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Y | -100.1342 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Z | -97.9395 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | X | -95.1021 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Y | -96.2638 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Z | -95.6106 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | X | -97.3884 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Y | -99.8732 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Z | -97.0059 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | X | -98.7819 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Y | -98.2965 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Z | -97.3272 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | X | -98.0003 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Y | -96.9682 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Z | -98.6744 | dB | - | -90.0000 | PASS |

SYSTEM DYNAMIC RANGE TEST

2006/05/14 17:06:10

Shot No: 60

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|-------|------|-------------|-------------|--------|
| | | | | | | | |

| | | | | | | | |
|----------------------|---|---|----------|----|----------|---|------|
| System Dynamic Range | 1 | X | 107.4968 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Y | 107.7680 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Z | 107.3393 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | X | 107.1143 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Y | 107.5510 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Z | 107.2407 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | X | 106.6730 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Y | 106.7225 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Z | 105.9979 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | X | 107.0696 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Y | 107.6317 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Z | 107.4212 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | X | 107.3727 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Y | 106.7087 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Z | 107.4460 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | X | 106.5531 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Y | 106.6772 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Z | 106.7028 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | X | 107.0458 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Y | 107.1243 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Z | 107.3905 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | X | 108.0670 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Y | 107.9883 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Z | 108.1101 | dB | 103.0000 | - | PASS |

AMPLIFIER GAIN 2 TEST

2006/05/14 17:06:41

Shot No: 61

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------|----------------|----------------|--------------|-------------|--------------------|--------------------|---------------|
| Gain Accuracy | 1 | X | 0.2817 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.2418 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.2888 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1177 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1186 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1220 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1324 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1305 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1320 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1214 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1306 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1159 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1212 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1202 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1096 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Accuracy | 6 | Z | 0.1114 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1150 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1234 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1077 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1162 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1066 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 4 TEST

2006/05/14 17:06:57

Shot No: 62

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.2836 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | -0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.2377 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.2863 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1170 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1166 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1198 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0022 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1207 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1314 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1347 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1314 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1182 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1276 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1219 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1155 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1101 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1129 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1221 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1062 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Accuracy | 8 | Y | 0.1160 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0040 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 8 TEST

2006/05/14 17:07:14

Shot No: 63

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.2846 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | -0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.2394 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0024 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.2864 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0024 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1182 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | -0.0005 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1178 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1219 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0001 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1208 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1336 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1387 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1339 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | -0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1206 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1281 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1143 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1225 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1170 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | -0.0009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1083 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1124 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1233 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0001 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1066 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1148 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0011 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 16 TEST

2006/05/14 17:07:30

Shot No: 64

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.2816 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 1 | X | 0.0001 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.2336 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.2844 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1166 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1128 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0058 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1196 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0024 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1174 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0043 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1304 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1387 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0083 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1300 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1183 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1241 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0065 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1088 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0070 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1195 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1131 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.0998 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0098 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0038 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0963 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0077 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1094 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1190 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1112 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 32 TEST

2006/05/14 17:07:46

Shot No: 65

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.2807 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.2346 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0072 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.2873 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1180 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | -0.0004 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1086 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0101 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1242 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 2 | Z | -0.0022 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1218 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | -0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1353 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1406 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0102 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1313 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1271 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0035 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1101 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0058 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1243 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1160 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1005 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1087 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0984 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1125 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1207 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1111 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | -0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1140 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0022 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.0955 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0111 | dB | -0.5000 | 0.5000 | PASS |

CROSS TALK X TEST

2006/05/14 17:08:18

Shot No: 66

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk X-Y | 1 | - | -98.3756 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 1 | - | -97.4231 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 2 | - | -99.1369 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 2 | - | -98.1289 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 3 | - | -99.0997 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 3 | - | -97.8580 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 4 | - | -99.4461 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 4 | - | -97.6806 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 5 | - | -99.2428 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 5 | - | -98.3471 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 6 | - | -99.5293 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 6 | - | -98.3491 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 7 | - | -99.1207 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 7 | - | -98.1316 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 8 | - | -99.3813 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 8 | - | -98.2237 | dB | - | -90.0000 | PASS |

CROSS TALK Y TEST

2006/05/14 17:08:55

Shot No: 67

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|-------|------|-------------|-------------|--------|
| | | | | | | | |

| | | | | | | | |
|----------------|---|---|----------|----|---|----------|------|
| Cross Talk Y-Z | 1 | - | -96.6228 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 1 | - | -96.7150 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 2 | - | -97.6971 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 2 | - | -98.7241 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 3 | - | -97.2161 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 3 | - | -98.8510 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 4 | - | -97.0039 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 4 | - | -99.1421 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 5 | - | -97.7641 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 5 | - | -99.1694 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 6 | - | -98.1216 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 6 | - | -99.0970 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 7 | - | -97.7307 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 7 | - | -99.0535 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 8 | - | -97.8292 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 8 | - | -99.0598 | dB | - | -90.0000 | PASS |

CROSS TALK Z TEST

2006/05/14 17:09:31

Shot No: 68

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Z-X | 1 | - | -95.0324 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 1 | - | -95.3624 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 2 | - | -96.6521 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 2 | - | -96.4573 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 3 | - | -96.4378 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 3 | - | -96.0821 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 4 | - | -96.2474 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 4 | - | -95.6734 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 5 | - | -97.0540 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 5 | - | -96.7747 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 6 | - | -96.6420 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 6 | - | -96.2456 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 7 | - | -96.5543 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 7 | - | -96.3827 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 8 | - | -97.1354 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 8 | - | -97.1803 | dB | - | -90.0000 | PASS |

IMPULSE RESPONSE TEST

2006/05/14 17:10:07

Shot No: 69

Station Depth: 1860.02 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------------|---------|---------|----------|---------|-------------|-------------|--------|
| Amplitude (0.3Hz) | 1 | X | -1.4421 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | X | -4.6097 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | X | 462.0879 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | X | 0.0000 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Y | -1.7120 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Y | -4.6119 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Y | 459.4379 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Y | 2.7859 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Z | -1.4586 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Z | -4.6115 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Z | 461.7043 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Z | 0.4882 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | X | -1.6684 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | X | -3.5782 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | X | 571.9337 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | X | 1.3298 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Y | -1.5333 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Y | -3.5795 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Y | 571.9719 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Y | -0.0241 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Z | -1.6400 | dB | -5.0000 | - | PASS |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (400Hz) | 2 | Z | -3.5797 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Z | 572.2816 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Z | 0.9882 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | X | -1.4715 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | X | -3.5782 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | X | 572.2733 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | X | -0.1128 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Y | -1.4752 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Y | -3.5760 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Y | 573.1260 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Y | -0.2970 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Z | -1.5190 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Z | -3.5732 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Z | 573.1520 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Z | 0.3676 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | X | -1.6724 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | X | -3.5755 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | X | 573.0891 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | X | 1.8293 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Y | -1.5560 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Y | -3.5757 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Y | 572.0437 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Y | 0.6957 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Z | -1.5417 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Z | -3.5747 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Z | 572.9830 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Z | 0.4463 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | X | -1.5431 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | X | -3.5771 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | X | 571.3914 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | X | 1.0863 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Y | -1.4657 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Y | -3.5794 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Y | 571.8242 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Y | 0.2058 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Z | -1.6272 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Z | -3.5758 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Z | 571.8292 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Z | 1.8272 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | X | -1.6216 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | X | -3.5839 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | X | 570.5209 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | X | 1.2276 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Y | -1.5093 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Y | -3.5804 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Y | 570.6251 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Y | 0.0589 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Z | -1.5840 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Z | -3.5809 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Z | 571.1763 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Z | 0.7390 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | X | -1.5801 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | X | -3.5745 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | X | 570.4018 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | X | 1.4111 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Y | -1.5716 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Y | -3.5776 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Y | 571.4735 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Y | 1.3124 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Z | -1.5009 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Z | -3.5741 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Z | 572.0169 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Z | 0.5826 | degree | - | - | - |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (0.3Hz) | 8 | X | -1.5765 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | X | -3.5774 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | X | 570.3755 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | X | 1.4174 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Y | -1.6145 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Y | -3.5767 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Y | 571.5567 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Y | 1.3438 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Z | -1.6711 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Z | -3.5787 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Z | 570.5692 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Z | 2.1743 | degree | - | - | - |

Walkaway VSP Line-A Report

General Information

| | |
|--|--------------|
| Survey Type | Walkaway VSP |
| Surface Recording Length | 15500.0 ms |
| Surface Sampling Rate | 2.0 ms |
| Downhole Recording Length | 20500.0 ms |
| Downhole Sampling Rate | 2.0 ms |
| Top of Survey | 1680.0 m |
| Bottom of Survey | 1900.0 m |
| Number of Shots | 441 |
| Number of Downhole Traces | 3528 |
| Number of Downhole Traces used for Processing | 3298 |

Borehole Seismic Source Information - Source 1

Engineer: S. Nakanishi

Well Name: Naylor-1

Date: 15-May-2006

Rig: Rigless/ 15Ton Crane

Geometrical Coordinates

Longitude: 142 48' 30.43" E

Latitude: 38 31' 47.26" S

UTM Coordinates

Easting: 657634.25 m E

Northing: 5733850.49 m N

Permanent Datum: MSL

Log Measured From: DF

Elev. 51.1

Unit: m

Ground Elev. at Well Head 46.4

SRD (Seismic Reference Datum): MSL

Elev. 0.0

from SLB zero: 51.1

(SRDS)

Ground Elev. at VP: 46.4

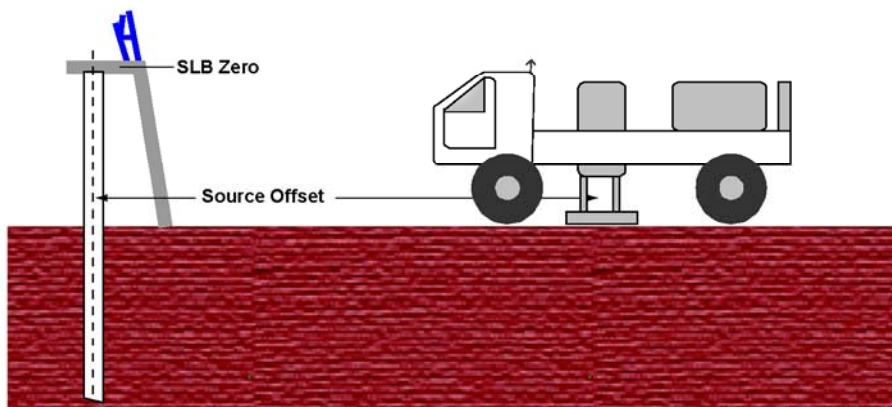
Gun Depth from SLB : 4.7 (GDSZ)

Gun Depth from SRD : -46.4

Gun Depth from GL (WH): 0.0

Ground Condition: Clay soil
Flat terrain

Ground Water Level from GL: 1.0



Gun Azimuth (Grid North): N/A deg (GAZI)

Gun Offset: N/A (GOFF)

Vibrator: IVI MinVib T1500

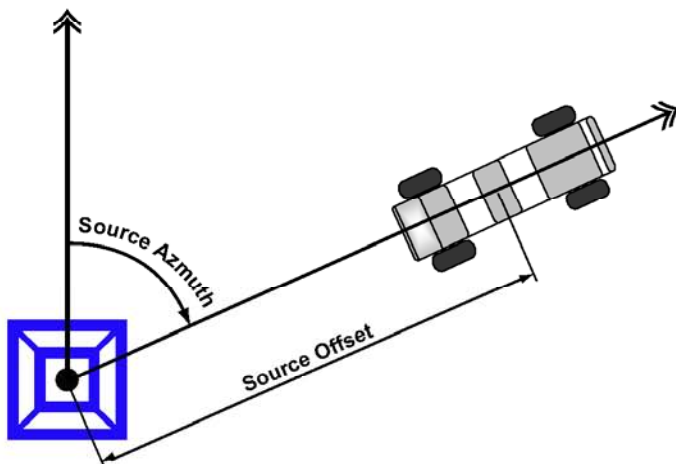
Controller - Encoder: RTS-100

Decoder: SIB-100

Version: ANSIR

Mass Weight 311 lbs
BasePlate Weight 370 lbs
HoldDown Weight 10,000 lbs

Zero Time Adjust N/A
Radio Reference Delay N/A



Sweep Parameters

Start Frequency 10 Hz
End Frequency 150 Hz
Sweep Length 15 sec
Start Taper 0.2 sec
End Taper 0.2 sec
Sweep Type Linear
VIB Sweep Phase N/A
ESG Sweep Phase N/A
Phase Lock Mode N/A
Force Mode N/A

Surface Velocity Survey (Rig Source only)

Tool Measured Depth: N/A

Measured Transit Time: N/A ms Reliable TT

Measured Surface Velocity: NA

Provided Surface Velocity by Client: 1,750.0 m/sec

Borehole Seismic Source Information

Surface Sensor Channels

WSAM (WSI)
sn: **WSAM:-AB 910****WSI: 1742**

Pilot Signal

SSPS

| | | |
|---------------------|---------------------|-------------------------------------|
| S1 (WSI-SS2) | none | <input type="checkbox"/> |
| S2 (WSI-SS3) | Filtered Ground For | <input checked="" type="checkbox"/> |
| S3 (WSI-SS4) | none | <input type="checkbox"/> |
| S4 (WSI-SS5) | | <input type="checkbox"/> |
| S5 (WSI-SS6) | | <input type="checkbox"/> |
| S6 (WSI-SS7) | | <input type="checkbox"/> |

Quality Check Surface Signals

| | S1 Time Break / PP | | S2 TT(ms) / PP | | S3 TT(ms) / PP | | S4 TT(ms) / PP | | S5 TT(ms) / PP | | S6 TT(ms) / PP | |
|--------|--------------------|---|----------------|-------|----------------|---|----------------|---|----------------|---|----------------|---|
| Shot-1 | 0.0 / | 0 | 0.0 / | 19081 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-2 | 0.0 / | 0 | 0.0 / | 19013 | 1.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-3 | 0.0 / | 0 | 0.0 / | 19287 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-4 | 0.0 / | 0 | 0.0 / | 19342 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-5 | 0.0 / | 0 | 0.0 / | 19244 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |

Other Logs Information

| | | | | |
|---------------------|------------------|-------------|-----------|--------------|
| Sonic Log: | Interval: | from | to | Date: |
| Density Log: | Interval: | from | to | Date: |

Remarks

MinVib T1500 used 10Hz to 150Hz linear sweep for 15 seconds. Baseplate used the shearwave plate for P-wave mode. PSS or QC signal is not available in the RTS-100 system.

Contact Closure pin-F and G of RTS-100 is used for triggering MinVib through WSI-A (30 msec period). Start Delay sets 0.1 s.

SIB-100 can provide three reference pilot signals (Synthetic, Ground Force and Filtered Ground force). Only one of them can be transmitted through UHF radio. The Filtered Ground Force signal is recommended for correlation by the IVI. Pilot signal (Filtered Ground Force signal) is recorded for correlation. FGF signal is generated in the SIB-100 box in real time by combining the baseplate accelerometer and the mass accelerometer signals during each sweep. This signal is then filtered with a tracking high cut filter. The frequency of this tracking filter is set to remove all higher order harmonics. . FGF signals is 180 degree phase different to GF signal according to Elmo Christensen / IVI.

FGF signal is recorded in reversed polarity (RTS-100 pin-D to WSI pin-A, RTS-100 pin-N to WSI pin-B) in order to obtain positive peak correlation. Downhole receiver (GAC) has SEG reverse polarity (1975).

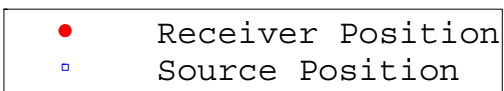
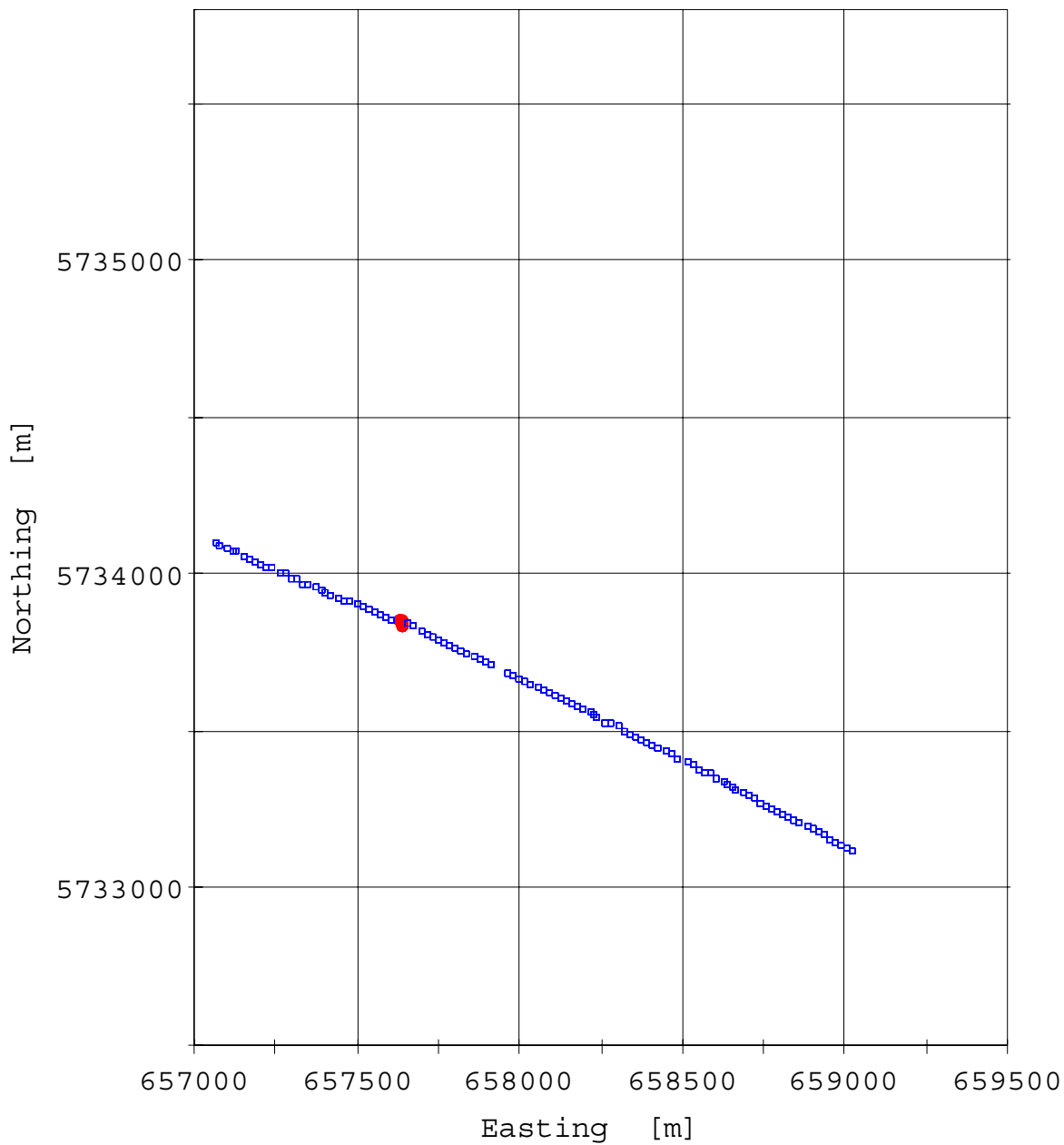
Recording surface signals (WSAM) S1 - No input. S2 - FGF (15500 msec @ 2 msec sampling with TOFS 500 ms to avoid transit noise). Correlation Length 5000 msec. Downhole listening time is 20500 msec @ 2 msec sampling). Input impedance of the channel SS3 (S2) of WSAM-AB was changed from 462-ohm to 10K-ohm in order to obtain better dynamic range.

Detail T-1500 MinVib specification

Max. Theoretical Peak Force: 6,000 Pounds
 Mass Piston Area: 1.50 Inches²
 Reaction Mass Weight: 311 Pounds
 Reaction Mass Stroke: 1.88 Inches
 Servovalve; 5 GPM
 Servovalve Pilot Filter: 3 Micron
 Baseplate Area: 1,018 Inches²
 Baseplate Assembly Weight: 370 Pounds
 Lift System Stroke: 38 Inches
 Lift Cylinder Diameter: 2.5 Inches
 Lift Synchronization: Mechanical Crossbeam
 Vibrator Pump Flow: 15 GPM @ 2100 RPM
 Holddown Weight: 10,000 Pounds




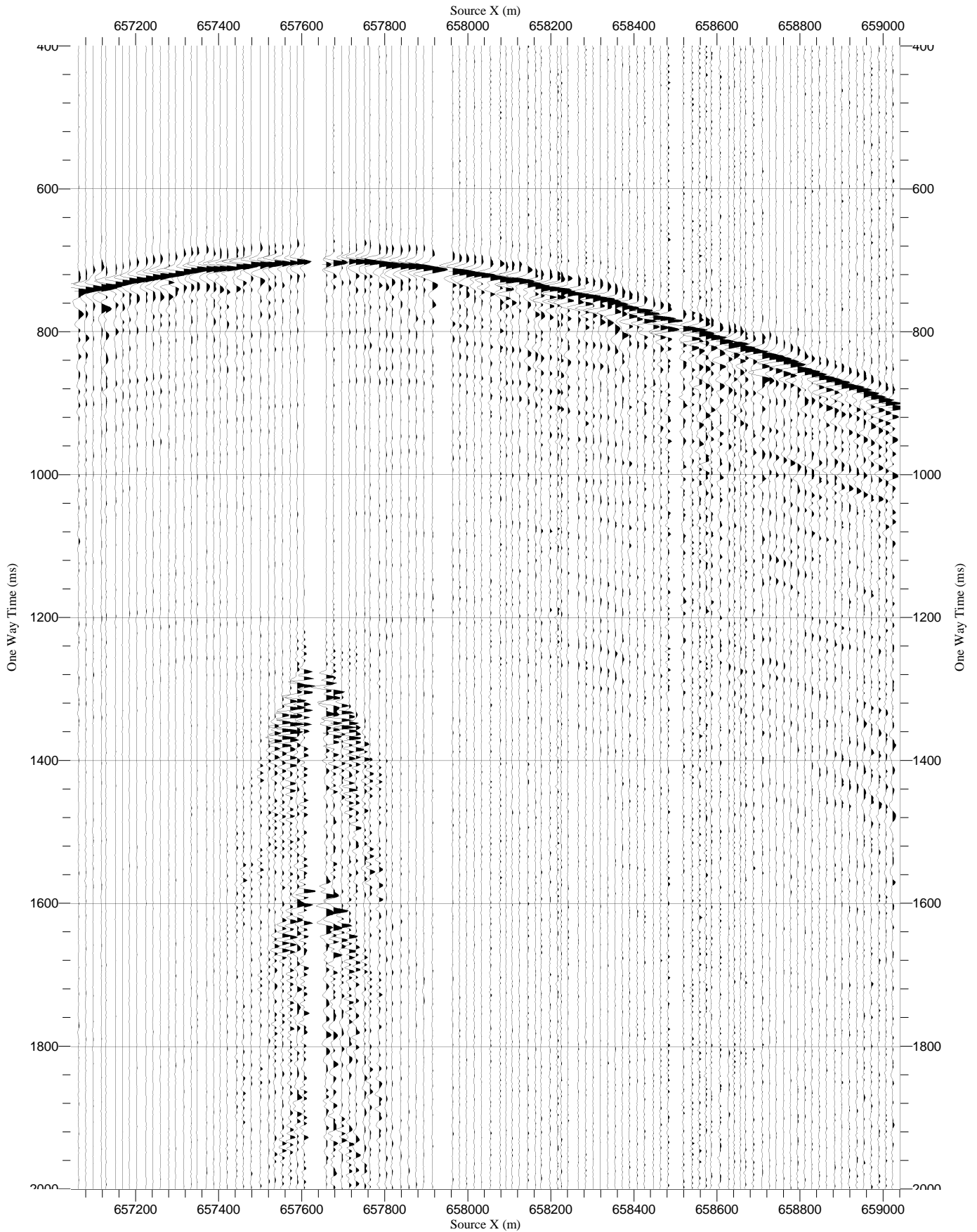
Geometry Information Page (X-Y)




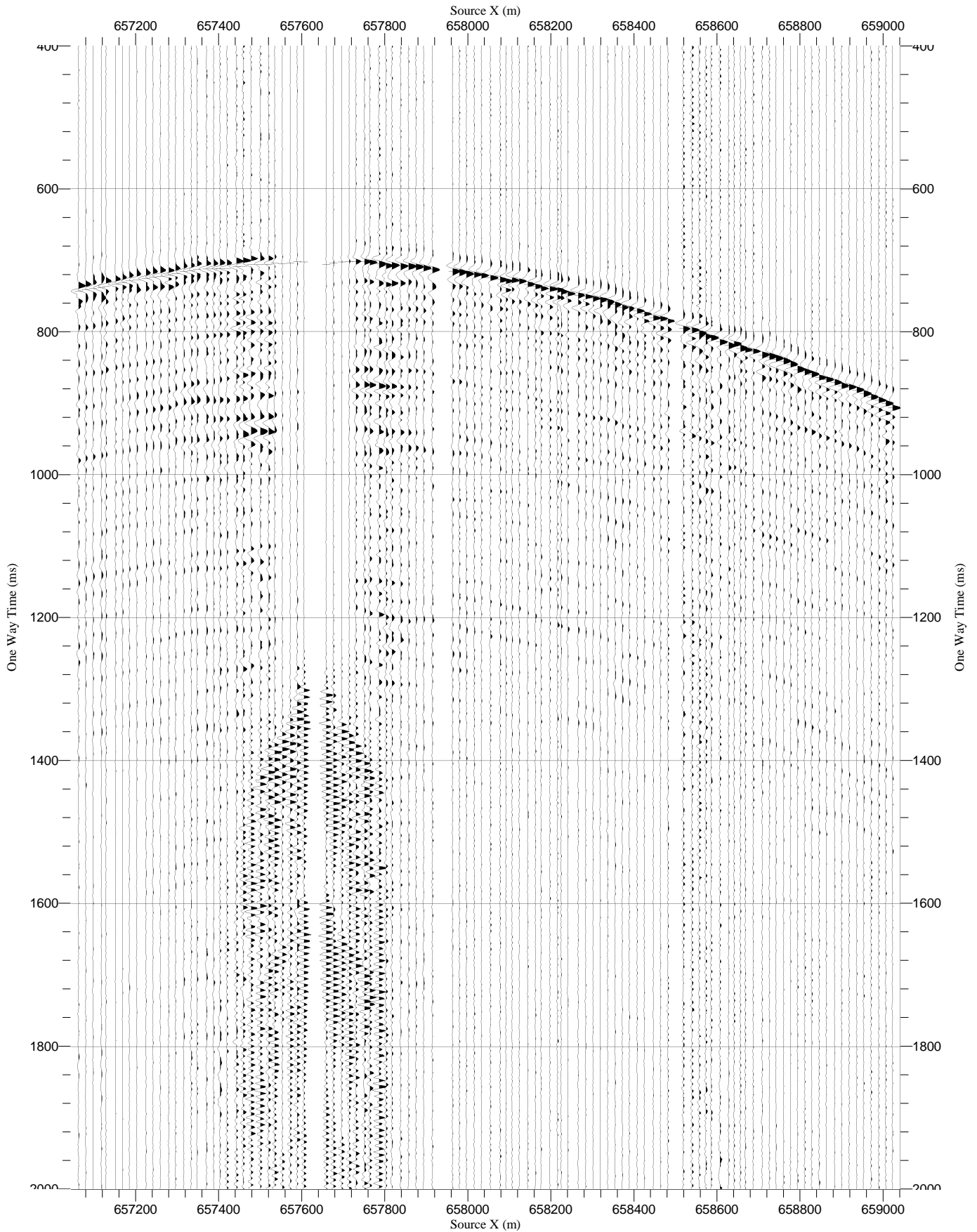
VSI-8


(1800 m receiver gather WVSP Line-A)

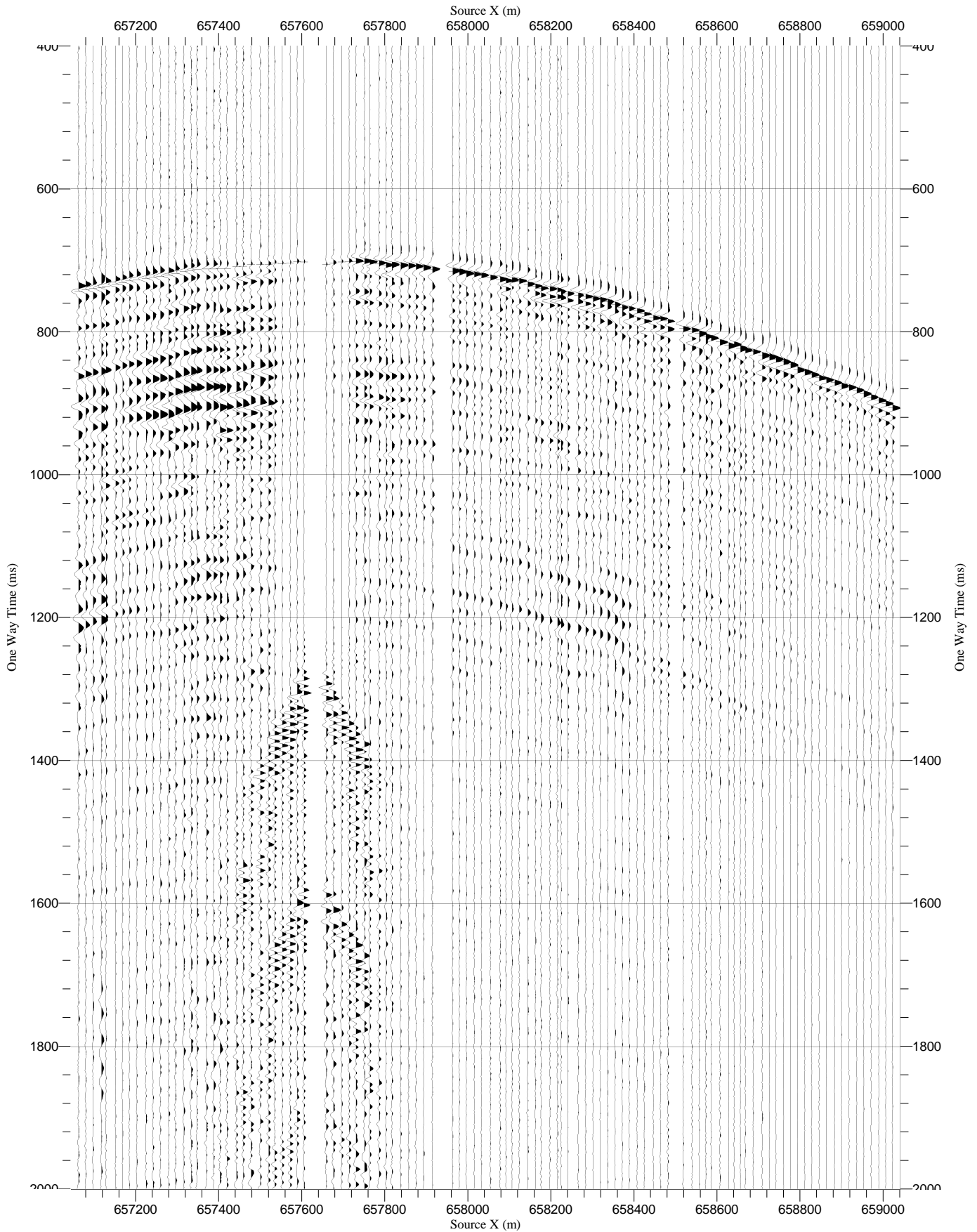
| | | |
|------------------|---|---|
| RawStack Z VSI-8 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.5 cm/sec, 1/12790 |  |
|------------------|---|---|




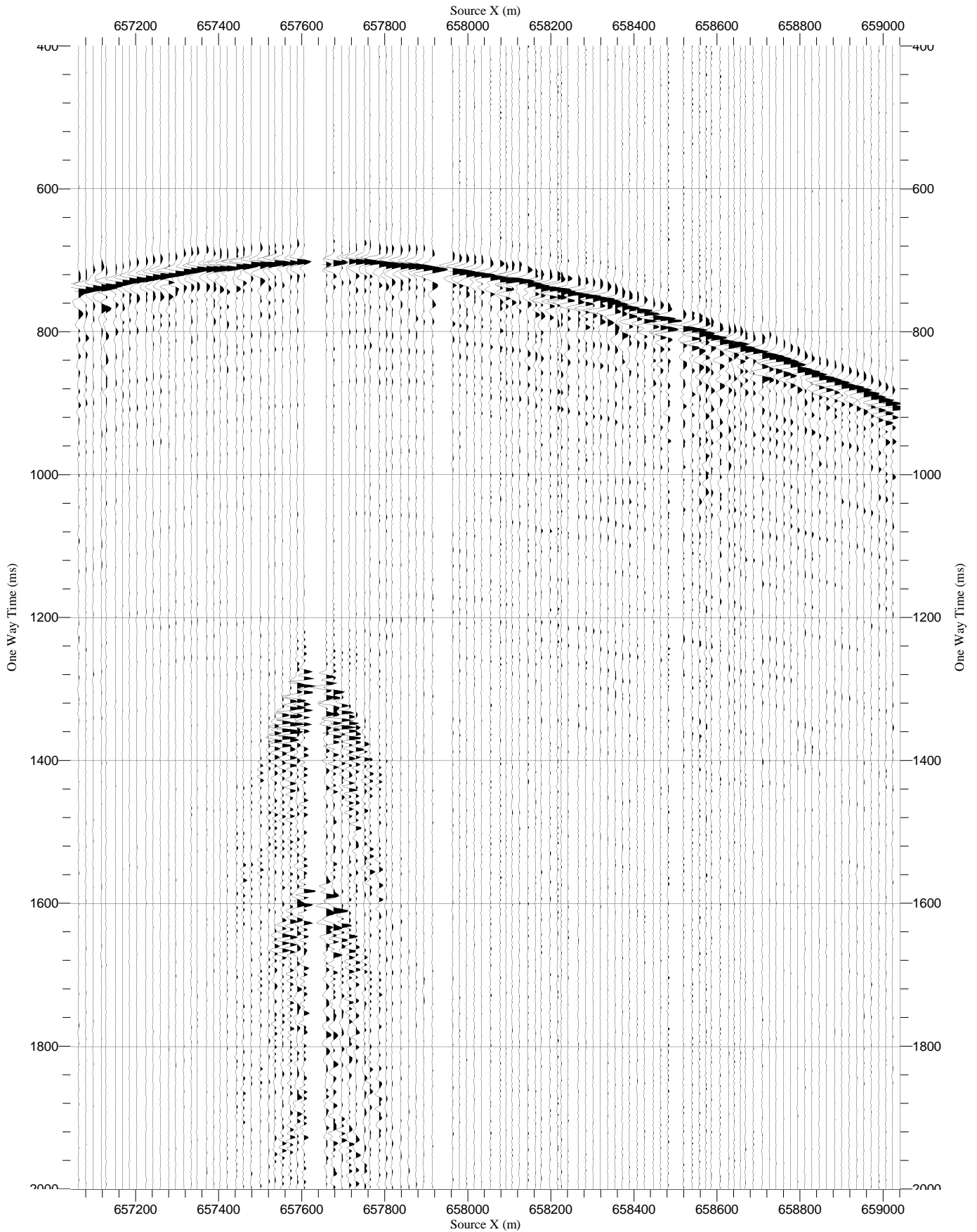
| | | |
|------------------|---|---|
| RawStack Y VSI-8 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.5 cm/sec, 1/12790 |  |
|------------------|---|---|




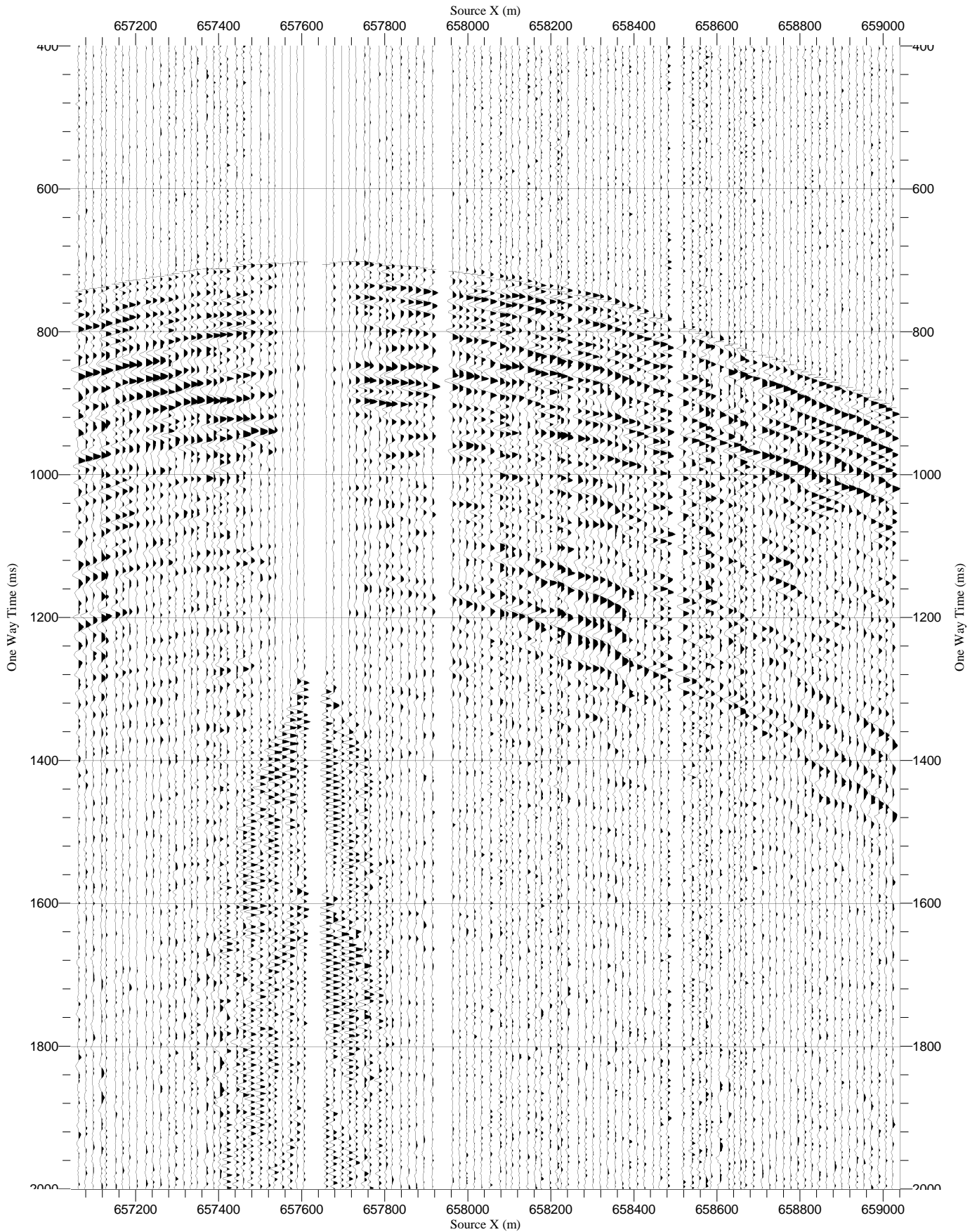
| | | |
|------------------|---|---|
| RawStack X VSI-8 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.5 cm/sec, 1/12790 |  |
|------------------|---|---|



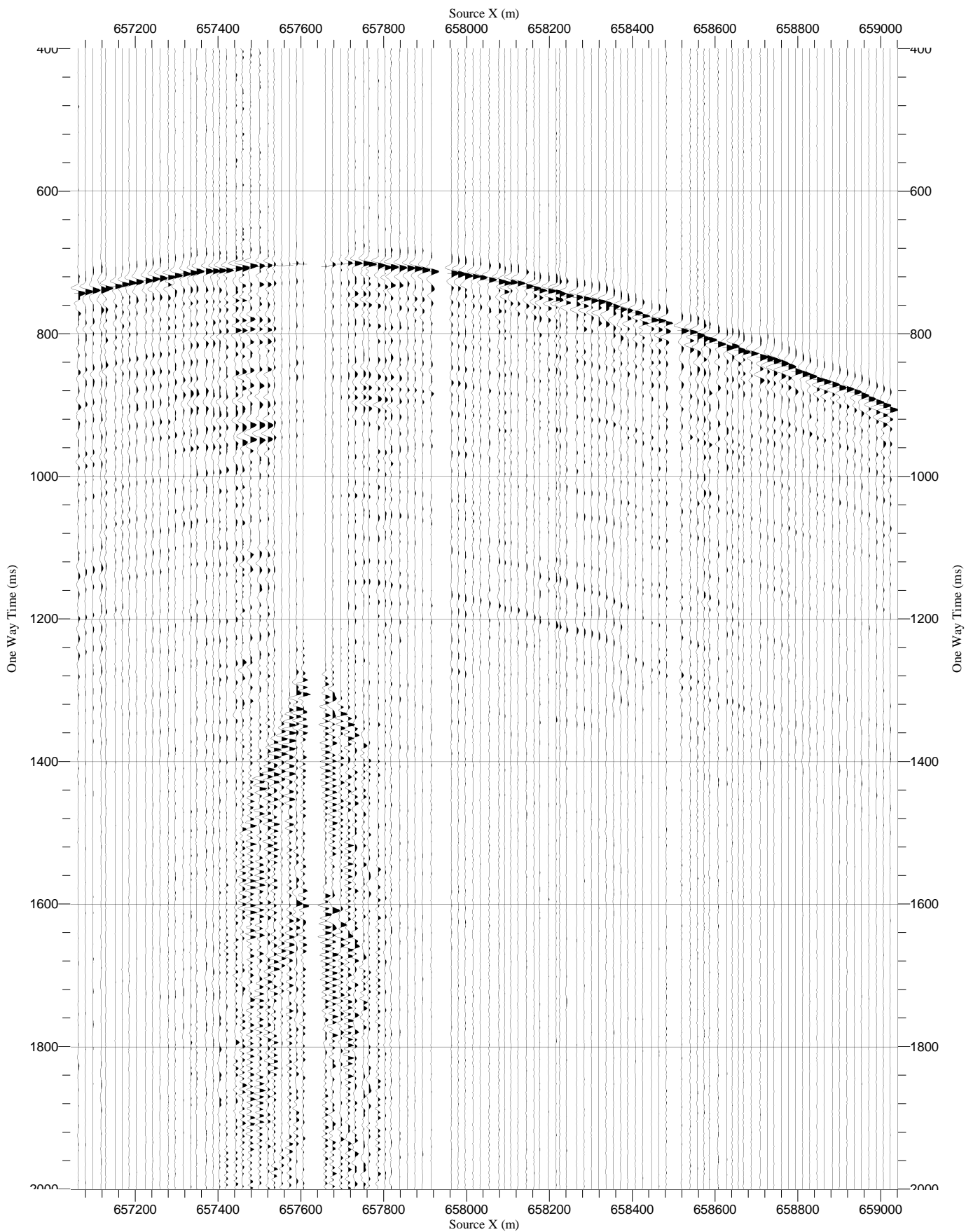
| | | |
|--------------------|---|---|
| RawStack TRY VSI-8 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.5 cm/sec, 1/12790 |  |
|--------------------|---|---|




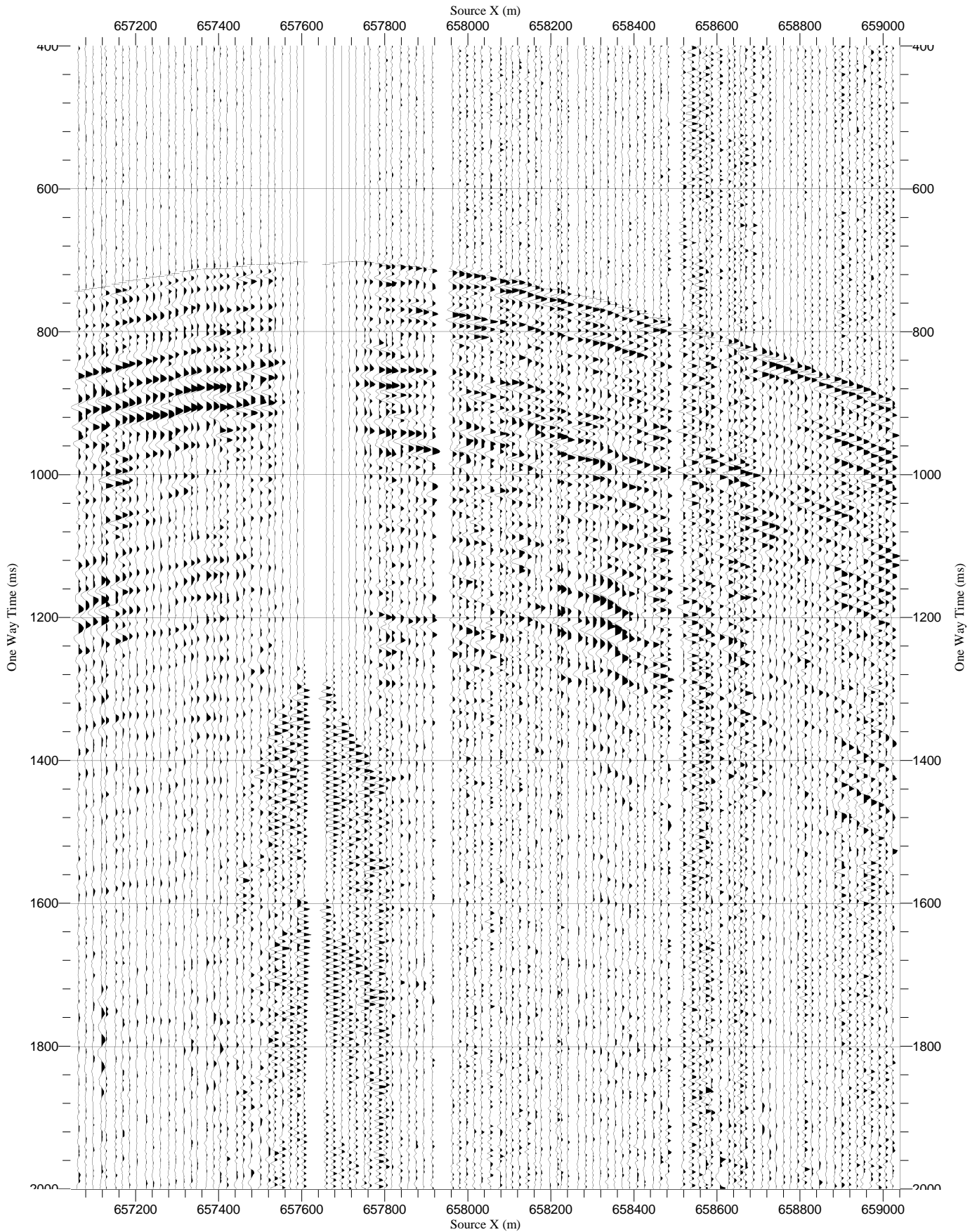
| | | |
|--------------------|---|---|
| RawStack NRY VSI-8 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.5 cm/sec, 1/12790 |  |
|--------------------|---|---|



RawStack HMX VSI-8
Normalization Trace by Trace (100%)
Polarity Normal
One Way Time (ms)
Scaling 13.5 cm/sec, 1/12790




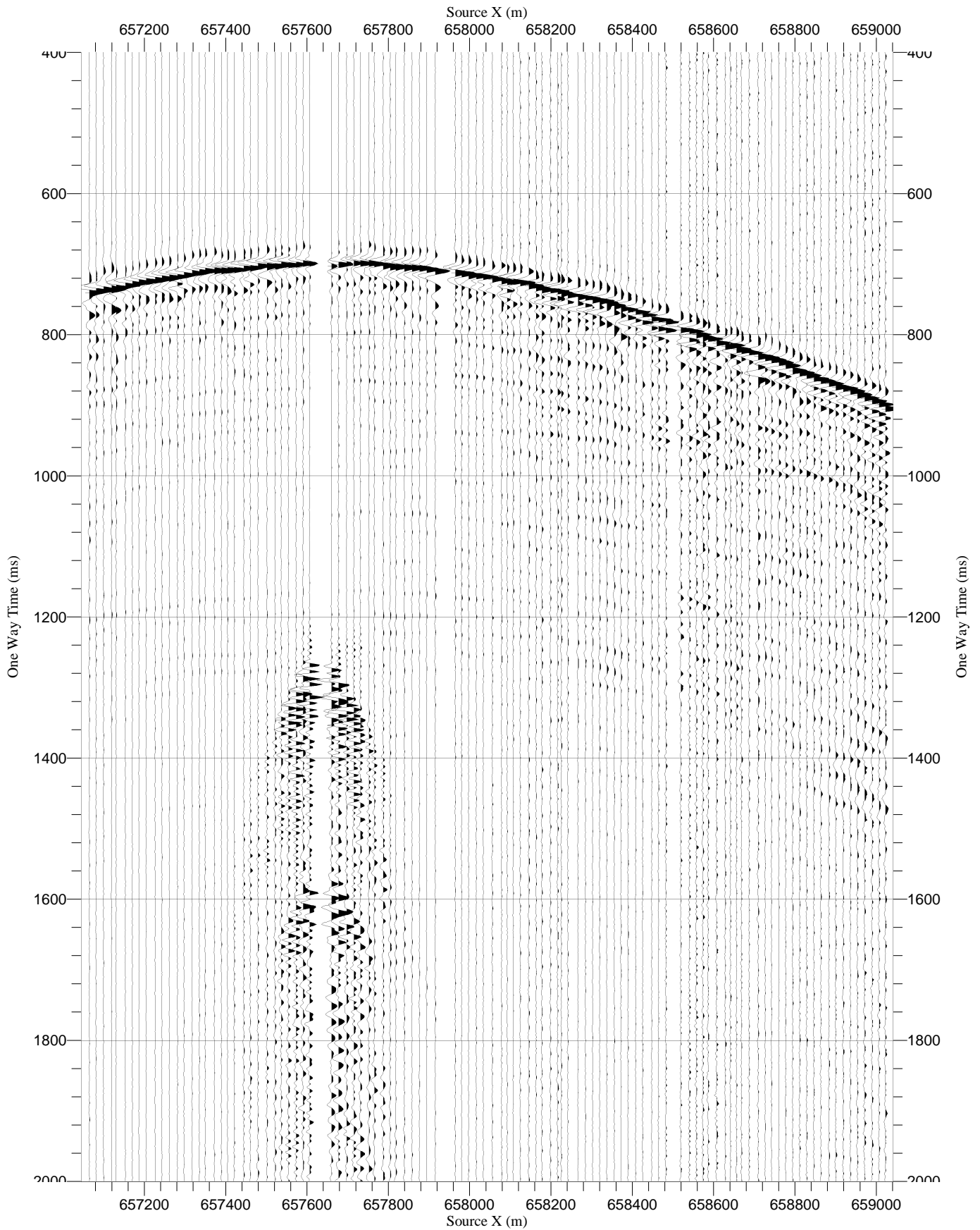
| | | |
|--------------------|---|---|
| RawStack HMN VSI-8 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.5 cm/sec, 1/12790 |  |
|--------------------|---|---|




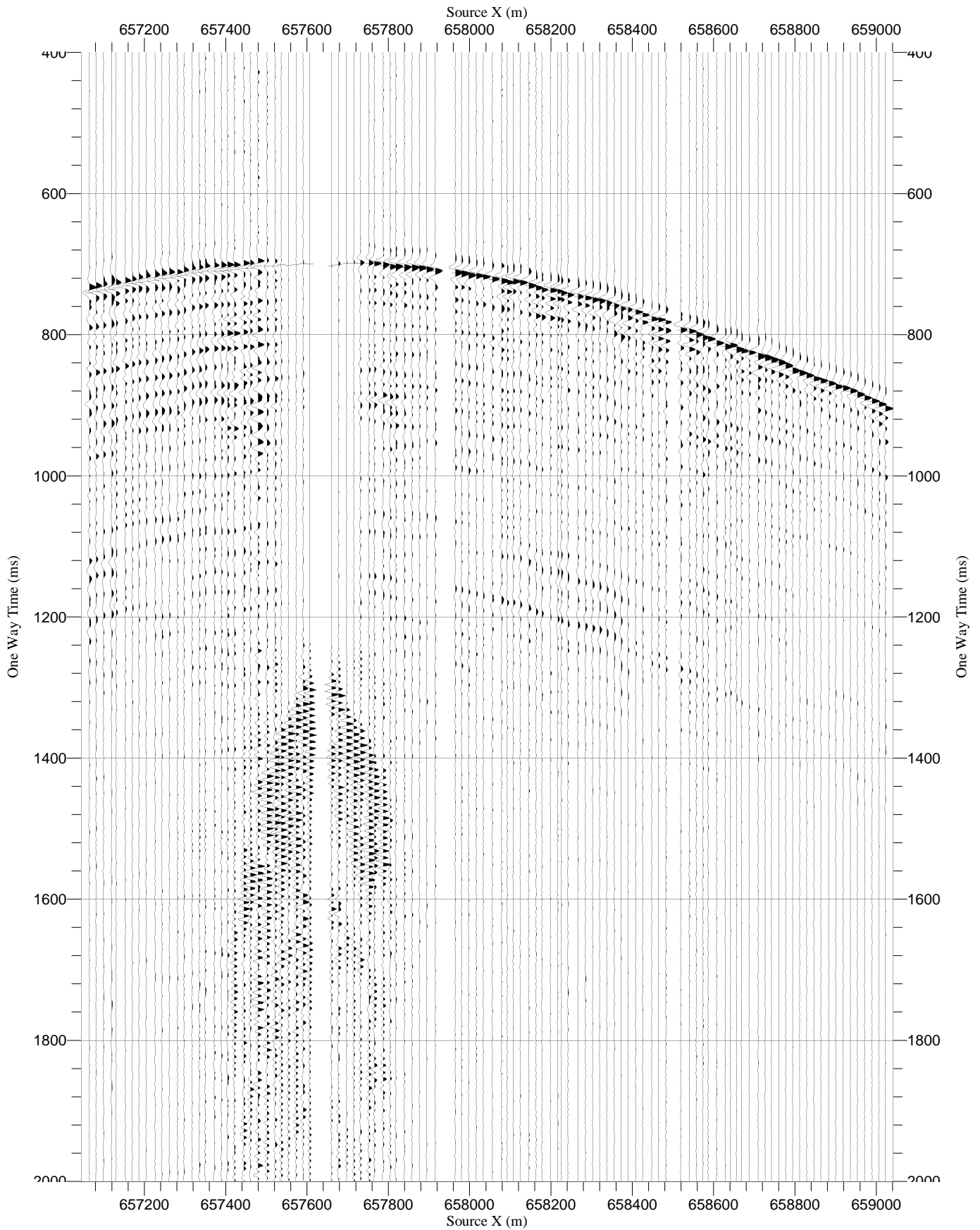
VSI-7


(1790 m receiver gather WVSP Line-A)

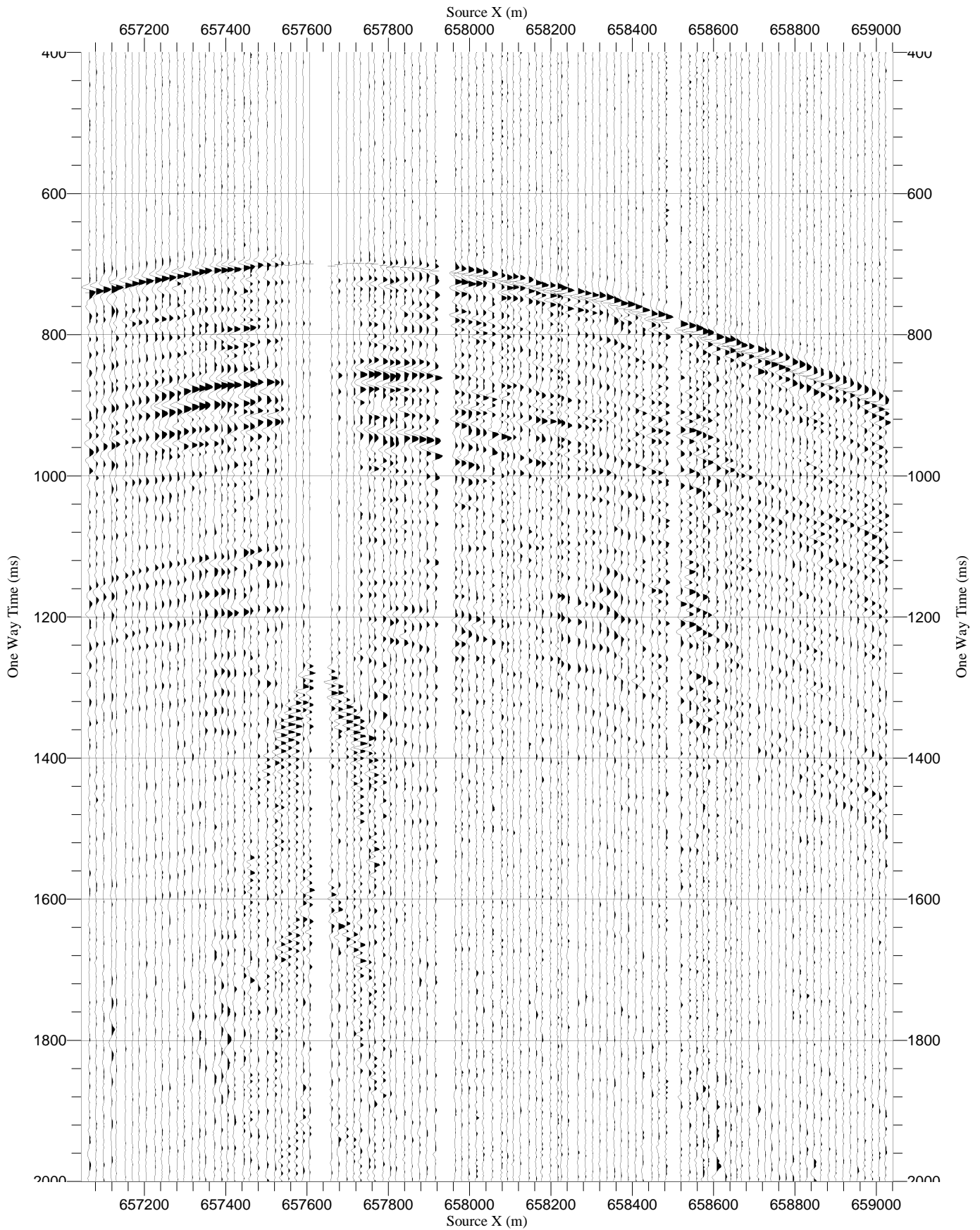
| | | |
|------------------|---|---|
| RawStack Z VSI-7 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




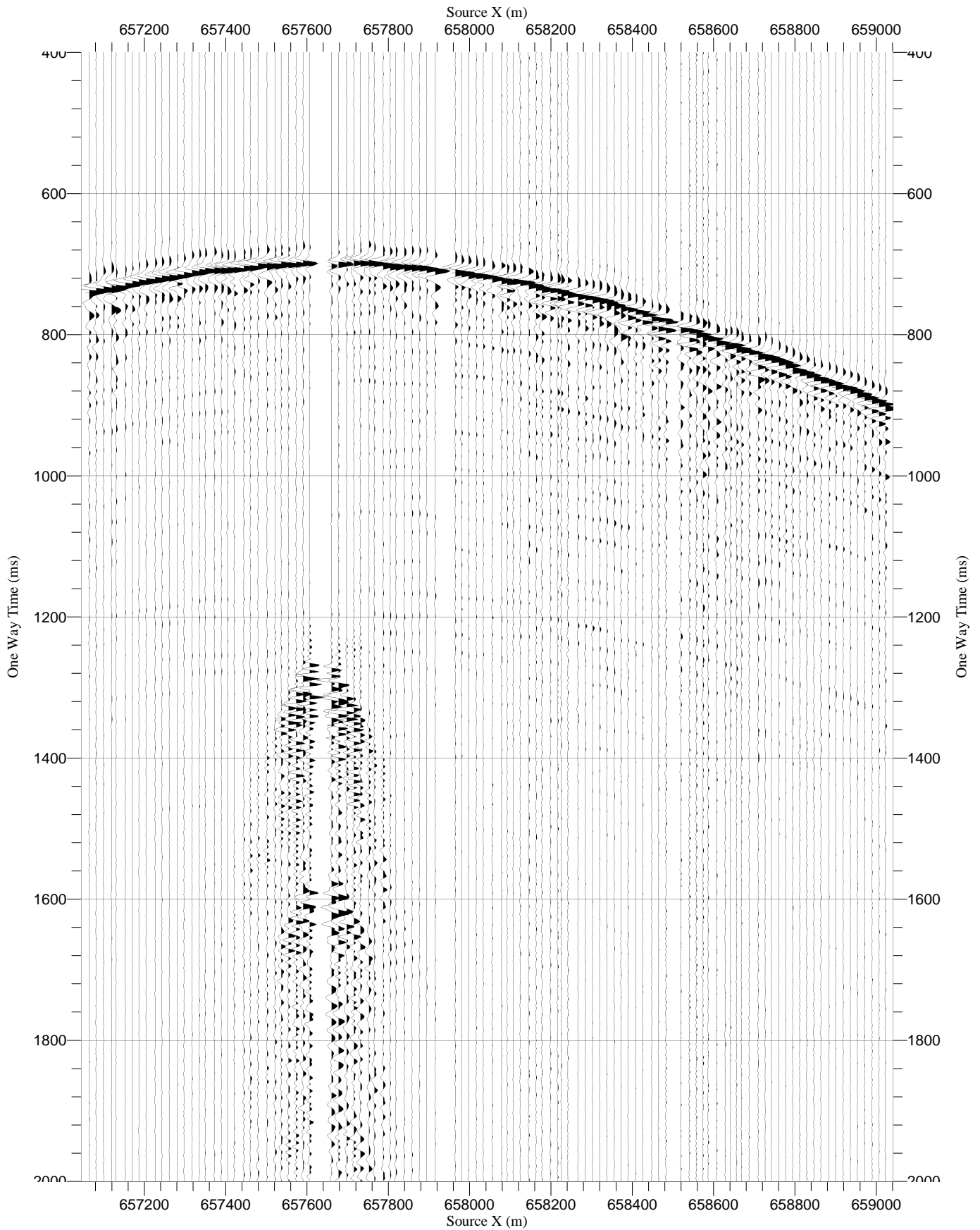
| | | |
|------------------|---|---|
| RawStack Y VSI-7 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




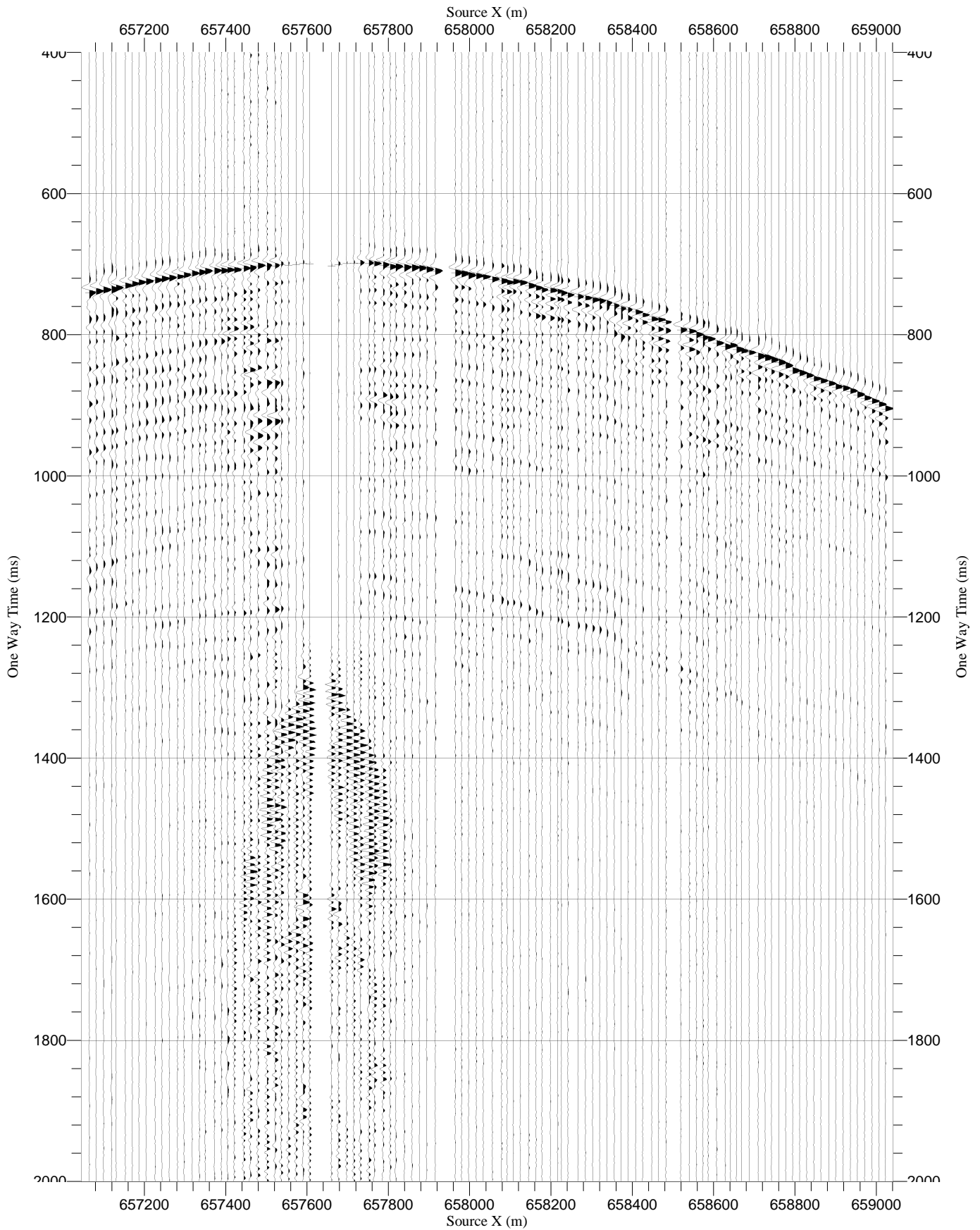
| | | |
|------------------|---|---|
| RawStack X VSI-7 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|



| | | |
|--------------------|---|---|
| RawStack TRY VSI-7 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




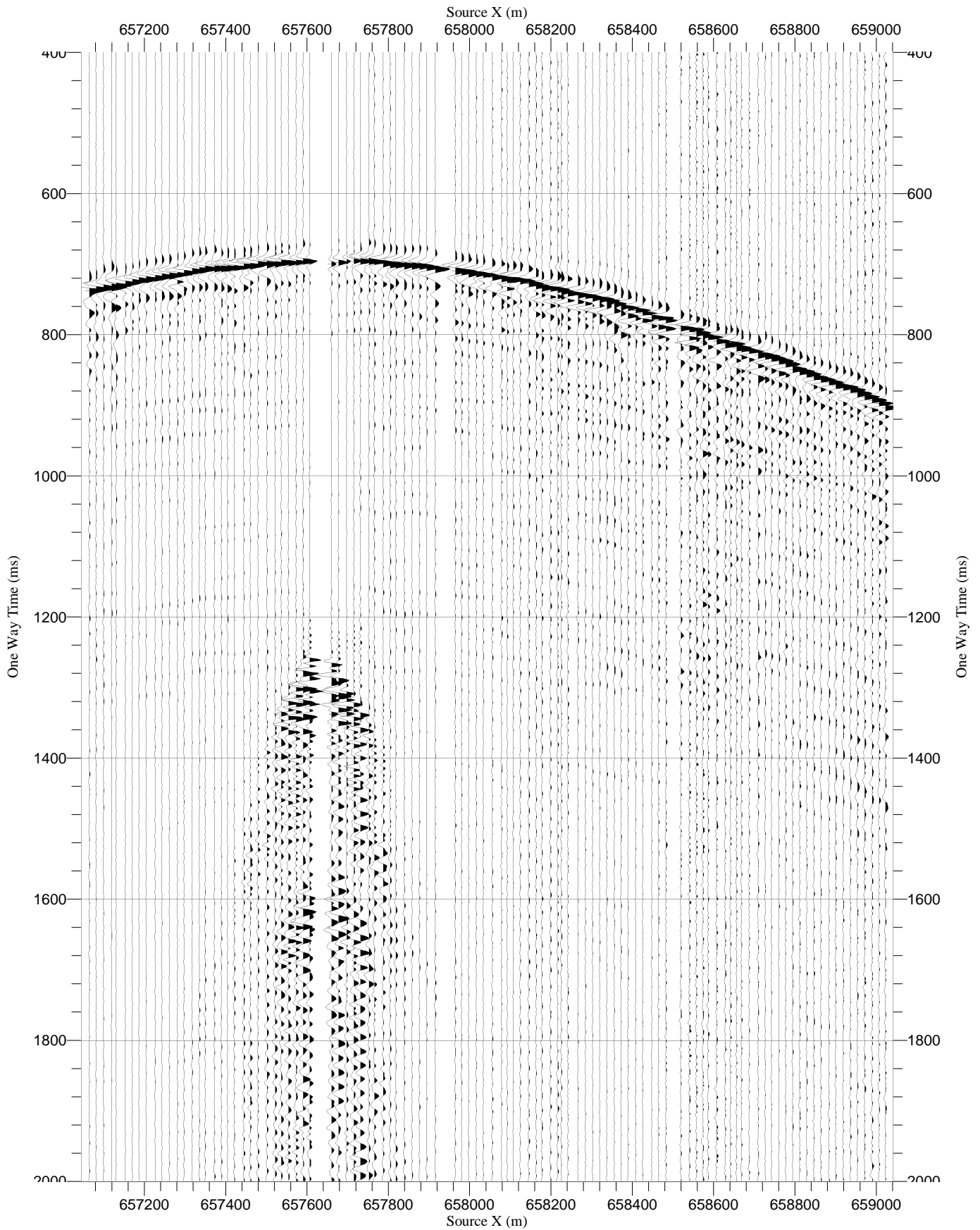
| | | |
|--------------------|---|---|
| RawStack HMX VSI-7 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




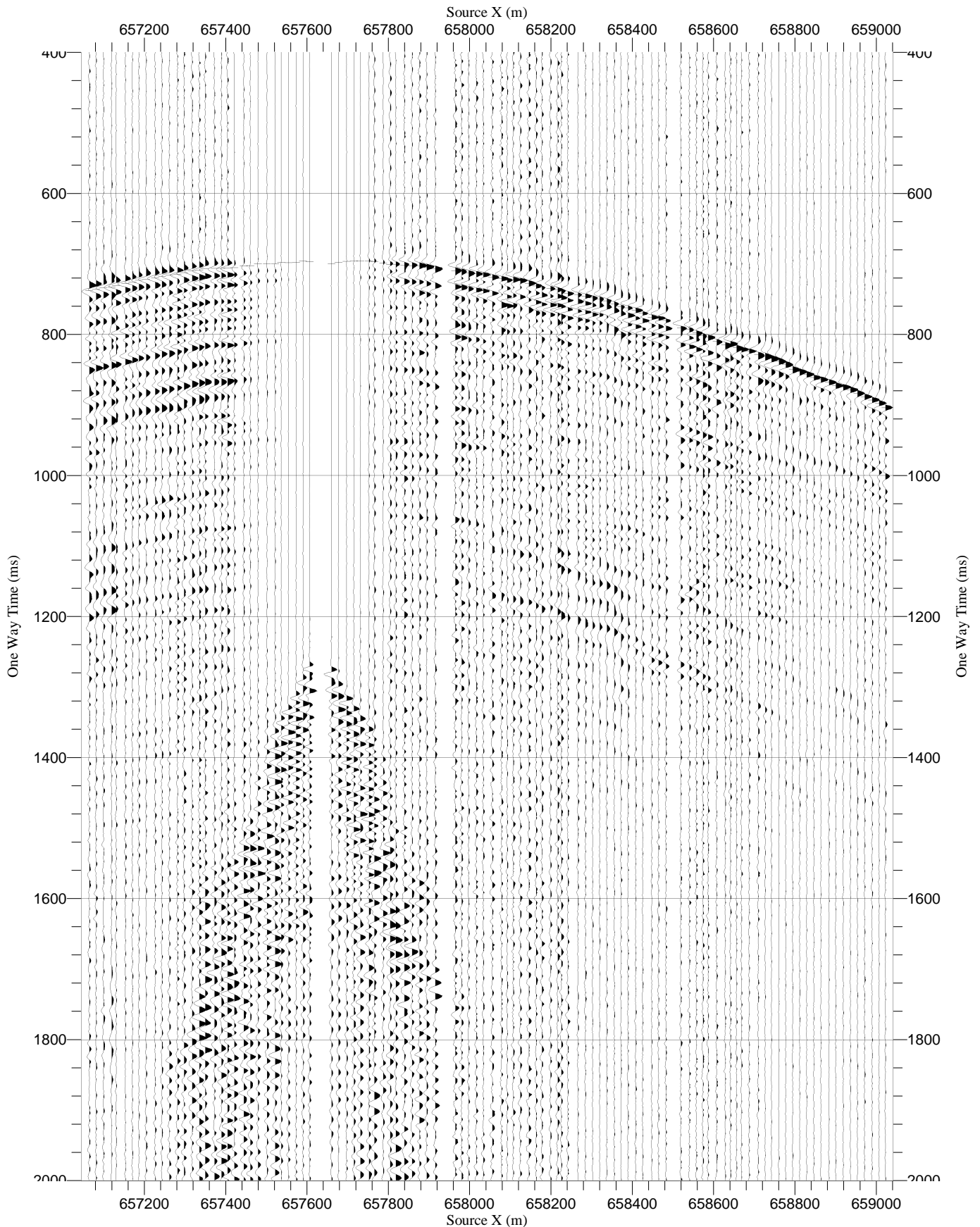
VSI-6


(1780 m receiver gather WVSP Line-A)

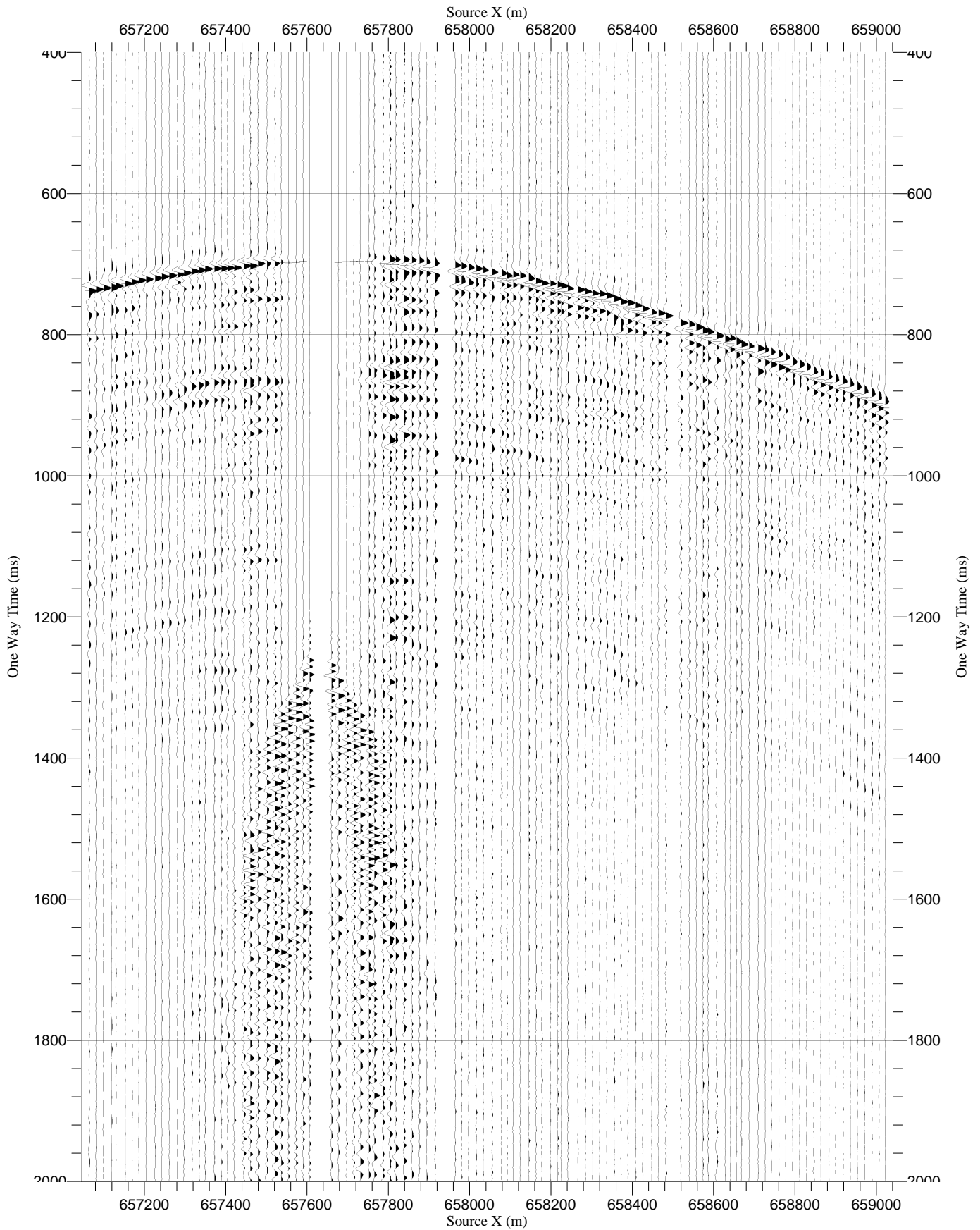
| | | |
|------------------|---|---|
| RawStack Z VSI-6 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




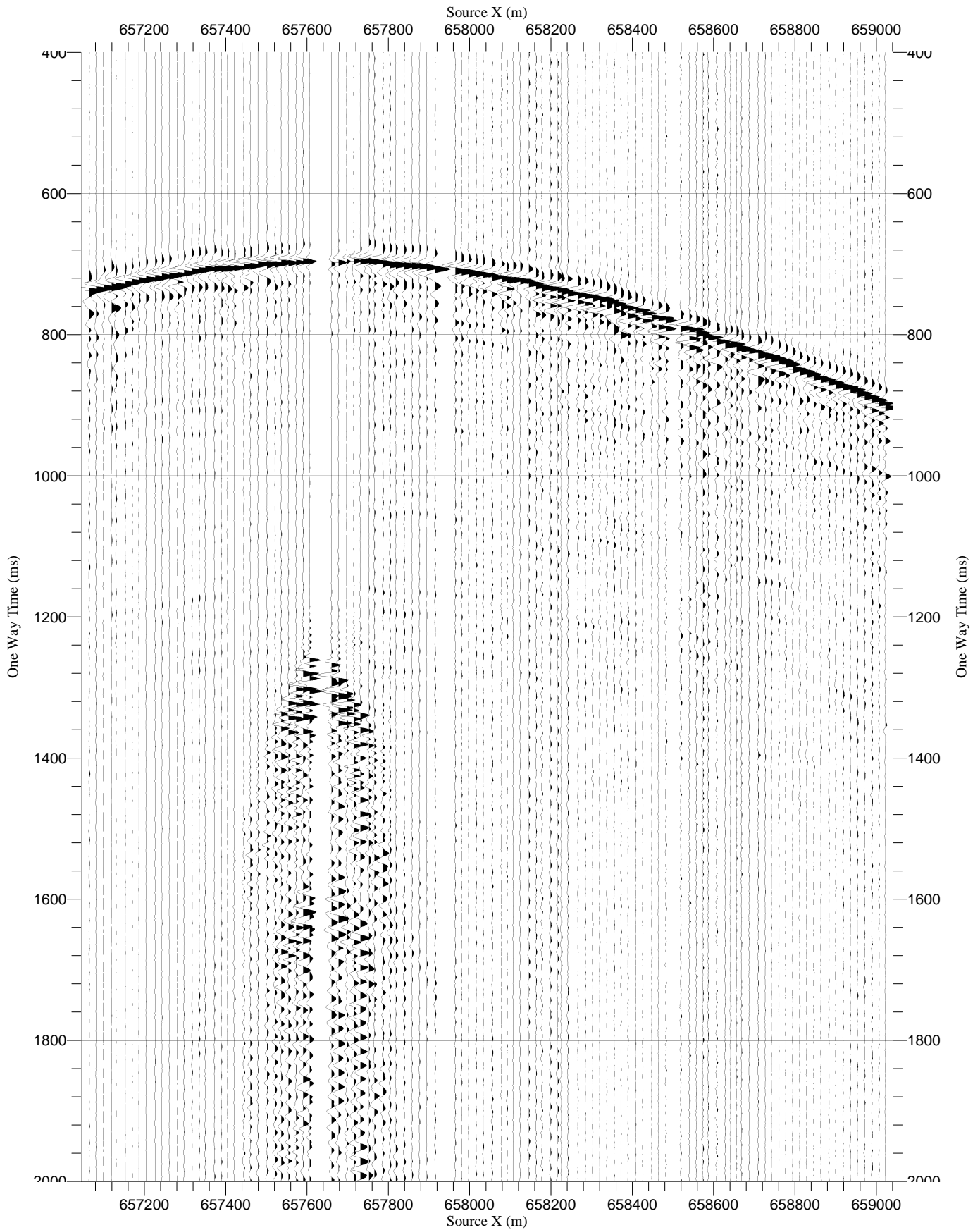
| | | |
|------------------|---|---|
| RawStack Y VSI-6 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




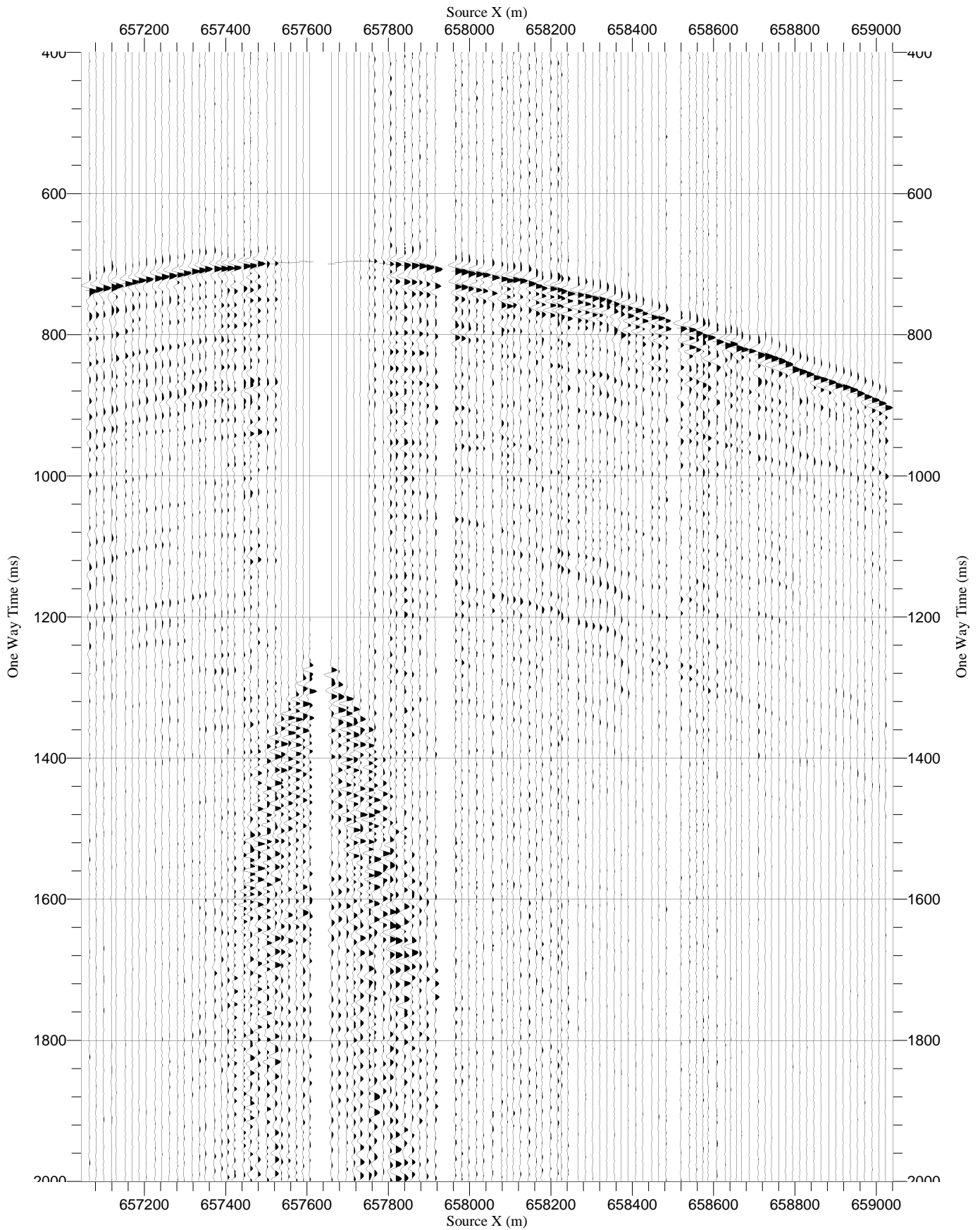
| | | |
|------------------|---|---|
| RawStack X VSI-6 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|



| | | |
|--------------------|---|---|
| RawStack TRY VSI-6 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




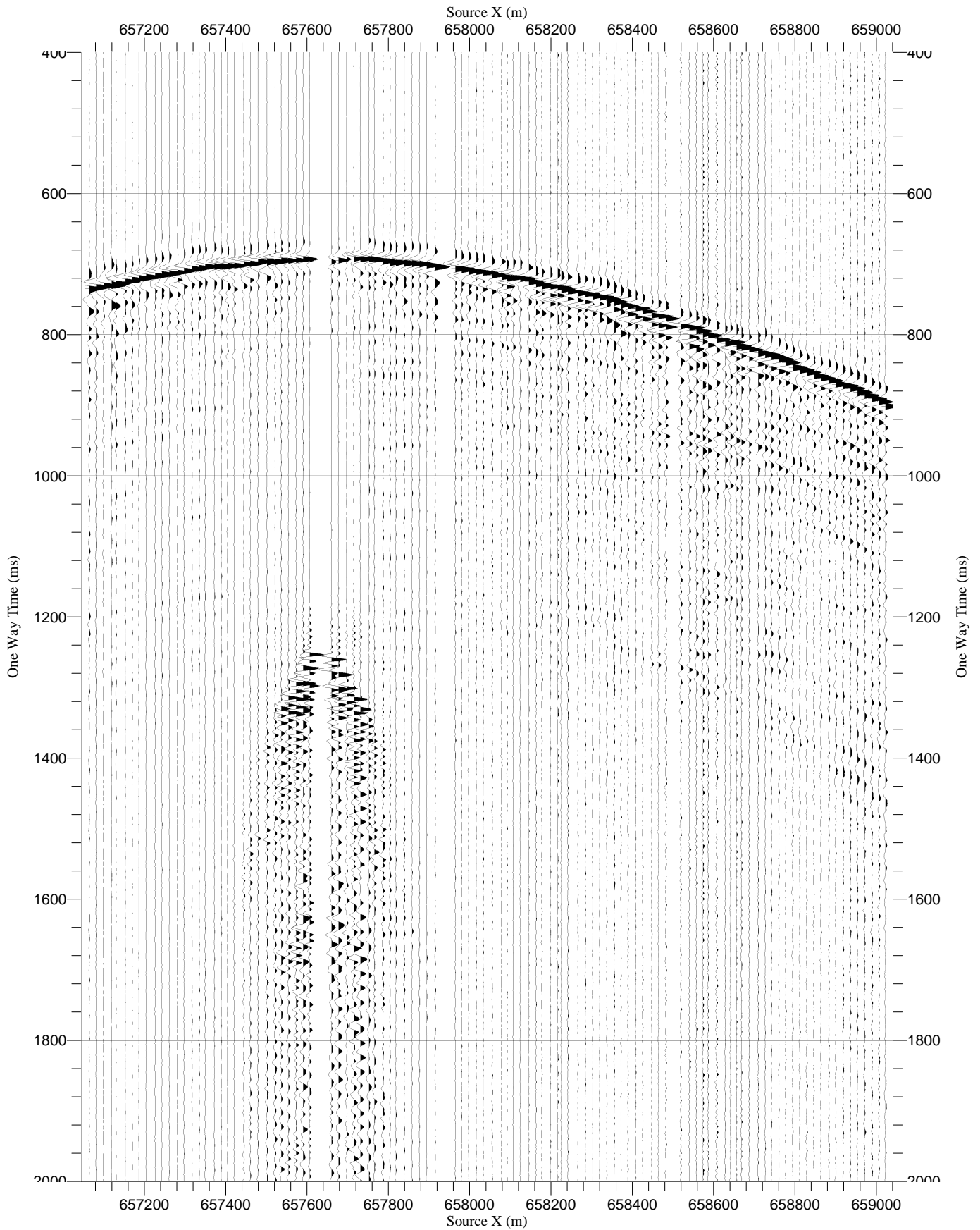
| | | |
|--------------------|---|---|
| RawStack HMX VSI-6 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




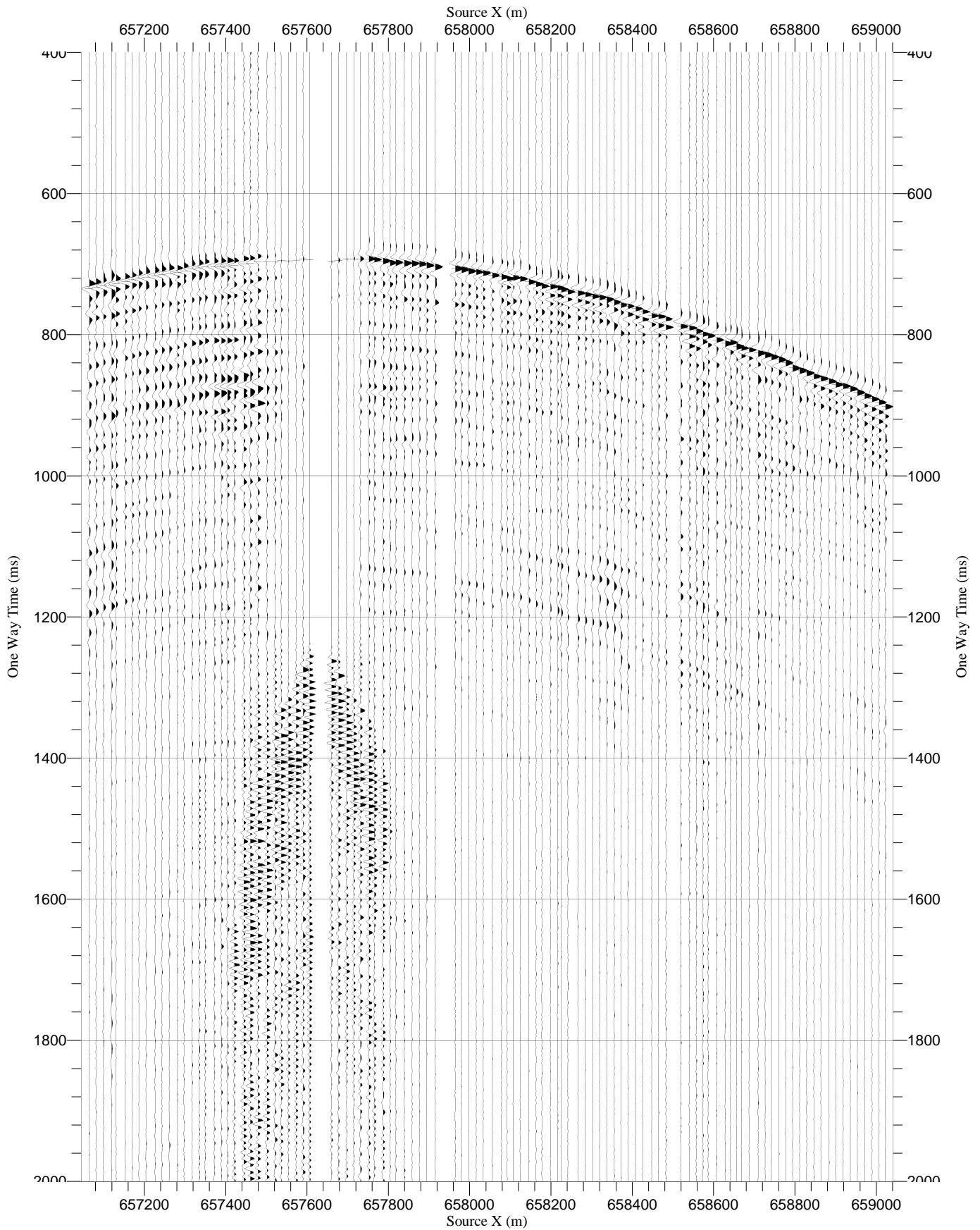
VSI-5


(1770 m receiver gather WVSP Line-A)

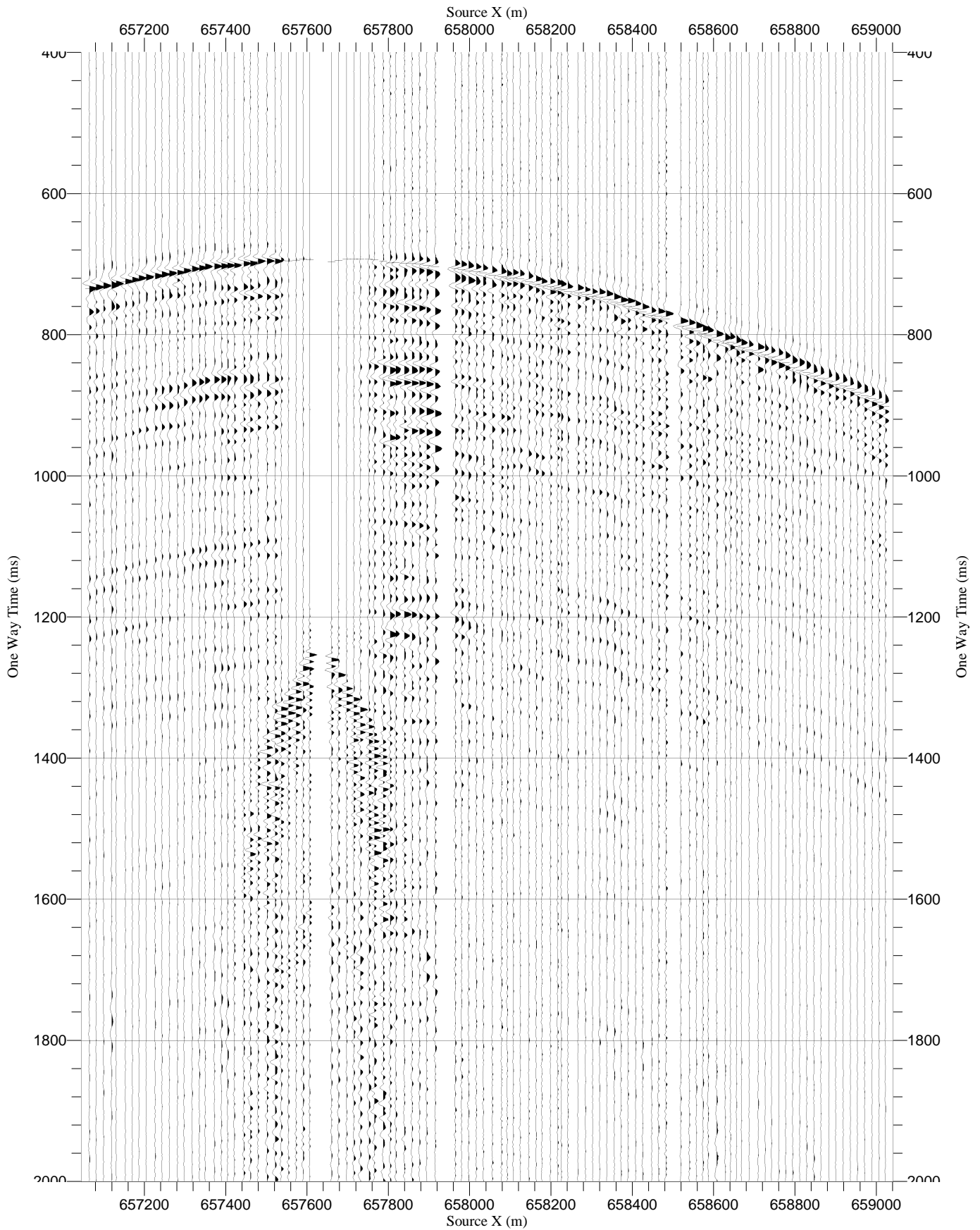
| | | |
|------------------|---|---|
| RawStack Z VSI-5 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




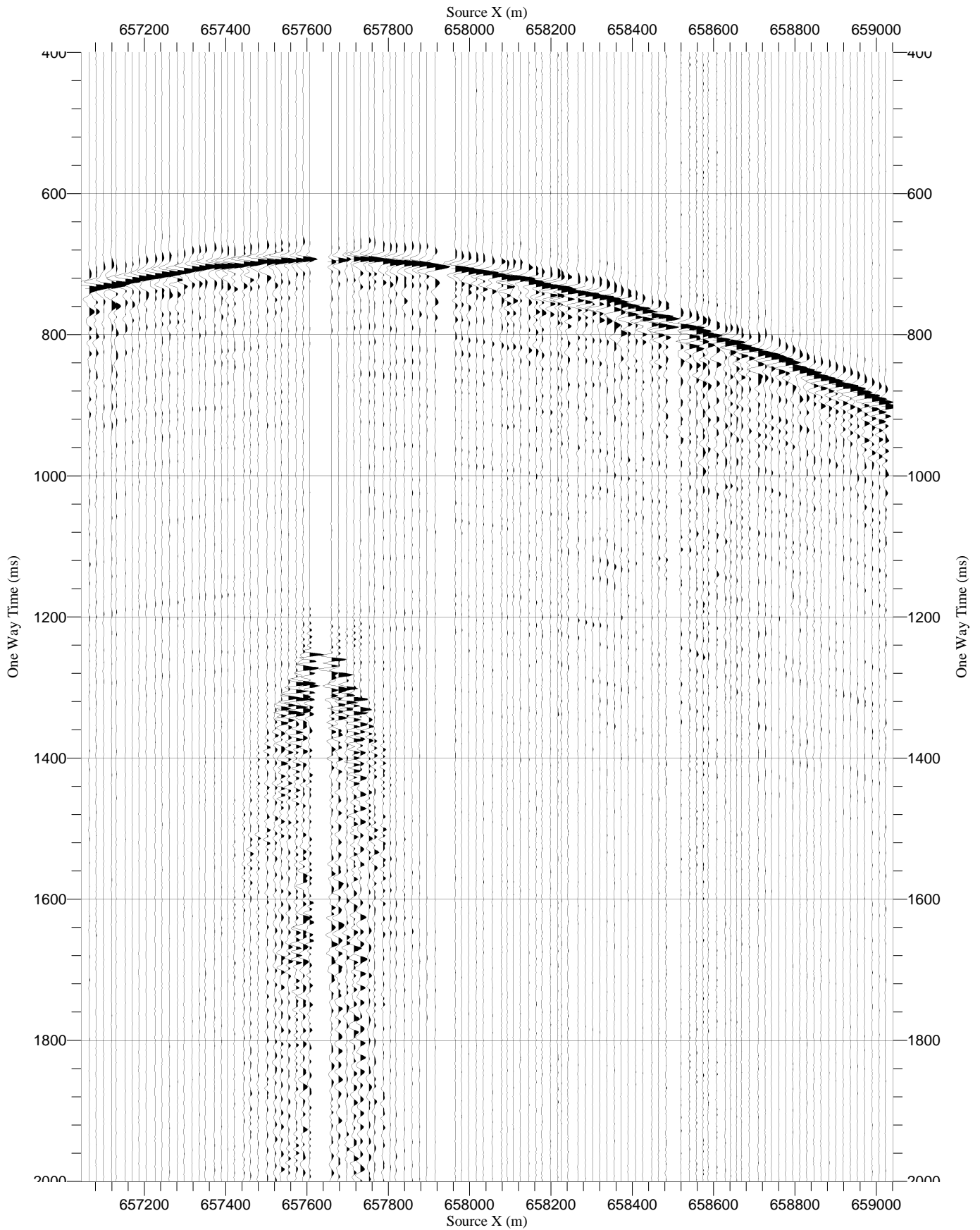
| | | |
|------------------|---|---|
| RawStack Y VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




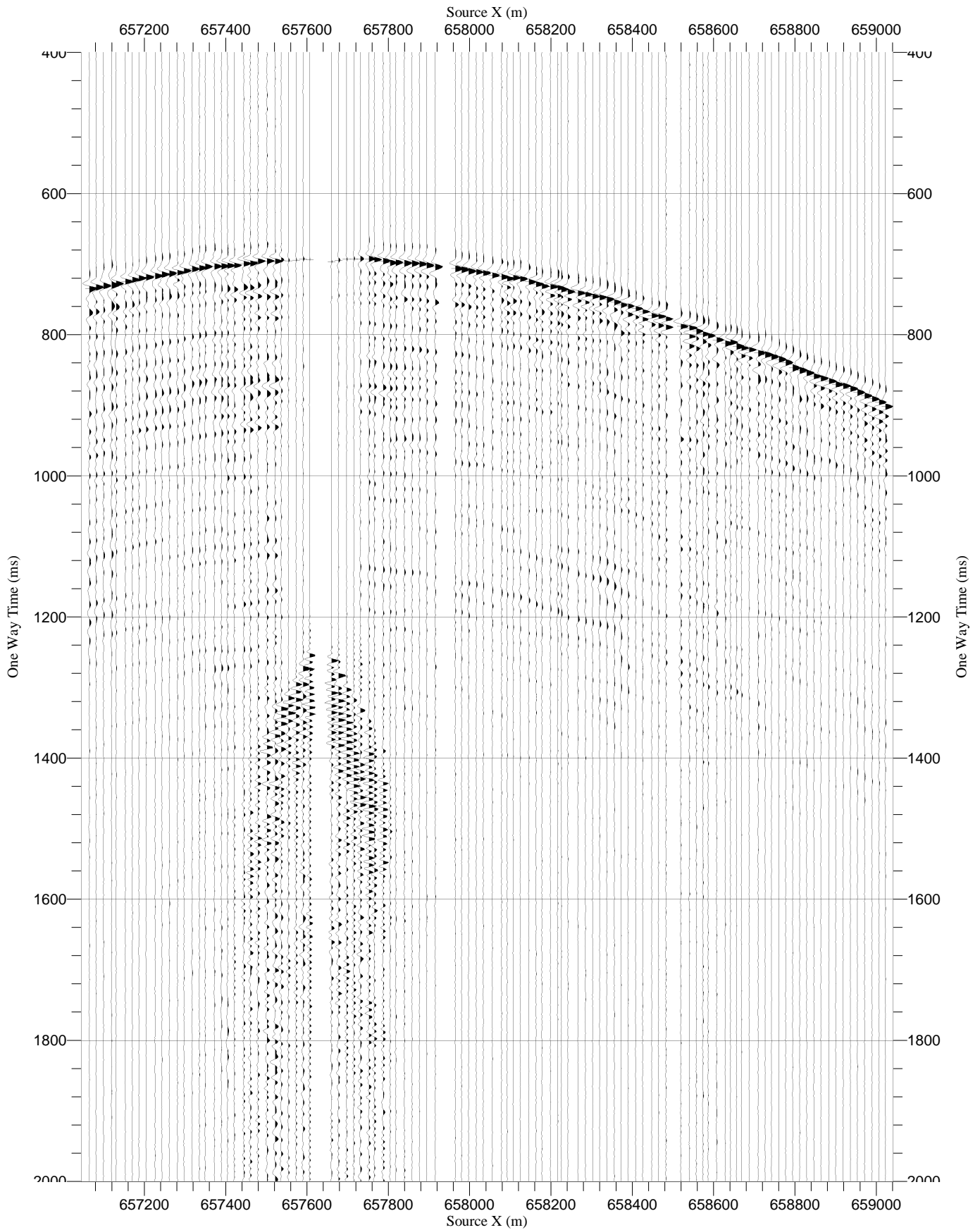
| | | |
|------------------|---|---|
| RawStack X VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|



| | | |
|--------------------|---|---|
| RawStack TRY VSI-5 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




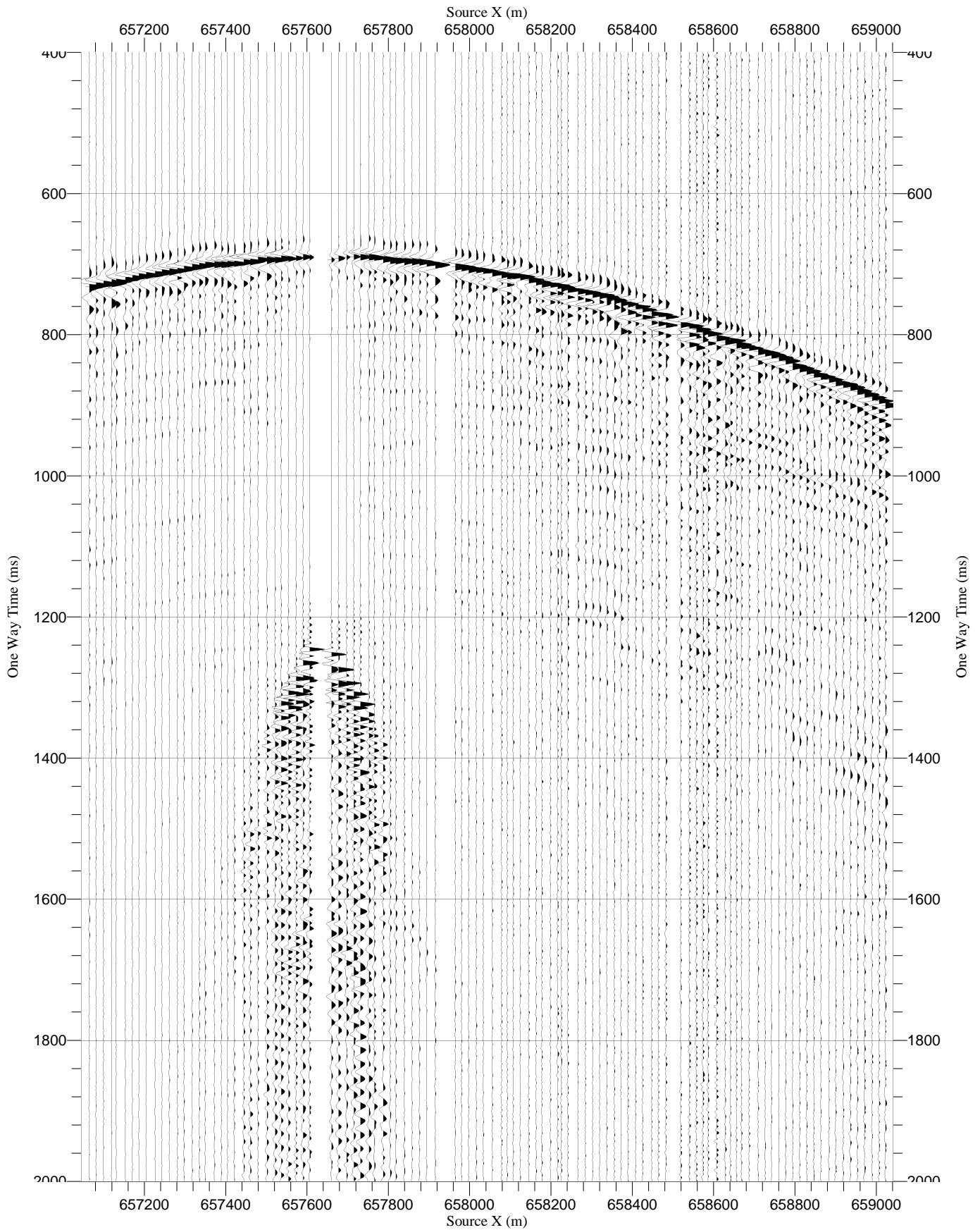
| | | |
|--------------------|---|---|
| RawStack HMX VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




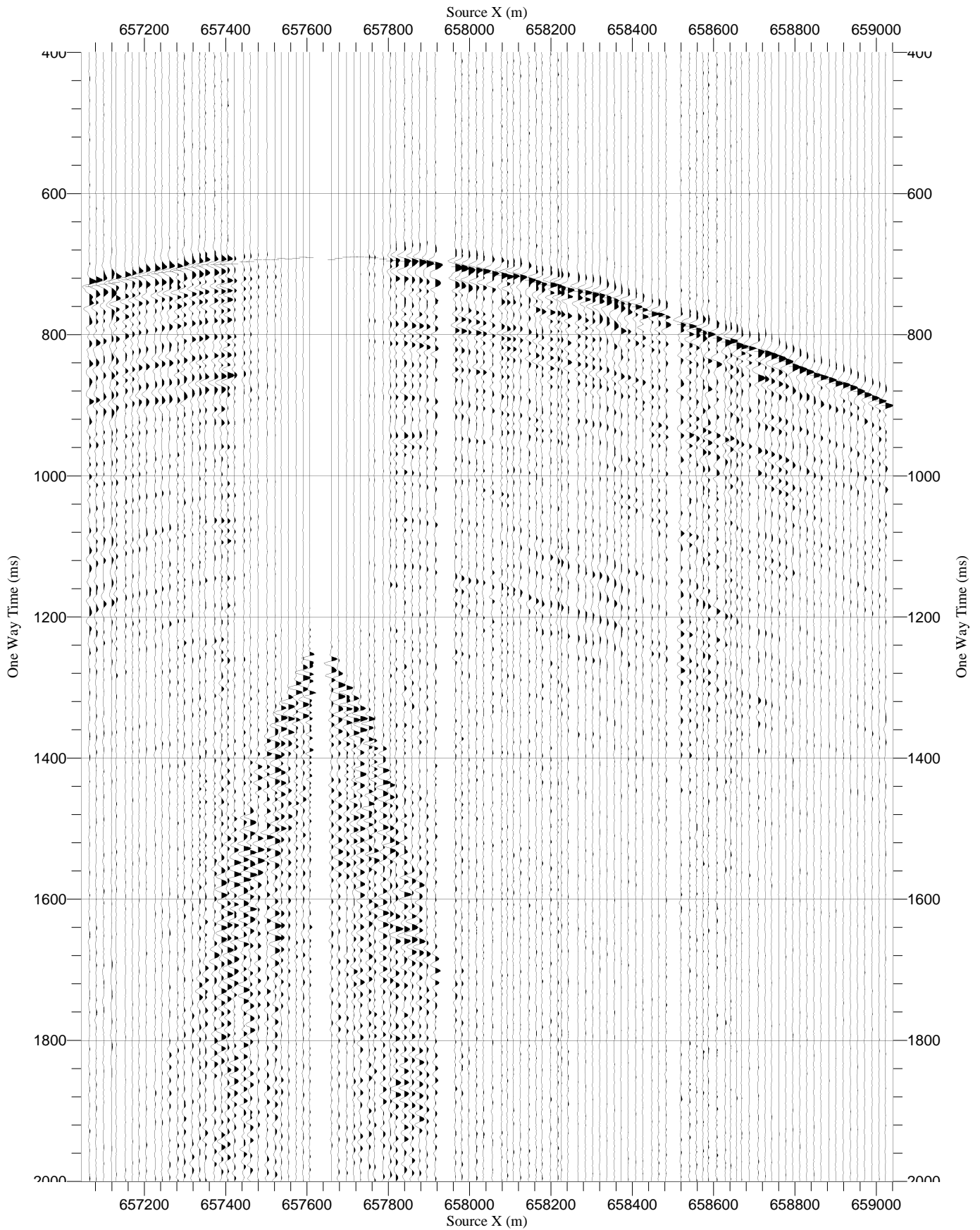
VSI-4


(1760 m receiver gather WVSP Line-A)

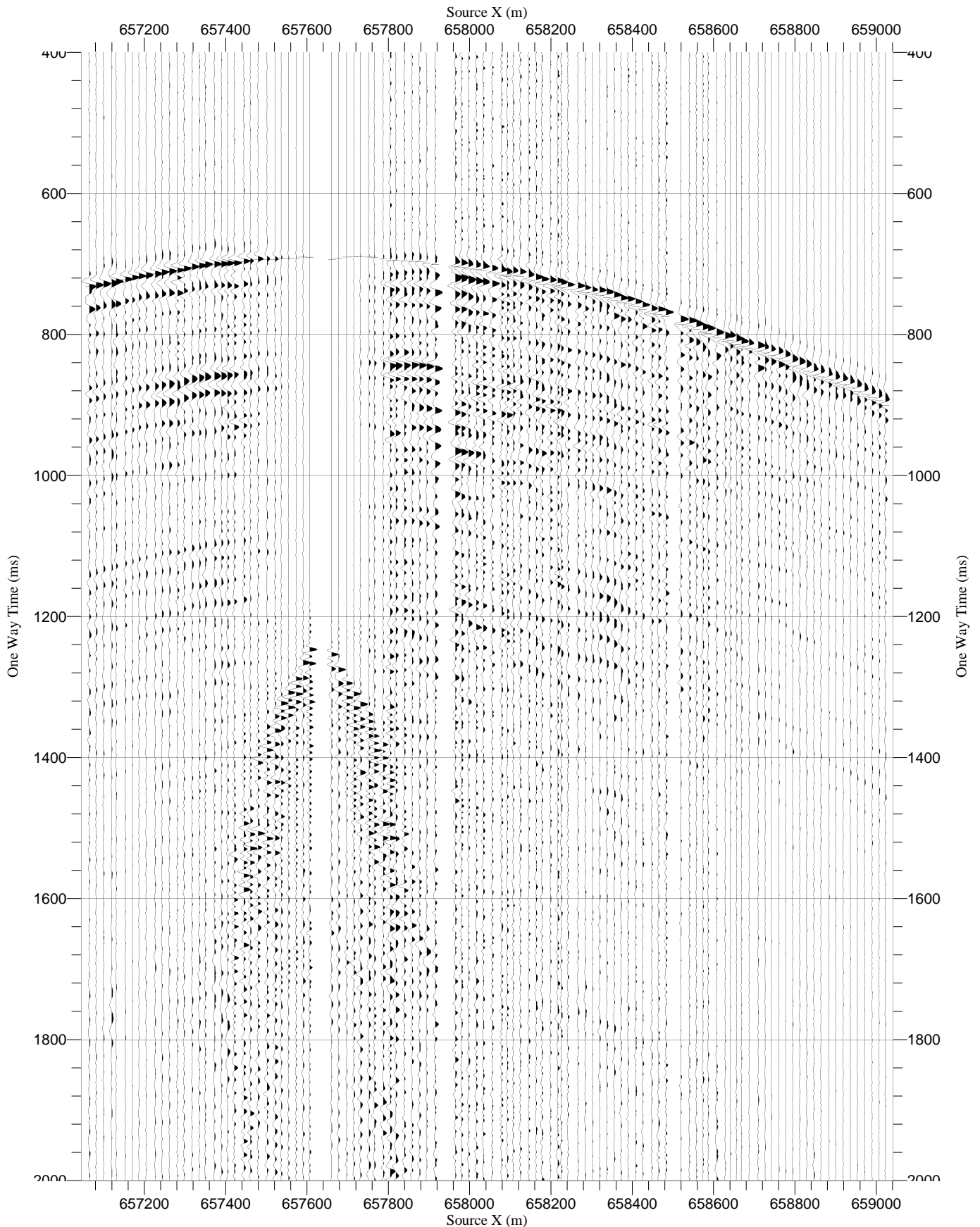
| | | |
|------------------|---|---|
| RawStack Z VSI-4 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




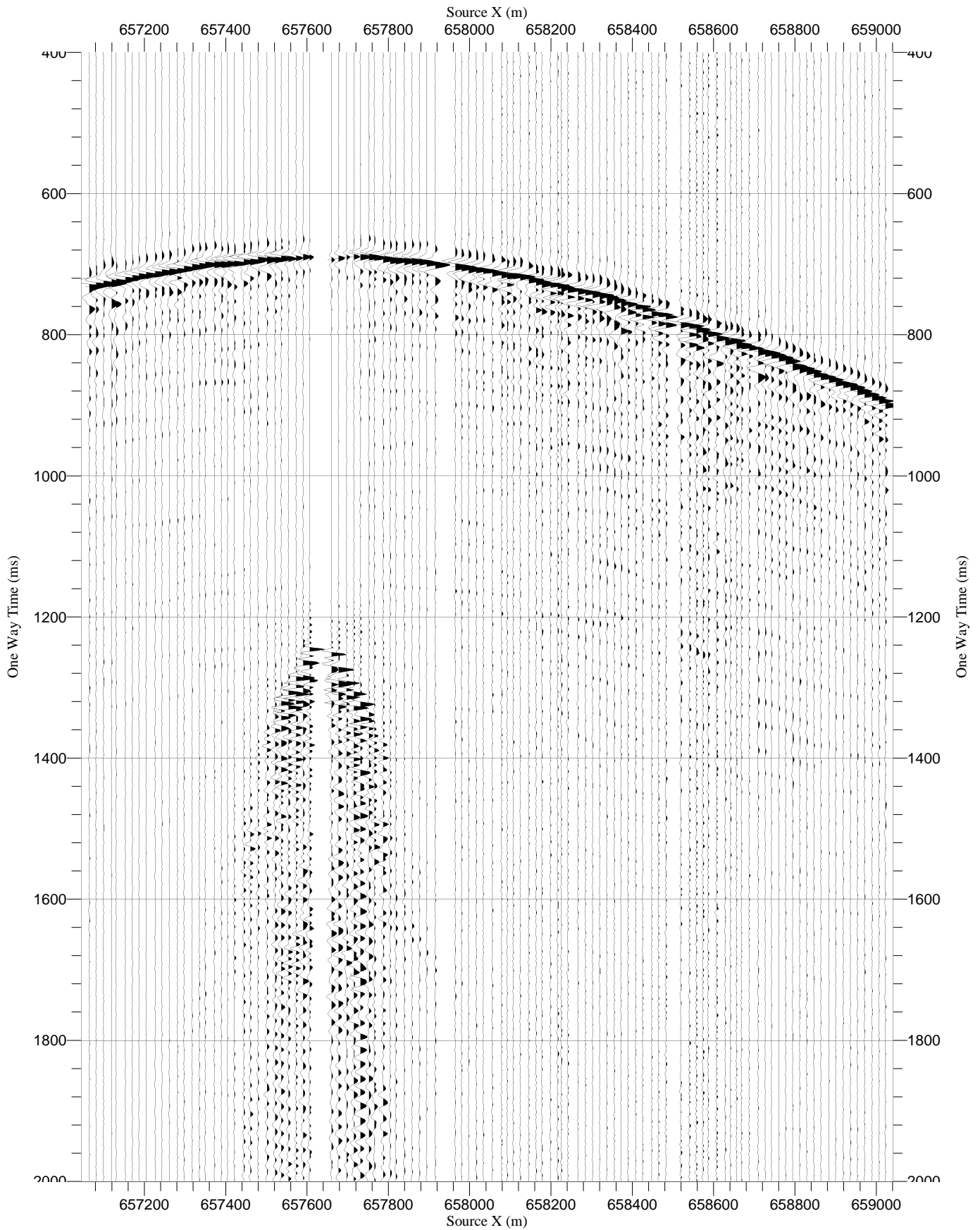
| | | |
|------------------|---|---|
| RawStack Y VSI-4 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




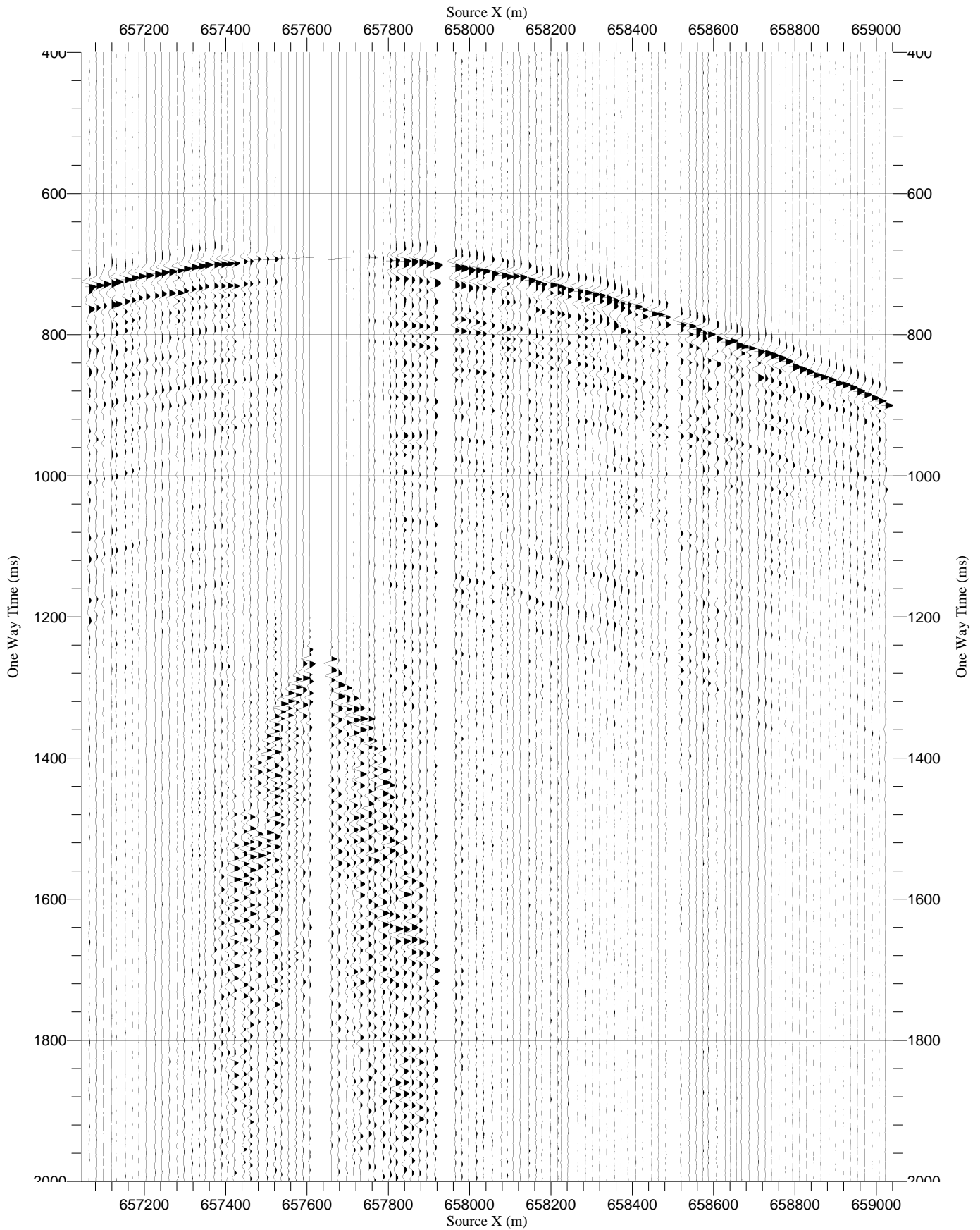
| | | |
|------------------|---|---|
| RawStack X VSI-4 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|



| | | |
|--------------------|---|---|
| RawStack TRY VSI-4 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




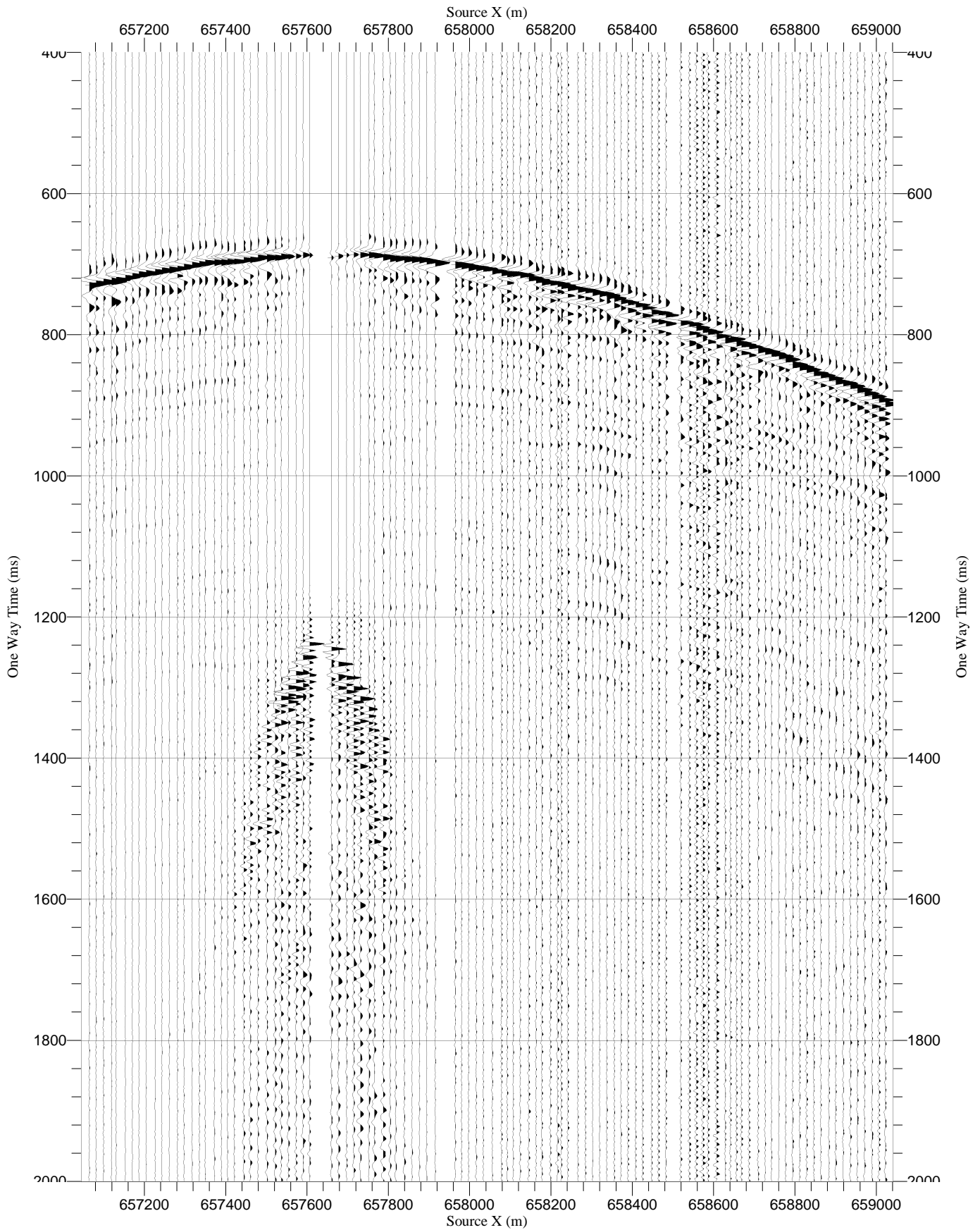
| | | |
|--------------------|---|---|
| RawStack HMX VSI-4 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




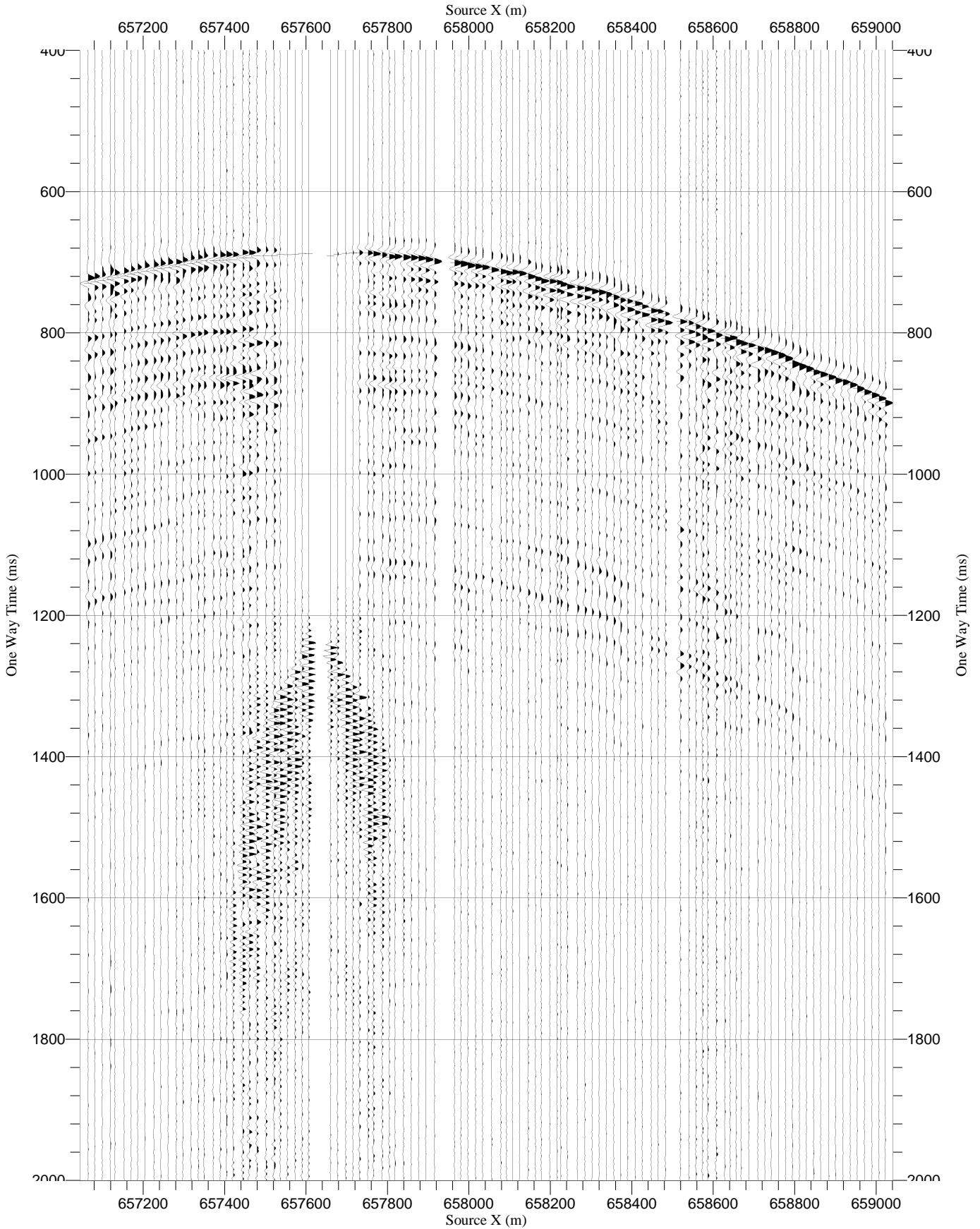
VSI-3


(1750 m receiver gather WVSP Line-A)

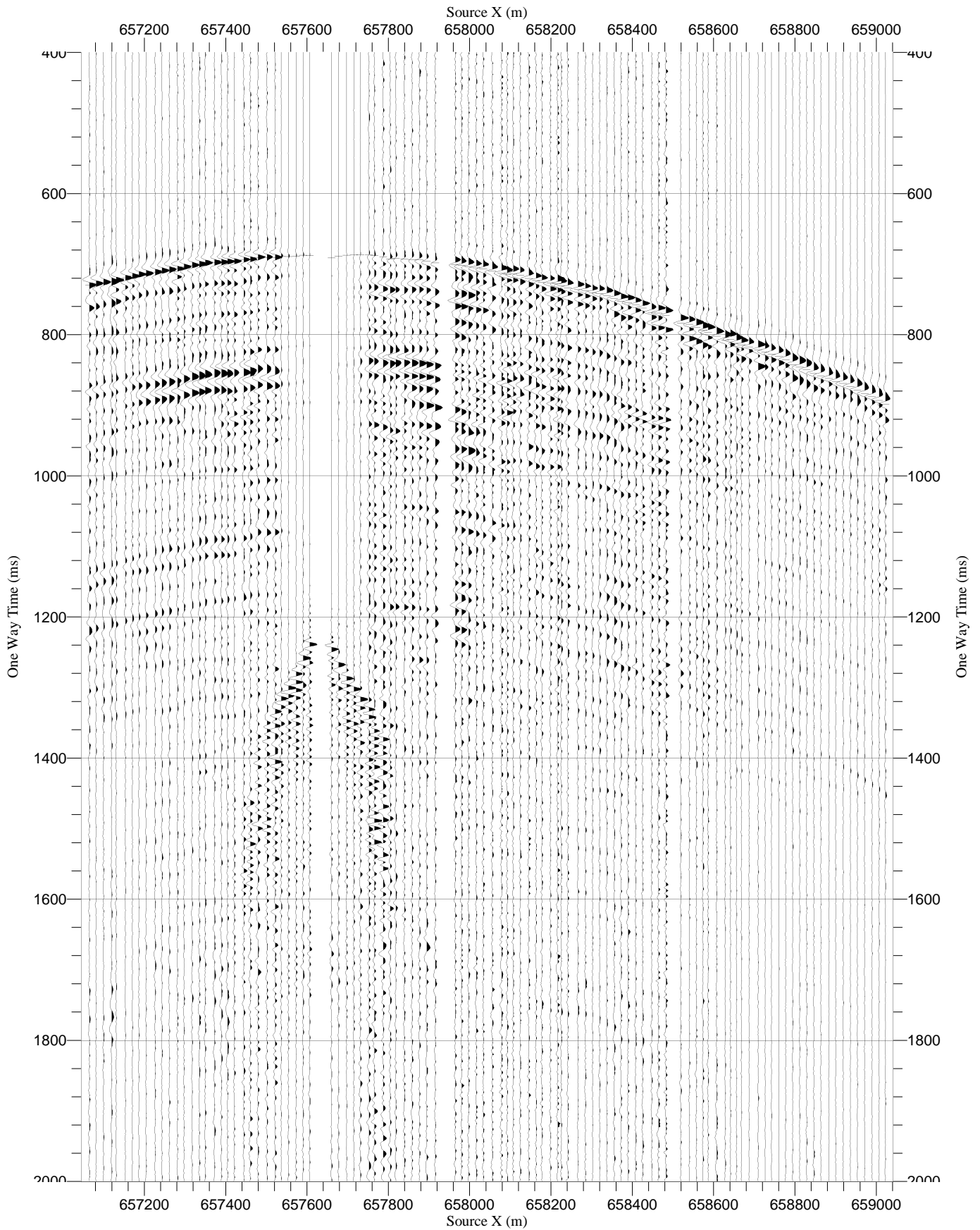
| | | |
|------------------|---|---|
| RawStack Z VSI-3 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




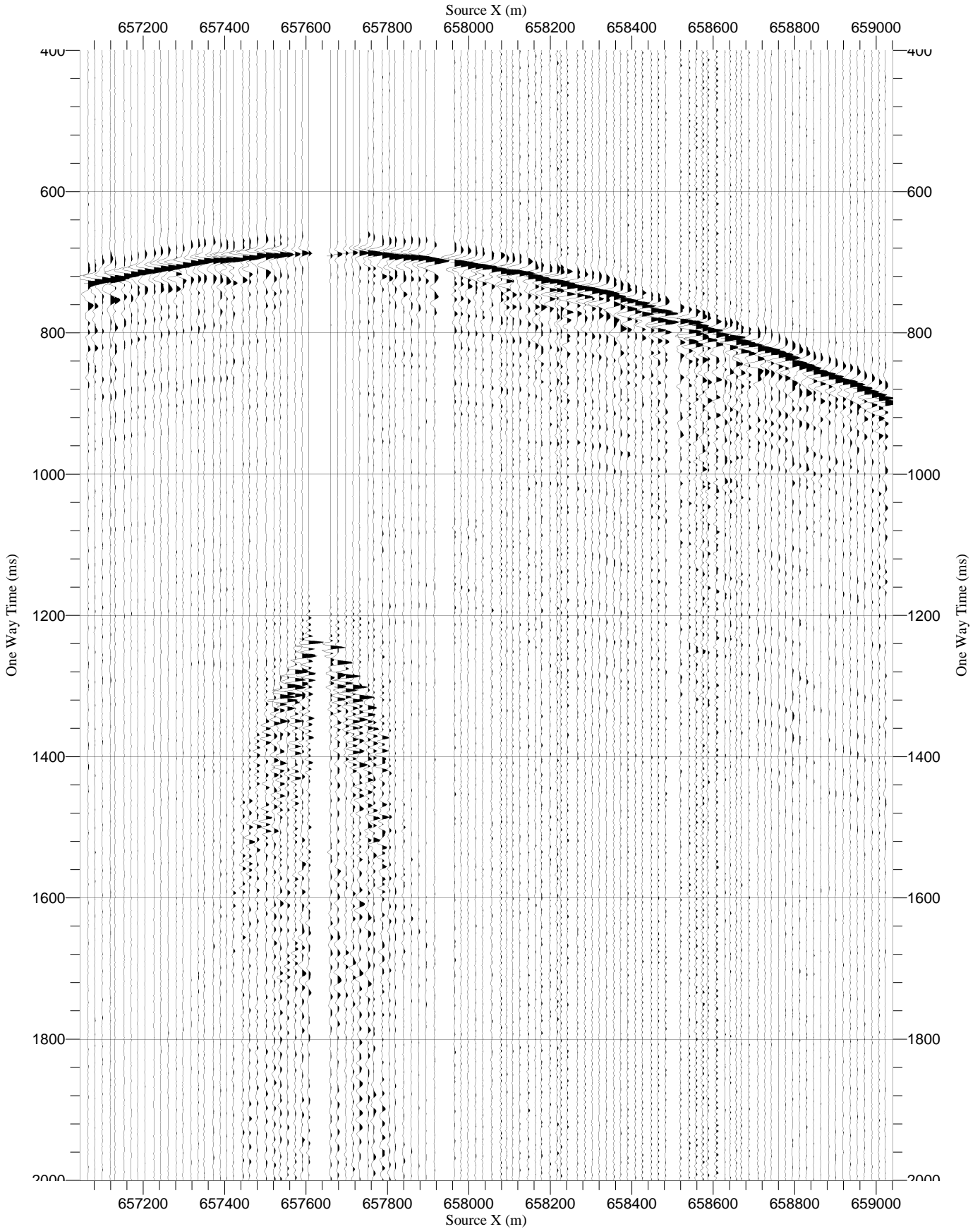
| | | |
|------------------|---|---|
| RawStack Y VSI-3 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




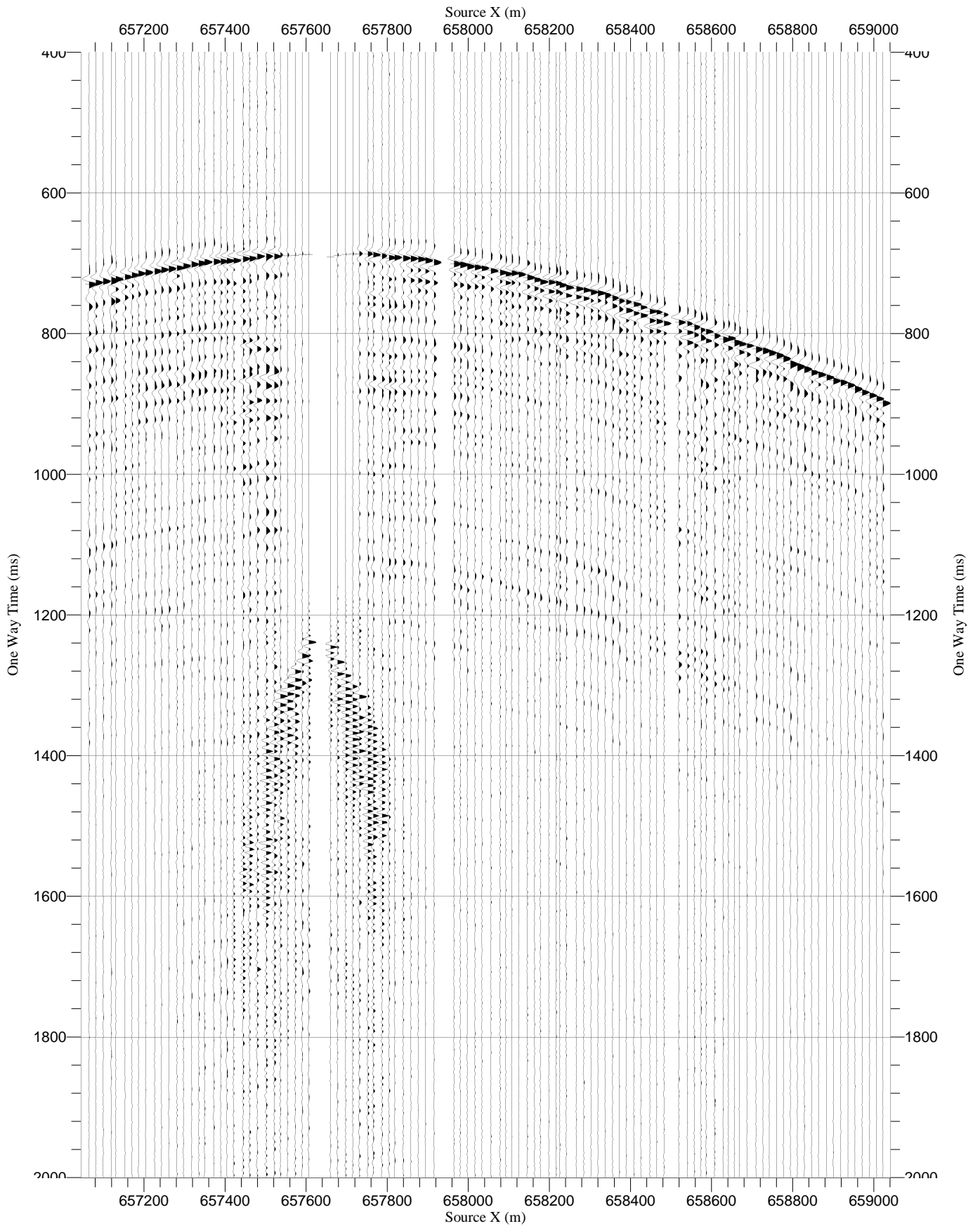
| | | |
|------------------|---|---|
| RawStack X VSI-3 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|



| | | |
|--------------------|---|---|
| RawStack TRY VSI-3 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




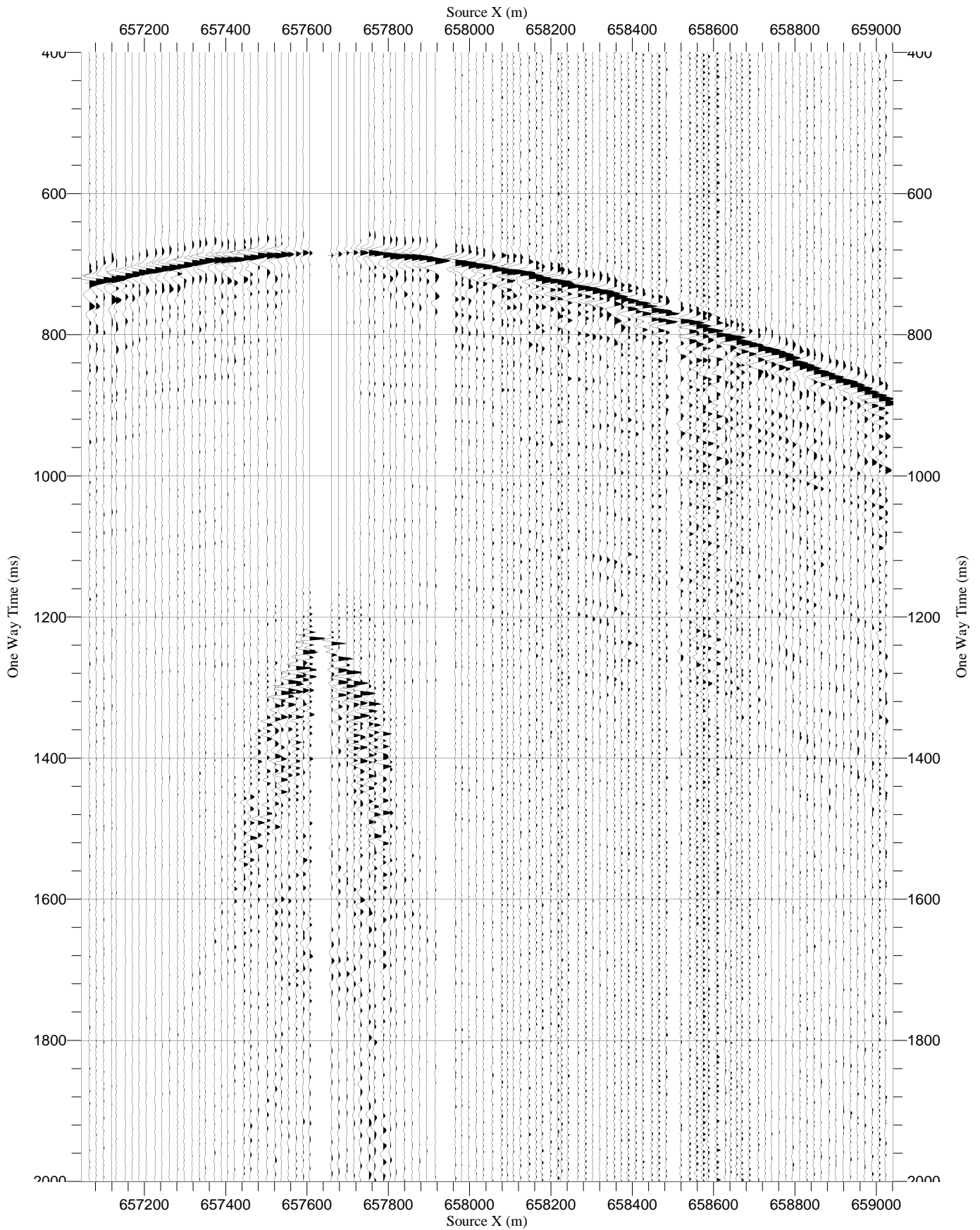
| | | |
|--------------------|---|---|
| RawStack HMX VSI-3 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




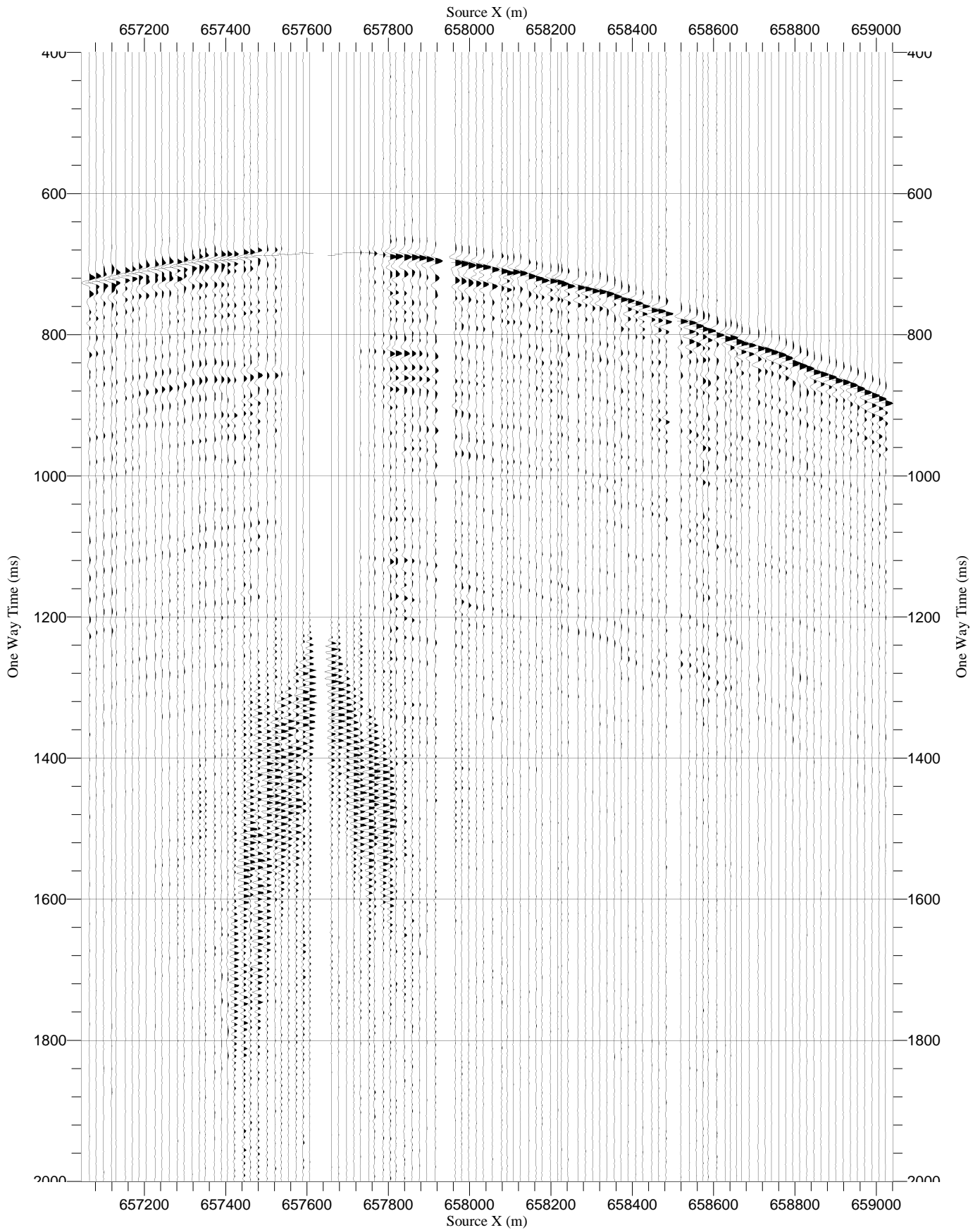
VSI-2


(1740 m receiver gather WVSP Line-A)

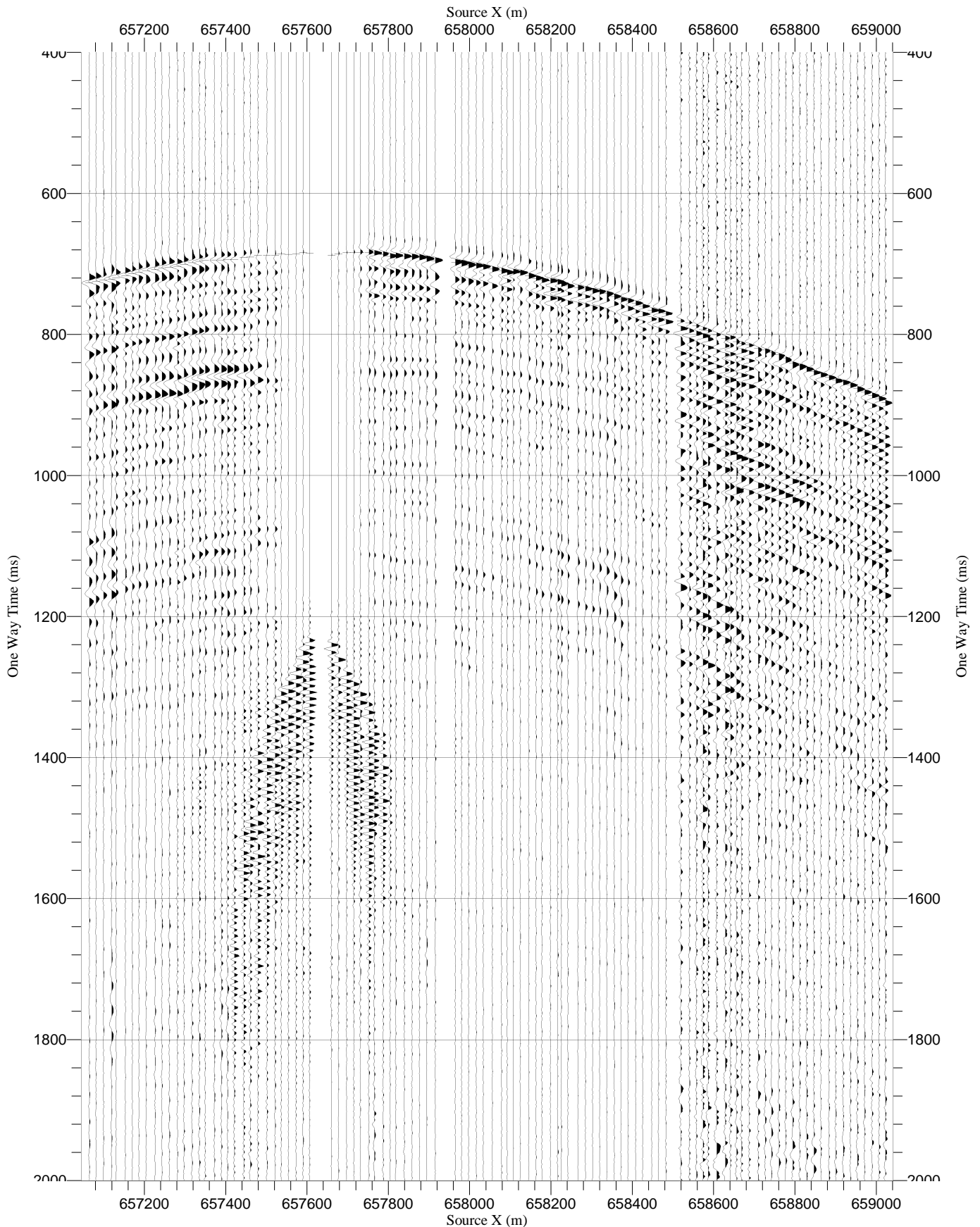
| | | |
|------------------|---|---|
| RawStack Z VSI-2 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|

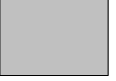


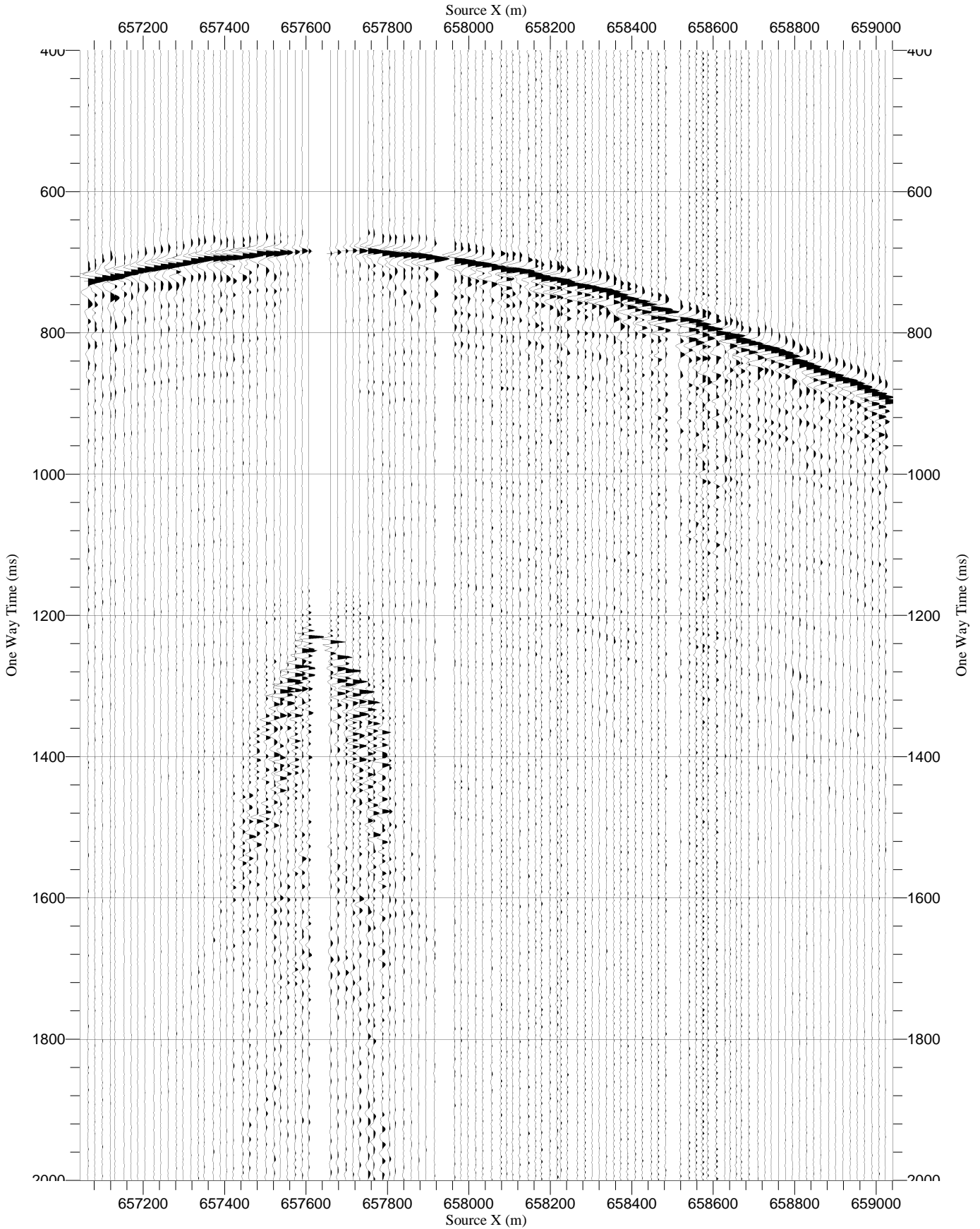
| | | |
|------------------|---|---|
| RawStack Y VSI-2 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




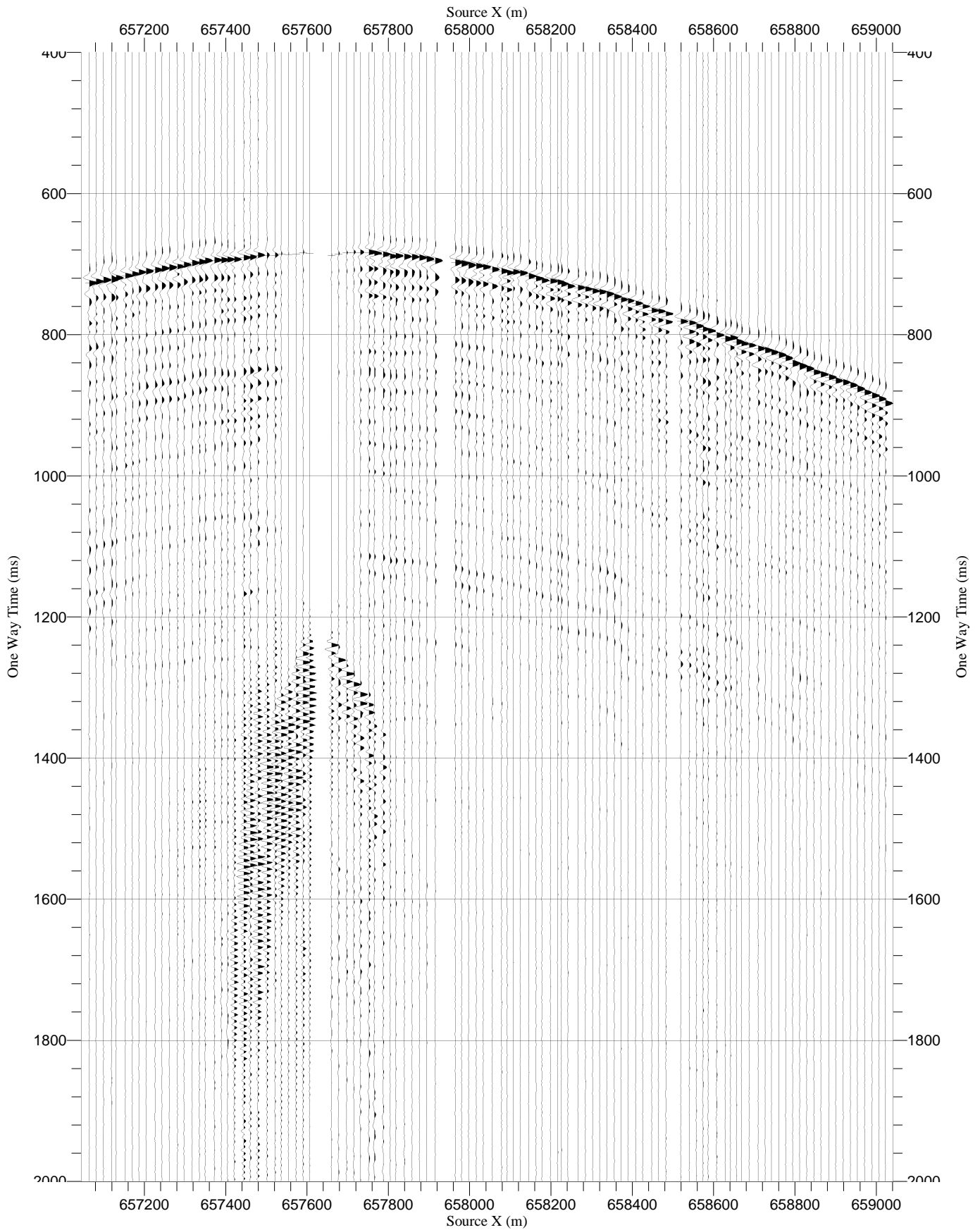
| | | |
|------------------|---|---|
| RawStack X VSI-2 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|



| | | |
|--------------------|---|---|
| RawStack TRY VSI-2 | Normalization Trace by Trace (200%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




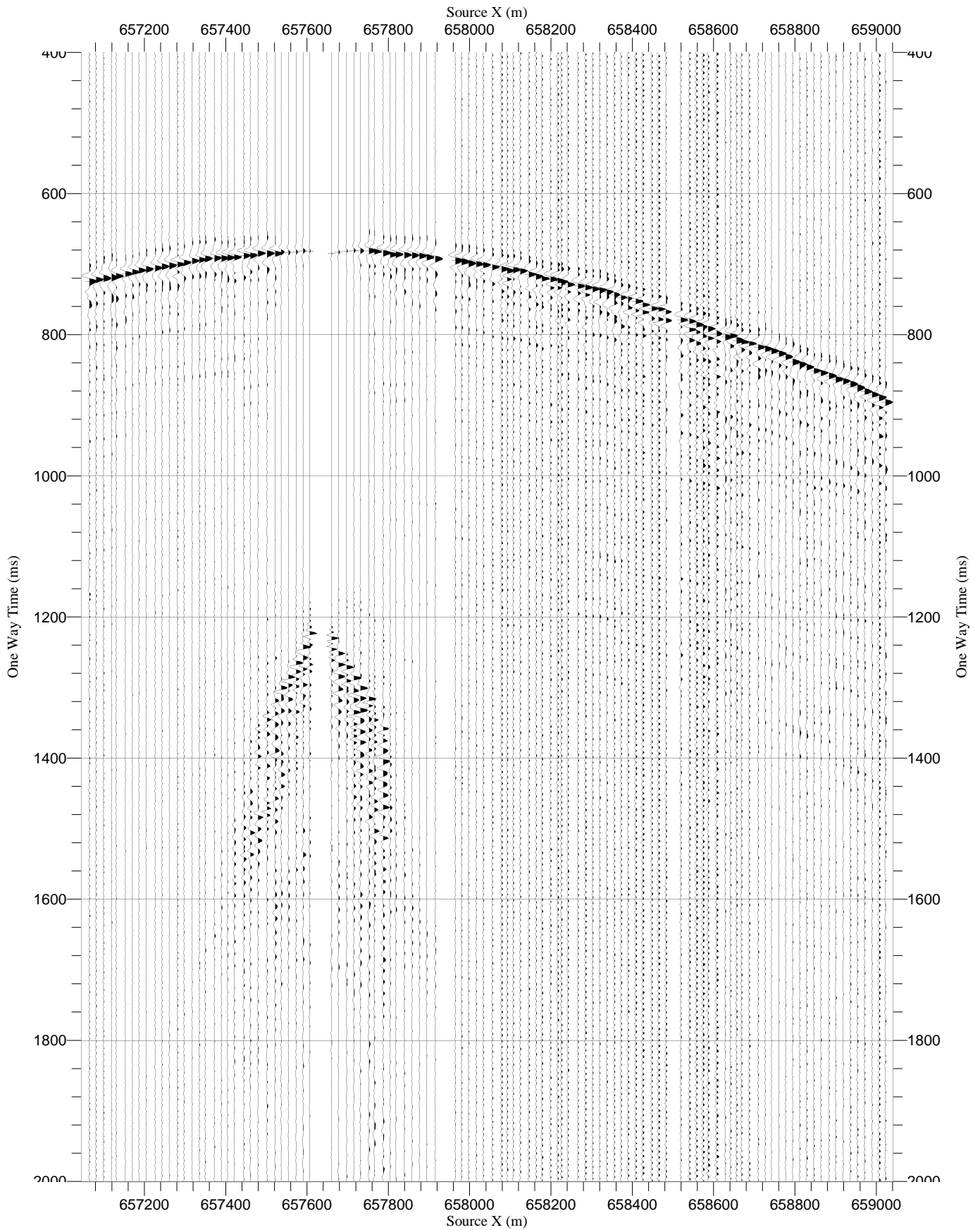
| | | |
|--------------------|---|---|
| RawStack HMX VSI-2 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|




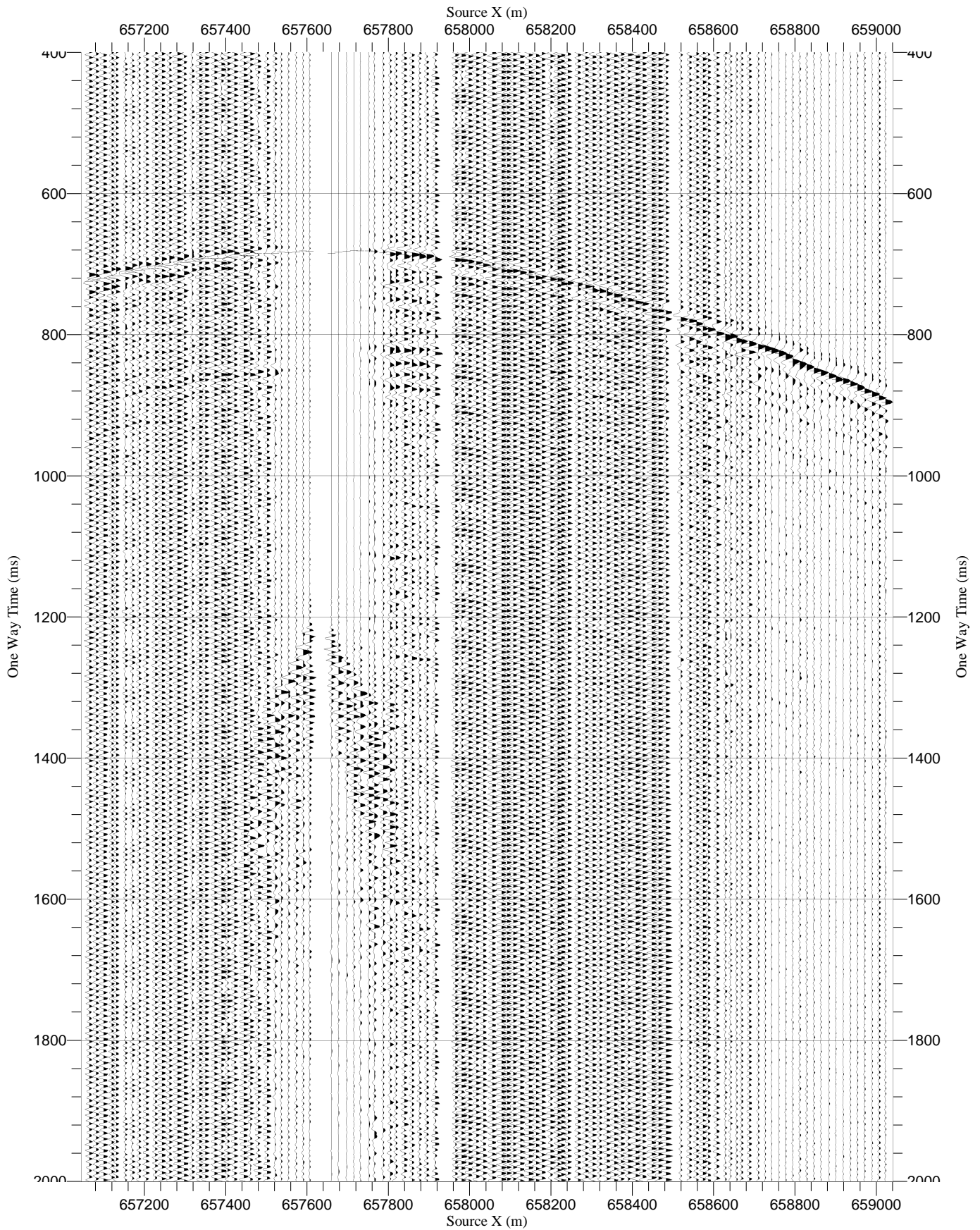
VSI-1


(1730 m receiver gather WVSP Line-A)

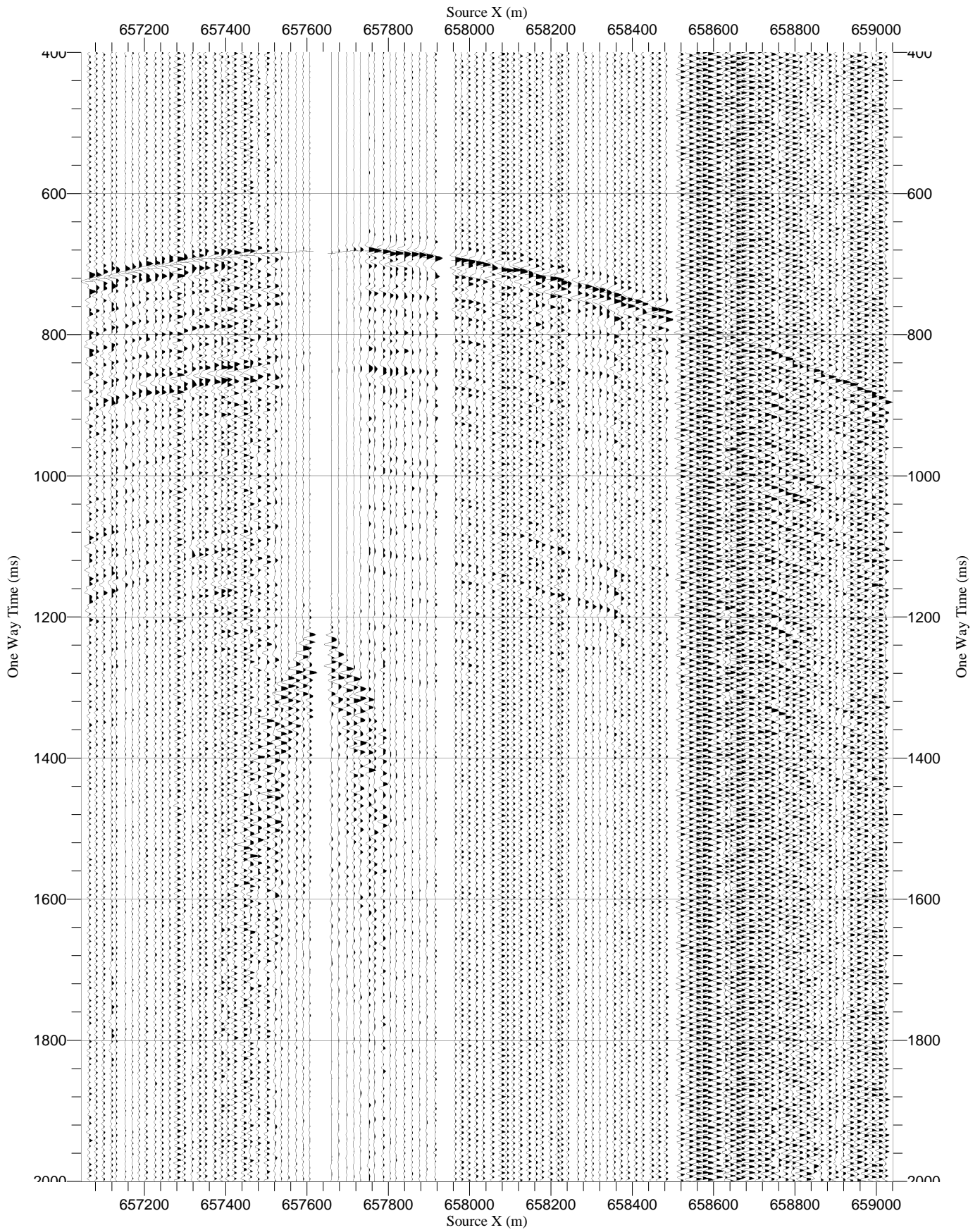
| | | |
|------------------|---|---|
| RawStack Z VSI-1 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




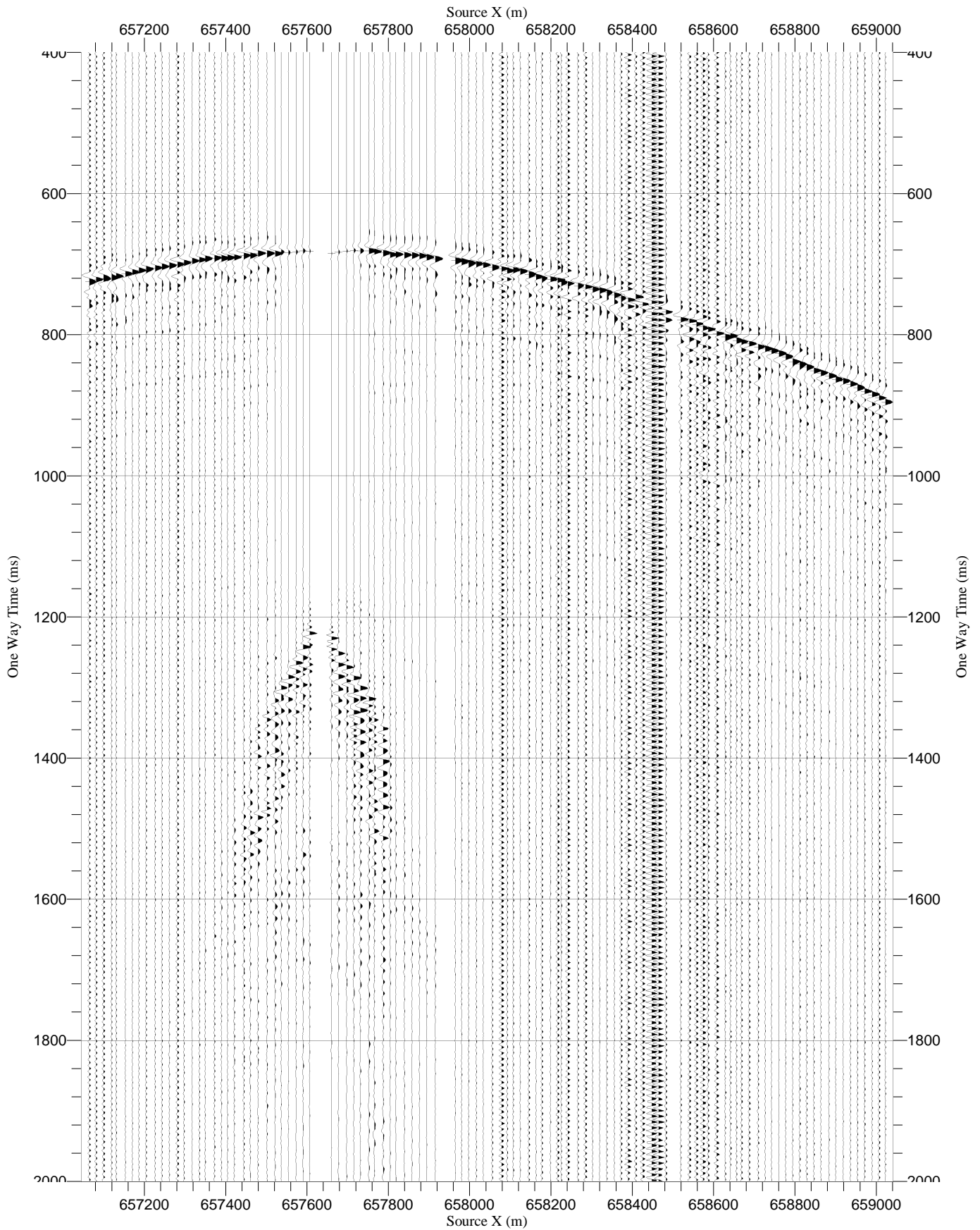
| | | |
|------------------|---|---|
| RawStack Y VSI-1 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




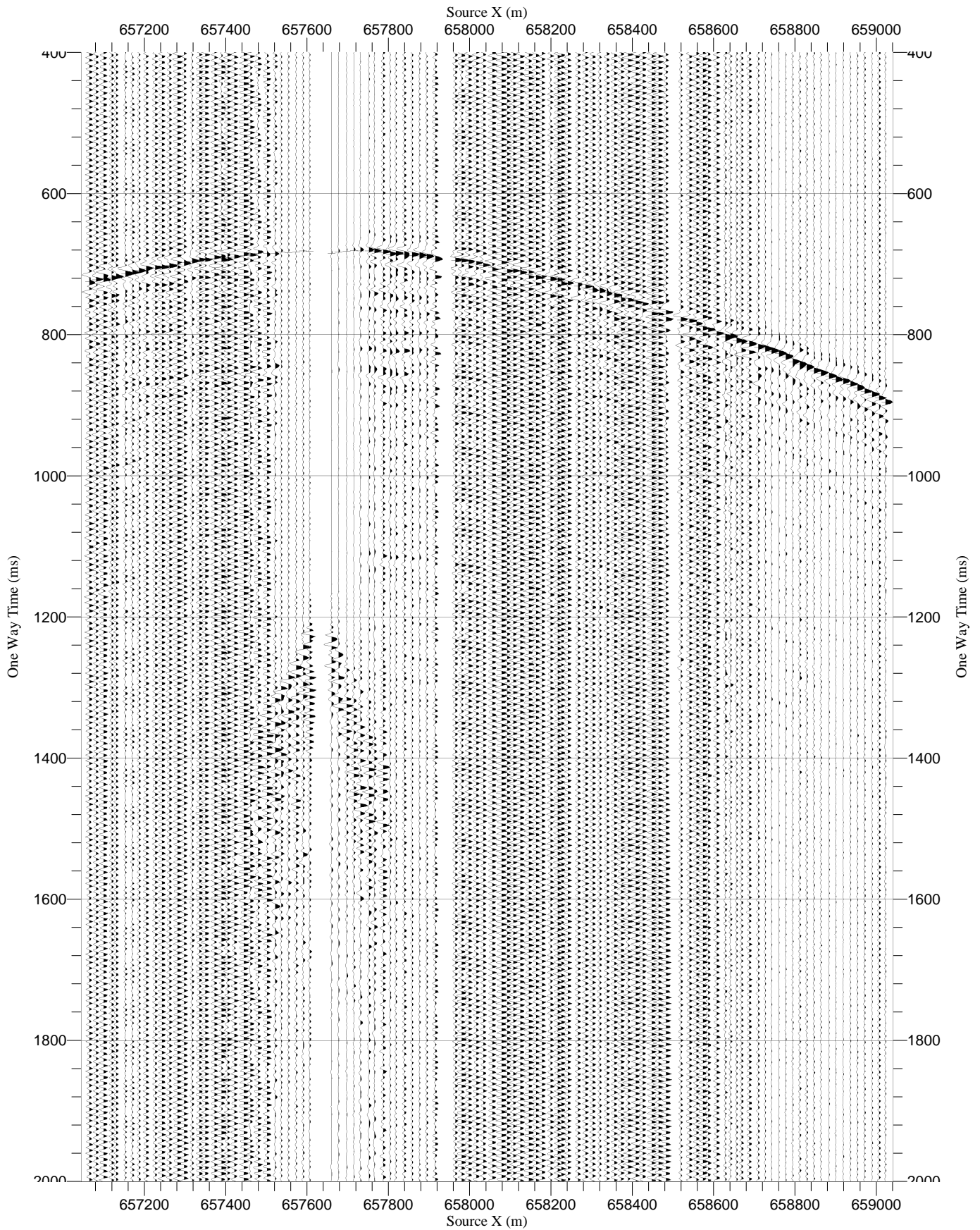
| | | |
|------------------|---|---|
| RawStack X VSI-1 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|------------------|---|---|




| | | |
|--------------------|---|---|
| RawStack TRY VSI-1 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|

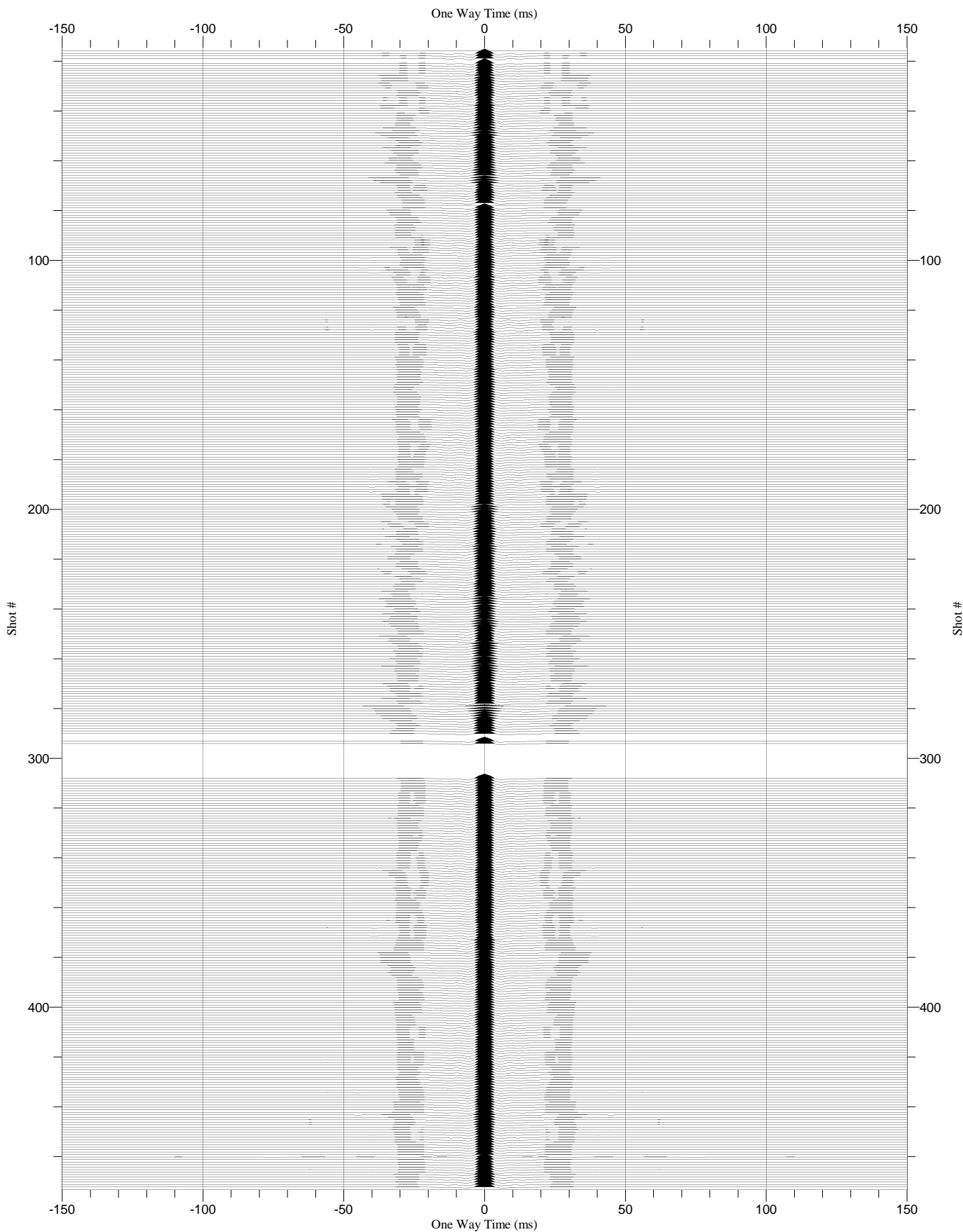


| | | |
|--------------------|---|---|
| RawStack HMX VSI-1 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 13.2 cm/sec, 1/13100 |  |
|--------------------|---|---|

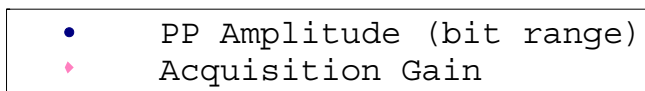
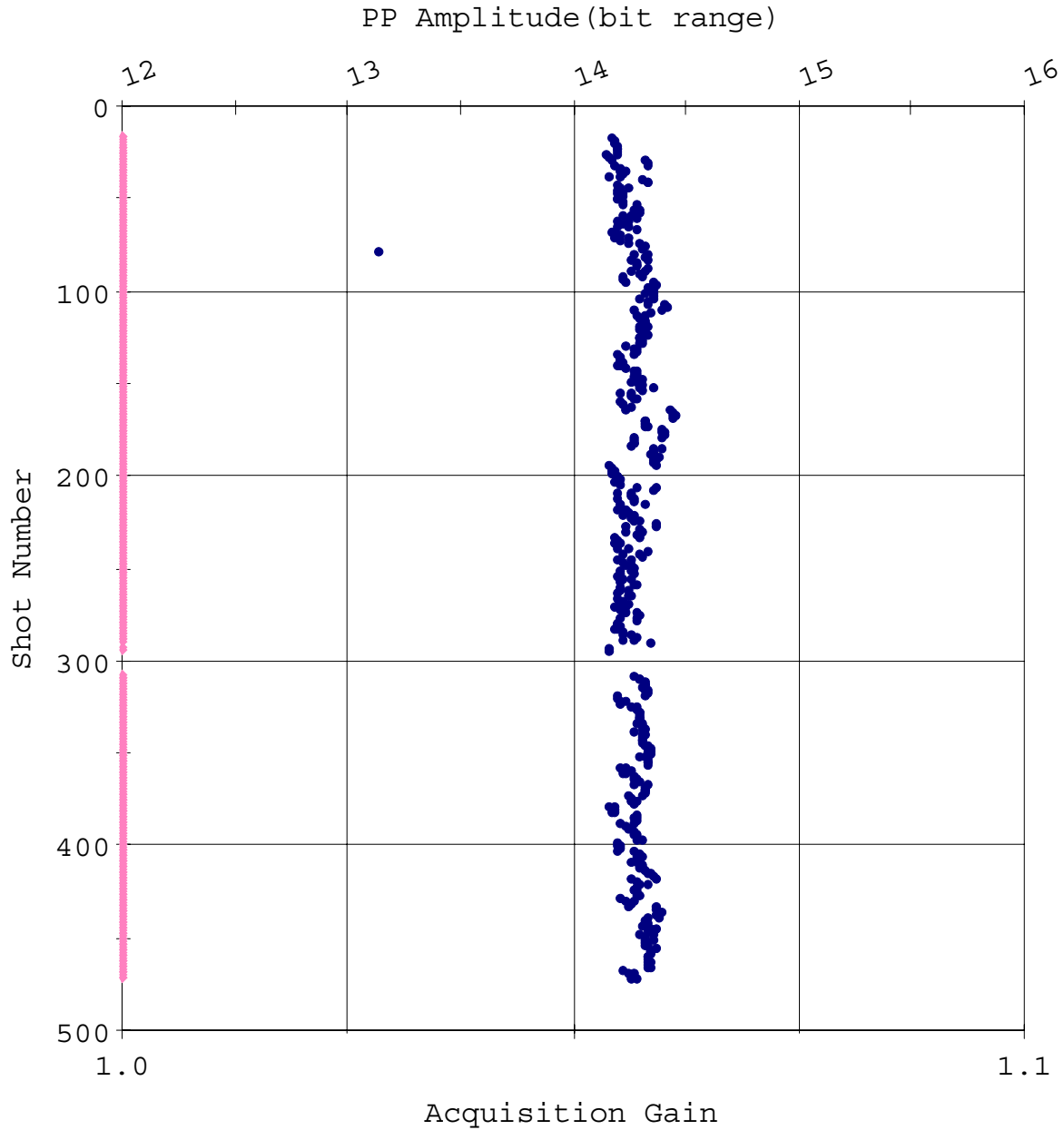


Source Signature QC Report WVSP Line-A

| | | |
|-------------------------|--|---|
| Source Sensor Signature | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 53.14 cm/sec, 21.28/cm |  |
|-------------------------|--|---|



Amplitude QC Plot (Surface)



Shot and Observer Report WVSP Line-A

Observer's Note (1/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|------------------------------|
| 1800.0 | 08:00:37 | SHAK | 1 | | | |
| 1800.0 | 08:02:12 | BKGD | 2 | | | |
| 1800.0 | 08:03:15 | ENLO | 3 | | | |
| 1800.0 | 08:03:55 | ENHI | 4 | | | |
| 1800.0 | 08:04:21 | ETHD | 5 | | | |
| 1800.0 | 08:04:52 | DRNG | 6 | | | |
| 1800.0 | 08:05:23 | GA02 | 7 | | | |
| 1800.0 | 08:05:39 | GA04 | 8 | | | |
| 1800.0 | 08:05:56 | GA08 | 9 | | | |
| 1800.0 | 08:06:12 | GA16 | 10 | | | |
| 1800.0 | 08:06:28 | GA32 | 11 | | | |
| 1800.0 | 08:07:00 | XTLK | 12 | | | |
| 1800.0 | 08:07:37 | XTLK | 13 | | | |
| 1800.0 | 08:08:13 | XTLK | 14 | | | |
| 1800.0 | 08:08:49 | EIMP | 15 | | | |
| 1800.0 | 08:10:37 | SHOT | 16 | 1 | 1 | Miss fire |
| 1800.0 | 08:11:13 | SHOT | 17 | 1 | 1 | good |
| 1800.0 | 08:12:45 | SHOT | 18 | 1 | 1 | noise at sweep |
| 1800.0 | 08:13:29 | SHOT | 19 | 1 | 1 | St2001 Riging noise |
| 1800.0 | 08:16:55 | SHAK | 20 | | | |
| 1750.0 | 08:21:59 | SHOT | 21 | 2 | 1 | st 2001 |
| 1750.0 | 08:24:47 | SHOT | 22 | 2 | 1 | |
| 1900.0 | 08:41:51 | SHOT | 23 | 3 | 1 | st 2001 |
| 1900.0 | 08:43:14 | SHOT | 24 | 3 | 1 | |
| 1900.0 | 08:43:58 | SHOT | 25 | 3 | 1 | |
| 1900.0 | 08:45:41 | SHOT | 26 | 4 | 1 | st2002 |
| 1900.0 | 08:46:30 | SHOT | 27 | 4 | 1 | |
| 1900.0 | 08:47:07 | SHOT | 28 | 4 | 1 | |
| 1900.0 | 08:48:21 | SHOT | 29 | 5 | 1 | st 2003 |
| 1900.0 | 08:49:27 | SHOT | 30 | 5 | 1 | |
| 1900.0 | 08:50:02 | SHOT | 31 | 5 | 1 | |
| 1900.0 | 08:51:15 | SHOT | 32 | 6 | 1 | |
| 1900.0 | 08:52:09 | SHOT | 33 | 6 | 1 | |
| 1900.0 | 08:52:48 | SHOT | 34 | 6 | 1 | |
| 1800.0 | 09:04:46 | SHOT | 35 | 7 | 1 | st 2001 |
| 1800.0 | 09:05:32 | SHOT | 36 | 7 | 1 | |
| 1800.0 | 09:06:07 | SHOT | 37 | 7 | 1 | |
| 1800.0 | 09:07:28 | SHOT | 38 | 8 | 1 | st2002 |
| 1800.0 | 09:08:44 | SHOT | 39 | 9 | 1 | st2003 |
| 1800.0 | 09:09:30 | SHOT | 40 | 9 | 1 | |
| 1800.0 | 09:10:30 | SHOT | 41 | 9 | 1 | |
| 1800.0 | 09:12:17 | SHOT | 42 | 10 | 1 | st 2004 |
| 1800.0 | 09:12:55 | SHOT | 43 | 10 | 1 | |
| 1800.0 | 09:13:41 | SHOT | 44 | 10 | 1 | |
| 1800.0 | 09:15:05 | SHOT | 45 | 11 | 1 | st2005 |
| 1800.0 | 09:15:52 | SHOT | 46 | 11 | 1 | |
| 1800.0 | 09:19:13 | SHOT | 47 | 12 | 1 | st2006 |
| 1800.0 | 09:19:59 | SHOT | 48 | 12 | 1 | |
| 1800.0 | 09:23:12 | SHOT | 49 | 13 | 1 | st20055 fillin bet 2005 2006 |
| 1800.0 | 09:23:49 | SHOT | 50 | 13 | 1 | |
| 1800.0 | 09:24:57 | SHOT | 51 | 14 | 1 | st 2007 |
| 1800.0 | 09:25:33 | SHOT | 52 | 14 | 1 | |
| 1800.0 | 09:26:35 | SHOT | 53 | 15 | 1 | st 2008 |
| 1800.0 | 09:27:15 | SHOT | 54 | 15 | 1 | |
| 1800.0 | 09:28:23 | SHOT | 55 | 16 | 1 | st2009 |
| 1800.0 | 09:28:57 | SHOT | 56 | 16 | 1 | |
| 1800.0 | 09:29:36 | SHOT | 57 | 16 | 1 | |
| 1800.0 | 09:30:49 | SHOT | 58 | 17 | 1 | st 2010 |
| 1800.0 | 09:31:29 | SHOT | 59 | 17 | 1 | |

Observer's Note (2/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|----------------------|
| 1800.0 | 09:32:17 | SHOT | 60 | 17 | 1 | |
| 1800.0 | 09:33:25 | SHOT | 61 | 18 | 1 | st 2011 |
| 1800.0 | 09:34:04 | SHOT | 62 | 18 | 1 | |
| 1800.0 | 09:34:42 | SHOT | 63 | 18 | 1 | |
| 1800.0 | 09:36:19 | SHOT | 64 | 19 | 1 | st 2012 |
| 1800.0 | 09:37:00 | SHOT | 65 | 19 | 1 | |
| 1800.0 | 09:37:37 | SHOT | 66 | 19 | 1 | |
| 1800.0 | 09:38:49 | SHOT | 67 | 20 | 1 | st 2013 |
| 1800.0 | 09:39:25 | SHOT | 68 | 20 | 1 | |
| 1800.0 | 09:40:06 | SHOT | 69 | 20 | 1 | |
| 1800.0 | 09:41:57 | SHOT | 70 | 21 | 1 | ST2014 |
| 1800.0 | 09:42:34 | SHOT | 71 | 21 | 1 | |
| 1800.0 | 09:43:09 | SHOT | 72 | 21 | 1 | |
| 1800.0 | 09:45:39 | SHOT | 73 | 22 | 1 | ST 2017 SKIP 2015/16 |
| 1800.0 | 09:46:16 | SHOT | 74 | 22 | 1 | |
| 1800.0 | 09:46:51 | SHOT | 75 | 22 | 1 | |
| 1800.0 | 10:24:19 | SHOT | 76 | 23 | 1 | ST 2018 |
| 1800.0 | 10:25:10 | SHOT | 77 | 23 | 1 | |
| 1800.0 | 10:25:44 | SHOT | 78 | 23 | 1 | MIS FIRE |
| 1800.0 | 10:26:40 | SHOT | 79 | 23 | 1 | |
| 1800.0 | 10:29:35 | SHOT | 80 | 24 | 1 | ST 2019 |
| 1800.0 | 10:30:12 | SHOT | 81 | 24 | 1 | |
| 1800.0 | 10:30:47 | SHOT | 82 | 24 | 1 | |
| 1800.0 | 10:31:54 | SHOT | 83 | 25 | 1 | ST 2020 |
| 1800.0 | 10:32:28 | SHOT | 84 | 25 | 1 | |
| 1800.0 | 10:33:02 | SHOT | 85 | 25 | 1 | |
| 1800.0 | 10:34:09 | SHOT | 86 | 26 | 1 | ST 2021 |
| 1800.0 | 10:34:46 | SHOT | 87 | 26 | 1 | |
| 1800.0 | 10:35:21 | SHOT | 88 | 26 | 1 | |
| 1800.0 | 10:36:28 | SHOT | 89 | 27 | 1 | ST 2022 |
| 1800.0 | 10:37:03 | SHOT | 90 | 27 | 1 | |
| 1800.0 | 10:37:37 | SHOT | 91 | 27 | 1 | |
| 1800.0 | 10:38:53 | SHOT | 92 | 28 | 1 | ST 2023 |
| 1800.0 | 10:39:33 | SHOT | 93 | 28 | 1 | |
| 1800.0 | 10:40:08 | SHOT | 94 | 28 | 1 | |
| 1800.0 | 10:41:27 | SHOT | 95 | 29 | 1 | ST 2024 |
| 1800.0 | 10:42:02 | SHOT | 96 | 29 | 1 | |
| 1800.0 | 10:42:38 | SHOT | 97 | 29 | 1 | |
| 1800.0 | 10:43:51 | SHOT | 98 | 30 | 1 | ST 2025 |
| 1800.0 | 10:44:26 | SHOT | 99 | 30 | 1 | |
| 1800.0 | 10:45:01 | SHOT | 100 | 30 | 1 | |
| 1800.0 | 10:46:04 | SHOT | 101 | 31 | 1 | ST 2026 |
| 1800.0 | 10:46:41 | SHOT | 102 | 31 | 1 | |
| 1800.0 | 10:47:15 | SHOT | 103 | 31 | 1 | |
| 1800.0 | 10:48:21 | SHOT | 104 | 32 | 1 | ST 2027 |
| 1800.0 | 10:49:03 | SHOT | 105 | 32 | 1 | |
| 1800.0 | 10:49:37 | SHOT | 106 | 32 | 1 | |
| 1800.0 | 10:50:54 | SHOT | 107 | 33 | 1 | ST 2028 |
| 1800.0 | 10:51:37 | SHOT | 108 | 33 | 1 | |
| 1800.0 | 10:52:11 | SHOT | 109 | 33 | 1 | |
| 1800.0 | 10:53:15 | SHOT | 110 | 34 | 1 | ST 2029 |
| 1800.0 | 10:53:49 | SHOT | 111 | 34 | 1 | |
| 1800.0 | 10:54:34 | SHOT | 112 | 34 | 1 | |
| 1800.0 | 10:55:38 | SHOT | 113 | 35 | 1 | ST 2030 |
| 1800.0 | 10:56:13 | SHOT | 114 | 35 | 1 | |
| 1800.0 | 10:56:48 | SHOT | 115 | 35 | 1 | |
| 1800.0 | 10:57:57 | SHOT | 116 | 36 | 1 | ST 2031 |
| 1800.0 | 10:58:32 | SHOT | 117 | 36 | 1 | |
| 1800.0 | 10:59:07 | SHOT | 118 | 36 | 1 | |

Observer's Note (3/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 1800.0 | 11:00:14 | SHOT | 119 | 37 | 1 | ST 2032 |
| 1800.0 | 11:00:49 | SHOT | 120 | 37 | 1 | |
| 1800.0 | 11:01:25 | SHOT | 121 | 37 | 1 | |
| 1800.0 | 11:02:11 | SHOT | 122 | 37 | 1 | |
| 1800.0 | 11:02:47 | SHOT | 123 | 37 | 1 | |
| 1800.0 | 11:05:09 | SHOT | 124 | 38 | 1 | st 2033 |
| 1800.0 | 11:05:45 | SHOT | 125 | 38 | 1 | |
| 1800.0 | 11:06:20 | SHOT | 126 | 38 | 1 | |
| 1800.0 | 11:06:56 | SHOT | 127 | 38 | 1 | |
| 1800.0 | 11:07:32 | SHOT | 128 | 38 | 1 | |
| 1800.0 | 11:22:51 | SHOT | 129 | 39 | 1 | ST 2034 |
| 1800.0 | 11:23:32 | SHOT | 130 | 39 | 1 | |
| 1800.0 | 11:24:07 | SHOT | 131 | 39 | 1 | |
| 1800.0 | 11:24:43 | SHOT | 132 | 39 | 1 | |
| 1800.0 | 11:25:19 | SHOT | 133 | 39 | 1 | |
| 1800.0 | 11:27:40 | SHOT | 134 | 40 | 1 | ST 2035 |
| 1800.0 | 11:28:15 | SHOT | 135 | 40 | 1 | |
| 1800.0 | 11:28:49 | SHOT | 136 | 40 | 1 | |
| 1800.0 | 11:29:24 | SHOT | 137 | 40 | 1 | |
| 1800.0 | 11:29:59 | SHOT | 138 | 40 | 1 | |
| 1800.0 | 11:31:18 | SHOT | 139 | 41 | 1 | st 2036 |
| 1800.0 | 11:31:55 | SHOT | 140 | 41 | 1 | |
| 1800.0 | 11:32:37 | SHOT | 141 | 41 | 1 | |
| 1800.0 | 11:33:11 | SHOT | 142 | 41 | 1 | |
| 1800.0 | 11:33:45 | SHOT | 143 | 41 | 1 | |
| 1800.0 | 11:34:49 | SHOT | 144 | 42 | 1 | ST 2037 |
| 1800.0 | 11:35:26 | SHOT | 145 | 42 | 1 | |
| 1800.0 | 11:36:01 | SHOT | 146 | 42 | 1 | |
| 1800.0 | 11:36:42 | SHOT | 147 | 42 | 1 | |
| 1800.0 | 11:37:20 | SHOT | 148 | 42 | 1 | |
| 1800.0 | 11:38:25 | SHOT | 149 | 43 | 1 | sT 2038 |
| 1800.0 | 11:39:00 | SHOT | 150 | 43 | 1 | |
| 1800.0 | 11:39:33 | SHOT | 151 | 43 | 1 | |
| 1800.0 | 11:40:08 | SHOT | 152 | 43 | 1 | |
| 1800.0 | 11:40:44 | SHOT | 153 | 43 | 1 | |
| 1800.0 | 11:41:55 | SHOT | 154 | 44 | 1 | sT 2039 |
| 1800.0 | 11:42:30 | SHOT | 155 | 44 | 1 | |
| 1800.0 | 11:43:07 | SHOT | 156 | 44 | 1 | |
| 1800.0 | 11:43:41 | SHOT | 157 | 44 | 1 | |
| 1800.0 | 11:44:16 | SHOT | 158 | 44 | 1 | |
| 1800.0 | 11:45:25 | SHOT | 159 | 45 | 1 | st 2040 |
| 1800.0 | 11:46:02 | SHOT | 160 | 45 | 1 | |
| 1800.0 | 11:46:38 | SHOT | 161 | 45 | 1 | |
| 1800.0 | 11:47:11 | SHOT | 162 | 45 | 1 | |
| 1800.0 | 11:47:46 | SHOT | 163 | 45 | 1 | |
| 1800.0 | 11:48:50 | SHOT | 164 | 46 | 1 | ST 2041 |
| 1800.0 | 11:49:25 | SHOT | 165 | 46 | 1 | |
| 1800.0 | 11:49:59 | SHOT | 166 | 46 | 1 | |
| 1800.0 | 11:50:33 | SHOT | 167 | 46 | 1 | |
| 1800.0 | 11:51:08 | SHOT | 168 | 46 | 1 | |
| 1800.0 | 11:52:12 | SHOT | 169 | 47 | 1 | st 2042 |
| 1800.0 | 11:52:49 | SHOT | 170 | 47 | 1 | |
| 1800.0 | 11:53:23 | SHOT | 171 | 47 | 1 | |
| 1800.0 | 11:53:57 | SHOT | 172 | 47 | 1 | |
| 1800.0 | 11:54:30 | SHOT | 173 | 47 | 1 | |
| 1800.0 | 11:55:42 | SHOT | 174 | 48 | 1 | st 2043 |
| 1800.0 | 11:56:18 | SHOT | 175 | 48 | 1 | |
| 1800.0 | 11:56:52 | SHOT | 176 | 48 | 1 | |
| 1800.0 | 11:57:26 | SHOT | 177 | 48 | 1 | |

Observer's Note (4/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 1800.0 | 11:58:01 | SHOT | 178 | 48 | 1 | |
| 1800.0 | 11:59:18 | SHOT | 179 | 49 | 1 | st 2044 |
| 1800.0 | 11:59:59 | SHOT | 180 | 49 | 1 | |
| 1800.0 | 12:00:37 | SHOT | 181 | 49 | 1 | |
| 1800.0 | 12:01:11 | SHOT | 182 | 49 | 1 | |
| 1800.0 | 12:01:52 | SHOT | 183 | 49 | 1 | |
| 1800.0 | 12:03:19 | SHOT | 184 | 50 | 1 | sT 2045 |
| 1800.0 | 12:04:18 | SHOT | 185 | 50 | 1 | |
| 1800.0 | 12:04:55 | SHOT | 186 | 50 | 1 | |
| 1800.0 | 12:05:29 | SHOT | 187 | 50 | 1 | |
| 1800.0 | 12:06:05 | SHOT | 188 | 50 | 1 | |
| 1800.0 | 12:07:24 | SHOT | 189 | 51 | 1 | st 2046 |
| 1800.0 | 12:08:00 | SHOT | 190 | 51 | 1 | |
| 1800.0 | 12:08:35 | SHOT | 191 | 51 | 1 | |
| 1800.0 | 12:09:09 | SHOT | 192 | 51 | 1 | |
| 1800.0 | 12:09:44 | SHOT | 193 | 51 | 1 | |
| 1800.0 | 12:28:36 | SHOT | 194 | 52 | 1 | sT 1061 |
| 1800.0 | 12:29:28 | SHOT | 195 | 52 | 1 | |
| 1800.0 | 12:30:07 | SHOT | 196 | 52 | 1 | |
| 1800.0 | 12:32:28 | SHOT | 197 | 52 | 1 | |
| 1800.0 | 12:33:03 | SHOT | 198 | 52 | 1 | |
| 1800.0 | 12:39:36 | SHOT | 199 | 53 | 1 | ST 1060 |
| 1800.0 | 12:40:19 | SHOT | 200 | 53 | 1 | |
| 1800.0 | 12:40:55 | SHOT | 201 | 53 | 1 | |
| 1800.0 | 12:42:19 | SHOT | 202 | 54 | 1 | ST 1059 |
| 1800.0 | 12:42:56 | SHOT | 203 | 54 | 1 | |
| 1800.0 | 12:43:31 | SHOT | 204 | 54 | 1 | |
| 1800.0 | 12:44:52 | SHOT | 205 | 55 | 1 | ST 1058 |
| 1800.0 | 12:45:29 | SHOT | 206 | 55 | 1 | |
| 1800.0 | 12:46:05 | SHOT | 207 | 55 | 1 | |
| 1800.0 | 12:47:17 | SHOT | 208 | 56 | 1 | st 1057 |
| 1800.0 | 12:47:54 | SHOT | 209 | 56 | 1 | |
| 1800.0 | 12:48:29 | SHOT | 210 | 56 | 1 | |
| 1800.0 | 12:49:54 | SHOT | 211 | 57 | 1 | ST 1056 |
| 1800.0 | 12:50:34 | SHOT | 212 | 57 | 1 | |
| 1800.0 | 12:51:08 | SHOT | 213 | 57 | 1 | |
| 1800.0 | 12:51:44 | SHOT | 214 | 57 | 1 | |
| 1800.0 | 12:55:52 | SHOT | 215 | 58 | 1 | st 1055 |
| 1800.0 | 12:56:29 | SHOT | 216 | 58 | 1 | |
| 1800.0 | 12:57:03 | SHOT | 217 | 58 | 1 | |
| 1800.0 | 12:59:31 | SHOT | 218 | 59 | 1 | st 1054 |
| 1800.0 | 13:00:07 | SHOT | 219 | 59 | 1 | |
| 1800.0 | 13:00:43 | SHOT | 220 | 59 | 1 | |
| 1800.0 | 13:02:04 | SHOT | 221 | 60 | 1 | st 1053 |
| 1800.0 | 13:02:40 | SHOT | 222 | 60 | 1 | |
| 1800.0 | 13:03:18 | SHOT | 223 | 60 | 1 | |
| 1800.0 | 13:05:14 | SHOT | 224 | 61 | 1 | ST 1052 |
| 1800.0 | 13:05:52 | SHOT | 225 | 61 | 1 | |
| 1800.0 | 13:06:28 | SHOT | 226 | 61 | 1 | |
| 1800.0 | 13:08:31 | SHOT | 227 | 62 | 1 | ST 1051 |
| 1800.0 | 13:09:11 | SHOT | 228 | 62 | 1 | |
| 1800.0 | 13:09:46 | SHOT | 229 | 62 | 1 | |
| 1800.0 | 13:11:29 | SHOT | 230 | 63 | 1 | st 1050 |
| 1800.0 | 13:12:04 | SHOT | 231 | 63 | 1 | |
| 1800.0 | 13:12:41 | SHOT | 232 | 63 | 1 | |
| 1800.0 | 13:14:57 | SHOT | 233 | 64 | 1 | ST 1049 |
| 1800.0 | 13:15:44 | SHOT | 234 | 64 | 1 | |
| 1800.0 | 13:16:27 | SHOT | 235 | 64 | 1 | |
| 1800.0 | 13:18:12 | SHOT | 236 | 65 | 1 | ST 1048 |

Observer's Note (5/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|------------------|
| 1800.0 | 13:18:47 | SHOT | 237 | 65 | 1 | |
| 1800.0 | 13:19:24 | SHOT | 238 | 65 | 1 | |
| 1800.0 | 13:20:35 | SHOT | 239 | 66 | 1 | st 1047 |
| 1800.0 | 13:21:17 | SHOT | 240 | 66 | 1 | |
| 1800.0 | 13:21:52 | SHOT | 241 | 66 | 1 | |
| 1800.0 | 13:23:29 | SHOT | 242 | 67 | 1 | ST 1046 |
| 1800.0 | 13:24:05 | SHOT | 243 | 67 | 1 | |
| 1800.0 | 13:24:39 | SHOT | 244 | 67 | 1 | |
| 1800.0 | 13:27:37 | SHOT | 245 | 68 | 1 | st 1045 |
| 1800.0 | 13:28:12 | SHOT | 246 | 68 | 1 | |
| 1800.0 | 13:28:47 | SHOT | 247 | 68 | 1 | |
| 1800.0 | 13:30:00 | SHOT | 248 | 69 | 1 | sT 1044 |
| 1800.0 | 13:30:36 | SHOT | 249 | 69 | 1 | |
| 1800.0 | 13:31:12 | SHOT | 250 | 69 | 1 | |
| 1800.0 | 13:32:24 | SHOT | 251 | 70 | 1 | ST 1043 |
| 1800.0 | 13:32:59 | SHOT | 252 | 70 | 1 | |
| 1800.0 | 13:33:33 | SHOT | 253 | 70 | 1 | |
| 1800.0 | 13:34:47 | SHOT | 254 | 71 | 1 | ST 1042 |
| 1800.0 | 13:35:23 | SHOT | 255 | 71 | 1 | |
| 1800.0 | 13:35:57 | SHOT | 256 | 71 | 1 | |
| 1800.0 | 13:37:43 | SHOT | 257 | 72 | 1 | ST 1041 |
| 1800.0 | 13:38:18 | SHOT | 258 | 72 | 1 | |
| 1800.0 | 13:38:53 | SHOT | 259 | 72 | 1 | |
| 1800.0 | 13:41:30 | SHOT | 260 | 73 | 1 | st 1040 |
| 1800.0 | 13:42:10 | SHOT | 261 | 73 | 1 | |
| 1800.0 | 13:42:44 | SHOT | 262 | 73 | 1 | |
| 1800.0 | 13:43:51 | SHOT | 263 | 74 | 1 | 1039 |
| 1800.0 | 13:44:28 | SHOT | 264 | 74 | 1 | |
| 1800.0 | 13:45:03 | SHOT | 265 | 74 | 1 | |
| 1800.0 | 13:46:13 | SHOT | 266 | 75 | 1 | 1038 noise vsi-8 |
| 1800.0 | 13:46:53 | SHOT | 267 | 75 | 1 | |
| 1800.0 | 13:47:28 | SHOT | 268 | 75 | 1 | |
| 1800.0 | 13:48:03 | SHOT | 269 | 75 | 1 | |
| 1800.0 | 13:49:21 | SHOT | 270 | 76 | 1 | 1037 |
| 1800.0 | 13:49:57 | SHOT | 271 | 76 | 1 | |
| 1800.0 | 13:50:40 | SHOT | 272 | 76 | 1 | |
| 1800.0 | 13:51:48 | SHOT | 273 | 77 | 1 | 1036 |
| 1800.0 | 13:52:26 | SHOT | 274 | 77 | 1 | |
| 1800.0 | 13:53:01 | SHOT | 275 | 77 | 1 | |
| 1800.0 | 13:55:54 | SHOT | 276 | 78 | 1 | 1035 |
| 1800.0 | 13:56:31 | SHOT | 277 | 78 | 1 | |
| 1800.0 | 13:57:06 | SHOT | 278 | 78 | 1 | |
| 1800.0 | 14:00:00 | SHOT | 279 | 79 | 1 | 1034 |
| 1800.0 | 14:00:42 | SHOT | 280 | 79 | 1 | |
| 1800.0 | 14:01:18 | SHOT | 281 | 79 | 1 | |
| 1800.0 | 14:03:05 | SHOT | 282 | 80 | 1 | 1033 |
| 1800.0 | 14:03:40 | SHOT | 283 | 80 | 1 | |
| 1800.0 | 14:04:20 | SHOT | 284 | 80 | 1 | |
| 1800.0 | 14:05:29 | SHOT | 285 | 81 | 1 | 1032 |
| 1800.0 | 14:06:09 | SHOT | 286 | 81 | 1 | |
| 1800.0 | 14:06:44 | SHOT | 287 | 81 | 1 | |
| 1800.0 | 14:08:06 | SHOT | 288 | 82 | 1 | 1031 |
| 1800.0 | 14:08:43 | SHOT | 289 | 82 | 1 | |
| 1800.0 | 14:09:23 | SHOT | 290 | 82 | 1 | |
| 1800.0 | 06:01:00 | SHAK | 291 | | | |
| 1800.0 | 06:01:58 | BKGD | 292 | | | |
| 1800.0 | 06:02:50 | SHOT | 293 | 83 | 1 | dummy 2001 |
| 1800.0 | 06:03:48 | SHOT | 294 | 83 | 1 | |
| 1800.0 | 06:07:00 | ENLO | 295 | | | |

Observer's Note (6/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 1800.0 | 06:07:40 | ENHI | 296 | | | |
| 1800.0 | 06:08:05 | ETHD | 297 | | | |
| 1800.0 | 06:08:37 | DRNG | 298 | | | |
| 1800.0 | 06:09:08 | GA02 | 299 | | | |
| 1800.0 | 06:09:24 | GA04 | 300 | | | |
| 1800.0 | 06:09:41 | GA08 | 301 | | | |
| 1800.0 | 06:09:57 | GA16 | 302 | | | |
| 1800.0 | 06:10:14 | GA32 | 303 | | | |
| 1800.0 | 06:10:45 | XTLK | 304 | | | |
| 1800.0 | 06:11:22 | XTLK | 305 | | | |
| 1800.0 | 06:11:59 | XTLK | 306 | | | |
| 1800.0 | 06:12:34 | EIMP | 307 | | | |
| 1800.0 | 06:40:09 | SHOT | 308 | 84 | 1 | st 2048 |
| 1800.0 | 06:40:59 | SHOT | 309 | 84 | 1 | |
| 1800.0 | 06:41:36 | SHOT | 310 | 84 | 1 | |
| 1800.0 | 06:42:11 | SHOT | 311 | 84 | 1 | |
| 1800.0 | 06:42:47 | SHOT | 312 | 84 | 1 | |
| 1800.0 | 06:43:58 | SHOT | 313 | 84 | 1 | |
| 1800.0 | 06:45:54 | SHOT | 314 | 85 | 1 | 2049 |
| 1800.0 | 06:46:39 | SHOT | 315 | 85 | 1 | |
| 1800.0 | 06:47:14 | SHOT | 316 | 85 | 1 | |
| 1800.0 | 06:47:50 | SHOT | 317 | 85 | 1 | |
| 1800.0 | 06:48:25 | SHOT | 318 | 85 | 1 | |
| 1800.0 | 06:51:34 | SHOT | 319 | 86 | 1 | 2050 |
| 1800.0 | 06:52:13 | SHOT | 320 | 86 | 1 | |
| 1800.0 | 06:52:50 | SHOT | 321 | 86 | 1 | |
| 1800.0 | 06:53:32 | SHOT | 322 | 86 | 1 | |
| 1800.0 | 06:54:06 | SHOT | 323 | 86 | 1 | |
| 1800.0 | 06:55:47 | SHOT | 324 | 87 | 1 | 2051 |
| 1800.0 | 06:56:34 | SHOT | 325 | 87 | 1 | |
| 1800.0 | 06:57:08 | SHOT | 326 | 87 | 1 | |
| 1800.0 | 06:57:42 | SHOT | 327 | 87 | 1 | |
| 1800.0 | 06:58:17 | SHOT | 328 | 87 | 1 | |
| 1800.0 | 06:58:51 | SHOT | 329 | 87 | 1 | |
| 1800.0 | 06:59:26 | SHOT | 330 | 87 | 1 | |
| 1800.0 | 07:00:56 | SHOT | 331 | 88 | 1 | 2052 |
| 1800.0 | 07:01:30 | SHOT | 332 | 88 | 1 | |
| 1800.0 | 07:02:05 | SHOT | 333 | 88 | 1 | |
| 1800.0 | 07:02:40 | SHOT | 334 | 88 | 1 | |
| 1800.0 | 07:03:13 | SHOT | 335 | 88 | 1 | |
| 1800.0 | 07:03:49 | SHOT | 336 | 88 | 1 | |
| 1800.0 | 07:04:25 | SHOT | 337 | 88 | 1 | |
| 1800.0 | 07:05:47 | SHOT | 338 | 89 | 1 | 2053 |
| 1800.0 | 07:06:21 | SHOT | 339 | 89 | 1 | |
| 1800.0 | 07:06:56 | SHOT | 340 | 89 | 1 | |
| 1800.0 | 07:07:30 | SHOT | 341 | 89 | 1 | |
| 1800.0 | 07:08:04 | SHOT | 342 | 89 | 1 | |
| 1800.0 | 07:08:39 | SHOT | 343 | 89 | 1 | |
| 1800.0 | 07:09:12 | SHOT | 344 | 89 | 1 | |
| 1800.0 | 07:10:22 | SHOT | 345 | 90 | 1 | 2054 |
| 1800.0 | 07:10:57 | SHOT | 346 | 90 | 1 | |
| 1800.0 | 07:11:31 | SHOT | 347 | 90 | 1 | |
| 1800.0 | 07:12:06 | SHOT | 348 | 90 | 1 | |
| 1800.0 | 07:12:40 | SHOT | 349 | 90 | 1 | |
| 1800.0 | 07:13:15 | SHOT | 350 | 90 | 1 | |
| 1800.0 | 07:13:49 | SHOT | 351 | 90 | 1 | |
| 1800.0 | 07:15:00 | SHOT | 352 | 91 | 1 | 2055 |
| 1800.0 | 07:15:34 | SHOT | 353 | 91 | 1 | |
| 1800.0 | 07:16:08 | SHOT | 354 | 91 | 1 | |

Observer's Note (7/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------------|
| 1800.0 | 07:16:42 | SHOT | 355 | 91 | 1 | |
| 1800.0 | 07:17:16 | SHOT | 356 | 91 | 1 | |
| 1800.0 | 07:18:39 | SHOT | 357 | 92 | 1 | 2056 |
| 1800.0 | 07:19:18 | SHOT | 358 | 92 | 1 | |
| 1800.0 | 07:19:52 | SHOT | 359 | 92 | 1 | |
| 1800.0 | 07:20:25 | SHOT | 360 | 92 | 1 | |
| 1800.0 | 07:20:59 | SHOT | 361 | 92 | 1 | |
| 1800.0 | 07:22:20 | SHOT | 362 | 93 | 1 | 2057 |
| 1800.0 | 07:22:55 | SHOT | 363 | 93 | 1 | |
| 1800.0 | 07:23:29 | SHOT | 364 | 93 | 1 | |
| 1800.0 | 07:24:03 | SHOT | 365 | 93 | 1 | |
| 1800.0 | 07:24:37 | SHOT | 366 | 93 | 1 | |
| 1800.0 | 07:31:13 | SHOT | 367 | 94 | 1 | 2058 |
| 1800.0 | 07:31:50 | SHOT | 368 | 94 | 1 | VIS-6 Noise Y |
| 1800.0 | 07:32:26 | SHOT | 369 | 94 | 1 | |
| 1800.0 | 07:33:00 | SHOT | 370 | 94 | 1 | |
| 1800.0 | 07:33:35 | SHOT | 371 | 94 | 1 | |
| 1800.0 | 07:34:09 | SHOT | 372 | 94 | 1 | |
| 1800.0 | 07:41:40 | SHOT | 373 | 95 | 1 | 2059 |
| 1800.0 | 07:42:17 | SHOT | 374 | 95 | 1 | |
| 1800.0 | 07:42:53 | SHOT | 375 | 95 | 1 | |
| 1800.0 | 07:43:30 | SHOT | 376 | 95 | 1 | |
| 1800.0 | 07:44:05 | SHOT | 377 | 95 | 1 | |
| 1800.0 | 07:45:13 | SHOT | 378 | 96 | 1 | 2060 |
| 1800.0 | 07:45:51 | SHOT | 379 | 96 | 1 | |
| 1800.0 | 07:46:40 | SHOT | 380 | 96 | 1 | |
| 1800.0 | 07:47:14 | SHOT | 381 | 96 | 1 | |
| 1800.0 | 07:47:49 | SHOT | 382 | 96 | 1 | |
| 1800.0 | 08:18:41 | SHOT | 383 | 97 | 1 | 2061 |
| 1800.0 | 08:19:18 | SHOT | 384 | 97 | 1 | |
| 1800.0 | 08:19:52 | SHOT | 385 | 97 | 1 | |
| 1800.0 | 08:20:27 | SHOT | 386 | 97 | 1 | |
| 1800.0 | 08:21:02 | SHOT | 387 | 97 | 1 | |
| 1800.0 | 08:27:01 | SHOT | 388 | 98 | 1 | 2062 |
| 1800.0 | 08:27:37 | SHOT | 389 | 98 | 1 | |
| 1800.0 | 08:28:13 | SHOT | 390 | 98 | 1 | |
| 1800.0 | 08:28:51 | SHOT | 391 | 98 | 1 | |
| 1800.0 | 08:29:25 | SHOT | 392 | 98 | 1 | |
| 1800.0 | 08:32:10 | SHOT | 393 | 99 | 1 | 2063 |
| 1800.0 | 08:32:48 | SHOT | 394 | 99 | 1 | |
| 1800.0 | 08:33:23 | SHOT | 395 | 99 | 1 | |
| 1800.0 | 08:33:58 | SHOT | 396 | 99 | 1 | |
| 1800.0 | 08:34:33 | SHOT | 397 | 99 | 1 | |
| 1800.0 | 08:36:27 | SHOT | 398 | 100 | 1 | 2064 |
| 1800.0 | 08:37:06 | SHOT | 399 | 100 | 1 | |
| 1800.0 | 08:37:39 | SHOT | 400 | 100 | 1 | |
| 1800.0 | 08:38:13 | SHOT | 401 | 100 | 1 | |
| 1800.0 | 08:38:48 | SHOT | 402 | 100 | 1 | |
| 1800.0 | 08:44:45 | SHOT | 403 | 101 | 1 | 2065 |
| 1800.0 | 08:45:24 | SHOT | 404 | 101 | 1 | |
| 1800.0 | 08:45:58 | SHOT | 405 | 101 | 1 | |
| 1800.0 | 08:46:32 | SHOT | 406 | 101 | 1 | |
| 1800.0 | 08:47:06 | SHOT | 407 | 101 | 1 | |
| 1800.0 | 08:48:21 | SHOT | 408 | 102 | 1 | 2066 |
| 1800.0 | 08:49:00 | SHOT | 409 | 102 | 1 | |
| 1800.0 | 08:49:34 | SHOT | 410 | 102 | 1 | |
| 1800.0 | 08:50:08 | SHOT | 411 | 102 | 1 | |
| 1800.0 | 08:50:43 | SHOT | 412 | 102 | 1 | |
| 1800.0 | 08:54:37 | SHOT | 413 | 103 | 1 | 2067 |

Observer's Note (8/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 1800.0 | 08:55:14 | SHOT | 414 | 103 | 1 | |
| 1800.0 | 08:55:47 | SHOT | 415 | 103 | 1 | |
| 1800.0 | 08:56:23 | SHOT | 416 | 103 | 1 | |
| 1800.0 | 08:57:00 | SHOT | 417 | 103 | 1 | |
| 1800.0 | 08:58:15 | SHOT | 418 | 104 | 1 | 2068 |
| 1800.0 | 08:58:50 | SHOT | 419 | 104 | 1 | |
| 1800.0 | 08:59:25 | SHOT | 420 | 104 | 1 | |
| 1800.0 | 09:00:01 | SHOT | 421 | 104 | 1 | |
| 1800.0 | 09:00:36 | SHOT | 422 | 104 | 1 | |
| 1800.0 | 09:01:56 | SHOT | 423 | 105 | 1 | 2069 |
| 1800.0 | 09:02:33 | SHOT | 424 | 105 | 1 | |
| 1800.0 | 09:03:07 | SHOT | 425 | 105 | 1 | |
| 1800.0 | 09:03:41 | SHOT | 426 | 105 | 1 | |
| 1800.0 | 09:04:15 | SHOT | 427 | 105 | 1 | |
| 1800.0 | 09:05:27 | SHOT | 428 | 106 | 1 | 2070 |
| 1800.0 | 09:06:03 | SHOT | 429 | 106 | 1 | |
| 1800.0 | 09:06:38 | SHOT | 430 | 106 | 1 | |
| 1800.0 | 09:07:15 | SHOT | 431 | 106 | 1 | |
| 1800.0 | 09:07:51 | SHOT | 432 | 106 | 1 | |
| 1800.0 | 09:10:08 | SHOT | 433 | 107 | 1 | 2071 |
| 1800.0 | 09:10:46 | SHOT | 434 | 107 | 1 | |
| 1800.0 | 09:11:20 | SHOT | 435 | 107 | 1 | |
| 1800.0 | 09:11:54 | SHOT | 436 | 107 | 1 | |
| 1800.0 | 09:12:28 | SHOT | 437 | 107 | 1 | |
| 1800.0 | 09:13:52 | SHOT | 438 | 108 | 1 | 2072 |
| 1800.0 | 09:14:27 | SHOT | 439 | 108 | 1 | |
| 1800.0 | 09:15:01 | SHOT | 440 | 108 | 1 | |
| 1800.0 | 09:15:36 | SHOT | 441 | 108 | 1 | |
| 1800.0 | 09:16:10 | SHOT | 442 | 108 | 1 | |
| 1800.0 | 09:18:36 | SHOT | 443 | 109 | 1 | 2073 |
| 1800.0 | 09:19:19 | SHOT | 444 | 109 | 1 | |
| 1800.0 | 09:19:59 | SHOT | 445 | 109 | 1 | |
| 1800.0 | 09:20:52 | SHOT | 446 | 109 | 1 | |
| 1800.0 | 09:21:26 | SHOT | 447 | 109 | 1 | |
| 1800.0 | 09:23:01 | SHOT | 448 | 110 | 1 | 2074 |
| 1800.0 | 09:23:39 | SHOT | 449 | 110 | 1 | |
| 1800.0 | 09:24:24 | SHOT | 450 | 110 | 1 | |
| 1800.0 | 09:25:39 | SHOT | 451 | 110 | 1 | |
| 1800.0 | 09:26:13 | SHOT | 452 | 110 | 1 | |
| 1800.0 | 09:26:48 | SHOT | 453 | 110 | 1 | |
| 1800.0 | 09:28:08 | SHOT | 454 | 111 | 1 | 2075 |
| 1800.0 | 09:28:59 | SHOT | 455 | 111 | 1 | |
| 1800.0 | 09:29:36 | SHOT | 456 | 111 | 1 | |
| 1800.0 | 09:30:17 | SHOT | 457 | 111 | 1 | |
| 1800.0 | 09:30:51 | SHOT | 458 | 111 | 1 | |
| 1800.0 | 09:31:24 | SHOT | 459 | 111 | 1 | |
| 1800.0 | 09:32:15 | SHOT | 460 | 111 | 1 | REJECT |
| 1800.0 | 09:34:02 | SHOT | 461 | 112 | 1 | 2076 |
| 1800.0 | 09:34:50 | SHOT | 462 | 112 | 1 | |
| 1800.0 | 09:35:25 | SHOT | 463 | 112 | 1 | |
| 1800.0 | 09:36:07 | SHOT | 464 | 112 | 1 | |
| 1800.0 | 09:36:46 | SHOT | 465 | 112 | 1 | |
| 1800.0 | 09:37:28 | SHOT | 466 | 112 | 1 | |
| 1800.0 | 09:40:35 | SHOT | 467 | 113 | 1 | 2077 |
| 1800.0 | 09:41:41 | SHOT | 468 | 113 | 1 | |
| 1800.0 | 09:42:18 | SHOT | 469 | 113 | 1 | |
| 1800.0 | 09:42:53 | SHOT | 470 | 113 | 1 | |
| 1800.0 | 09:43:28 | SHOT | 471 | 113 | 1 | |
| 1800.0 | 09:44:08 | SHOT | 472 | 113 | 1 | |

Observer's Note (9/9)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 1800.0 | 09:48:53 | SHAK | 473 | | | |
| 1800.0 | 09:53:02 | ENLO | 474 | | | |
| 1800.0 | 09:53:42 | ENHI | 475 | | | |
| 1800.0 | 09:54:07 | ETHD | 476 | | | |
| 1800.0 | 09:54:39 | DRNG | 477 | | | |
| 1800.0 | 09:55:11 | GA02 | 478 | | | |
| 1800.0 | 09:55:27 | GA04 | 479 | | | |
| 1800.0 | 09:55:43 | GA08 | 480 | | | |
| 1800.0 | 09:55:59 | GA16 | 481 | | | |
| 1800.0 | 09:56:16 | GA32 | 482 | | | |
| 1800.0 | 09:56:48 | XTLK | 483 | | | |
| 1800.0 | 09:57:24 | XTLK | 484 | | | |
| 1800.0 | 09:58:01 | XTLK | 485 | | | |
| 1800.0 | 09:58:37 | EIMP | 486 | | | |

Naylor WVSP Station List

Survey done by Paul Crowe Licensed Surveyor
 Box 6094
 Hwthorn 3122
 Ph/Fax 03 9815 293 Mob 0419515422
crowe@anson.com.au

Projection type: Map Grid Australia 94 Zone 54
 Distance Units: Meters

Line-A

| Station No | Easting | Northing | Elevation | Remarks |
|------------|------------|-------------|-----------|--------------------------|
| 1061 | 657609.262 | 5733856.756 | 46.223 | |
| 1060 | 657590.525 | 5733864.055 | 46.199 | |
| 1059 | 657572.631 | 5733872.391 | 46.451 | |
| 1058 | 657554.515 | 5733880.793 | 46.798 | |
| 1057 | 657536.274 | 5733888.496 | 46.865 | |
| 1056 | 657518.003 | 5733895.709 | 47.213 | |
| 1055 | 657501.983 | 5733906.034 | 47.033 | |
| 1054 | 657480.922 | 5733911.572 | 47.279 | |
| 1053 | 657461.706 | 5733918.36 | 47.572 | |
| 1052 | 657444.129 | 5733927.705 | 47.897 | |
| 1051 | 657424.177 | 5733934.056 | 48.032 | |
| 1050 | 657406.902 | 5733940.48 | 47.969 | |
| 1049 | 657388.129 | 5733948.619 | 47.88 | |
| 1048 | 657369.385 | 5733957.585 | 47.819 | |
| 1047 | 657351.856 | 5733964.657 | 47.843 | |
| 1046 | 657333.43 | 5733972.646 | 47.98 | |
| 1045 | 657315.407 | 5733982.235 | 48.08 | |
| 1044 | 657296.889 | 5733990.916 | 48.425 | |
| 1043 | 657279.553 | 5733999.267 | 48.527 | |
| 1042 | 657261.299 | 5734007.703 | 48.452 | |
| 1041 | 657243.099 | 5734017.938 | 48.518 | |
| 1040 | 657224.791 | 5734025.044 | 48.624 | |
| 1039 | 657206.654 | 5734033.366 | 48.668 | |
| 1038 | 657188.52 | 5734041.872 | 48.848 | |
| 1037 | 657170.65 | 5734050.144 | 49.031 | |
| 1036 | 657152.401 | 5734058.464 | 49.411 | |
| 1035 | 657134.111 | 5734066.675 | 49.449 | |
| 1034 | 657117.75 | 5734076.889 | 49.45 | |
| 1033 | 657097.727 | 5734083.414 | 49.278 | |
| 1032 | 657079.504 | 5734092.327 | 49.625 | |
| 1031 | 657061.843 | 5734100.083 | 49.592 | |
| 2001 | 657660.153 | 5733838.688 | 46.136 | |
| 2002 | 657677.537 | 5733830.608 | 45.971 | |
| 2003 | 657697 | 5733821 | 46 | fill by Handheld GPS |
| 2004 | 657713.43 | 5733812.91 | 45.552 | GPS survey reported 2003 |
| 2005 | 657729.893 | 5733802.602 | 45.465 | GPS survey reported 2004 |
| 20055 | 657749.549 | 5733795.253 | 45.17 | GPS survey reported 2005 |
| 2006 | 657766.639 | 5733786.528 | 45.2 | |
| 2007 | 657785.495 | 5733777.796 | 45.314 | |
| 2008 | 657802.676 | 5733769.201 | 45.221 | Zero-Offset VSP |
| 2009 | 657821.329 | 5733759.901 | 45.023 | |
| 2010 | 657838.701 | 5733750.55 | 44.91 | |
| 2011 | 657856.501 | 5733741.324 | 44.729 | |
| 2012 | 657874.716 | 5733732.665 | 44.617 | |
| 2013 | 657892.735 | 5733724.397 | 44.494 | |
| 2014 | 657912.517 | 5733714.96 | 44.839 | |
| 2017 | 657964.609 | 5733689.009 | 44.584 | |
| 2018 | 657979.849 | 5733679.857 | 44.631 | |

| | | | | |
|-------|------------|-------------|--------|--------------|
| 2019 | 657999.569 | 5733671.652 | 44.944 | |
| 2020 | 658017.634 | 5733661.437 | 45.028 | |
| 20202 | 658017.634 | 5733661.437 | 45.028 | same as 2020 |
| 2021 | 658035.525 | 5733654.556 | 44.9 | |
| 2022 | 658055.452 | 5733644.013 | 44.965 | |
| 2023 | 658071.254 | 5733635.306 | 44.989 | |
| 2024 | 658089.754 | 5733626.836 | 45.471 | |
| 2025 | 658107.906 | 5733616.996 | 45.075 | |
| 2026 | 658125.59 | 5733607.51 | 44.658 | |
| 2027 | 658143.376 | 5733597.996 | 44.483 | |
| 2028 | 658160.034 | 5733588.435 | 44.363 | |
| 2029 | 658177.352 | 5733579.171 | 44.309 | |
| 2030 | 658195.097 | 5733569.893 | 43.913 | |
| 2031 | 658212.923 | 5733560.265 | 43.434 | |
| 2032 | 658230.218 | 5733550.141 | 43.045 | |
| 2033 | 658246.275 | 5733539.98 | 42.729 | |
| 2034 | 658264.452 | 5733530.497 | 42.144 | |
| 2035 | 658283.097 | 5733522.531 | 41.355 | |
| 2036 | 658301.583 | 5733514.565 | 40.948 | |
| 2037 | 658319.302 | 5733504.258 | 40.518 | |
| 2038 | 658336.189 | 5733494.519 | 40.29 | |
| 2039 | 658354.009 | 5733484.472 | 39.742 | |
| 2040 | 658371.586 | 5733474.846 | 39.705 | |
| 2041 | 658388.781 | 5733464.92 | 39.655 | |
| 2042 | 658405.988 | 5733455.591 | 39.365 | |
| 2043 | 658424.175 | 5733446.765 | 40.061 | |
| 2044 | 658446.038 | 5733436.067 | 40.11 | |
| 2045 | 658463.82 | 5733426.885 | 39.9 | |
| 2046 | 658482.157 | 5733416.813 | 39.891 | |
| 20462 | 658482.157 | 5733416.813 | 39.891 | same as 2046 |
| 2047 | 658498.179 | 5733404.985 | 39.748 | |
| 2048 | 658514.998 | 5733396.042 | 39.438 | |
| 2049 | 658534.405 | 5733389.432 | 40.431 | |
| 2050 | 658552.097 | 5733380.051 | 41.298 | |
| 2051 | 658569.704 | 5733370.686 | 41.283 | |
| 2052 | 658587.314 | 5733360.998 | 40.859 | |
| 2053 | 658606.213 | 5733351.054 | 40.831 | |
| 2054 | 658624.205 | 5733341.276 | 39.801 | |
| 2055 | 658640.564 | 5733331.874 | 38.633 | |
| 2056 | 658657.581 | 5733322.272 | 37.965 | |
| 2057 | 658674.873 | 5733310.82 | 37.123 | |
| 2058 | 658689.316 | 5733302.838 | 36.826 | |
| 2059 | 658708.751 | 5733293.5 | 36.224 | |
| 2060 | 658726.304 | 5733283.721 | 35.487 | |
| 2061 | 658744.073 | 5733275.348 | 35.376 | |
| 2062 | 658762.162 | 5733264.589 | 35.182 | |
| 2063 | 658778.399 | 5733254.467 | 34.999 | |
| 2064 | 658796.265 | 5733244.848 | 34.902 | |
| 2065 | 658813.539 | 5733234.918 | 34.392 | |
| 2066 | 658830.786 | 5733224.86 | 34.178 | |
| 2067 | 658848.244 | 5733215.216 | 33.885 | |
| 2068 | 658865.447 | 5733205.897 | 33.28 | |
| 2069 | 658883.198 | 5733196.318 | 32.286 | |
| 2070 | 658900.625 | 5733186.458 | 32.243 | |
| 2071 | 658918.343 | 5733177.493 | 32.121 | |
| 2072 | 658936.213 | 5733168.296 | 31.595 | |
| 2073 | 658953.544 | 5733158.182 | 31.437 | |
| 2074 | 658971.239 | 5733148.547 | 31.213 | |
| 2075 | 658989.044 | 5733139.413 | 30.852 | |
| 2076 | 659006.647 | 5733129.81 | 30.308 | |
| 2077 | 659021.96 | 5733118.92 | 30.066 | |

VSI Tool Evaluation Test Report WVSP Line-A

| VSI Seismic Evaluation Report | | | | | | | |
|-------------------------------|---------|---------|----------|--------------------------|-------------|-------------|--------|
| ELECTRICAL NOISE LOW TEST | | | | | | | |
| 2006/05/15 09:33:15 | | | | | | | |
| Shot No: 3 | | | | Station Depth: 1800.01 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| DC Offset | 1 | X | -25.4331 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1294 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4422 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3673 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4902 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.3907 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1282 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4155 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.2360 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1330 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.5275 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -25.0986 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1305 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4246 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.3906 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1296 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4620 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.3985 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1354 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4860 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.3031 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1372 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.4387 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.3771 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1338 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.5223 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.3068 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1326 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5262 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.3466 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4801 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.3038 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1352 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.5890 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.2739 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1328 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4964 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3551 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1292 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.5048 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3358 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1324 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.6130 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.4187 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1354 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.5113 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.3470 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1327 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.4295 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -25.3573 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1307 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.4958 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.3262 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1351 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.5342 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -25.2920 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1339 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.6228 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.3408 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1335 | micro V | - | 0.5000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| Noise Peak | 7 | Z | 0.4639 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.4262 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1281 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4583 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.2868 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1341 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5063 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.4509 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1373 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.4703 | micro V | - | 2.0000 | PASS |

ELECTRICAL NOISE HIGH TEST

2006/05/15 09:33:55

Shot No: 4

Station Depth: 1800.01 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.3190 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1293 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4966 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3679 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1301 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4239 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.2293 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1292 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4469 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -24.9896 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1288 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4362 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -24.7959 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1293 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4616 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2353 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1273 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4551 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.1375 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1319 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.5651 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.4387 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1368 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5557 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.2937 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1312 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.5011 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2363 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1316 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5411 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.1108 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1325 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4854 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2013 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1347 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.4412 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.0331 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1287 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.5802 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3310 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1322 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.5264 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.2923 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.5648 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.3819 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.5100 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.0898 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1324 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.5996 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -24.9717 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1304 | micro V | - | 0.5000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| Noise Peak | 6 | Z | 0.4668 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.1592 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.5494 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -25.0015 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1336 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5006 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.1379 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.5742 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.2083 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1305 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.5934 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -24.9761 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1308 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5194 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.0918 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1367 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.5203 | micro V | - | 2.0000 | PASS |

ELECTRICAL DISTORTION TEST

2006/05/15 09:34:21

Shot No: 5

Station Depth: 1800.01 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|---------------------------|---------|---------|-----------|------|-------------|-------------|--------|
| Total Harmonic Distortion | 1 | X | -98.0920 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Y | -98.8090 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Z | -98.0665 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | X | -94.4652 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Y | -95.5097 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Z | -98.5629 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | X | -101.3968 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Y | -100.7929 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Z | -102.2089 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | X | -100.5315 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Y | -101.6483 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Z | -98.9626 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | X | -95.7528 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Y | -97.0394 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Z | -96.3345 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | X | -98.6281 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Y | -101.2357 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Z | -98.0713 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | X | -99.4616 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Y | -99.2268 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Z | -98.2408 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | X | -98.5474 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Y | -98.0181 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Z | -99.2466 | dB | - | -90.0000 | PASS |

SYSTEM DYNAMIC RANGE TEST

2006/05/15 09:34:52

Shot No: 6

Station Depth: 1800.01 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|----------------------|---------|---------|----------|------|-------------|-------------|--------|
| System Dynamic Range | 1 | X | 107.7938 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Y | 107.6366 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Z | 107.4697 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | X | 106.2838 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Y | 106.4850 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Z | 106.9098 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | X | 106.4413 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Y | 106.3822 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Z | 106.6770 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | X | 107.2456 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Y | 107.1742 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Z | 107.5556 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | X | 107.3092 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Y | 107.2334 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Z | 106.9663 | dB | 103.0000 | - | PASS |

| | | | | | | | |
|----------------------|---|---|----------|----|----------|---|------|
| System Dynamic Range | 6 | X | 106.3902 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Y | 106.5213 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Z | 106.3035 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | X | 107.1125 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Y | 107.1151 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Z | 107.2893 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | X | 107.8385 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Y | 108.0989 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Z | 107.9566 | dB | 103.0000 | - | PASS |

AMPLIFIER GAIN 2 TEST

2006/05/15 09:35:23

Shot No: 7

Station Depth: 1800.01 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1203 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1330 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1172 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1243 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1205 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1463 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1240 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1346 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1325 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1340 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1234 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1324 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1176 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1232 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1220 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1114 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1066 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1136 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1063 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1172 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1257 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1098 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1184 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1087 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 4 TEST

2006/05/15 09:35:39

Shot No: 8

Station Depth: 1800.01 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1081 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 1 | X | 0.0122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1287 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1226 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1449 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1229 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1335 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1366 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1333 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1202 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1293 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1156 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1238 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1172 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0048 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1087 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1052 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1123 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1036 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1150 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1243 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1083 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1182 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0041 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 8 TEST

2006/05/15 09:35:56

Shot No: 9

Station Depth: 1800.01 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1278 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0052 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0978 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1241 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0003 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1449 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1229 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1357 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0011 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Accuracy | 3 | Z | 0.1406 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1358 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | -0.0018 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1225 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1298 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1160 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0016 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1244 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1187 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1086 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1074 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | -0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1104 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1145 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1255 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1086 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1169 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0016 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1076 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0012 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 16 TEST**2006/05/15 09:36:12****Shot No: 10****Station Depth: 1800.01 m**

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------|----------------|----------------|--------------|-------------|--------------------|--------------------|---------------|
| Gain Accuracy | 1 | X | 0.0974 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0229 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1221 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0108 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0955 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1188 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1121 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0084 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1412 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1195 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1326 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1407 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1319 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1202 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1257 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0067 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1105 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1214 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0018 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1148 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0072 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1015 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Step Accuracy | 6 | X | 0.0099 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0039 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1066 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0070 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0985 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0078 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1115 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1212 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1053 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1133 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0052 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 32 TEST

2006/05/15 09:36:28

Shot No: 11

Station Depth: 1800.01 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0970 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0234 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1265 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0064 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0982 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0190 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1201 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0043 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1146 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1428 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0035 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1240 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1374 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1426 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0101 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1332 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1204 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1287 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0037 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1117 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0060 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1261 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1176 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1063 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1109 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1004 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1145 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1228 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1131 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | -0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1162 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0023 | dB | -0.5000 | 0.5000 | PASS |

| Gain Accuracy | 8 | Z | 0.0975 | dB | -0.5000 | 0.5000 | PASS |
|------------------------------|---------|---------|----------|---------------------------------|-------------|-------------|--------|
| Gain Step Accuracy | 8 | Z | 0.0112 | dB | -0.5000 | 0.5000 | PASS |
| CROSS TALK X TEST | | | | | | | |
| 2006/05/15 09:37:00 | | | | | | | |
| Shot No: 12 | | | | Station Depth: 1800.01 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| Cross Talk X-Y | 1 | - | -99.5044 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 1 | - | -97.7645 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 2 | - | -99.7939 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 2 | - | -98.2313 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 3 | - | -99.2521 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 3 | - | -98.0018 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 4 | - | -99.6013 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 4 | - | -97.4076 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 5 | - | -99.7021 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 5 | - | -98.3394 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 6 | - | -99.5294 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 6 | - | -98.4227 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 7 | - | -99.4175 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 7 | - | -98.2109 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 8 | - | -99.3132 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 8 | - | -98.1891 | dB | - | -90.0000 | PASS |
| CROSS TALK Y TEST | | | | | | | |
| 2006/05/15 09:37:37 | | | | | | | |
| Shot No: 13 | | | | Station Depth: 1800.01 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| Cross Talk Y-Z | 1 | - | -97.4473 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 1 | - | -99.2912 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 2 | - | -97.6952 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 2 | - | -99.3167 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 3 | - | -97.1185 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 3 | - | -98.8720 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 4 | - | -96.9711 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 4 | - | -98.9924 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 5 | - | -97.9542 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 5 | - | -99.1021 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 6 | - | -97.8925 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 6 | - | -98.9454 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 7 | - | -98.0227 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 7 | - | -99.0313 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 8 | - | -97.9903 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 8 | - | -99.1452 | dB | - | -90.0000 | PASS |
| CROSS TALK Z TEST | | | | | | | |
| 2006/05/15 09:38:13 | | | | | | | |
| Shot No: 14 | | | | Station Depth: 1800.01 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| Cross Talk Z-X | 1 | - | -96.4405 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 1 | - | -95.7848 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 2 | - | -97.2891 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 2 | - | -96.7581 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 3 | - | -96.6895 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 3 | - | -96.0287 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 4 | - | -96.1396 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 4 | - | -95.6120 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 5 | - | -96.9631 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 5 | - | -96.7029 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 6 | - | -96.7826 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 6 | - | -96.2208 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 7 | - | -96.6652 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 7 | - | -96.3953 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 8 | - | -97.3825 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 8 | - | -97.1758 | dB | - | -90.0000 | PASS |
| IMPULSE RESPONSE TEST | | | | | | | |
| 2006/05/15 09:38:49 | | | | | | | |
| Shot No: 15 | | | | Station Depth: 1800.01 m | | | |

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------------|---------|---------|----------|---------|-------------|-------------|--------|
| Amplitude (0.3Hz) | 1 | X | -1.4997 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | X | -3.5793 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | X | 571.5112 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | X | 0.0000 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Y | -1.4180 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Y | -3.5752 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Y | 572.3546 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Y | -0.7974 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Z | -1.4598 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Z | -3.5761 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Z | 571.3079 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Z | -0.4750 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | X | -1.4475 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | X | -3.5723 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | X | 572.3973 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | X | -0.1833 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Y | -1.5797 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Y | -3.5730 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Y | 572.2275 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Y | 1.1036 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Z | -1.6071 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Z | -3.5702 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Z | 573.7319 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Z | 1.4780 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | X | -1.4829 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | X | -3.5737 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | X | 572.1680 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | X | -0.2201 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Y | -1.4926 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Y | -3.5744 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Y | 573.0114 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Y | -0.4188 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Z | -1.5349 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Z | -3.5736 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Z | 573.0218 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Z | 0.2468 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | X | -1.6665 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | X | -3.5708 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | X | 572.3799 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | X | 1.5133 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Y | -1.5546 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Y | -3.5726 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Y | 571.3388 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Y | 0.4008 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Z | -1.5345 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Z | -3.5723 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Z | 572.2610 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Z | 0.1105 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | X | -1.5970 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | X | -3.5752 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | X | 571.8188 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | X | 1.1346 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Y | -1.5162 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Y | -3.5748 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Y | 572.2577 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Y | 0.2322 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Z | -1.6764 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Z | -3.5750 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Z | 572.2553 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Z | 1.8498 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | X | -1.6246 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | X | -3.5783 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | X | 571.0050 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | X | 1.3375 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Y | -1.4950 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Y | -3.5720 | dB | -5.0000 | - | PASS |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Impulse Amplitude | 6 | Y | 571.1243 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Y | 0.1506 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Z | -1.5812 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Z | -3.5783 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Z | 571.6791 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Z | 0.7850 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | X | -1.5382 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | X | -3.5669 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | X | 570.2835 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | X | 1.3263 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Y | -1.5262 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Y | -3.5663 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Y | 571.3531 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Y | 1.1791 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Z | -1.4607 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Z | -3.5667 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Z | 571.8976 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Z | 0.4599 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | X | -1.5794 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | X | -3.5737 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | X | 570.8352 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | X | 1.3888 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Y | -1.6114 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Y | -3.5717 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Y | 572.0117 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Y | 1.3510 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Z | -1.6764 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Z | -3.5711 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Z | 571.0258 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Z | 2.1506 | degree | - | - | - |

ELECTRICAL NOISE LOW TEST

2006/05/16 07:37:00

Shot No: 295

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.4316 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1303 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4241 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3705 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1338 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4987 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.3897 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1308 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.5184 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.2344 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1332 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.5317 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -25.0967 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1302 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4983 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.3894 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1314 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4863 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.3930 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1300 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.5429 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.3041 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1342 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.6356 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.3739 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1361 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.5251 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.3057 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1360 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.4723 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.3461 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1314 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4949 | micro V | - | 2.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| DC Offset | 4 | Z | -25.2983 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1353 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.4891 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.2741 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1326 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4924 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3547 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1335 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4396 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3377 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1357 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.5034 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.4140 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1361 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.5429 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.3404 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.4398 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -25.3509 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1300 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.4595 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.3252 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1371 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.4561 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -25.2881 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1312 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5435 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.3407 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1381 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.5375 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.4222 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1316 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4407 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.2867 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1387 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5347 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.4469 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1298 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.4708 | micro V | - | 2.0000 | PASS |

ELECTRICAL NOISE HIGH TEST

2006/05/16 07:37:40

Shot No: 296

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.3266 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1331 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.5468 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.4428 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1320 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4975 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.2369 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1269 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4579 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -24.9890 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.5500 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -24.7963 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1285 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4334 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2426 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1302 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4982 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.0879 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4442 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.4858 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1383 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5225 | micro V | - | 2.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| DC Offset | 3 | Z | -25.2716 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1368 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.4995 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2456 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1350 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5314 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.1252 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1309 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4576 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.1496 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1332 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.4932 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.0570 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1343 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4749 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3502 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1295 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4776 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3550 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1310 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.5229 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.3390 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1294 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4872 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.0196 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1311 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.4914 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -24.9009 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.4489 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.1610 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1354 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.4277 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -24.9719 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1343 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5169 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.1631 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1379 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.5590 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.1790 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1347 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4830 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.0035 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1344 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5570 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.0620 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1312 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.5083 | micro V | - | 2.0000 | PASS |

ELECTRICAL DISTORTION TEST

2006/05/16 07:38:05

Shot No: 297

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|---------------------------|---------|---------|-----------|------|-------------|-------------|--------|
| Total Harmonic Distortion | 1 | X | -98.1331 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Y | -98.8154 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Z | -98.0549 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | X | -94.3285 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Y | -95.2168 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Z | -98.2162 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | X | -100.5882 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Y | -100.2110 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Z | -101.5789 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | X | -99.7962 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Y | -100.7531 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Z | -98.3818 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | X | -95.3903 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Y | -96.7643 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Z | -95.9568 | dB | - | -90.0000 | PASS |

| | | | | | | | |
|---------------------------|---|---|-----------|----|---|----------|------|
| Total Harmonic Distortion | 6 | X | -98.2797 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Y | -101.0313 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Z | -97.8010 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | X | -99.1086 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Y | -98.8698 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Z | -97.8394 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | X | -98.6076 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Y | -97.9927 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Z | -99.0340 | dB | - | -90.0000 | PASS |

SYSTEM DYNAMIC RANGE TEST

2006/05/16 07:38:37

Shot No: 298

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|----------------------|---------|---------|----------|------|-------------|-------------|--------|
| System Dynamic Range | 1 | X | 106.9817 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Y | 107.3421 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Z | 107.1532 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | X | 106.9889 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Y | 106.8887 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Z | 107.2411 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | X | 106.6281 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Y | 106.6453 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Z | 106.6441 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | X | 107.1792 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Y | 106.8931 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Z | 107.3978 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | X | 106.8800 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Y | 107.4668 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Z | 106.9502 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | X | 106.1576 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Y | 106.4295 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Z | 106.3277 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | X | 107.8458 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Y | 107.7101 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Z | 107.8242 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | X | 107.1262 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Y | 107.2787 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Z | 106.8950 | dB | 103.0000 | - | PASS |

AMPLIFIER GAIN 2 TEST

2006/05/16 07:39:08

Shot No: 299

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1195 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1322 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1165 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1235 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1196 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1455 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1230 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1336 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1316 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1331 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1225 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1316 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1170 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1224 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1213 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1108 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1129 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1249 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1090 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1176 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1080 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 4 TEST

2006/05/16 07:39:24

Shot No: 300

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1074 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1280 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1218 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1155 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1441 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1219 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1326 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1357 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1325 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1193 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1285 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1149 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1231 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1166 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1115 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1143 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Accuracy | 7 | Z | 0.1236 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1075 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1175 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1039 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0040 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 8 TEST

2006/05/16 07:39:41

Shot No: 301

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1039 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1271 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0971 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1233 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1156 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1441 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1220 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1348 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1397 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1349 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | -0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1290 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1154 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0016 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1237 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1180 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1080 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1067 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | -0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1097 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1024 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1248 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1079 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1161 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0011 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 16 TEST

2006/05/16 07:39:57

Shot No: 302

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0967 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0229 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Accuracy | 1 | Y | 0.1215 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0107 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0949 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0216 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1181 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1113 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0084 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1405 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1186 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1316 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1398 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1310 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1250 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0066 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1099 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1207 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1141 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0072 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0099 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0038 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0978 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0077 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1108 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1205 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1125 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 32 TEST

2006/05/16 07:40:14

Shot No: 303

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0963 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0233 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1259 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0064 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0976 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0189 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0058 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1421 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1230 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | -0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1365 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1418 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 3 | Z | -0.0102 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1324 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1196 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1280 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0036 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1110 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1255 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1170 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0043 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1103 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0998 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1139 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1221 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1124 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | -0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1155 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0022 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.0968 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0112 | dB | -0.5000 | 0.5000 | PASS |

CROSS TALK X TEST

2006/05/16 07:40:45

Shot No: 304

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk X-Y | 1 | - | -99.5122 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 1 | - | -97.8506 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 2 | - | -99.3948 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 2 | - | -98.3643 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 3 | - | -99.4335 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 3 | - | -97.8278 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 4 | - | -99.6336 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 4 | - | -97.7424 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 5 | - | -99.6159 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 5 | - | -98.3103 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 6 | - | -99.5373 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 6 | - | -98.4372 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 7 | - | -99.5731 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 7 | - | -98.3943 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 8 | - | -99.4323 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 8 | - | -98.6308 | dB | - | -90.0000 | PASS |

CROSS TALK Y TEST

2006/05/16 07:41:22

Shot No: 305

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Y-Z | 1 | - | -97.3677 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 1 | - | -99.0456 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 2 | - | -97.6578 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 2 | - | -99.2526 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 3 | - | -97.2391 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 3 | - | -99.0116 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 4 | - | -97.0275 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 4 | - | -98.8458 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 5 | - | -97.7910 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 5 | - | -99.3635 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 6 | - | -98.0421 | dB | - | -90.0000 | PASS |

| | | | | | | | |
|----------------|---|---|----------|----|---|----------|------|
| Cross Talk Y-X | 6 | - | -99.0360 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 7 | - | -97.8596 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 7 | - | -99.0520 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 8 | - | -97.7835 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 8 | - | -99.1533 | dB | - | -90.0000 | PASS |

CROSS TALK Z TEST

2006/05/16 07:41:59

Shot No: 306

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Z-X | 1 | - | -96.3665 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 1 | - | -96.0278 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 2 | - | -97.0011 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 2 | - | -96.8749 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 3 | - | -96.5836 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 3 | - | -96.1508 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 4 | - | -96.0149 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 4 | - | -95.4243 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 5 | - | -96.9177 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 5 | - | -96.7195 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 6 | - | -96.3422 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 6 | - | -96.0782 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 7 | - | -96.5506 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 7 | - | -96.4042 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 8 | - | -97.3096 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 8 | - | -97.0425 | dB | - | -90.0000 | PASS |

IMPULSE RESPONSE TEST

2006/05/16 07:42:34

Shot No: 307

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------------|---------|---------|----------|---------|-------------|-------------|--------|
| Amplitude (0.3Hz) | 1 | X | -1.4800 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | X | -3.5727 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | X | 572.1664 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | X | 0.0000 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Y | -1.4022 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Y | -3.5736 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Y | 573.0228 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Y | -0.8087 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Z | -1.4396 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Z | -3.5744 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Z | 571.9777 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Z | -0.5184 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | X | -1.4512 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | X | -3.5782 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | X | 571.9116 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | X | -0.0536 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Y | -1.5818 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Y | -3.5771 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Y | 571.7408 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Y | 1.4071 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Z | -1.6120 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Z | -3.5785 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Z | 573.2514 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Z | 1.7150 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | X | -1.4684 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | X | -3.5716 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | X | 571.6537 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | X | 0.0881 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Y | -1.4728 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Y | -3.5724 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Y | 572.4948 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Y | -0.0941 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Z | -1.5220 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Z | -3.5730 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Z | 572.5156 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Z | 0.5440 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | X | -1.6598 | dB | -5.0000 | - | PASS |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (400Hz) | 4 | X | -3.5719 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | X | 572.4254 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | X | 1.6294 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Y | -1.5462 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Y | -3.5718 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Y | 571.3890 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Y | 0.5004 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Z | -1.5329 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Z | -3.5732 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Z | 572.3219 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Z | 0.2929 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | X | -1.6045 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | X | -3.5753 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | X | 571.8851 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | X | 1.1570 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Y | -1.5212 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Y | -3.5752 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Y | 572.3284 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Y | 0.2670 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Z | -1.6822 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Z | -3.5736 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Z | 572.3300 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Z | 1.8368 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | X | -1.6129 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | X | -3.5771 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | X | 570.4938 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | X | 1.4098 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Y | -1.5169 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Y | -3.5755 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Y | 570.6074 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Y | 0.2786 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Z | -1.5793 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Z | -3.5768 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Z | 571.1631 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Z | 0.8303 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | X | -1.6013 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | X | -3.5771 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | X | 570.9993 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | X | 1.4786 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Y | -1.5876 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Y | -3.5745 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Y | 572.0658 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Y | 1.3539 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Z | -1.5253 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Z | -3.5763 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Z | 572.6102 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Z | 0.6374 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | X | -1.6388 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | X | -3.5788 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | X | 570.2931 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | X | 1.5604 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Y | -1.6716 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Y | -3.5764 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Y | 571.4761 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Y | 1.4810 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Z | -1.7400 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Z | -3.5784 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Z | 570.4855 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Z | 2.2792 | degree | - | - | - |

ELECTRICAL NOISE LOW TEST

2006/05/16 11:23:02

Shot No: 474

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.4291 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1316 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4651 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3653 | milli V | -100.0000 | 100.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| RMS Noise Level | 1 | Y | 0.1330 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.6289 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.3896 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1320 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4524 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.2334 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4893 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -25.0970 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1279 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4322 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.3891 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1344 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4908 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.3962 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1330 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4689 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.3012 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1396 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5341 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.3754 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1332 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.4302 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.3048 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1335 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5213 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.3451 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4534 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.3025 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1342 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.4535 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.2712 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1312 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.5067 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3537 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1288 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4419 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3336 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1327 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.5250 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.4162 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1347 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.5039 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.3451 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1314 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.5110 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -25.3540 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1303 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.4745 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.3247 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1348 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.4862 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -25.2897 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1339 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.4508 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.3388 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1354 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.6484 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.4238 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1347 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.5584 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.2845 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1338 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.4734 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.4494 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1382 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.6493 | micro V | - | 2.0000 | PASS |

ELECTRICAL NOISE HIGH TEST

2006/05/16 11:23:42

Shot No: 475

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.2868 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1291 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.5063 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3611 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1319 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4790 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.2396 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4420 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -24.9837 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1304 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4717 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -24.8061 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1287 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.5518 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2391 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1288 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4669 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.1398 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4639 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.4422 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1348 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.4536 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.2986 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1333 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.5239 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2311 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1359 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.4863 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.1140 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1328 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4918 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2157 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1317 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.5107 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.0223 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1337 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.5921 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3328 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1292 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4516 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.2907 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.5655 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.3765 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1315 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4427 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.0895 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1330 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.5694 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -24.9520 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1278 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.5378 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.1550 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1358 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.4796 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -24.9956 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1341 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5566 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.1399 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1350 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.4861 | micro V | - | 2.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| DC Offset | 8 | X | -25.2002 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1299 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4504 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -24.9633 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1336 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.6093 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.1044 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1353 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.5074 | micro V | - | 2.0000 | PASS |

ELECTRICAL DISTORTION TEST

2006/05/16 11:24:07

Shot No: 476

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|---------------------------|---------|---------|-----------|------|-------------|-------------|--------|
| Total Harmonic Distortion | 1 | X | -97.7341 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Y | -98.3516 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Z | -97.5874 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | X | -94.3410 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Y | -95.1884 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Z | -98.4703 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | X | -100.7950 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Y | -100.2012 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Z | -101.9409 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | X | -99.8571 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Y | -100.8219 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Z | -98.3710 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | X | -95.2552 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Y | -96.6201 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Z | -95.8660 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | X | -98.2261 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Y | -101.1546 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Z | -97.6748 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | X | -99.3772 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Y | -98.9783 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Z | -97.8653 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | X | -98.5042 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Y | -97.7044 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Z | -98.9225 | dB | - | -90.0000 | PASS |

SYSTEM DYNAMIC RANGE TEST

2006/05/16 11:24:39

Shot No: 477

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|----------------------|---------|---------|----------|------|-------------|-------------|--------|
| System Dynamic Range | 1 | X | 107.8477 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Y | 107.9267 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Z | 107.9701 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | X | 106.7878 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Y | 107.2500 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Z | 107.1751 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | X | 106.8549 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Y | 106.5536 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Z | 106.8906 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | X | 106.7277 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Y | 106.7999 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Z | 106.6895 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | X | 107.1155 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Y | 107.4129 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Z | 107.2215 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | X | 106.8751 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Y | 106.6587 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Z | 106.5031 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | X | 106.7335 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Y | 106.4592 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Z | 106.8863 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | X | 107.5284 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Y | 107.5681 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Z | 107.7059 | dB | 103.0000 | - | PASS |

AMPLIFIER GAIN 2 TEST

2006/05/16 11:25:11

Shot No: 478

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1195 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1322 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1235 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1196 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1455 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1230 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1335 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1315 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1331 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1225 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1316 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1170 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1224 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1213 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1108 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1129 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1250 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1090 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1176 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1080 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 4 TEST

2006/05/16 11:25:27

Shot No: 479

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1073 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1280 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1218 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1155 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1441 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1218 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1325 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1357 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1325 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1193 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1285 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1149 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1231 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1166 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1115 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1143 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1236 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1075 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1175 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1039 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0040 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 8 TEST

2006/05/16 11:25:43

Shot No: 480

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1038 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1270 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0971 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1232 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1155 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1441 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1219 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1347 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1397 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1349 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | -0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1290 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1154 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0016 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Accuracy | 5 | Y | 0.1237 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1180 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1080 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1067 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | -0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1097 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1024 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1248 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1079 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1162 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0011 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 16 TEST

2006/05/16 11:25:59

Shot No: 481

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0966 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0229 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1214 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0108 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0948 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1180 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1112 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0084 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1404 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1316 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1398 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1310 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1250 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0066 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1099 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1207 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1142 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0099 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0038 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0978 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0077 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1108 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1205 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Step Accuracy | 7 | Z | 0.0045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1125 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 32 TEST**2006/05/16 11:26:16****Shot No: 482****Station Depth: 1800.03 m**

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0962 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0233 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1258 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0064 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0976 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0189 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1193 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0058 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1421 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1230 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | -0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1365 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1417 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0102 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1323 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1195 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1280 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0036 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1111 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1255 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1170 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0043 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0052 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1018 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1102 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0998 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1139 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1221 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1125 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | -0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1155 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0022 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.0969 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0111 | dB | -0.5000 | 0.5000 | PASS |

CROSS TALK X TEST**2006/05/16 11:26:48****Shot No: 483****Station Depth: 1800.03 m**

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk X-Y | 1 | - | -99.4898 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 1 | - | -97.9304 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 2 | - | -99.4287 | dB | - | -90.0000 | PASS |

| | | | | | | | |
|----------------|---|---|----------|----|---|----------|------|
| Cross Talk X-Z | 2 | - | -98.2641 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 3 | - | -99.0392 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 3 | - | -97.8533 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 4 | - | -99.5461 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 4 | - | -97.6344 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 5 | - | -99.5817 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 5 | - | -98.1404 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 6 | - | -99.7163 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 6 | - | -98.2884 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 7 | - | -99.4947 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 7 | - | -98.3654 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 8 | - | -99.3785 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 8 | - | -98.2281 | dB | - | -90.0000 | PASS |

CROSS TALK Y TEST

2006/05/16 11:27:24

Shot No: 484

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Y-Z | 1 | - | -97.1701 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 1 | - | -98.9170 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 2 | - | -97.9281 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 2 | - | -99.0812 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 3 | - | -97.3728 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 3 | - | -99.0953 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 4 | - | -96.9122 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 4 | - | -98.9093 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 5 | - | -97.8534 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 5 | - | -99.5220 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 6 | - | -97.8165 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 6 | - | -99.2850 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 7 | - | -98.0116 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 7 | - | -98.7842 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 8 | - | -98.0247 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 8 | - | -99.2365 | dB | - | -90.0000 | PASS |

CROSS TALK Z TEST

2006/05/16 11:28:01

Shot No: 485

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Z-X | 1 | - | -96.2005 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 1 | - | -95.7943 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 2 | - | -96.9892 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 2 | - | -96.7984 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 3 | - | -96.7198 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 3 | - | -96.0573 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 4 | - | -96.1664 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 4 | - | -95.7733 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 5 | - | -97.1753 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 5 | - | -96.9215 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 6 | - | -96.5327 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 6 | - | -96.1562 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 7 | - | -96.7129 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 7 | - | -96.4955 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 8 | - | -97.6087 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 8 | - | -97.1655 | dB | - | -90.0000 | PASS |

IMPULSE RESPONSE TEST

2006/05/16 11:28:37

Shot No: 486

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------------|---------|---------|----------|---------|-------------|-------------|--------|
| Amplitude (0.3Hz) | 1 | X | -1.4894 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | X | -3.5717 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | X | 571.9810 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | X | 0.0000 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Y | -1.4121 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Y | -3.5713 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Y | 572.8338 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Y | -0.8871 | degree | - | - | - |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (0.3Hz) | 1 | Z | -1.4504 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Z | -3.5718 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Z | 571.7863 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Z | -0.5098 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | X | -1.4518 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | X | -3.5698 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | X | 571.7148 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | X | -0.0410 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Y | -1.5717 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Y | -3.5701 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Y | 571.5380 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Y | 1.2451 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Z | -1.6042 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Z | -3.5713 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Z | 573.0455 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Z | 1.5363 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | X | -1.4787 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | X | -3.5754 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | X | 571.5276 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | X | -0.3630 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Y | -1.4855 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Y | -3.5744 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Y | 572.3721 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Y | -0.5685 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Z | -1.5267 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Z | -3.5742 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Z | 572.3965 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Z | 0.0880 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | X | -1.7050 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | X | -3.5717 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | X | 572.3221 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | X | 1.0108 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Y | -1.5926 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Y | -3.5729 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Y | 571.2834 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Y | -0.1117 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Z | -1.5727 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Z | -3.5710 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Z | 572.2114 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Z | -0.3676 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | X | -1.5989 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | X | -3.5747 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | X | 571.8024 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | X | 1.1915 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Y | -1.5203 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Y | -3.5748 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Y | 572.2387 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Y | 0.3095 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Z | -1.6819 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Z | -3.5739 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Z | 572.2400 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Z | 1.9161 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | X | -1.6273 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | X | -3.5812 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | X | 570.3857 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | X | 1.1718 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Y | -1.5283 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Y | -3.5828 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Y | 570.5034 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Y | -0.0017 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Z | -1.5945 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Z | -3.5801 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Z | 571.0513 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Z | 0.6626 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | X | -1.6076 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | X | -3.5760 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | X | 570.8329 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | X | 1.4797 | degree | - | - | - |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (0.3Hz) | 7 | Y | -1.5914 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Y | -3.5735 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Y | 571.9020 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Y | 1.3950 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Z | -1.5325 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Z | -3.5750 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Z | 572.4470 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Z | 0.6422 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | X | -1.5907 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | X | -3.5741 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | X | 570.2010 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | X | 1.3741 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Y | -1.6243 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Y | -3.5711 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Y | 571.3864 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Y | 1.3057 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Z | -1.6918 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Z | -3.5745 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Z | 570.3971 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Z | 2.1514 | degree | - | - | - |

Walkaway VSP Line-B Report

General Information

| | |
|--|--------------|
| Survey Type | Walkaway VSP |
| Surface Recording Length | 15500.0 ms |
| Surface Sampling Rate | 2.0 ms |
| Downhole Recording Length | 20500.0 ms |
| Downhole Sampling Rate | 2.0 ms |
| Top of Survey | 1930.0 m |
| Bottom of Survey | 2000.0 m |
| Number of Shots | 173 |
| Number of Downhole Traces | 1384 |
| Number of Downhole Traces used for Processing | 1316 |

Borehole Seismic Source Information - Source 1

Engineer: S. Nakanishi

Well Name: Naylor-1

Date: 16-May-2006

Rig: Rigless/ 15Ton Crane

Geometrical Coordinates

Longitude: 142 48' 30.43" E

Latitude: 38 31' 47.26" S

UTM Coordinates

Easting: 657634.25 m E

Northing: 5733850.49 m N

Permanent Datum: MSL

Log Measured From: DF

Elev. 51.1

Unit: m

Ground Elev. at Well Head 46.4

SRD (Seismic Reference Datum): MSL

Elev. 0.0

from SLB zero: 51.1 (SRDS)

Ground Elev. at VP: 46.4

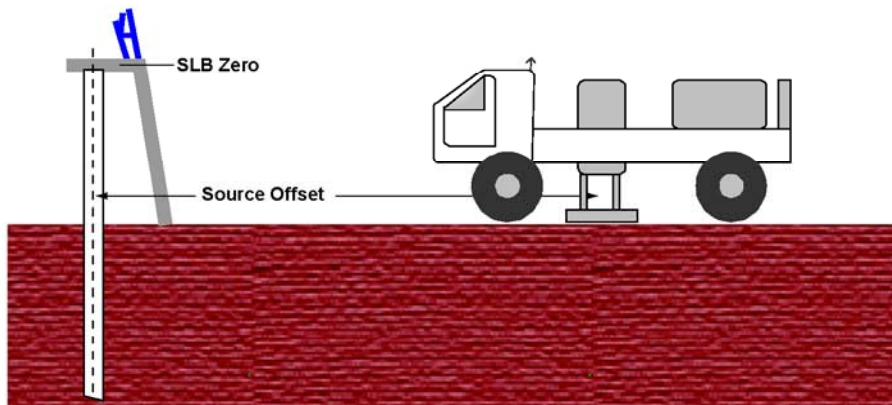
Gun Depth from SLB : 4.7 (GDSZ)

Gun Depth from SRD : -46.4

Gun Depth from GL (WH): 0.0

Ground Condition: Clay soil
Flat terrain

Ground Water Level from GL: 1.0



Gun Azimuth (Grid North): N/A deg (GAZI)

Gun Offset: N/A (GOFF)

Vibrator: IVI MinVib T1500

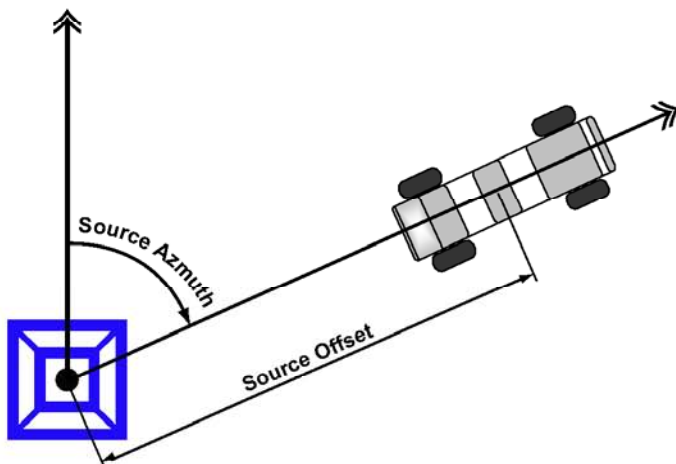
Controller - Encoder: RTS-100

Decoder: SIB-100

Version: ANSIR

Mass Weight 311 lbs
BasePlate Weight 370 lbs
HoldDown Weight 10,000 lbs

Zero Time Adjust N/A
Radio Reference Delay N/A



Sweep Parameters

Start Frequency 10 Hz
End Frequency 150 Hz
Sweep Length 15 sec
Start Taper 0.2 sec
End Taper 0.2 sec
Sweep Type Linear
VIB Sweep Phase N/A
ESG Sweep Phase N/A
Phase Lock Mode N/A
Force Mode N/A

Surface Velocity Survey (Rig Source only)

Tool Measured Depth: N/A

Measured Transit Time: N/A ms Reliable TT

Measured Surface Velocity: NA

Provided Surface Velocity by Client: 1,750.0 m/sec

Borehole Seismic Source Information

Surface Sensor Channels

WSAM (WSI)
sn: **WSAM:-AB 910****WSI: 1742**

Pilot Signal

SSPS

| | | |
|---------------------|---------------------|-------------------------------------|
| S1 (WSI-SS2) | none | <input type="checkbox"/> |
| S2 (WSI-SS3) | Filtered Ground For | <input checked="" type="checkbox"/> |
| S3 (WSI-SS4) | none | <input type="checkbox"/> |
| S4 (WSI-SS5) | | <input type="checkbox"/> |
| S5 (WSI-SS6) | | <input type="checkbox"/> |
| S6 (WSI-SS7) | | <input type="checkbox"/> |

Quality Check Surface Signals

| | S1 Time Break / PP | | S2 TT(ms) / PP | | S3 TT(ms) / PP | | S4 TT(ms) / PP | | S5 TT(ms) / PP | | S6 TT(ms) / PP | |
|--------|--------------------|---|----------------|-------|----------------|---|----------------|---|----------------|---|----------------|---|
| Shot-1 | 0.0 / | 0 | 0.0 / | 19081 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-2 | 0.0 / | 0 | 0.0 / | 19013 | 1.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-3 | 0.0 / | 0 | 0.0 / | 19287 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-4 | 0.0 / | 0 | 0.0 / | 19342 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-5 | 0.0 / | 0 | 0.0 / | 19244 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |

Other Logs Information

| | | | | |
|---------------------|------------------|-------------|-----------|--------------|
| Sonic Log: | Interval: | from | to | Date: |
| Density Log: | Interval: | from | to | Date: |

Remarks

MinVib T1500 used 10Hz to 150Hz linear sweep for 15 seconds. Baseplate used the shearwave plate for P-wave mode. PSS or QC signal is not available in the RTS-100 system.

Contact Closure pin-F and G of RTS-100 is used for triggering MinVib through WSI-A (30 msec period). Start Delay sets 0.1 s.

SIB-100 can provide three reference pilot signals (Synthetic, Ground Force and Filtered Ground force). Only one of them can be transmitted through UHF radio. The Filtered Ground Force signal is recommended for correlation by the IVI. Pilot signal (Filtered Ground Force signal) is recorded for correlation. FGF signal is generated in the SIB-100 box in real time by combining the baseplate accelerometer and the mass accelerometer signals during each sweep. This signal is then filtered with a tracking high cut filter. The frequency of this tracking filter is set to remove all higher order harmonics. . FGF signals is 180 degree phase different to GF signal according to Elmo Christensen / IVI.

FGF signal is recorded in reversed polarity (RTS-100 pin-D to WSI pin-A, RTS-100 pin-N to WSI pin-B) in order to obtain positive peak correlation. Downhole receiver (GAC) has SEG reverse polarity (1975).

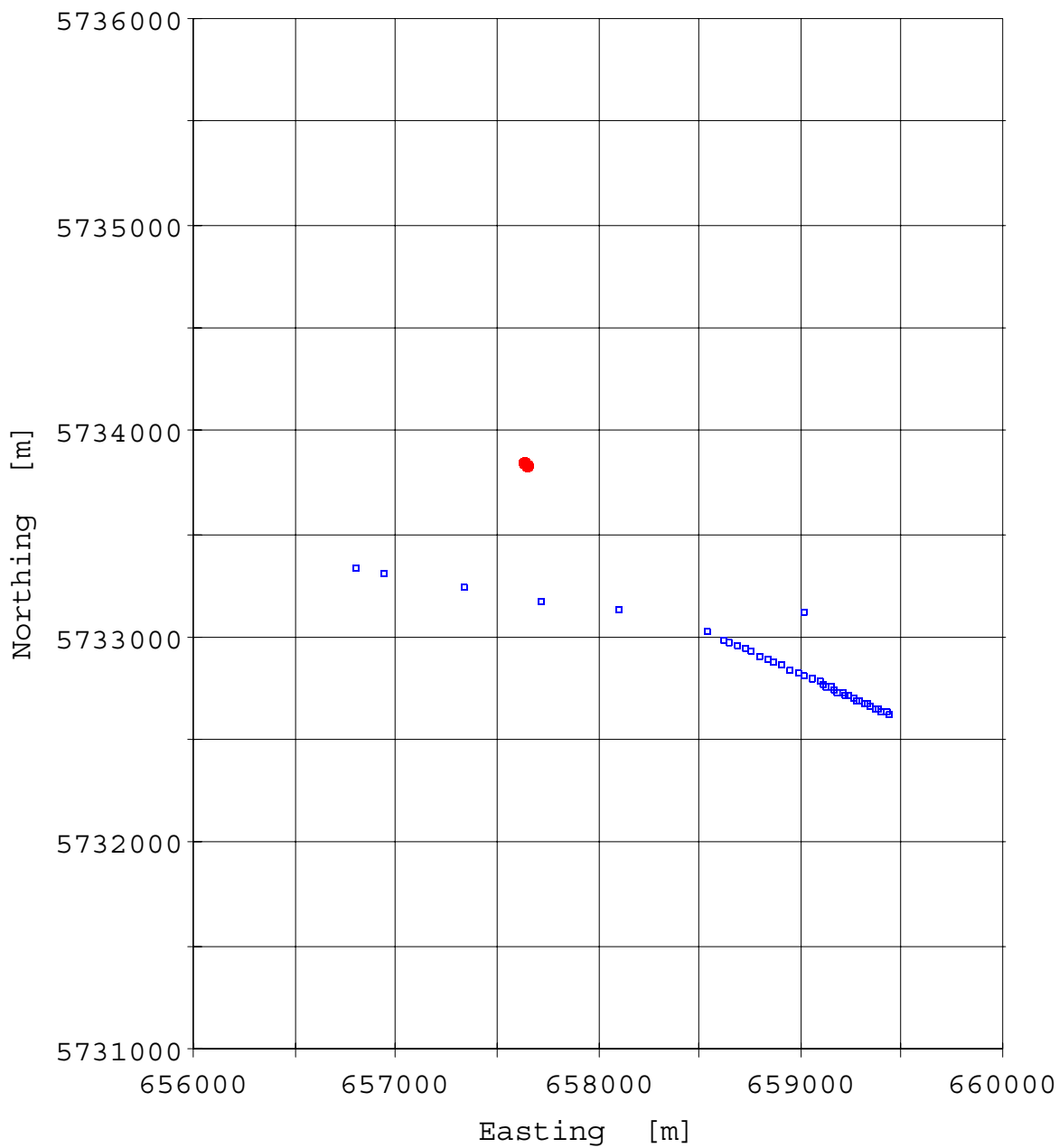
Recording surface signals (WSAM) S1 - No input. S2 - FGF (15500 msec @ 2 msec sampling with TOFS 500 ms to avoid transit noise). Correlation Length 5000 msec. Downhole listening time is 20500 msec @ 2 msec sampling). Input impedance of the channel SS3 (S2) of WSAM-AB was changed from 462-ohm to 10K-ohm in order to obtain better dynamic range.

Detail T-1500 MinVib specification

Max. Theoretical Peak Force: 6,000 Pounds
 Mass Piston Area: 1.50 Inches²
 Reaction Mass Weight: 311 Pounds
 Reaction Mass Stroke: 1.88 Inches
 Servovalve; 5 GPM
 Servovalve Pilot Filter: 3 Micron
 Baseplate Area: 1,018 Inches²
 Baseplate Assembly Weight: 370 Pounds
 Lift System Stroke: 38 Inches
 Lift Cylinder Diameter: 2.5 Inches
 Lift Synchronization: Mechanical Crossbeam
 Vibrator Pump Flow: 15 GPM @ 2100 RPM
 Holddown Weight: 10,000 Pounds




Geometry Information Page (X-Y)

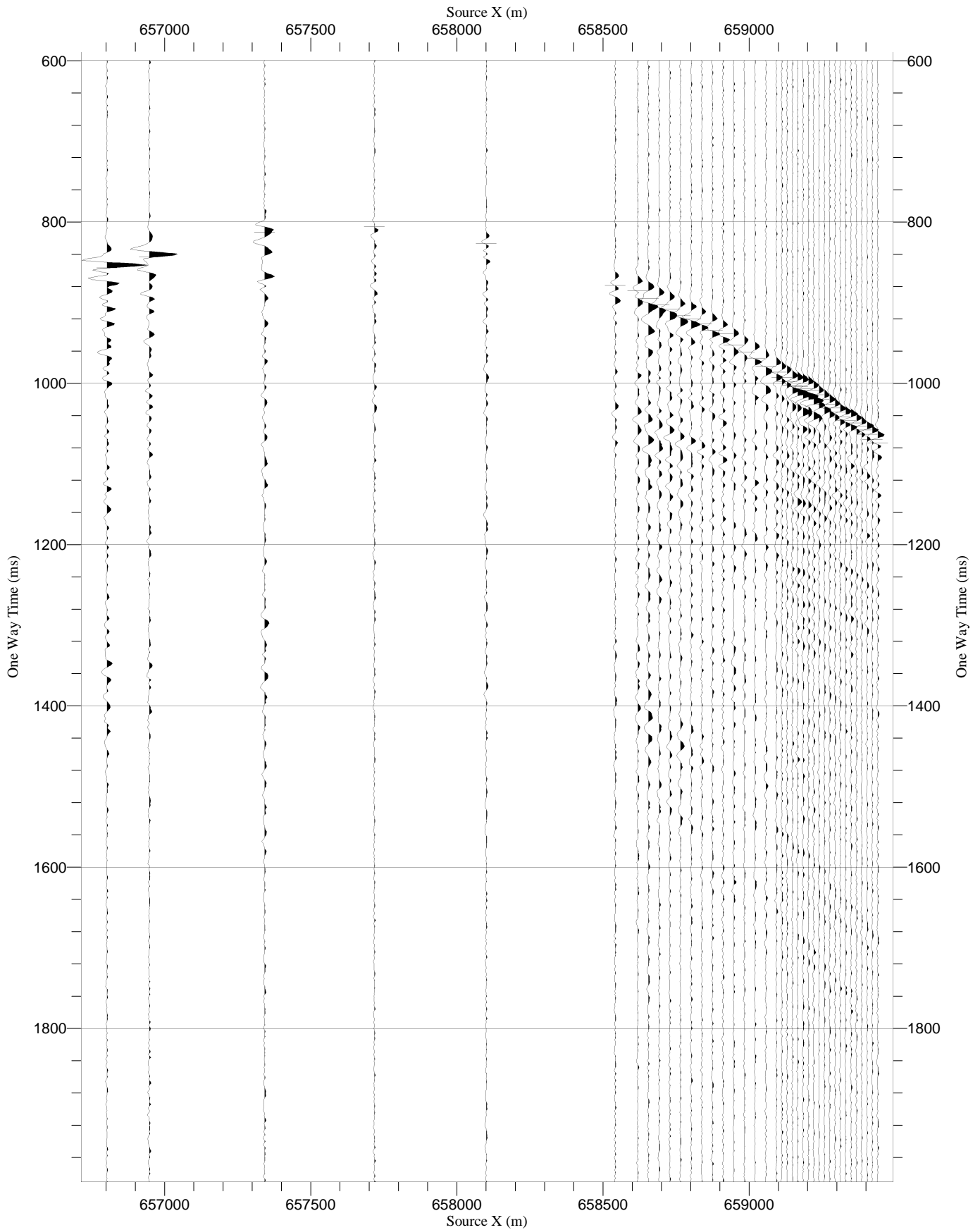



● Receiver Position
□ Source Position

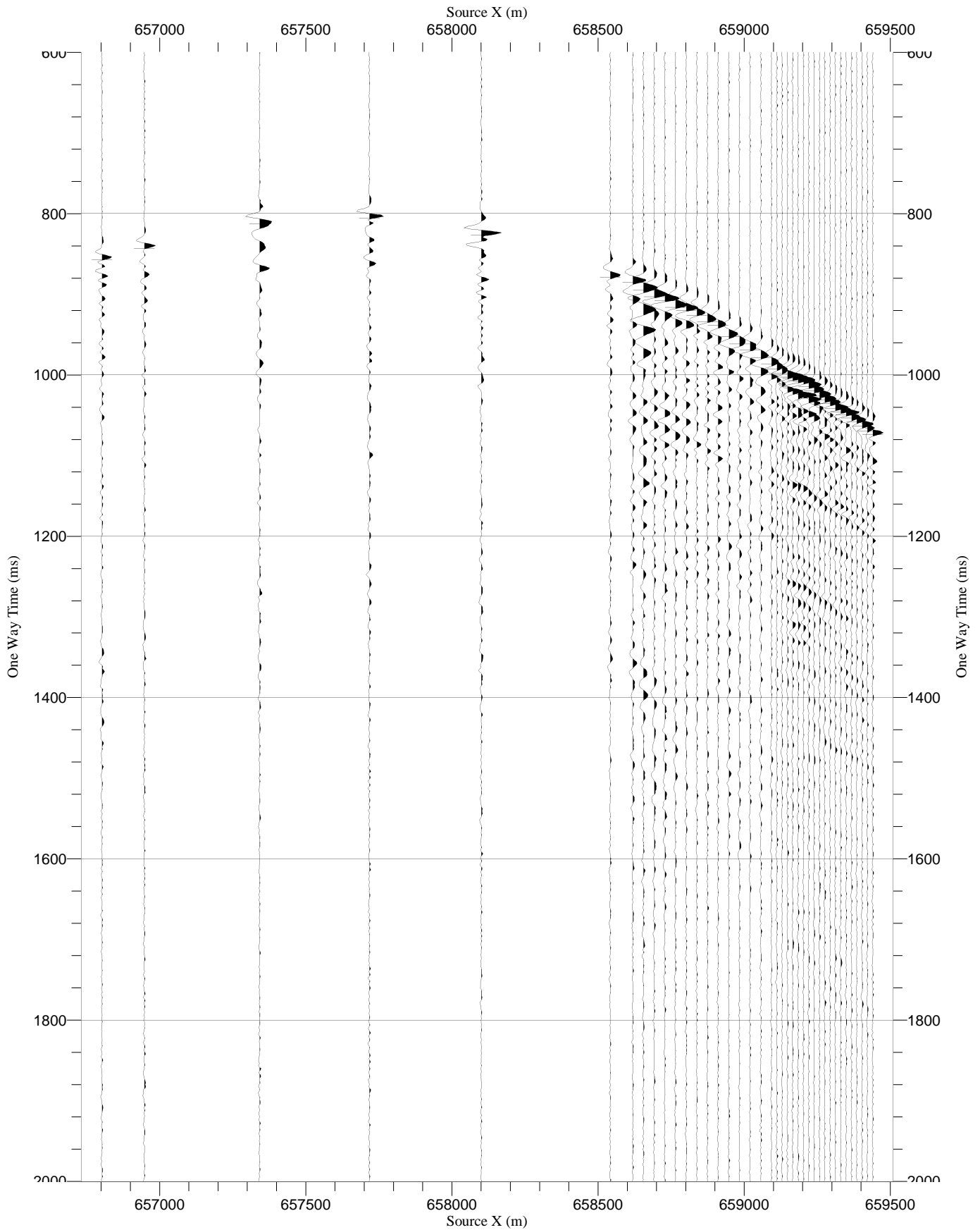
VSI-8


(2000 m receiver gather WVSP Line-B)

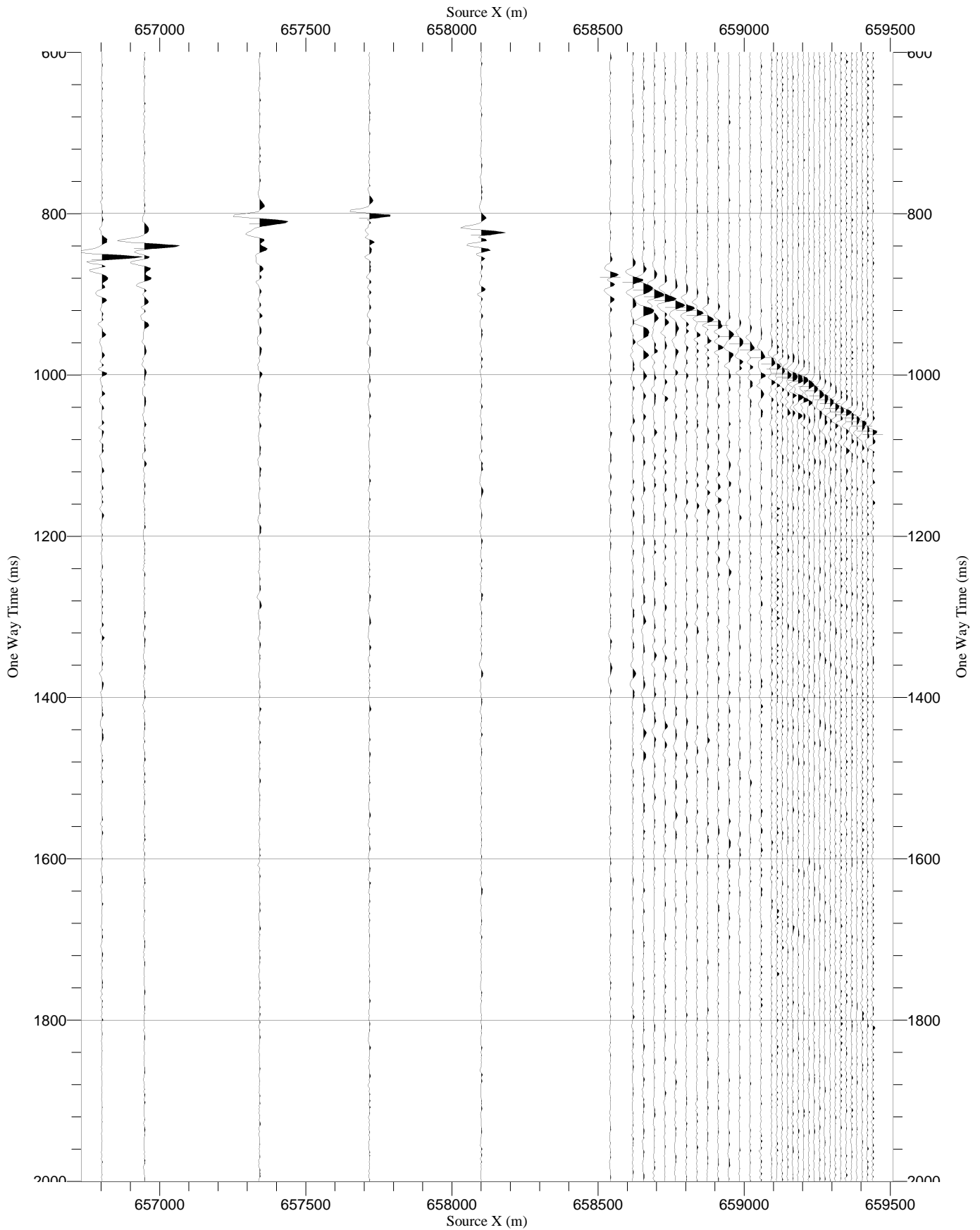
| | | |
|------------------|--|---|
| RawStack Z VSI-8 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




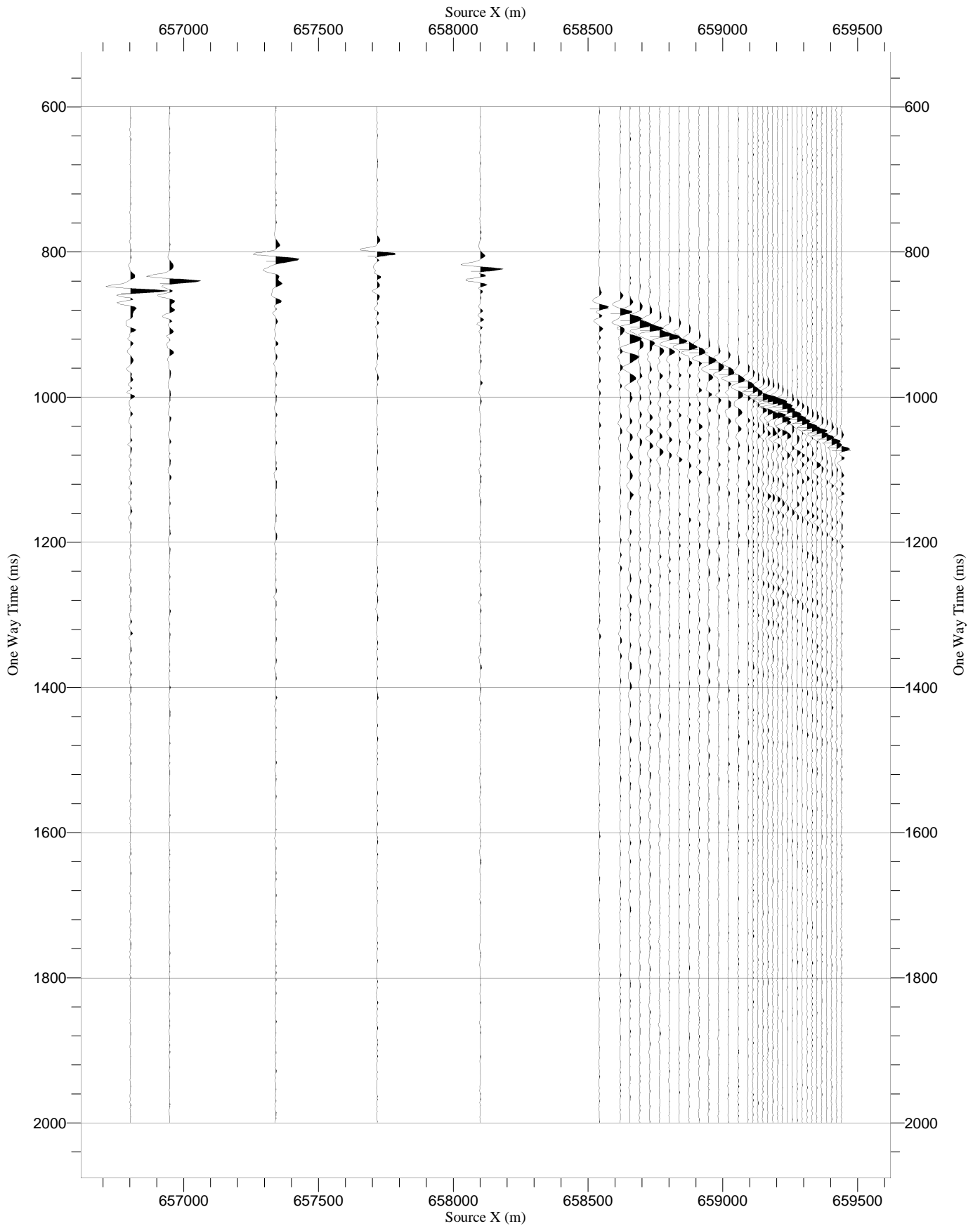
| | | |
|------------------|--|---|
| RawStack Y VSI-8 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|

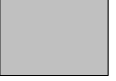


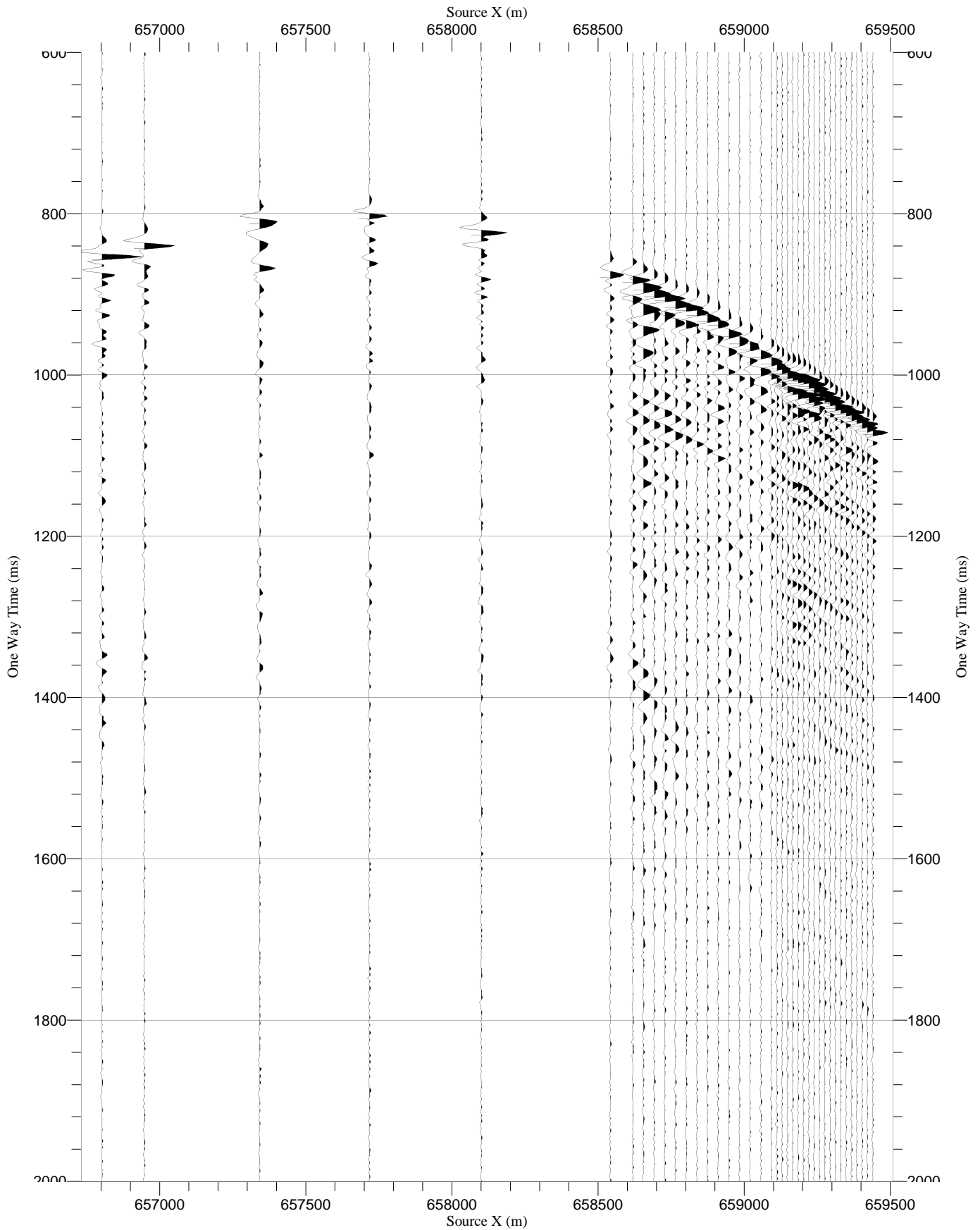
| | | |
|------------------|--|---|
| RawStack X VSI-8 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|



| | | |
|--------------------|--|---|
| RawStack TRY VSI-8 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 13.7 cm/sec, 1/19700 |  |
|--------------------|--|---|




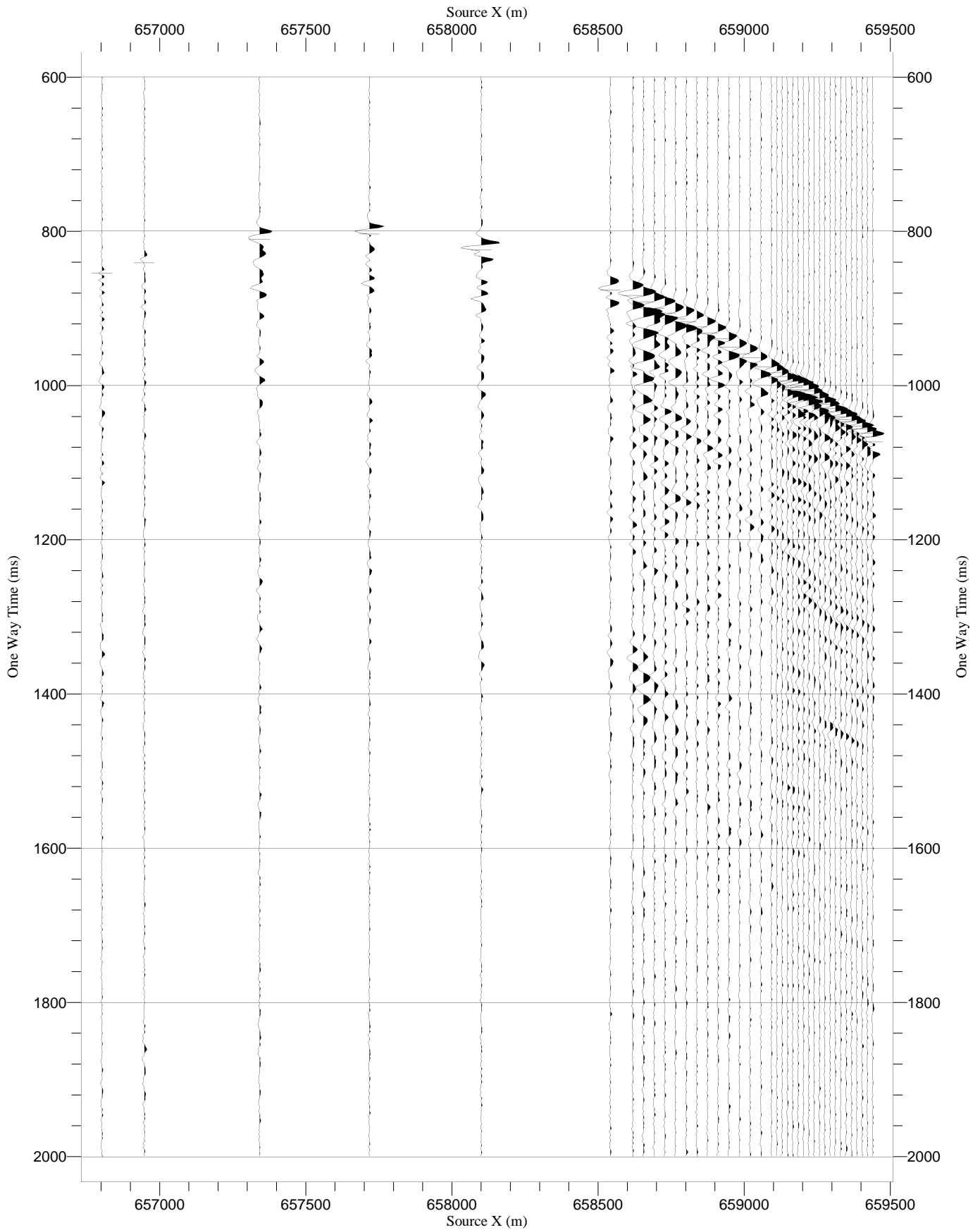
| | | |
|--------------------|--|---|
| RawStack HMX VSI-8 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




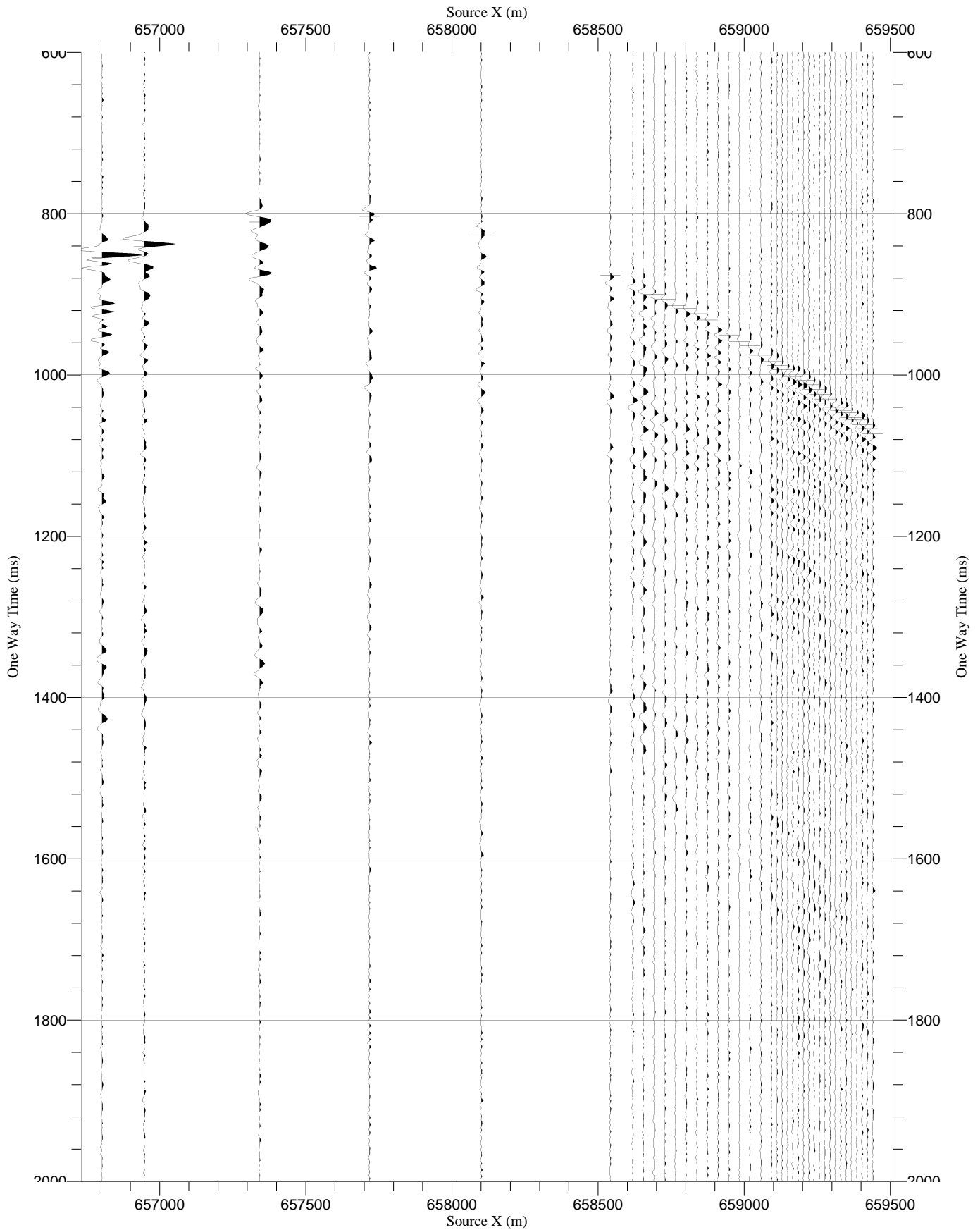
VSI-7


(1990 m receiver gather WVSP Line-B)

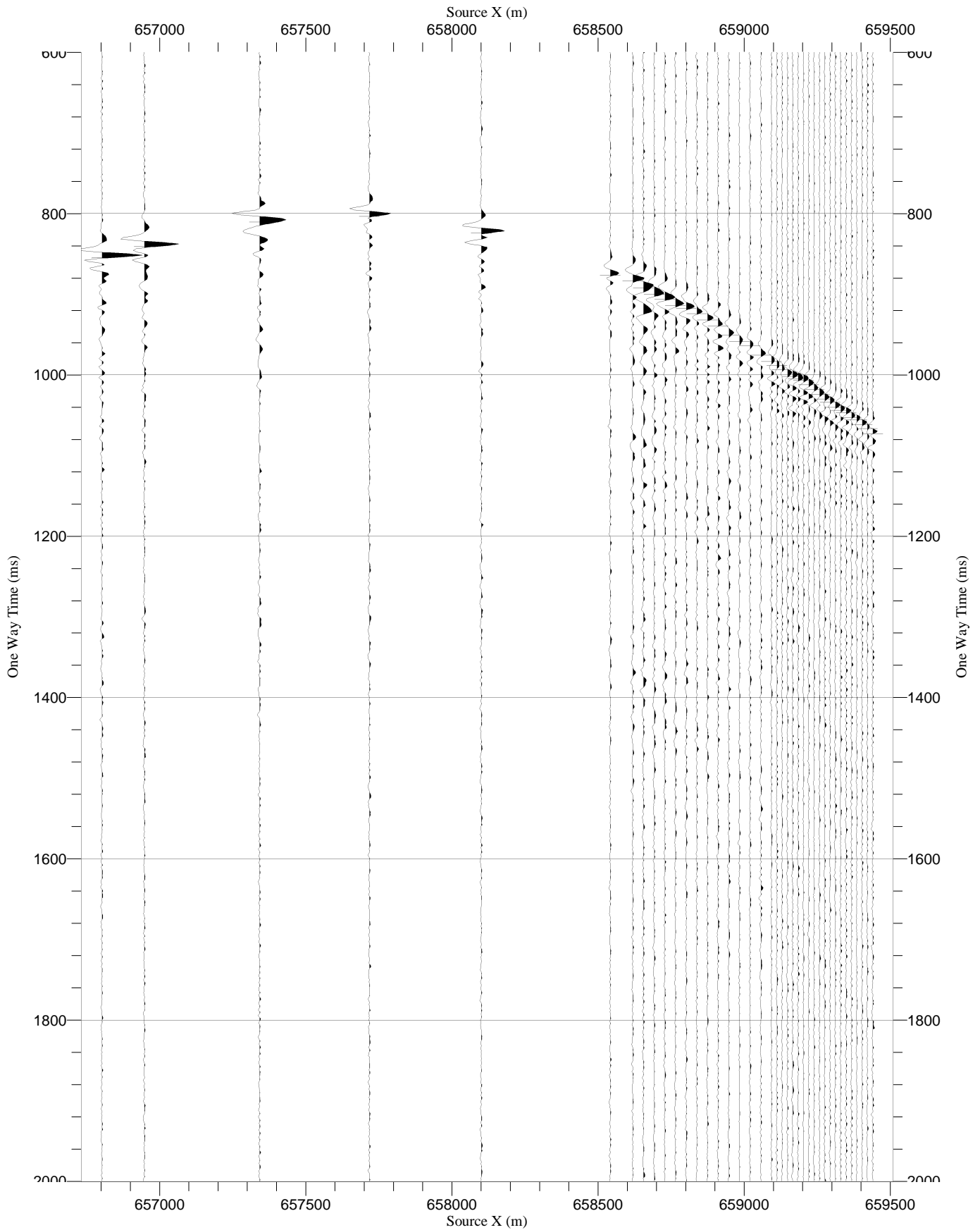
| | | |
|------------------|--|---|
| RawStack Z VSI-7 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 14.5 cm/sec, 1/18220 |  |
|------------------|--|---|




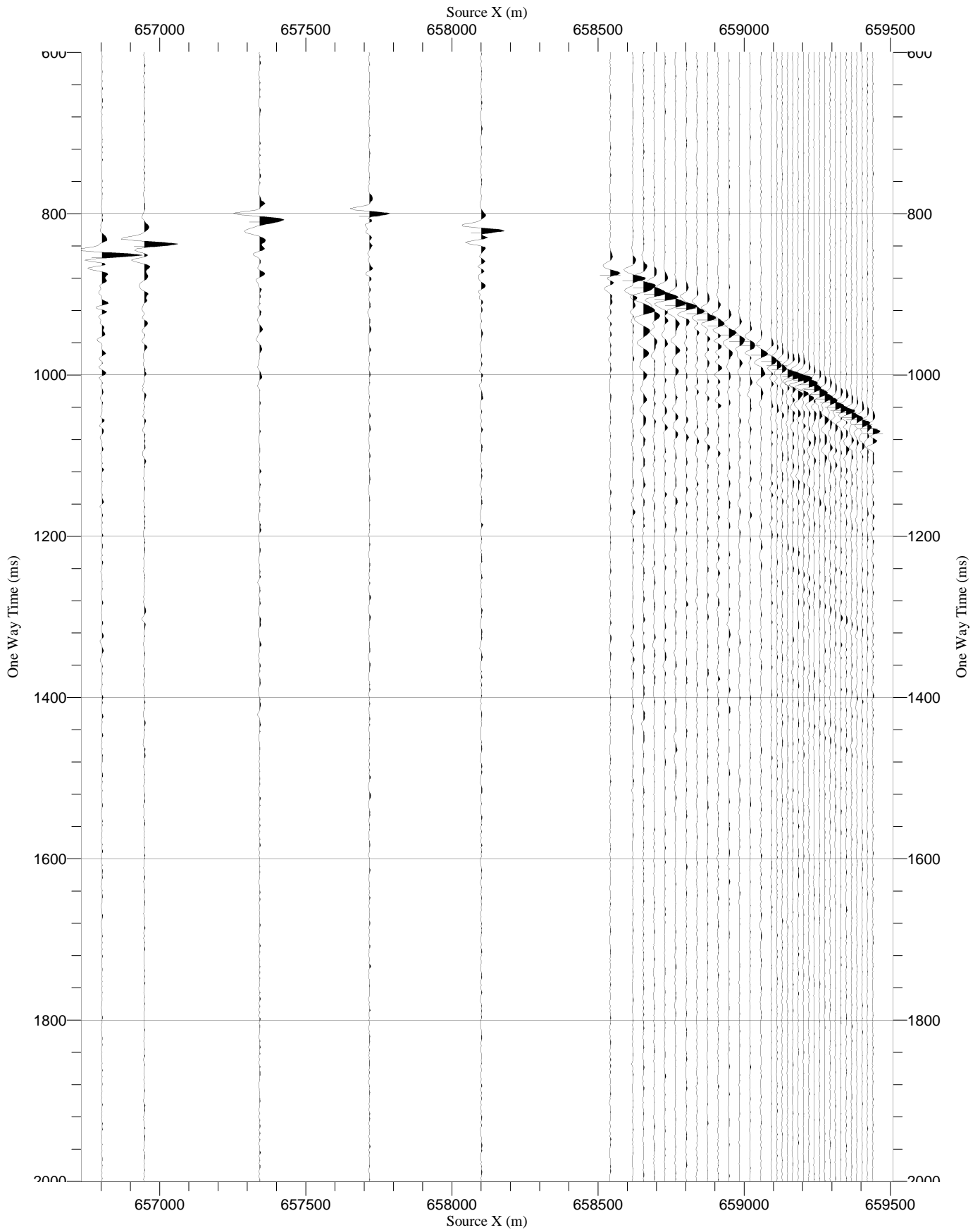
| | | |
|------------------|--|---|
| RawStack Y VSI-7 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




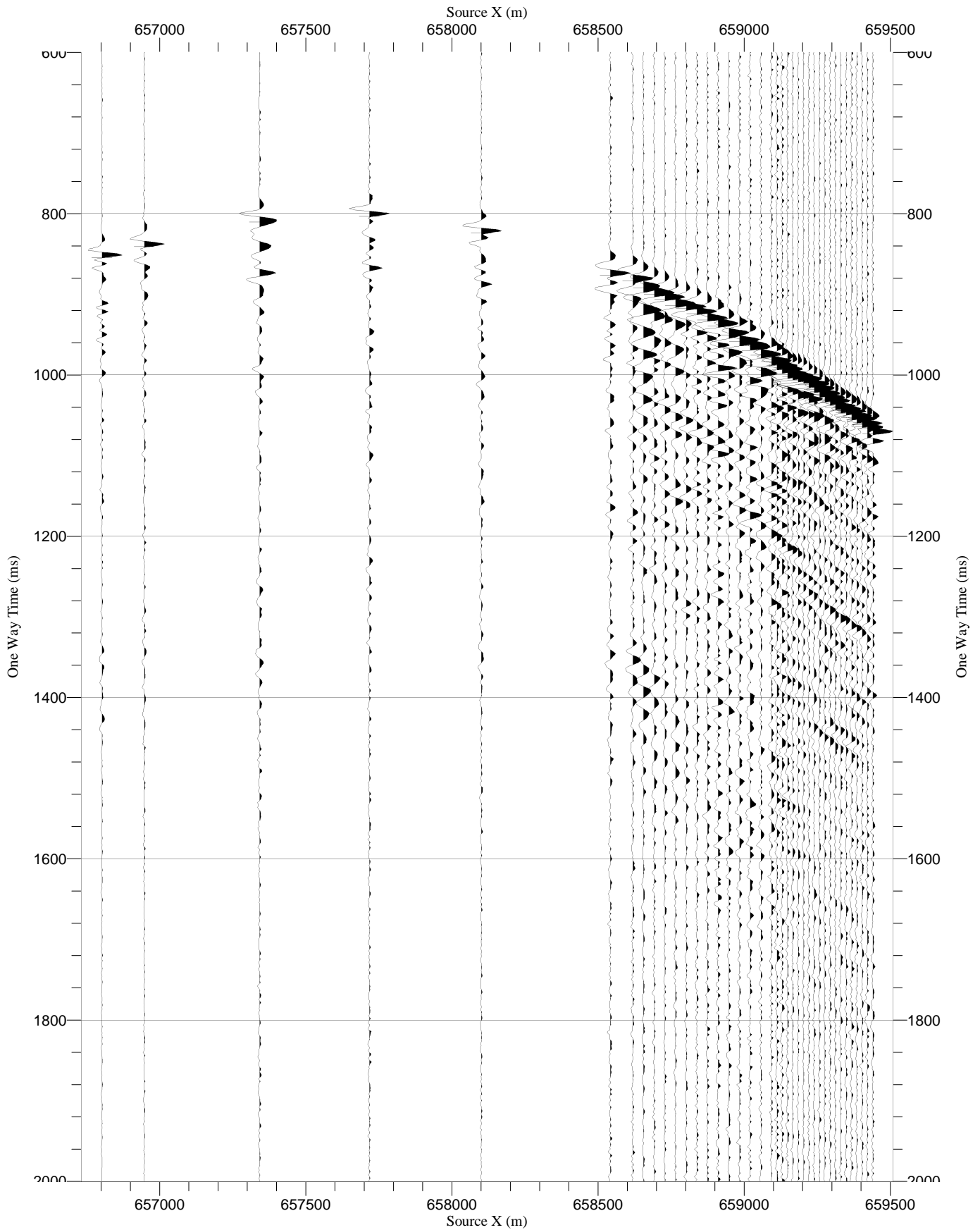
| | | |
|------------------|--|---|
| RawStack X VSI-7 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|



| | | |
|--------------------|--|---|
| RawStack TRY VSI-7 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




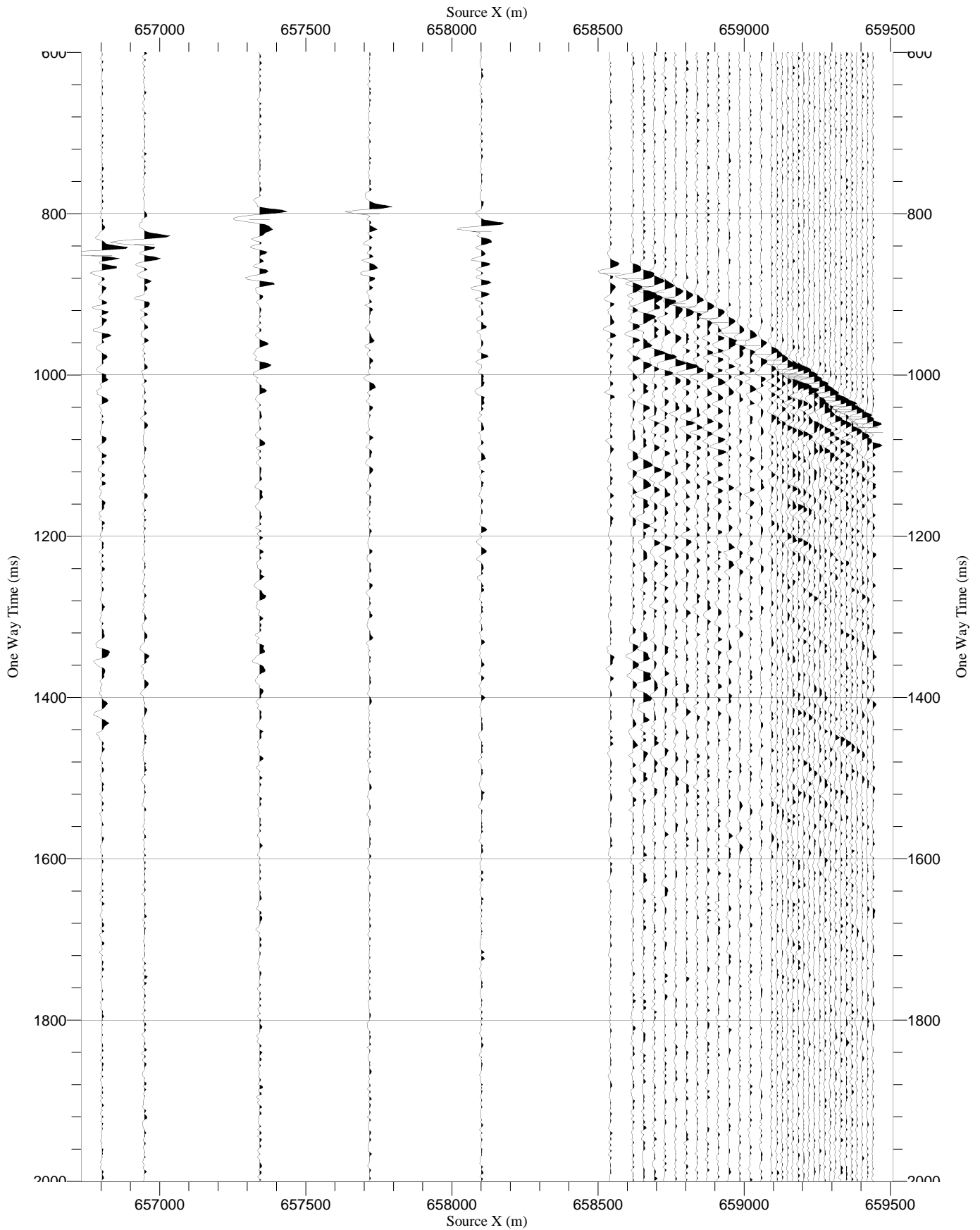
| | | |
|--------------------|---|---|
| RawStack HMX VSI-7 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|---|---|




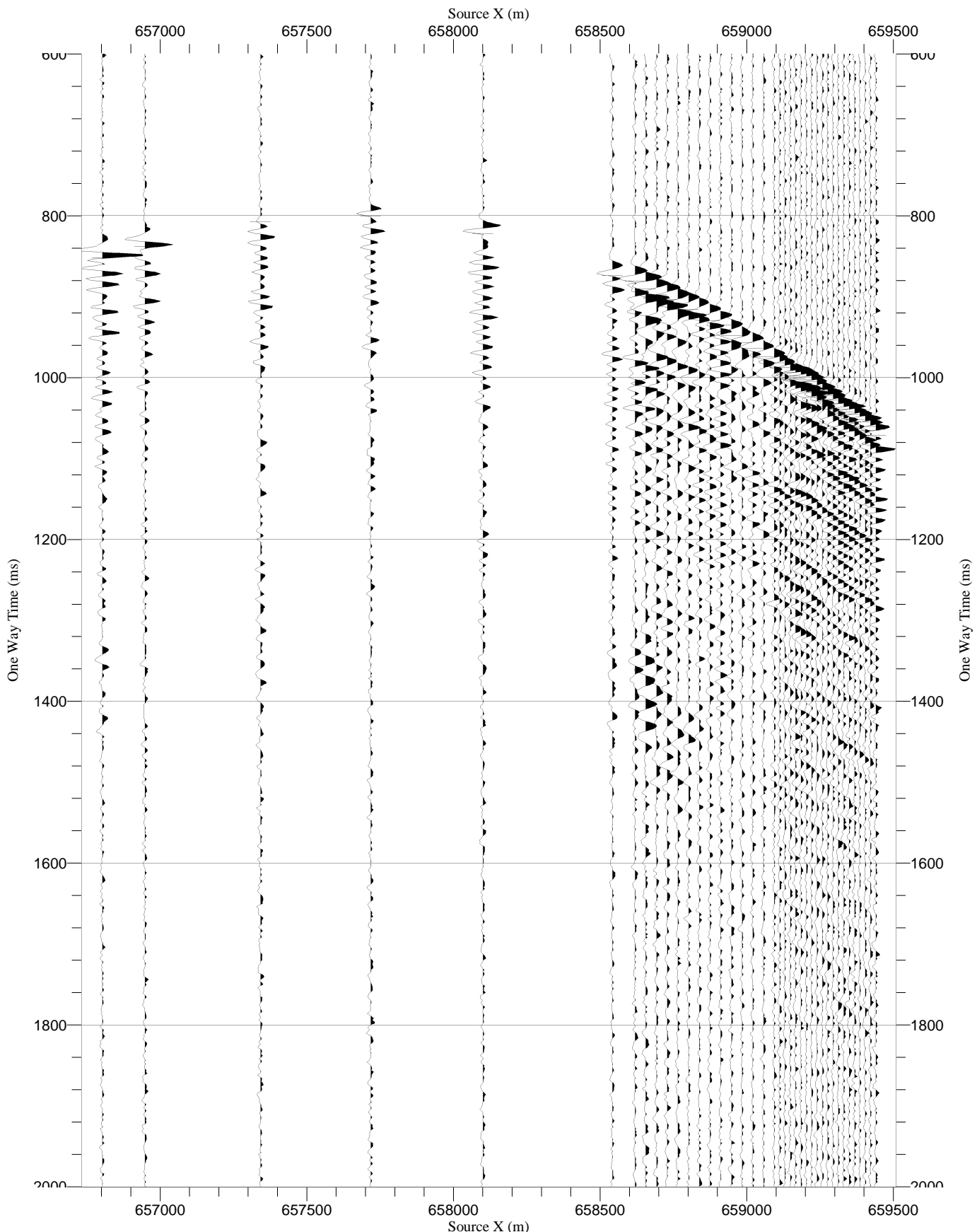
VSI-6


(1980 m receiver gather WVSP Line-B)

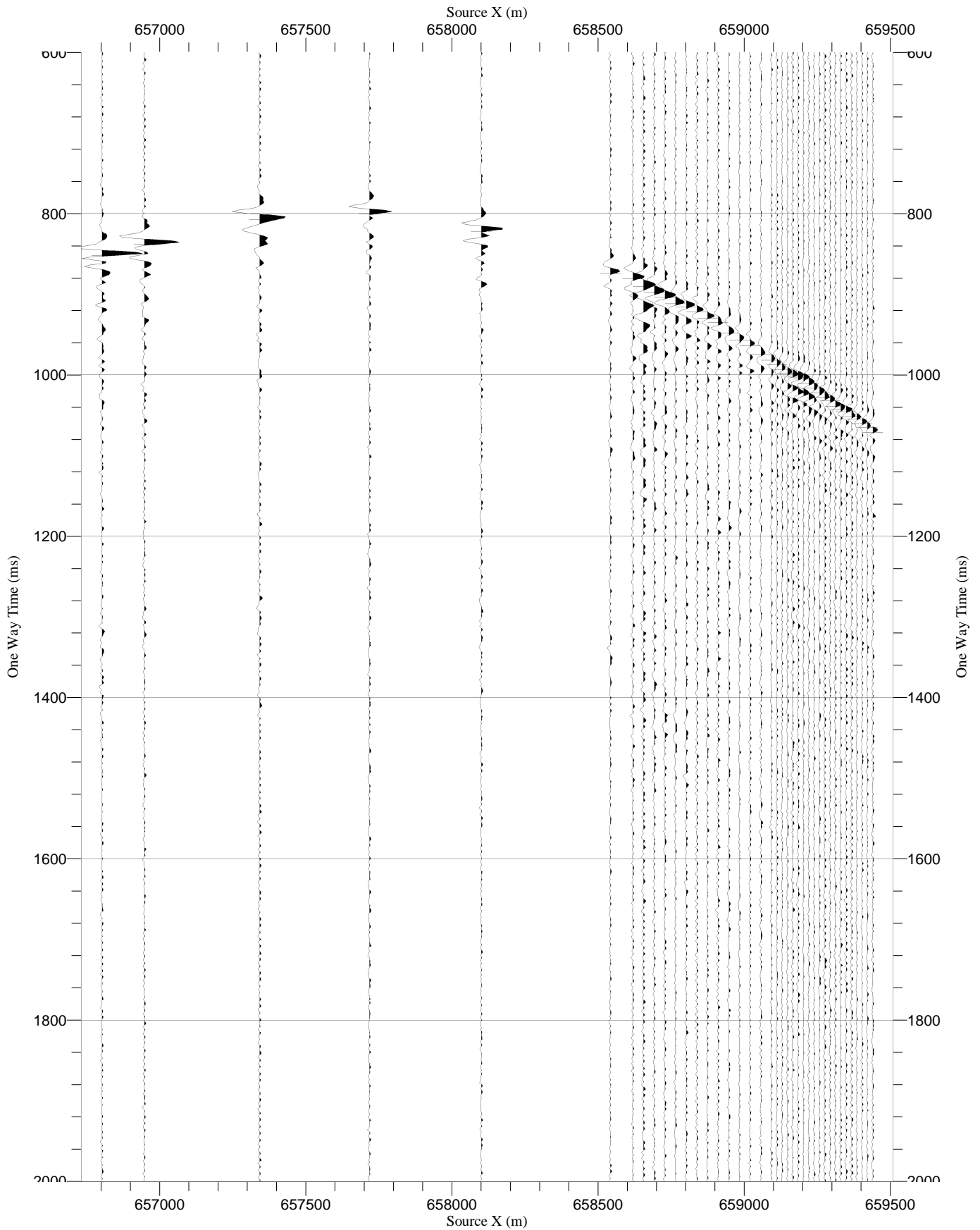
| | | |
|------------------|--|---|
| RawStack Z VSI-6 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




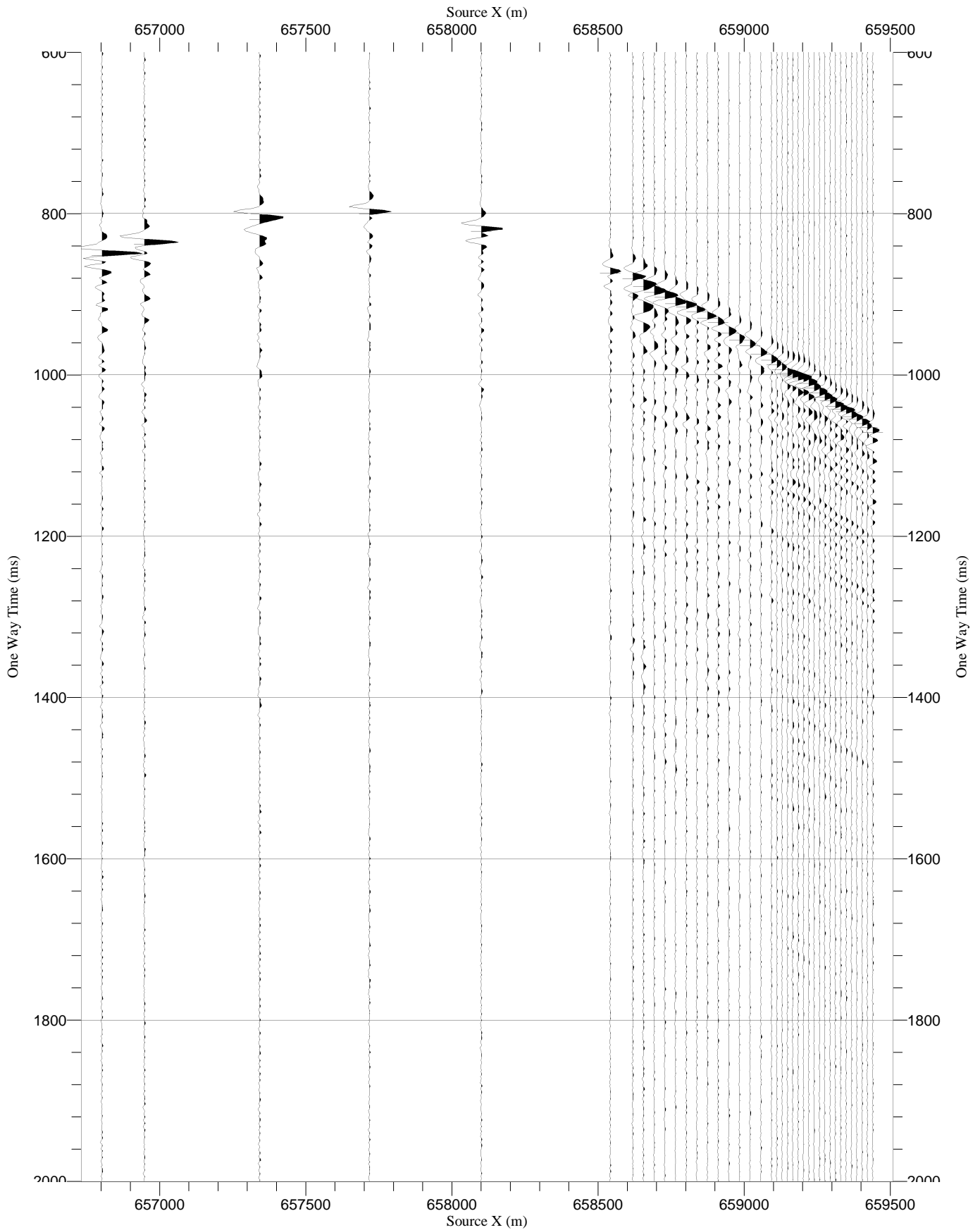
| | | |
|------------------|--|---|
| RawStack Y VSI-6 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




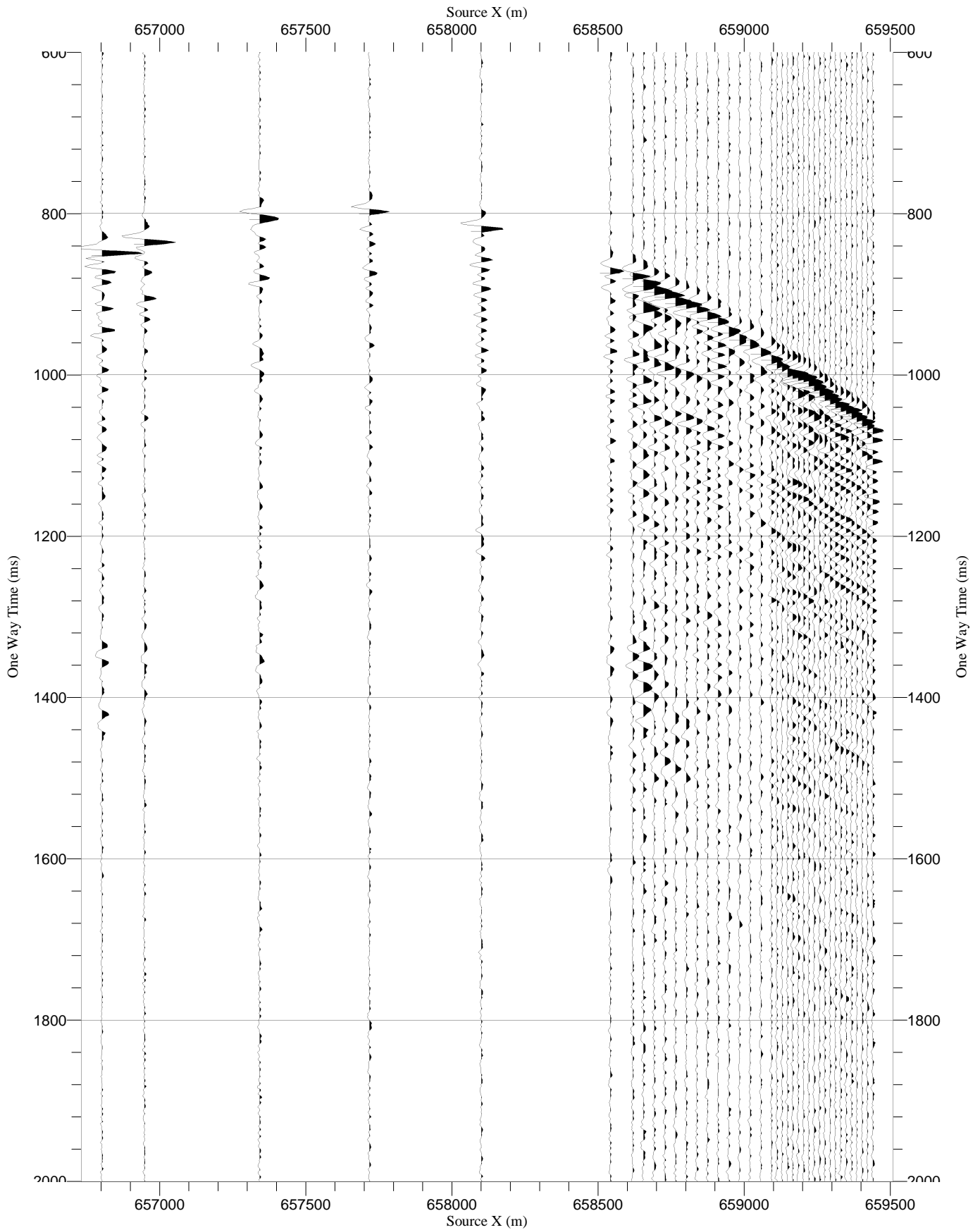
| | | |
|------------------|--|---|
| RawStack X VSI-6 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|



| | | |
|--------------------|--|---|
| RawStack TRY VSI-6 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|

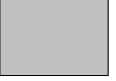


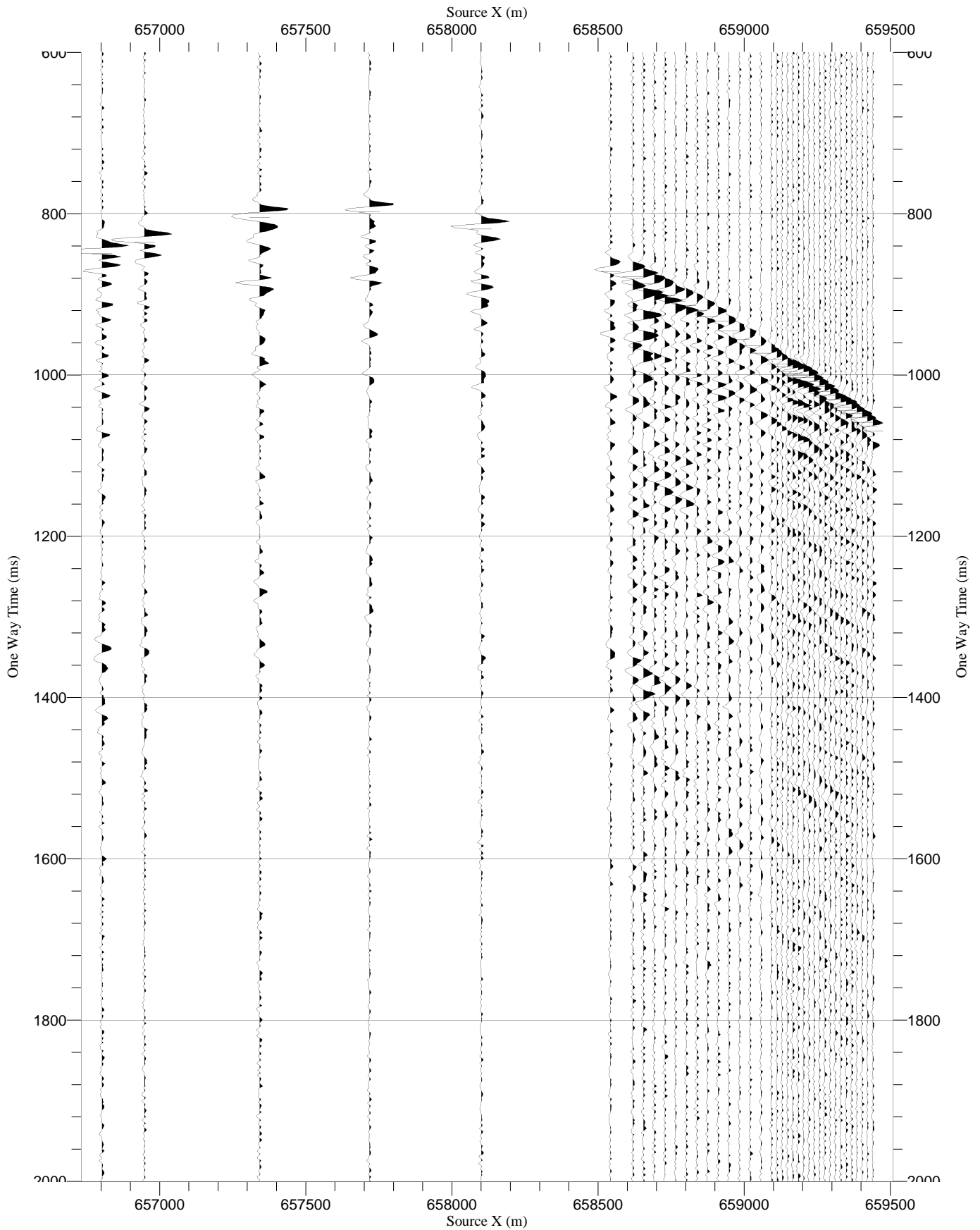
| | | |
|--------------------|--|---|
| RawStack HMX VSI-6 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




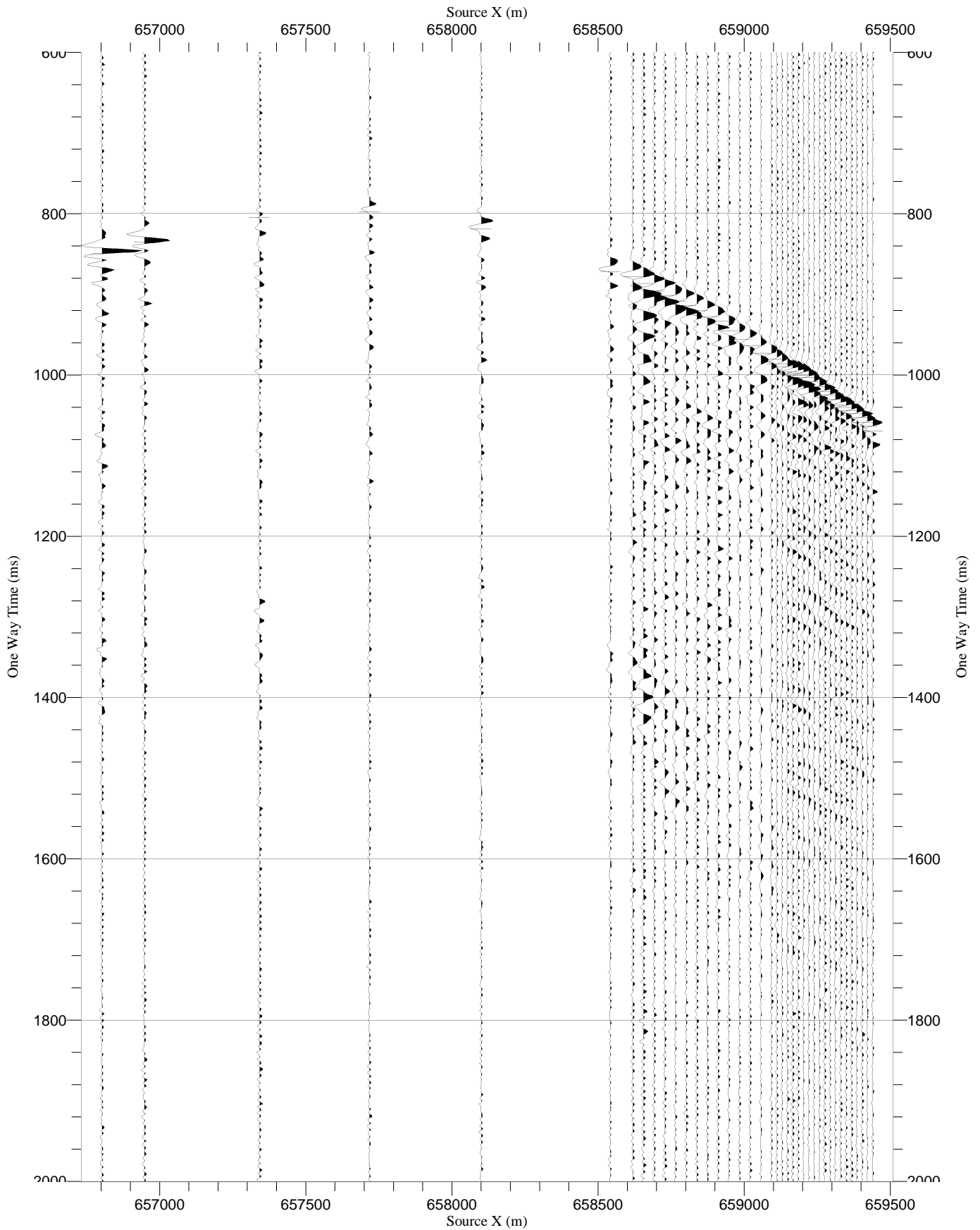
VSI-5


(1970 m receiver gather WVSP Line-B)

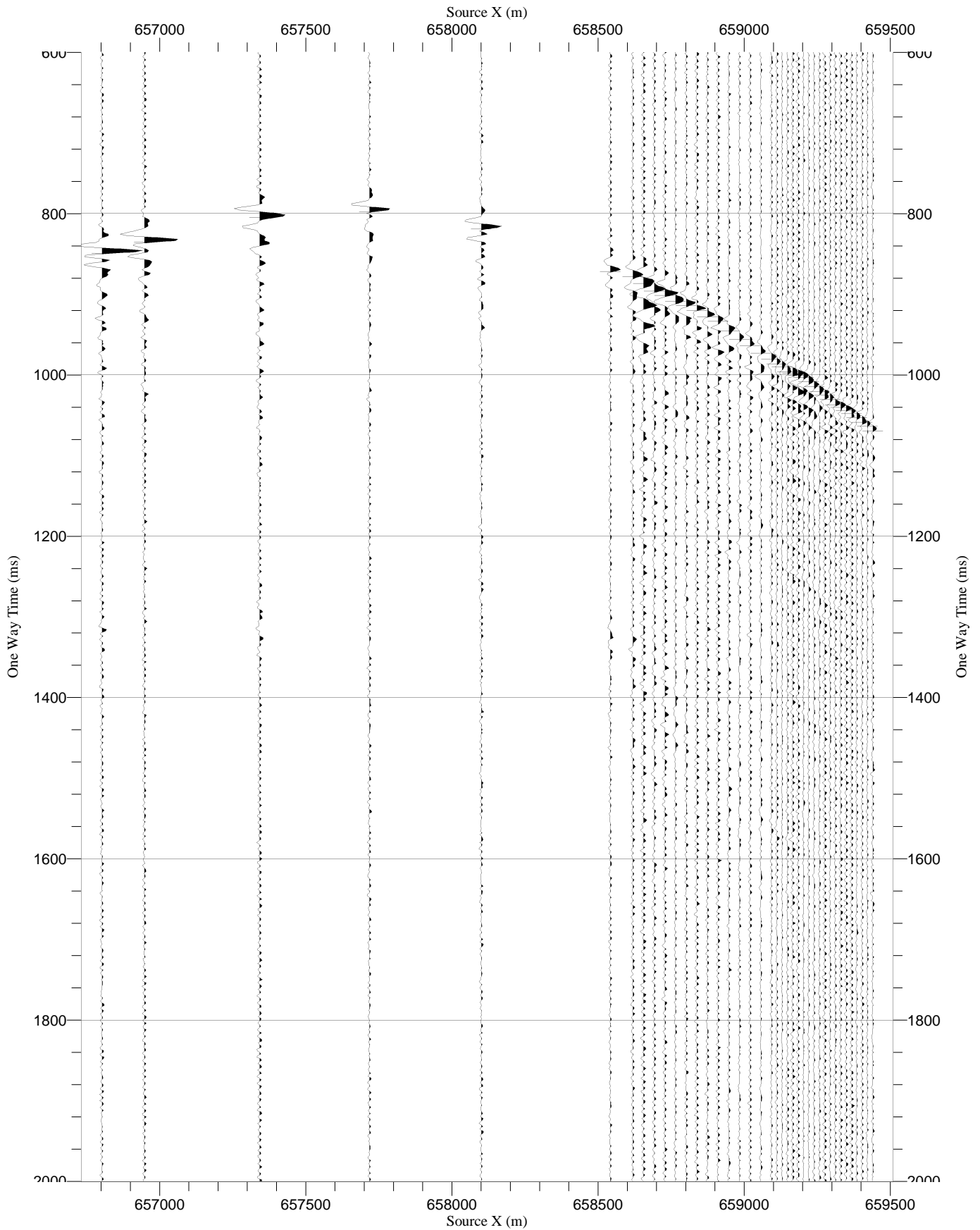
| | | |
|------------------|--|---|
| RawStack Z VSI-5 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




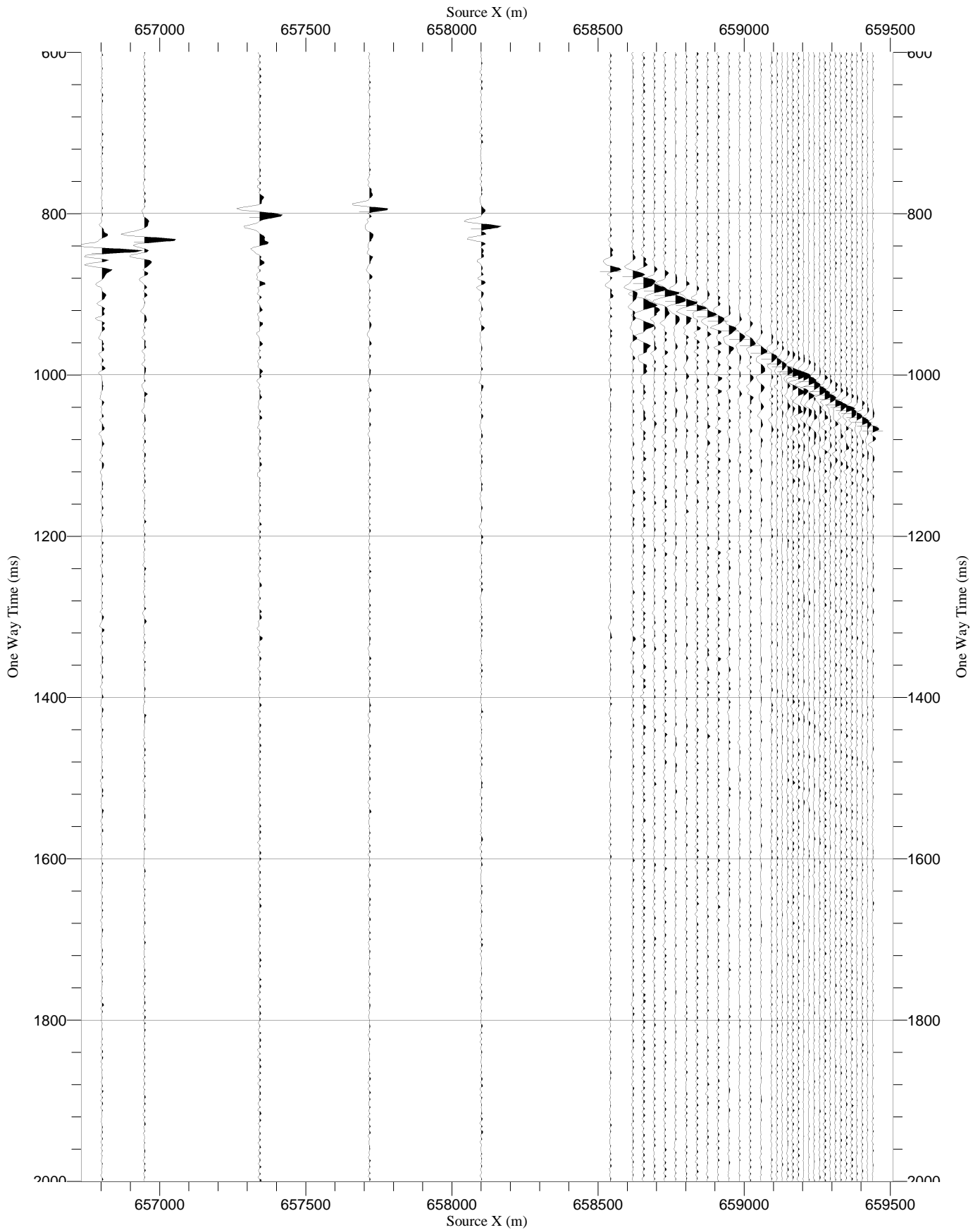
| | | |
|------------------|--|---|
| RawStack Y VSI-5 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




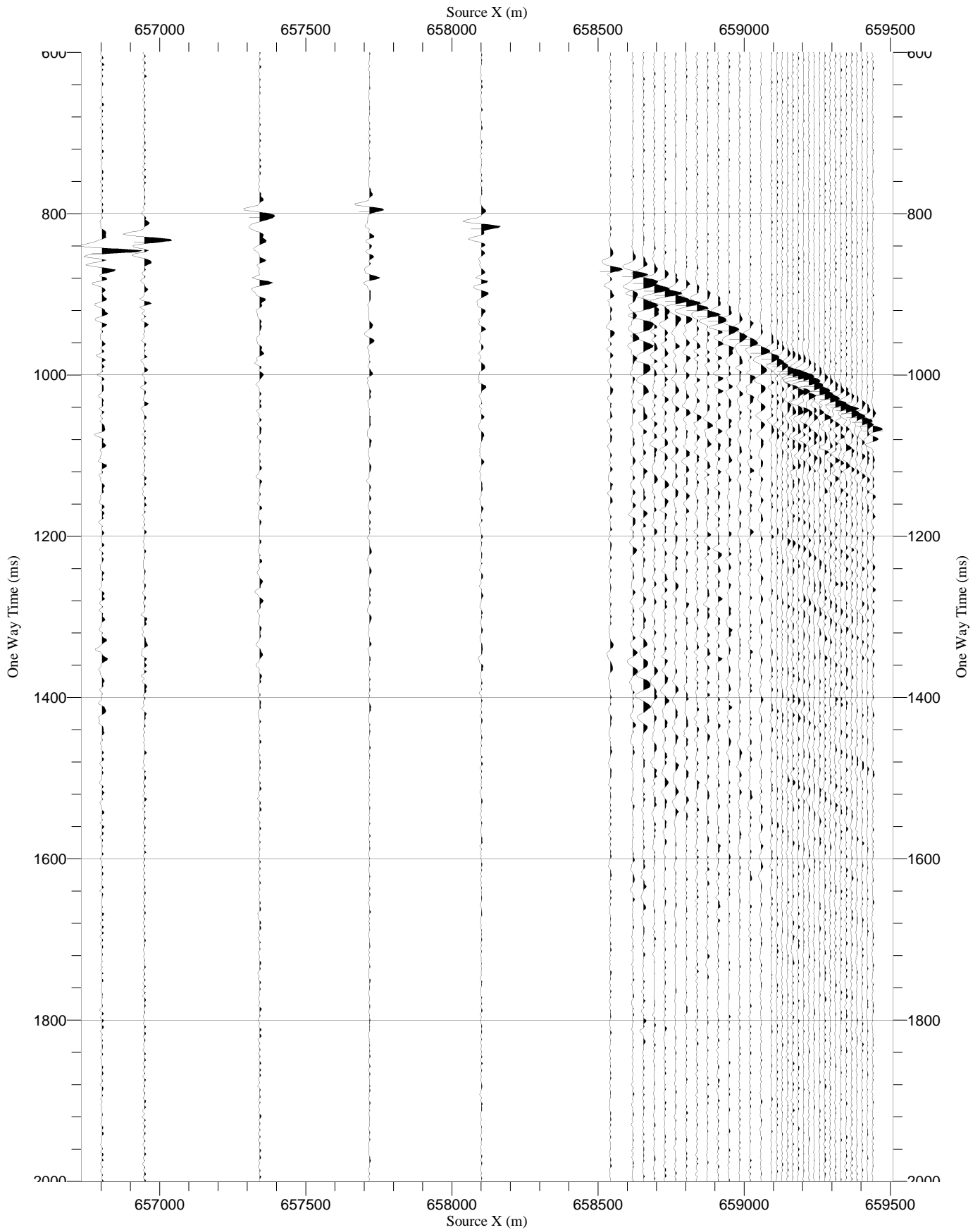
| | | |
|------------------|--|---|
| RawStack X VSI-5 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|



| | | |
|--------------------|--|---|
| RawStack TRY VSI-5 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




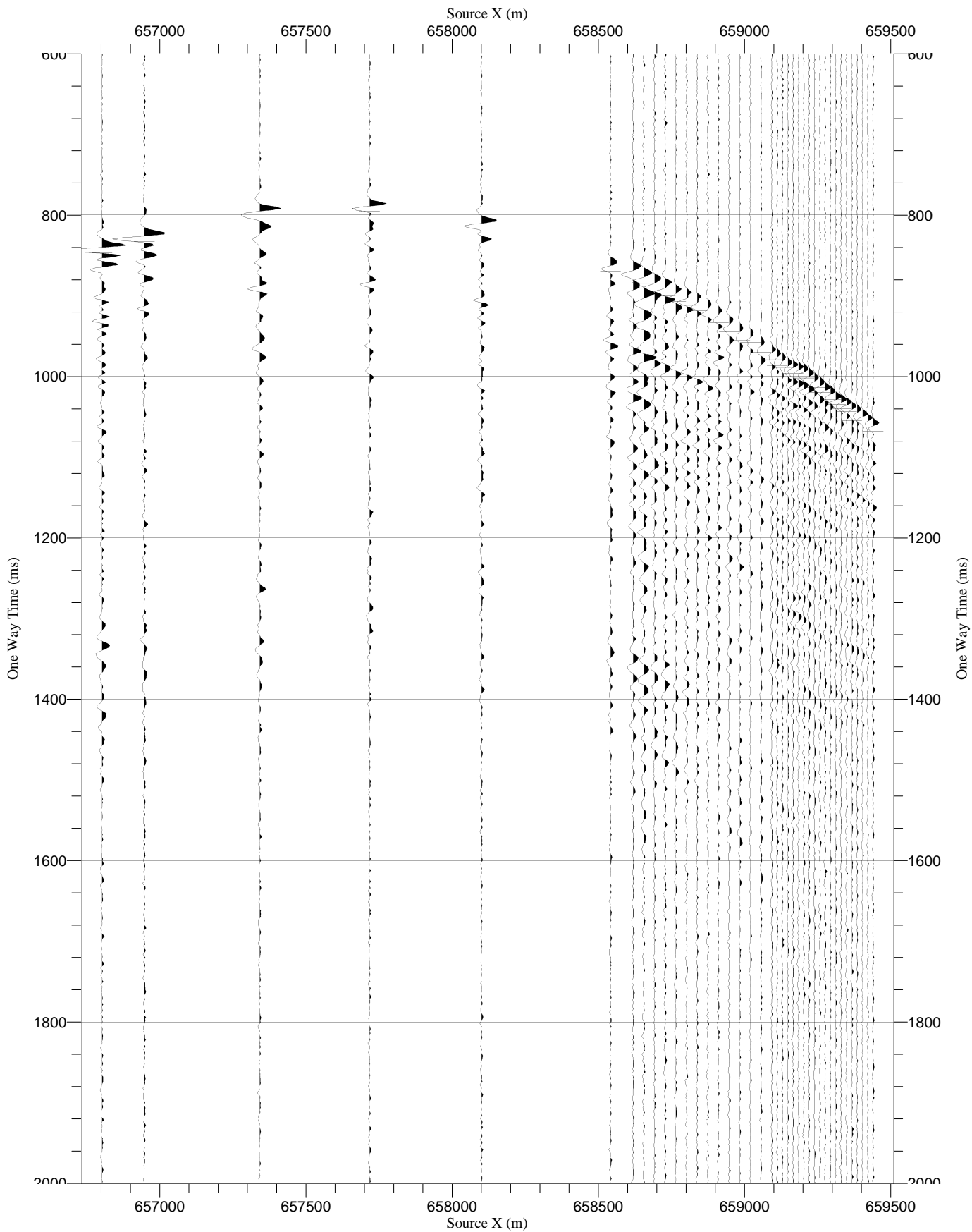
| | | |
|--------------------|--|---|
| RawStack HMX VSI-5 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




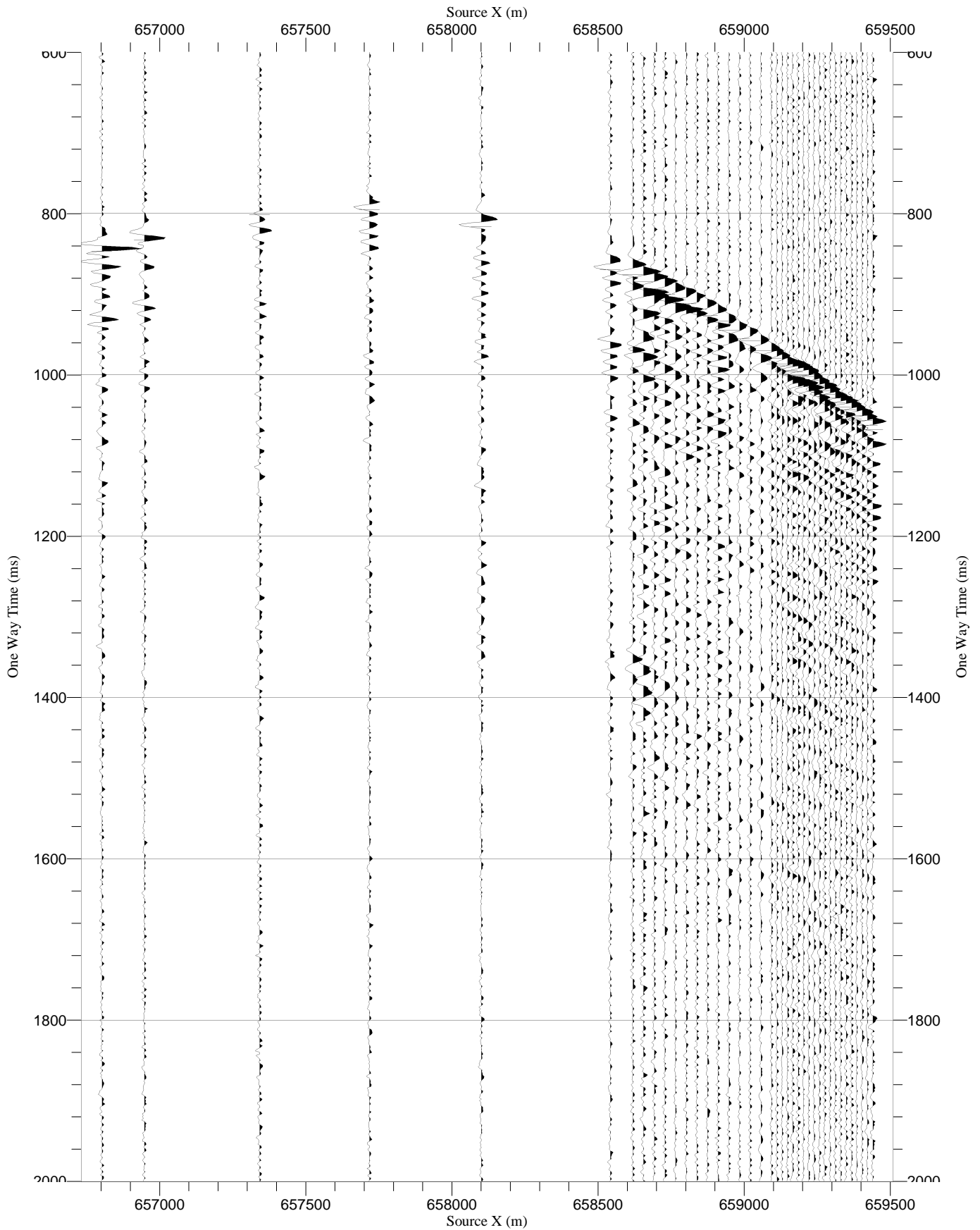
VSI-4


(1960 m receiver gather WVSP Line-B)

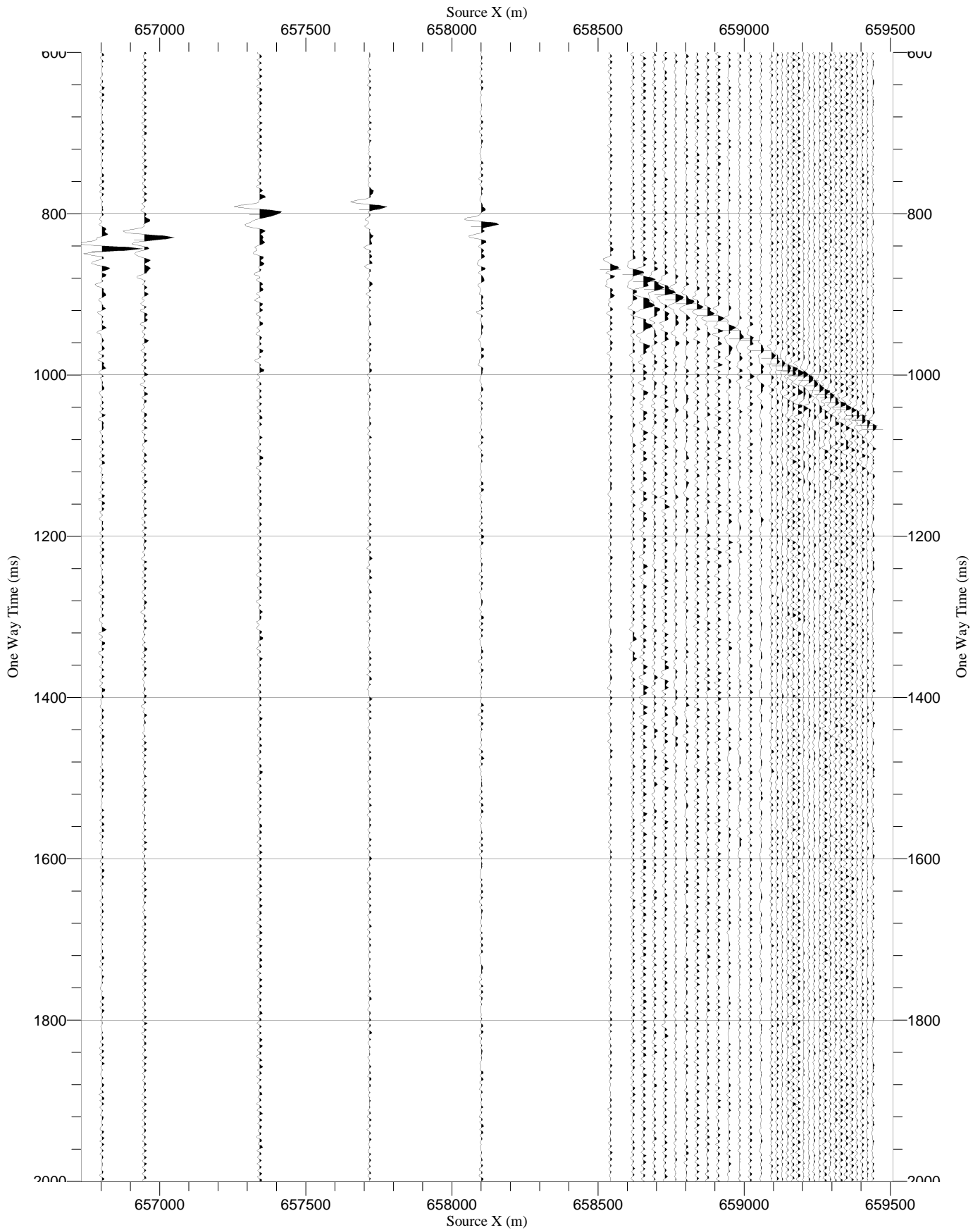
| | | |
|------------------|--|---|
| RawStack Z VSI-4 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




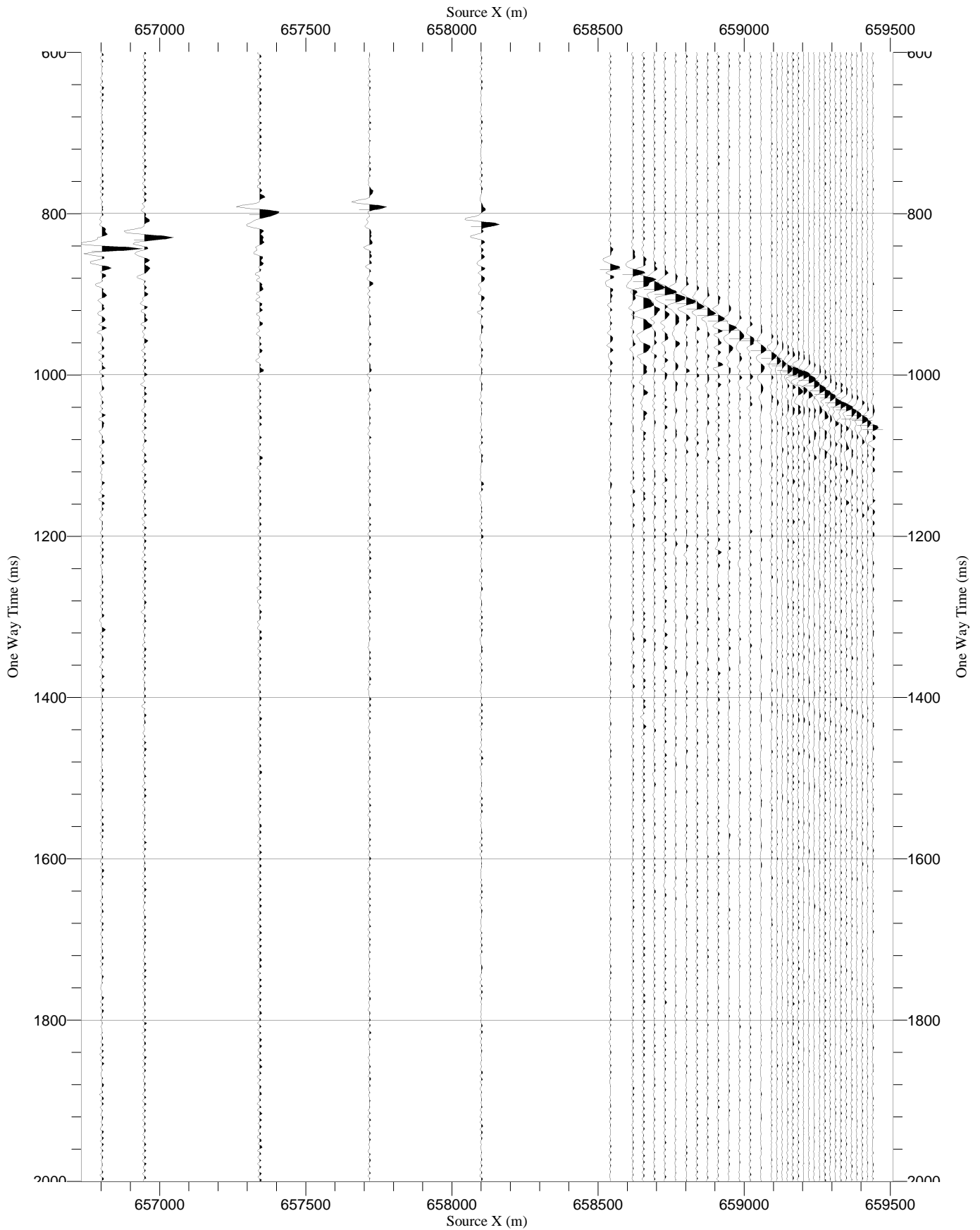
| | | |
|------------------|--|---|
| RawStack Y VSI-4 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




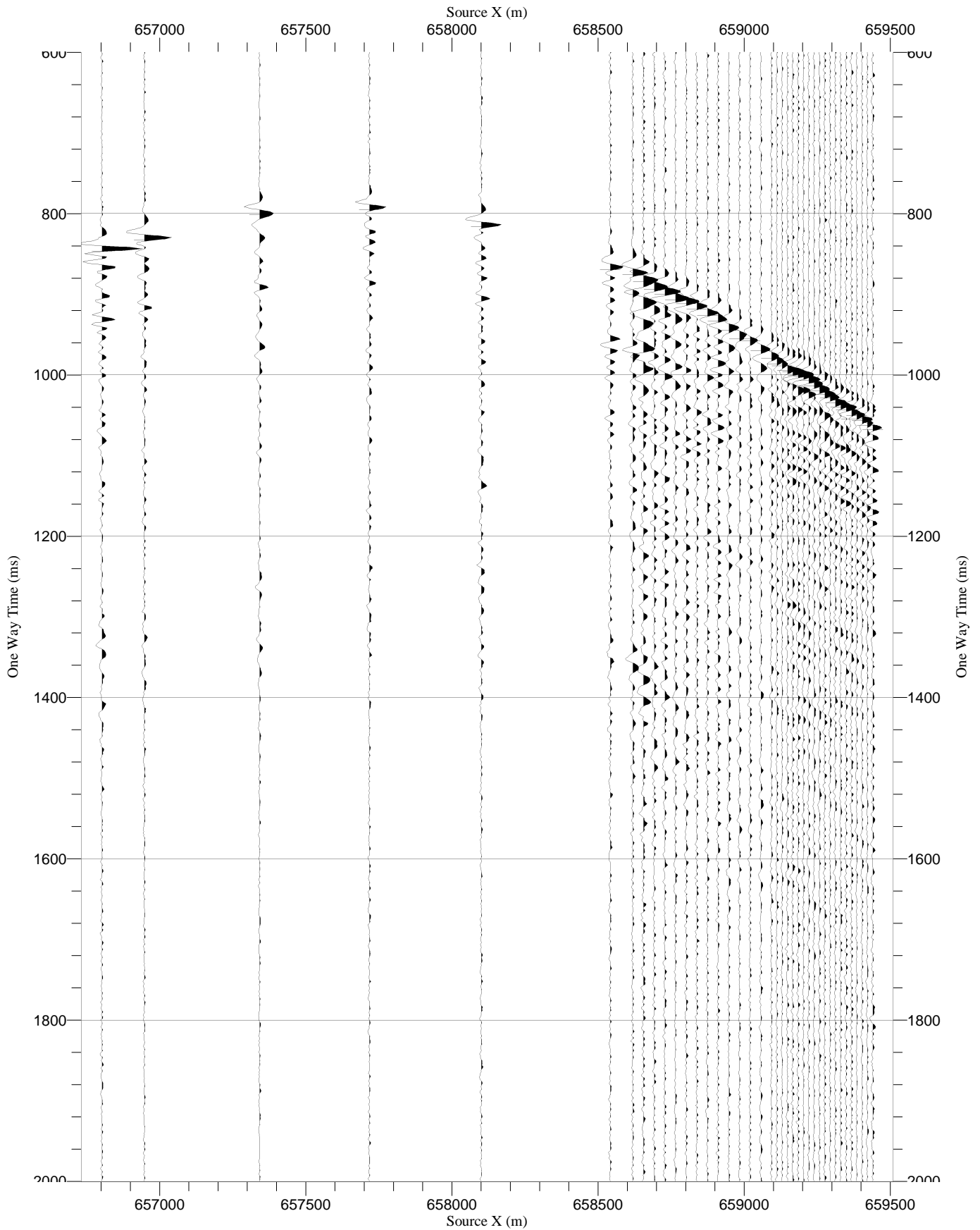
| | | |
|------------------|--|---|
| RawStack X VSI-4 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|



| | | |
|--------------------|--|---|
| RawStack TRY VSI-4 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




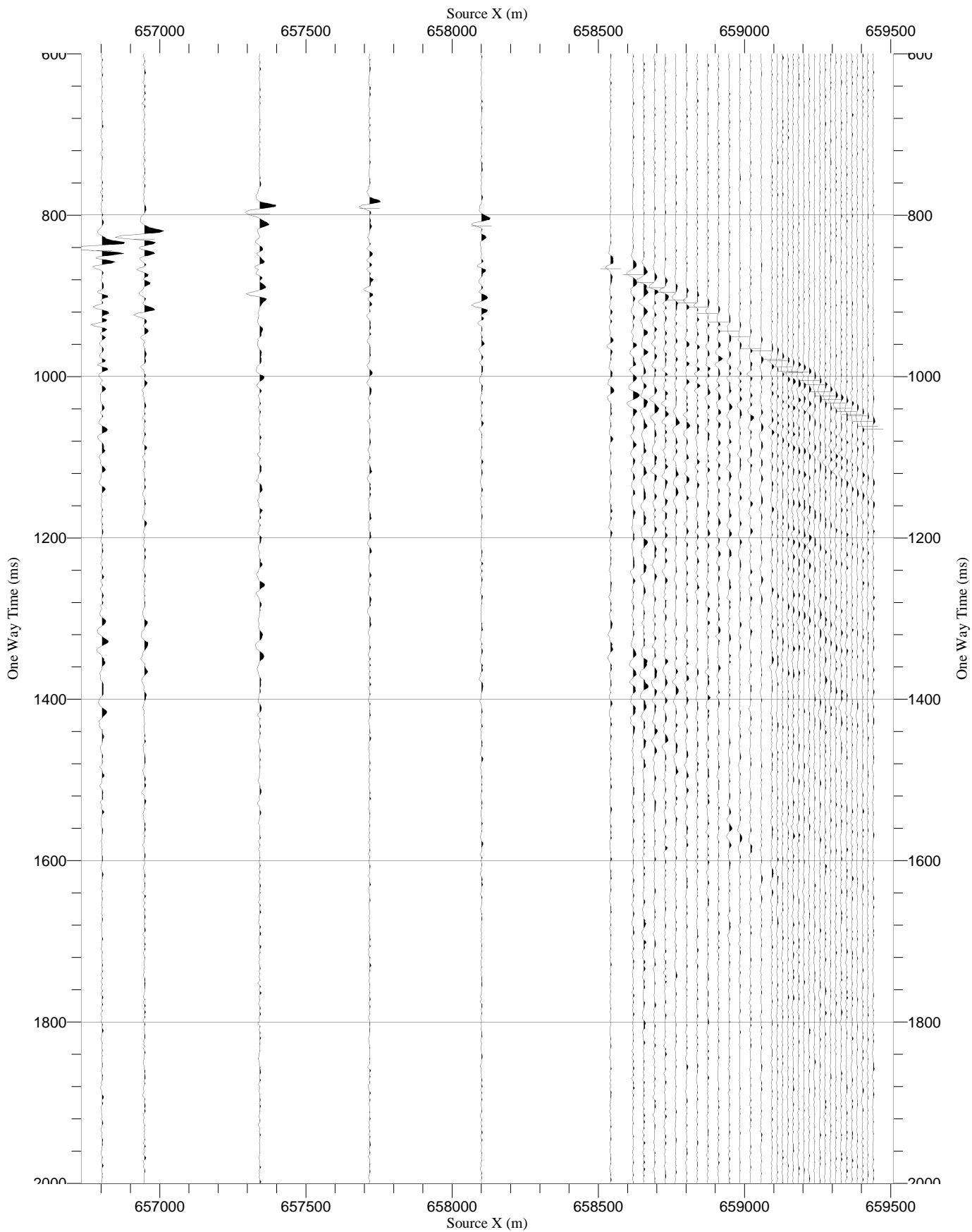
| | | |
|--------------------|--|---|
| RawStack HMX VSI-4 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




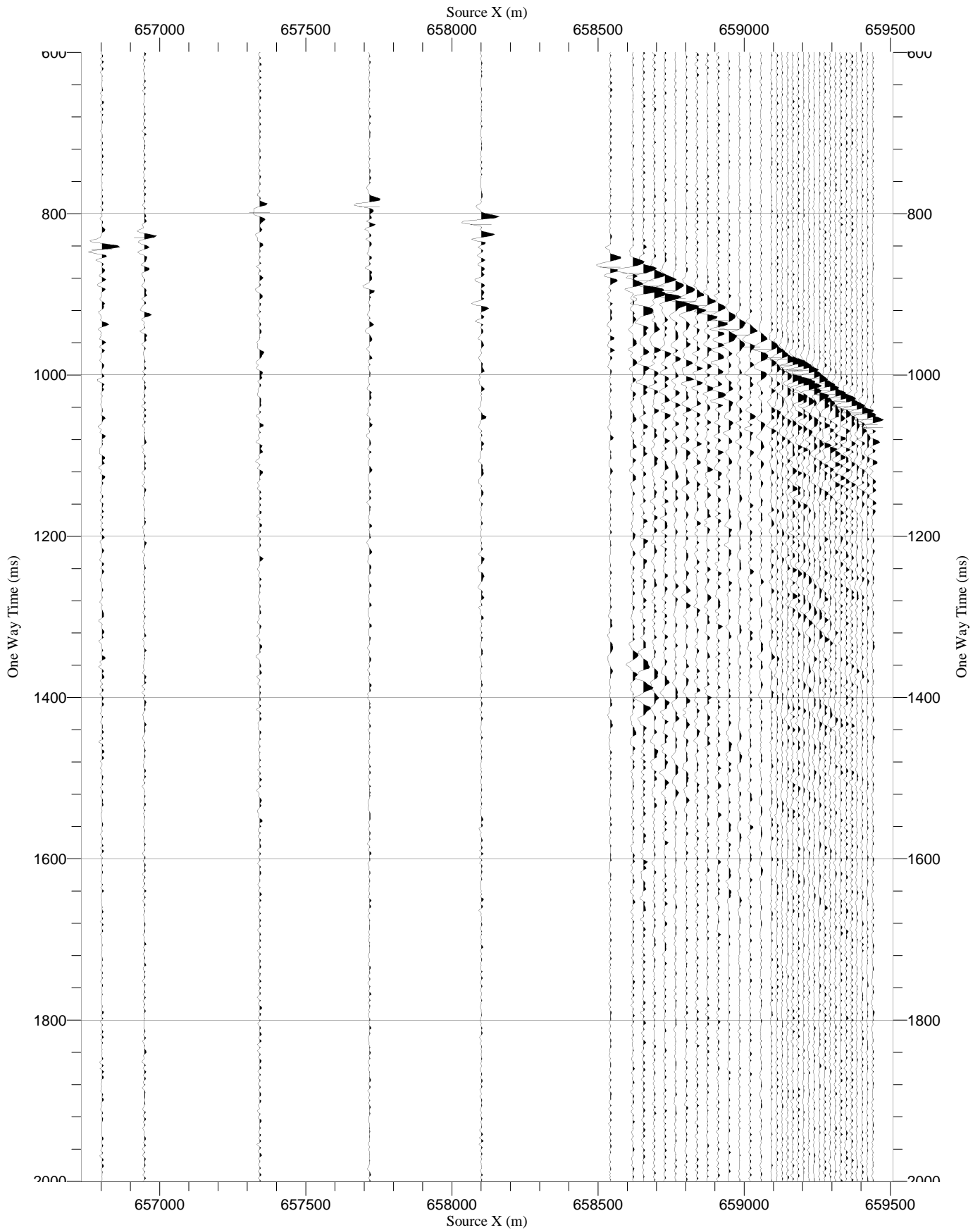
VSI-3


(1950 m receiver gather WVSP Line-B)

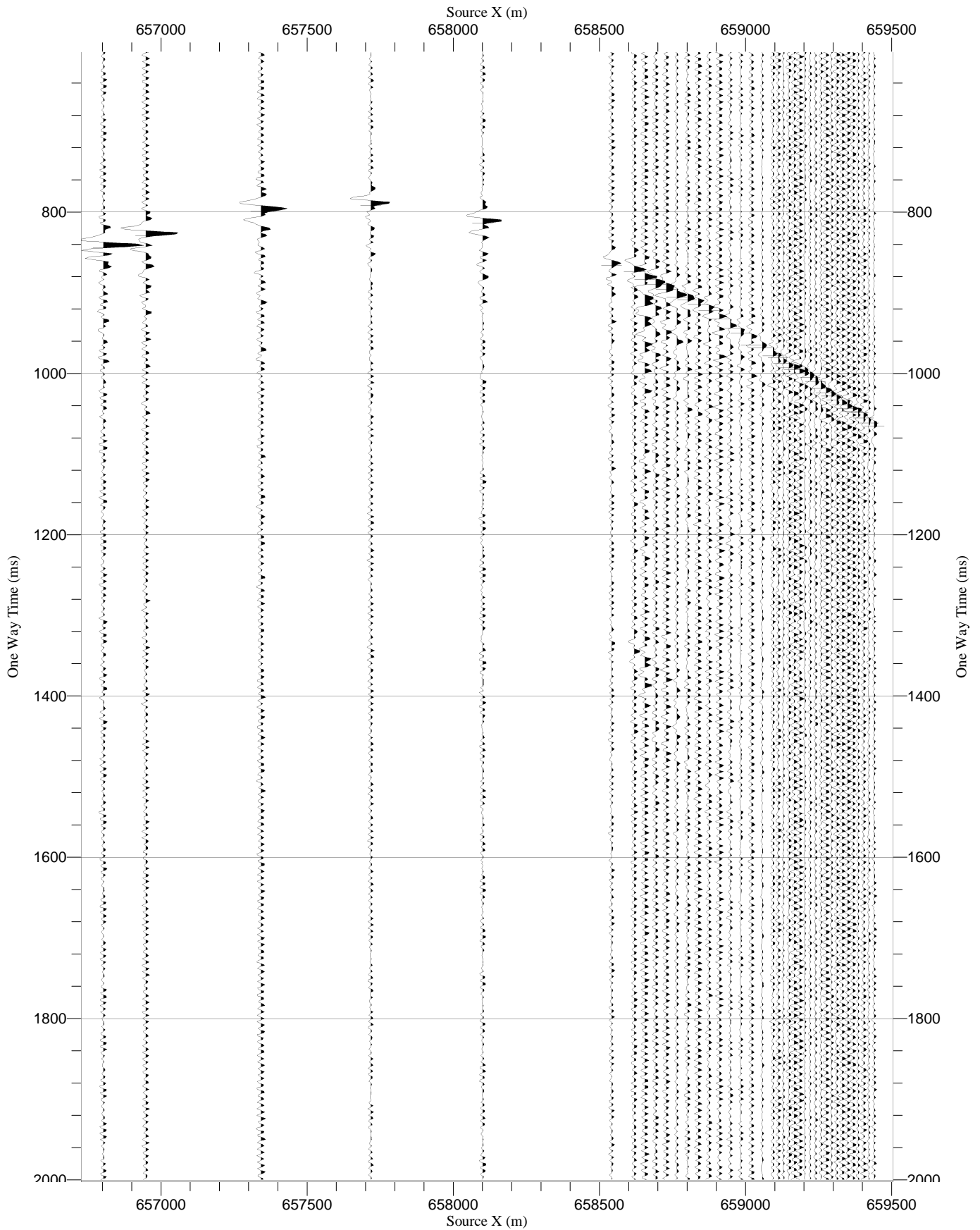
| | | |
|------------------|--|---|
| RawStack Z VSI-3 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




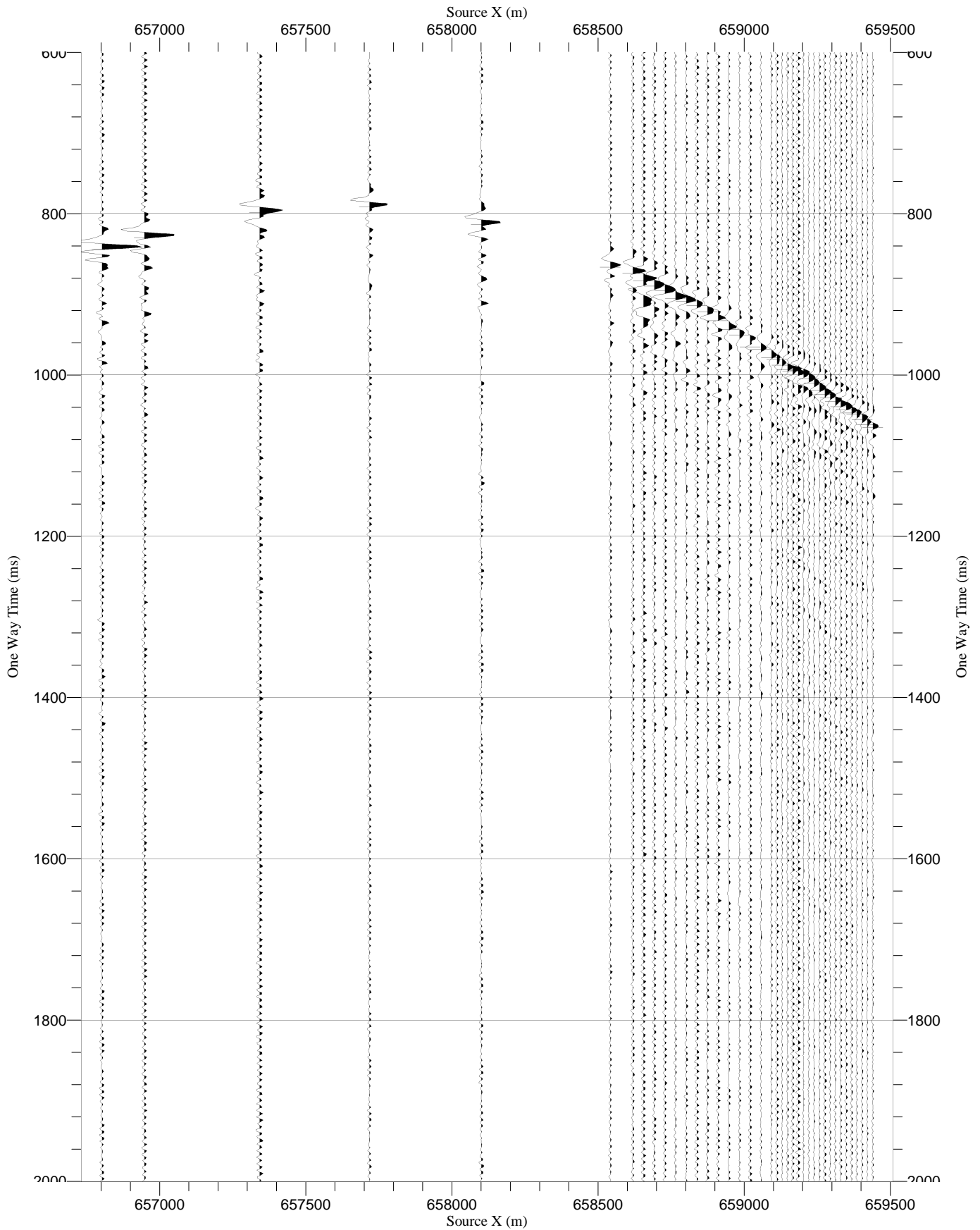
| | | |
|------------------|--|---|
| RawStack Y VSI-3 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




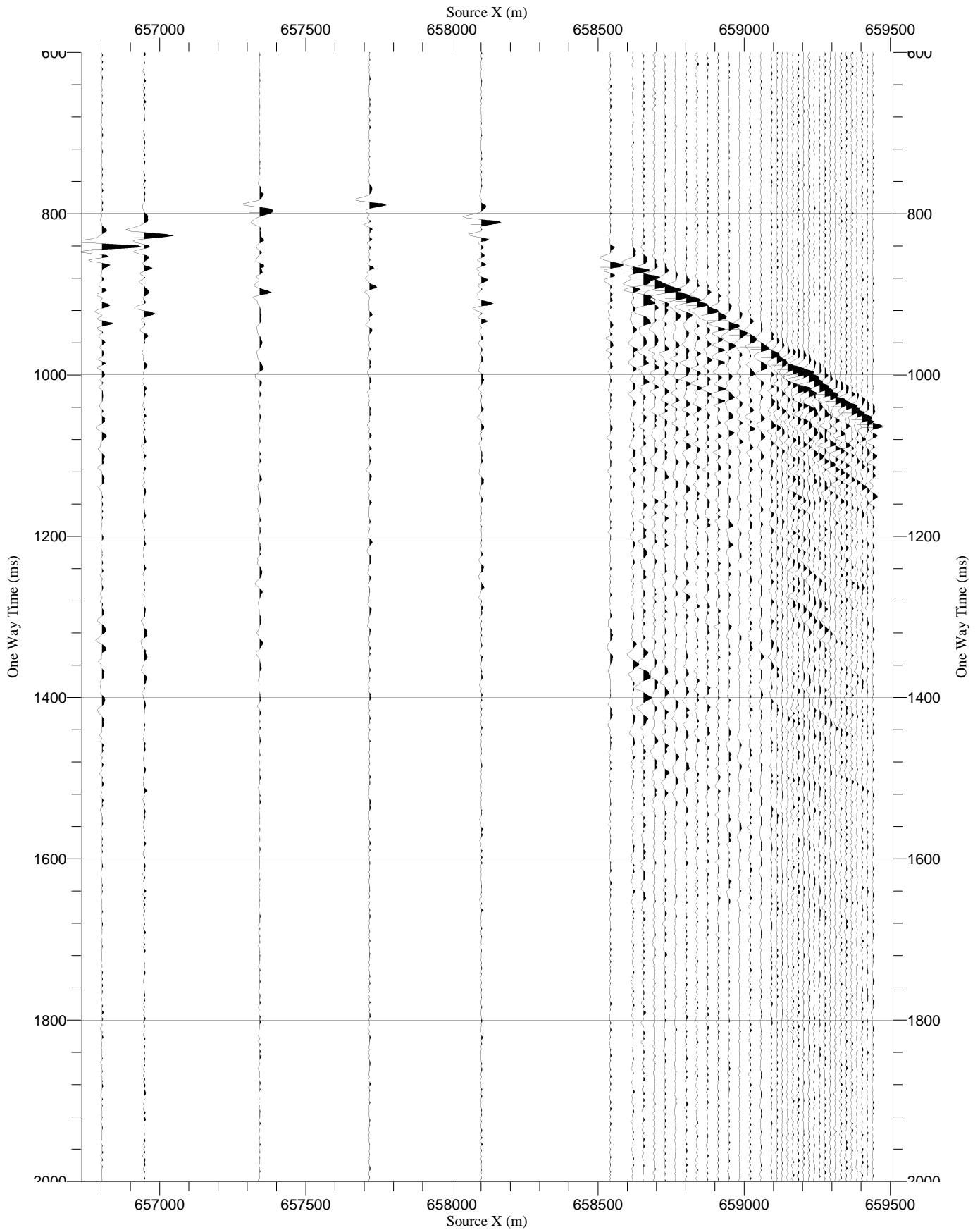
| | | |
|------------------|--|---|
| RawStack X VSI-3 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|



| | | |
|--------------------|--|---|
| RawStack TRY VSI-3 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




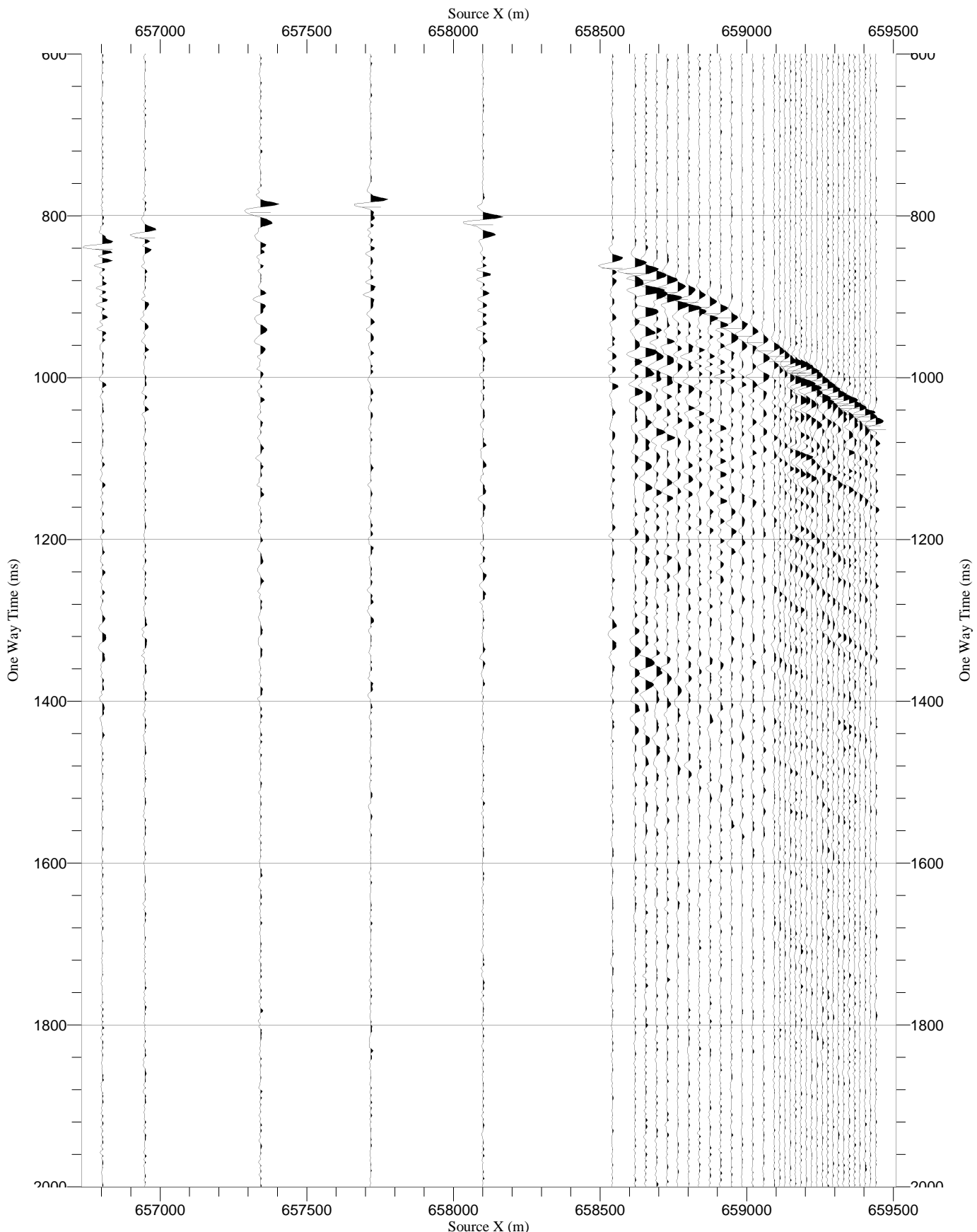
| | | |
|--------------------|--|---|
| RawStack HMX VSI-3 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




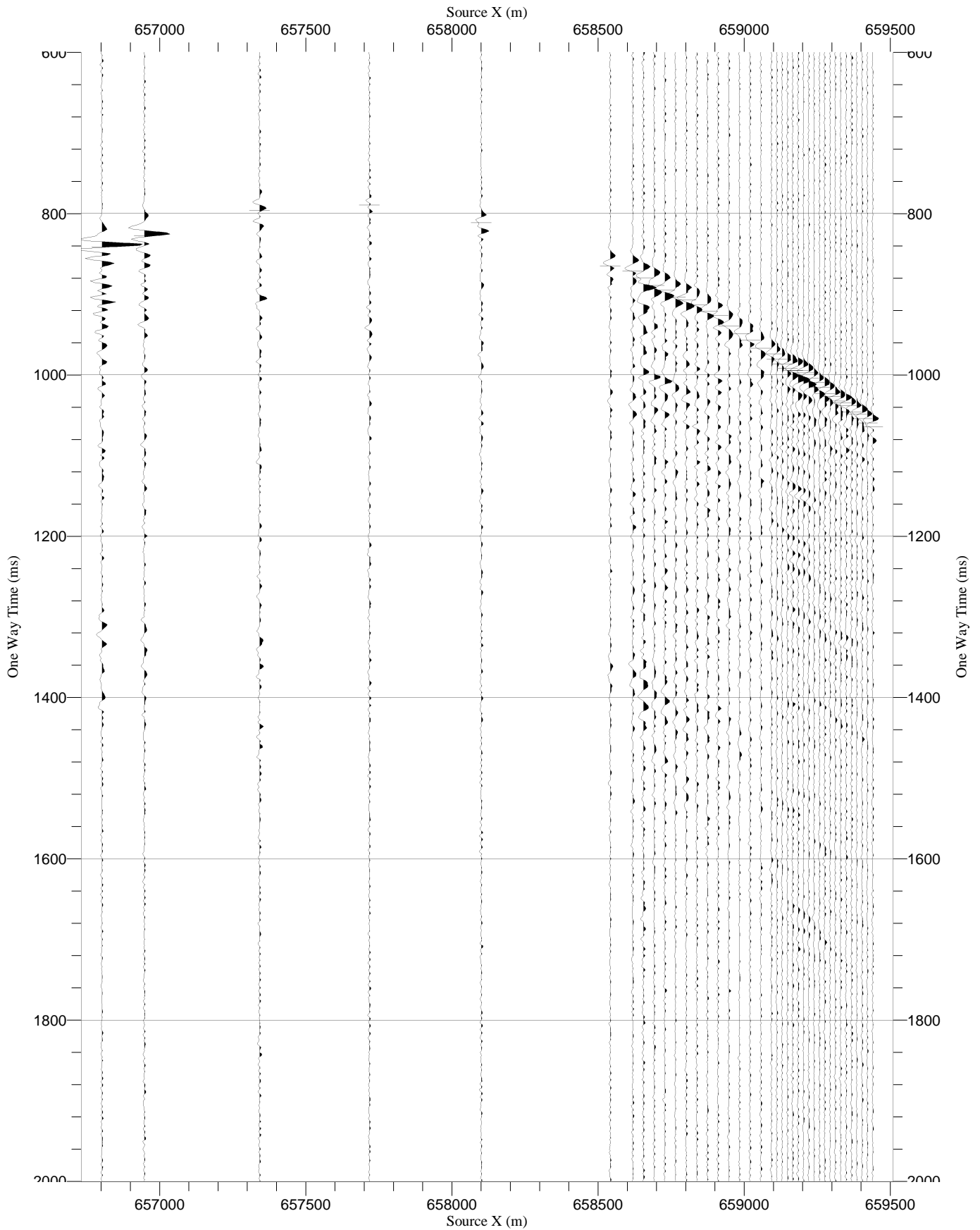
VSI-2

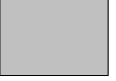
(1940 m receiver gather WVSP Line-B)

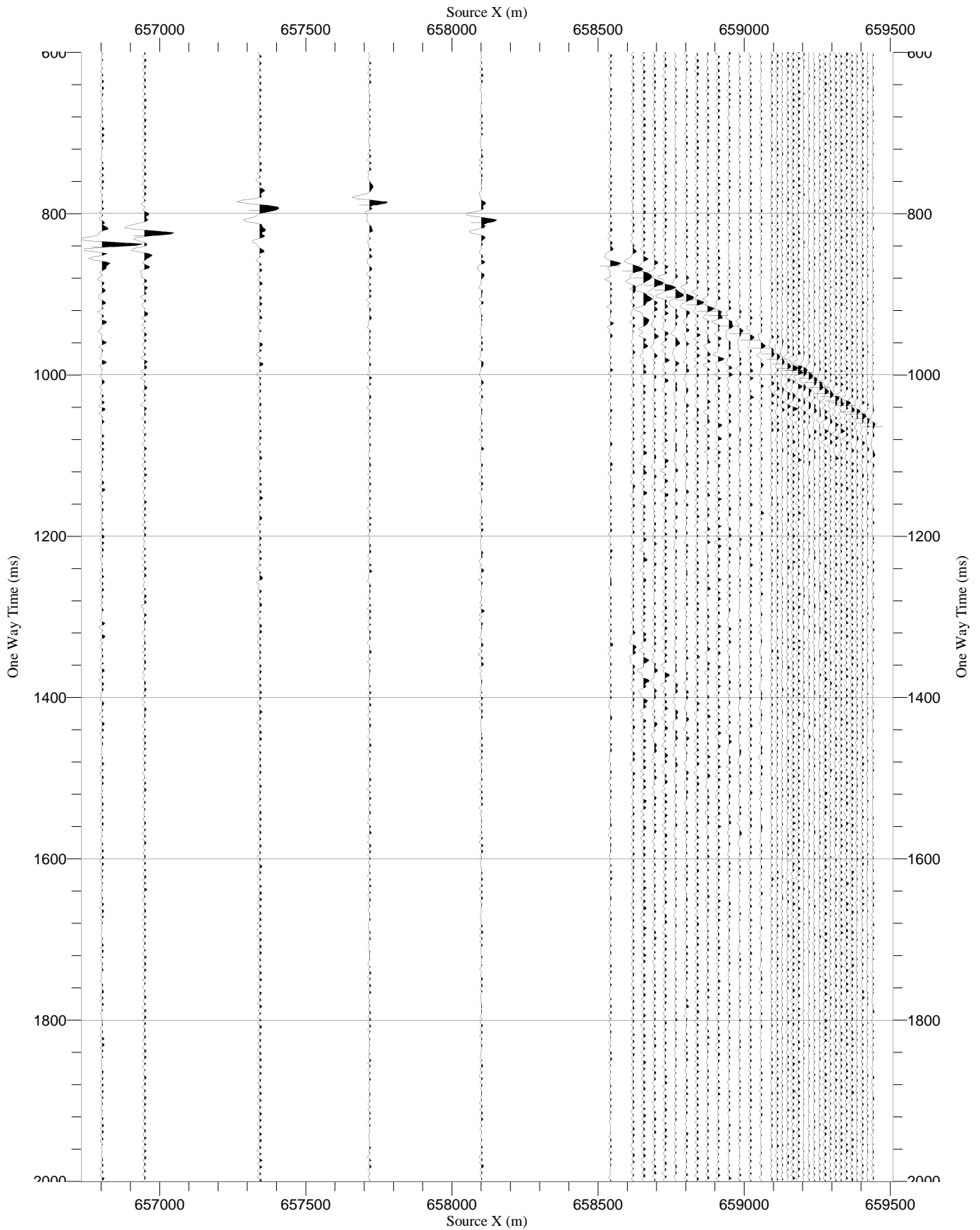
| | | |
|------------------|--|---|
| RawStack Z VSI-2 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




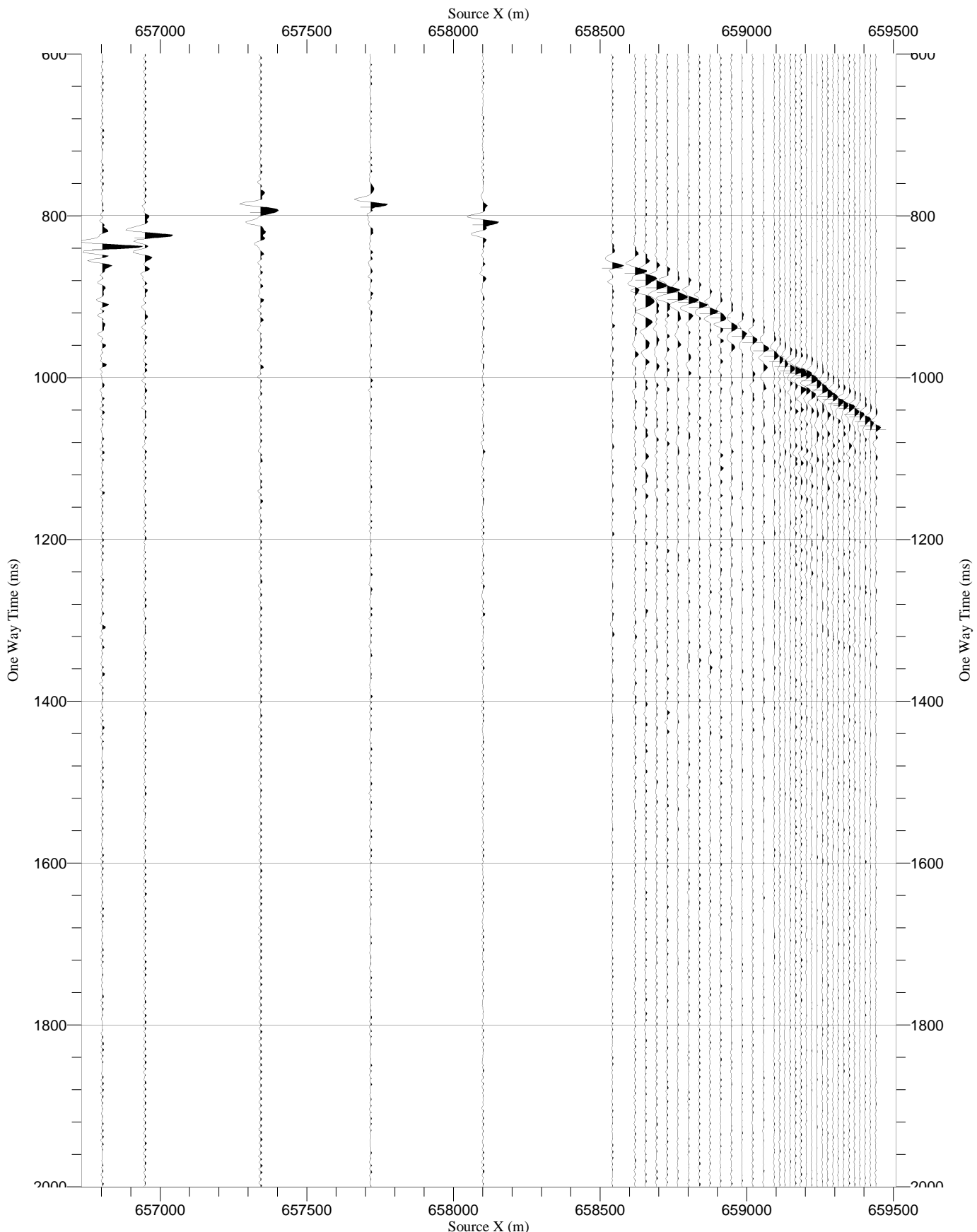
| | | |
|------------------|--|---|
| RawStack Y VSI-2 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




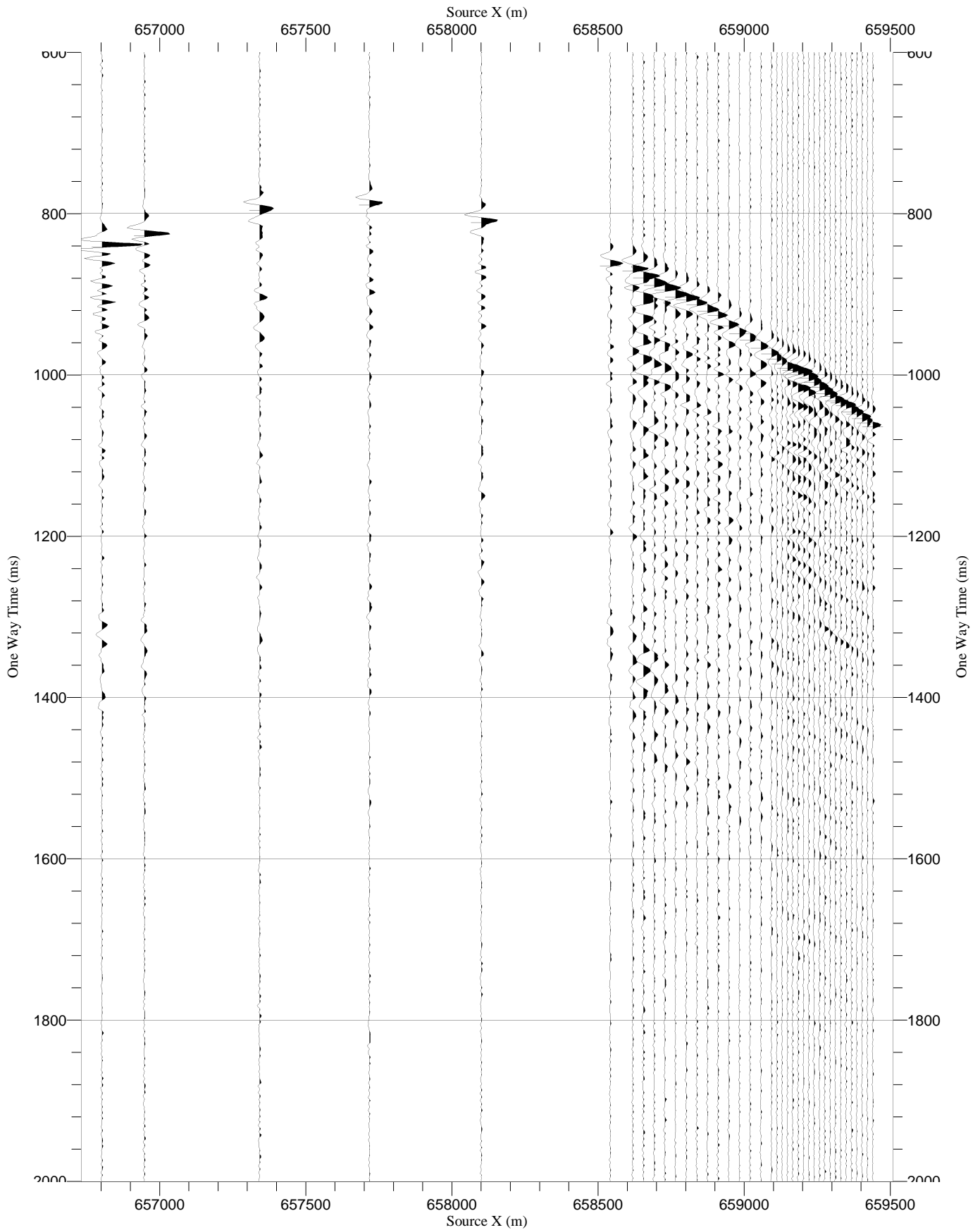
| | | |
|------------------|--|---|
| RawStack X VSI-2 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|



| | | |
|--------------------|--|---|
| RawStack TRY VSI-2 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|




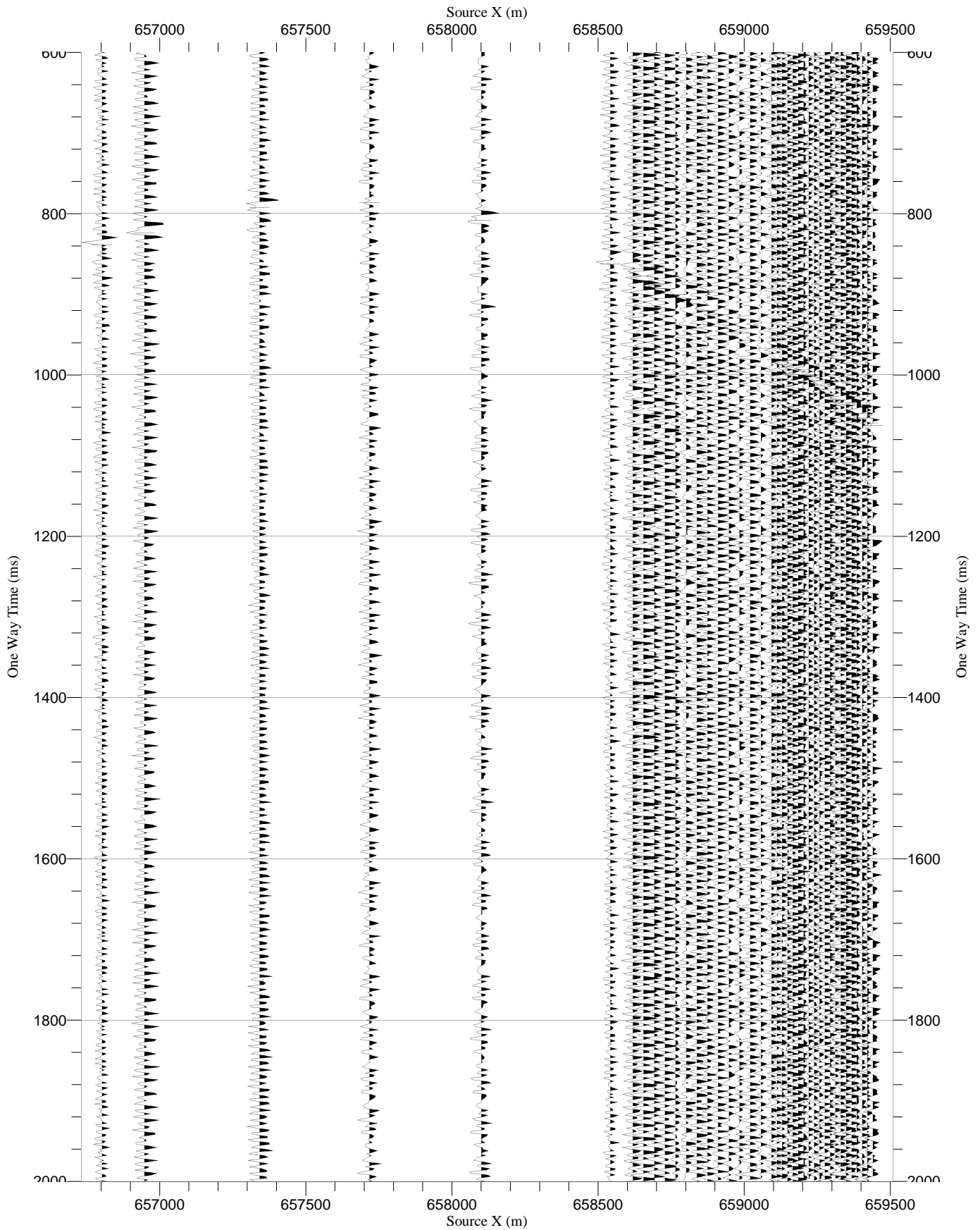
| | | |
|--------------------|--|---|
| RawStack HMX VSI-2 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|

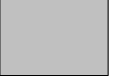


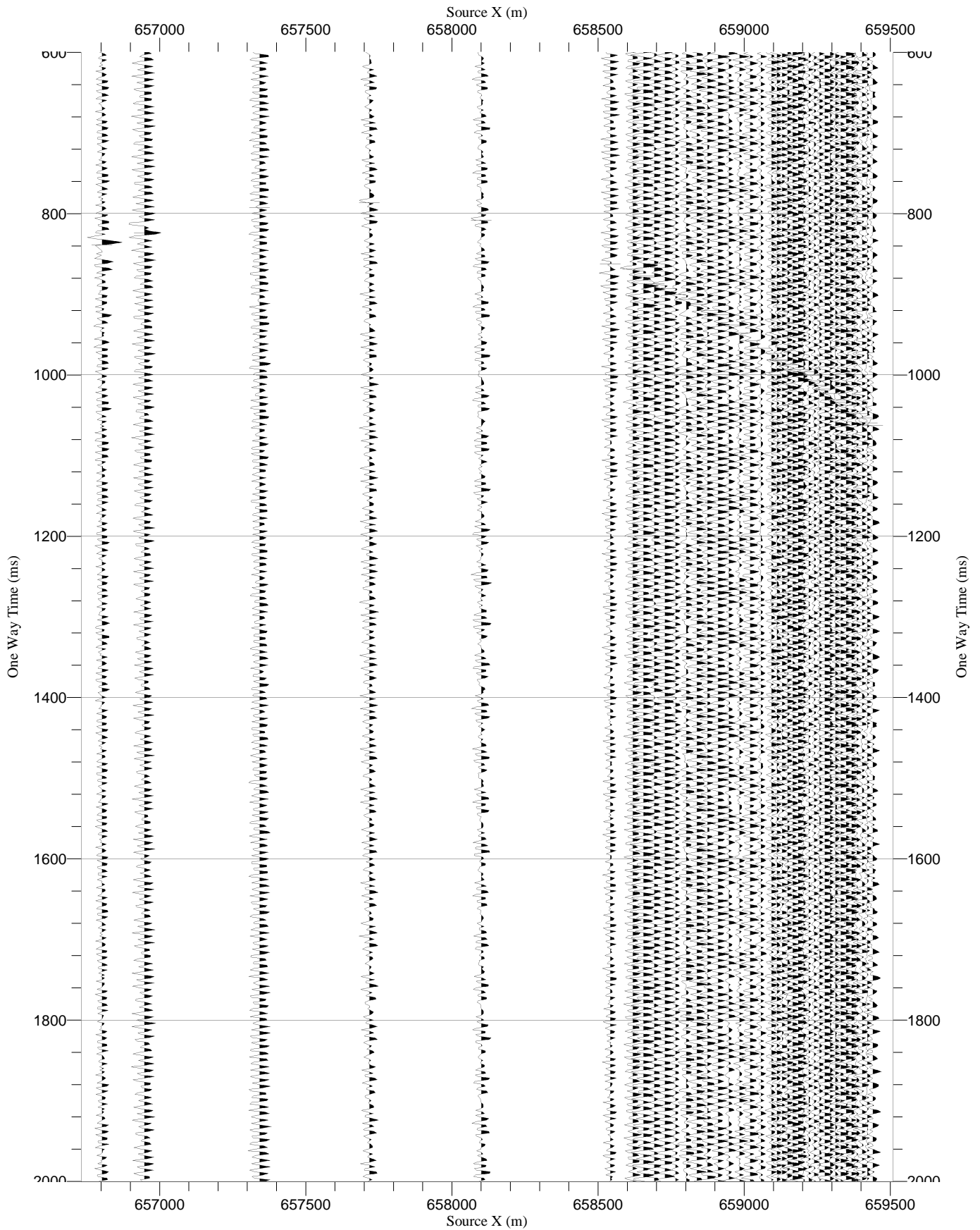
VSI-1

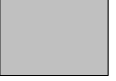
(1930 m receiver gather WVSP Line-B)

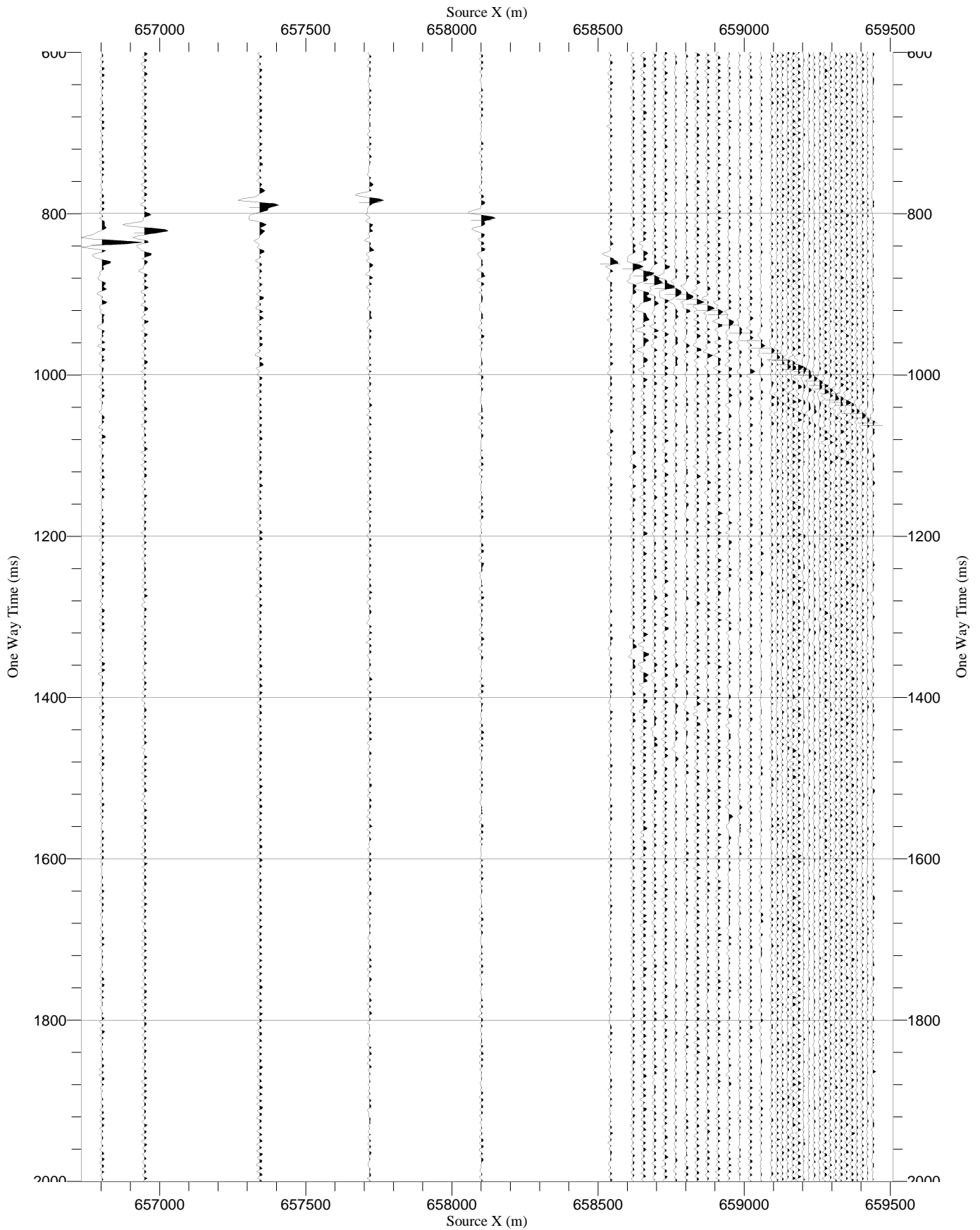
| | | |
|------------------|--|---|
| RawStack Z VSI-1 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




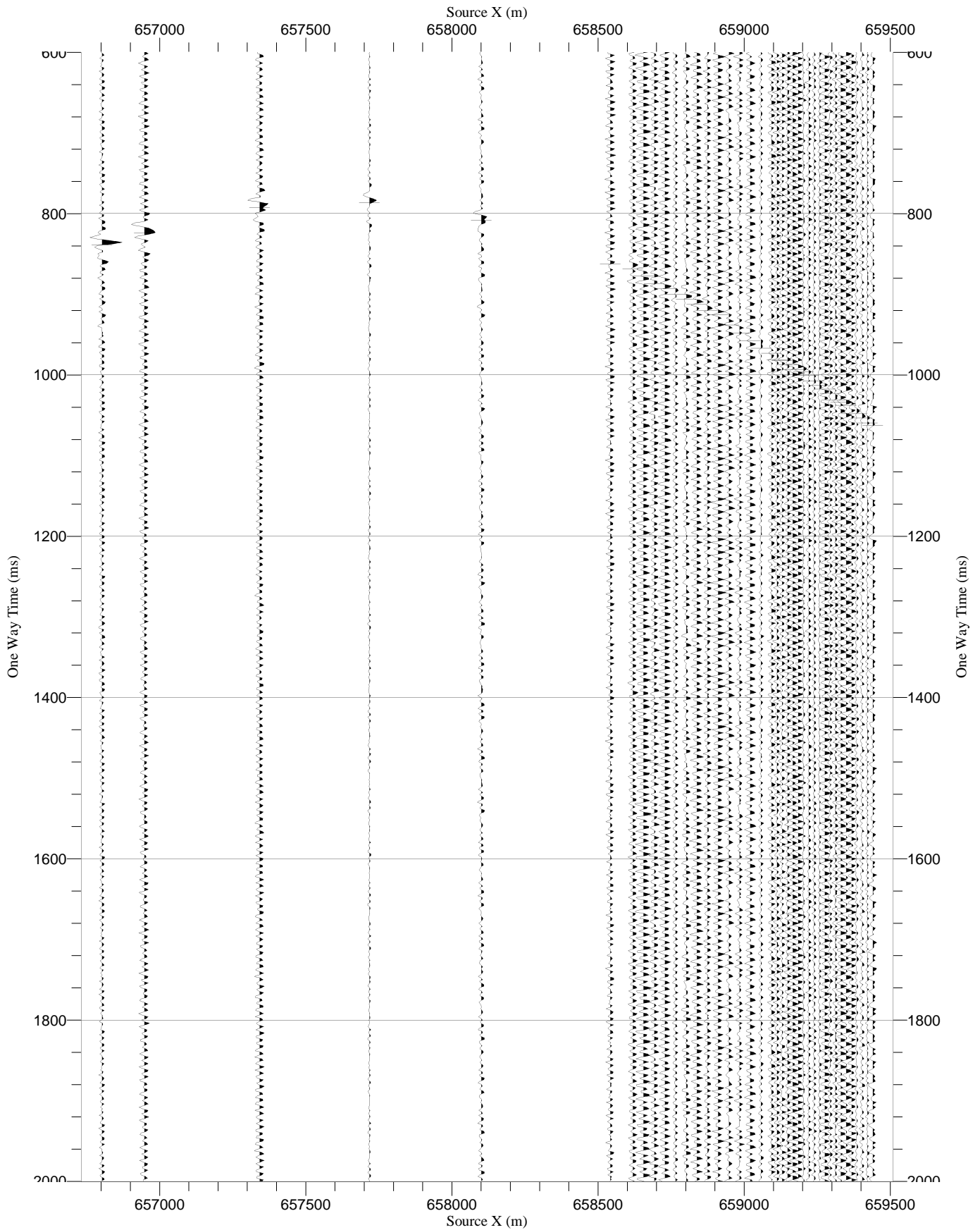
| | | |
|------------------|--|---|
| RawStack Y VSI-1 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




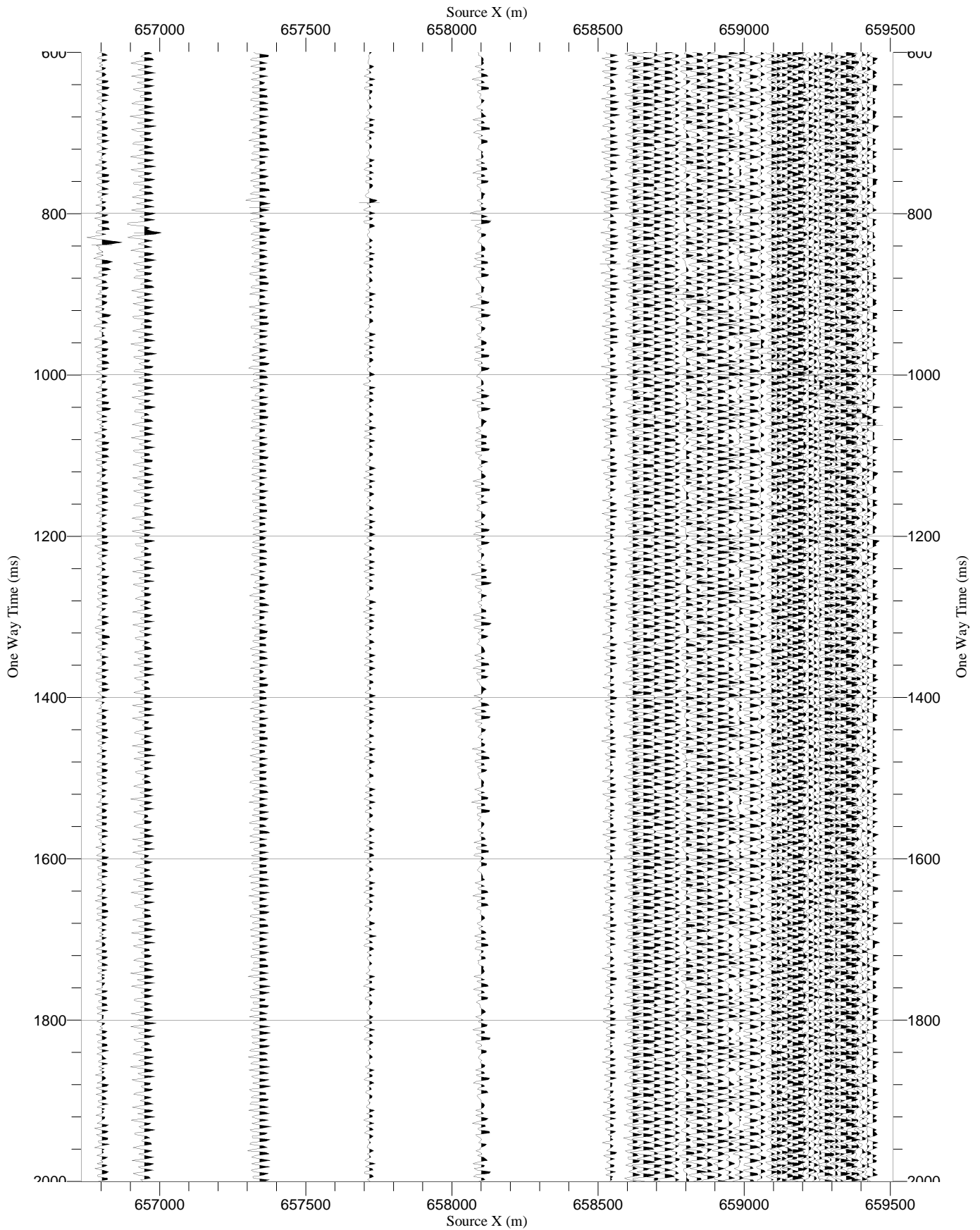
| | | |
|------------------|--|---|
| RawStack X VSI-1 | Normalization Largest Trace in Gather (200%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|------------------|--|---|




| | | |
|--------------------|--|---|
| RawStack TRY VSI-1 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|

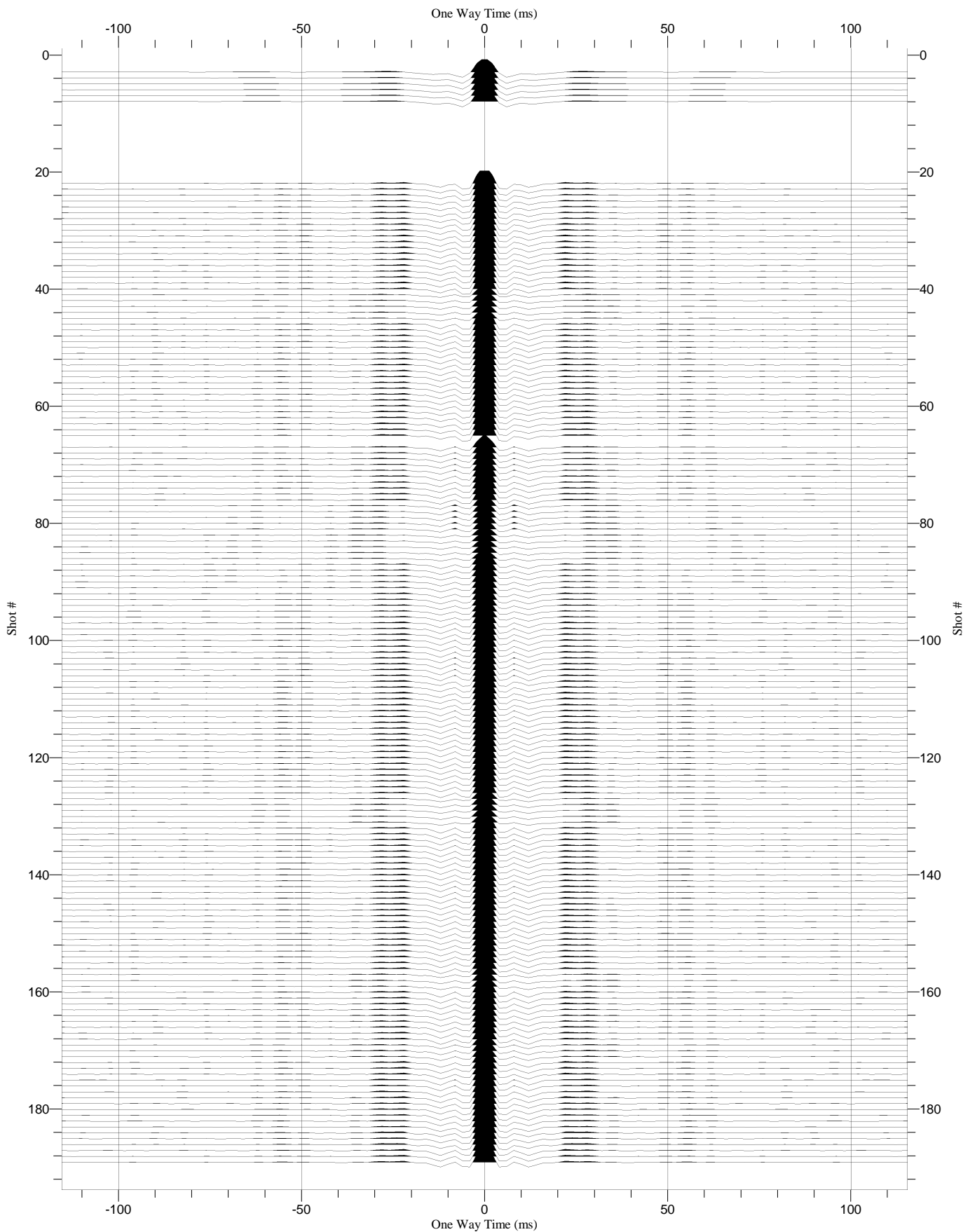


| | | |
|--------------------|--|---|
| RawStack HMX VSI-1 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 15.1 cm/sec, 1/18220 |  |
|--------------------|--|---|

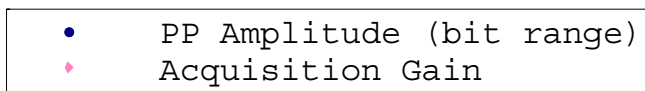
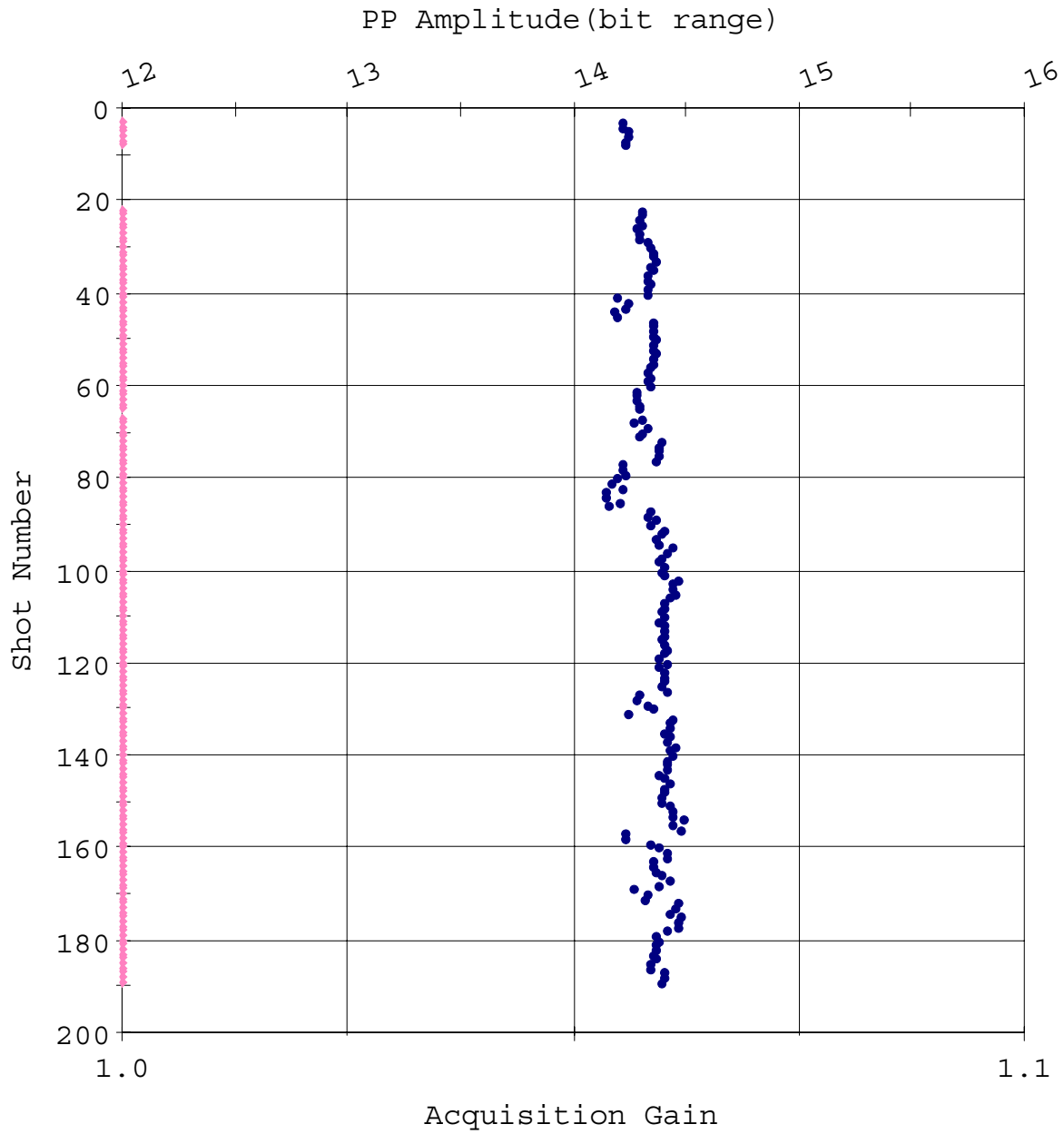


Source Signature QC Report WVSP Line-B

| | | |
|-------------------------|---|---|
| Source Sensor Signature | Normalization Largest Trace in Gather (300%) Polarity Normal One Way Time (ms) Scaling 69.11 cm/sec, 9.05/cm |  |
|-------------------------|---|---|



Amplitude QC Plot (Surface)



Shot and Observer Report WVSP Line-B

Observer's Note (1/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|-------------|
| 2000.0 | 10:18:43 | SHAK | 1 | | | |
| 2000.0 | 10:19:21 | BKGD | 2 | | | |
| 2000.0 | 10:22:02 | SHOT | 3 | 1 | 1 | 2077 Line-A |
| 2000.0 | 10:23:06 | SHOT | 4 | 1 | 1 | |
| 2000.0 | 10:23:46 | SHOT | 5 | 1 | 1 | |
| 2000.0 | 10:24:22 | SHOT | 6 | 1 | 1 | |
| 2000.0 | 10:24:56 | SHOT | 7 | 1 | 1 | |
| 2000.0 | 10:25:35 | SHOT | 8 | 1 | 1 | |
| 2000.0 | 11:26:54 | ENLO | 9 | | | |
| 2000.0 | 11:27:34 | ENHI | 10 | | | |
| 2000.0 | 11:28:00 | ETHD | 11 | | | |
| 2000.0 | 11:28:31 | DRNG | 12 | | | |
| 2000.0 | 11:29:03 | GA02 | 13 | | | |
| 2000.0 | 11:29:19 | GA04 | 14 | | | |
| 2000.0 | 11:29:36 | GA08 | 15 | | | |
| 2000.0 | 11:29:52 | GA16 | 16 | | | |
| 2000.0 | 11:30:08 | GA32 | 17 | | | |
| 2000.0 | 11:30:40 | XTLK | 18 | | | |
| 2000.0 | 11:31:16 | XTLK | 19 | | | |
| 2000.0 | 11:31:53 | XTLK | 20 | | | |
| 2000.0 | 11:32:28 | EIMP | 21 | | | |
| 2000.0 | 13:30:06 | SHOT | 22 | 2 | 2 | 3001 Line B |
| 2000.0 | 13:31:13 | SHOT | 23 | 2 | 2 | |
| 2000.0 | 13:31:50 | SHOT | 24 | 2 | 2 | |
| 2000.0 | 13:32:26 | SHOT | 25 | 2 | 2 | |
| 2000.0 | 13:33:02 | SHOT | 26 | 2 | 2 | |
| 2000.0 | 13:33:37 | SHOT | 27 | 2 | 2 | |
| 2000.0 | 13:34:13 | SHOT | 28 | 2 | 2 | |
| 2000.0 | 13:35:35 | SHOT | 29 | 3 | 2 | 3002 |
| 2000.0 | 13:36:10 | SHOT | 30 | 3 | 2 | |
| 2000.0 | 13:36:45 | SHOT | 31 | 3 | 2 | |
| 2000.0 | 13:37:19 | SHOT | 32 | 3 | 2 | |
| 2000.0 | 13:37:53 | SHOT | 33 | 3 | 2 | |
| 2000.0 | 13:38:27 | SHOT | 34 | 3 | 2 | |
| 2000.0 | 13:39:03 | SHOT | 35 | 3 | 2 | |
| 2000.0 | 13:40:09 | SHOT | 36 | 4 | 2 | 3003 |
| 2000.0 | 13:40:49 | SHOT | 37 | 4 | 2 | |
| 2000.0 | 13:41:24 | SHOT | 38 | 4 | 2 | |
| 2000.0 | 13:41:59 | SHOT | 39 | 4 | 2 | |
| 2000.0 | 13:42:34 | SHOT | 40 | 4 | 2 | |
| 2000.0 | 13:43:47 | SHOT | 41 | 5 | 2 | 3004 |
| 2000.0 | 13:44:23 | SHOT | 42 | 5 | 2 | |
| 2000.0 | 13:44:57 | SHOT | 43 | 5 | 2 | |
| 2000.0 | 13:45:33 | SHOT | 44 | 5 | 2 | |
| 2000.0 | 13:46:07 | SHOT | 45 | 5 | 2 | |
| 2000.0 | 13:48:24 | SHOT | 46 | 6 | 2 | 3005 |
| 2000.0 | 13:49:03 | SHOT | 47 | 6 | 2 | |
| 2000.0 | 13:49:37 | SHOT | 48 | 6 | 2 | |
| 2000.0 | 13:50:12 | SHOT | 49 | 6 | 2 | |
| 2000.0 | 13:50:46 | SHOT | 50 | 6 | 2 | |
| 2000.0 | 13:52:17 | SHOT | 51 | 7 | 2 | 3006 |
| 2000.0 | 13:52:50 | SHOT | 52 | 7 | 2 | |
| 2000.0 | 13:53:24 | SHOT | 53 | 7 | 2 | |
| 2000.0 | 13:54:00 | SHOT | 54 | 7 | 2 | |
| 2000.0 | 13:54:35 | SHOT | 55 | 7 | 2 | |
| 2000.0 | 13:55:38 | SHOT | 56 | 8 | 2 | 3007 |
| 2000.0 | 13:56:16 | SHOT | 57 | 8 | 2 | |
| 2000.0 | 13:56:52 | SHOT | 58 | 8 | 2 | |
| 2000.0 | 13:57:27 | SHOT | 59 | 8 | 2 | |

Observer's Note (2/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 2000.0 | 13:58:05 | SHOT | 60 | 8 | 2 | |
| 2000.0 | 13:59:14 | SHOT | 61 | 9 | 2 | 3008 |
| 2000.0 | 13:59:52 | SHOT | 62 | 9 | 2 | |
| 2000.0 | 14:00:26 | SHOT | 63 | 9 | 2 | |
| 2000.0 | 14:01:02 | SHOT | 64 | 9 | 2 | |
| 2000.0 | 14:01:39 | SHOT | 65 | 9 | 2 | |
| 2000.0 | 14:02:36 | BKGD | 66 | | | |
| 2000.0 | 14:03:01 | SHOT | 67 | 10 | 2 | 3009 |
| 2000.0 | 14:03:44 | SHOT | 68 | 10 | 2 | |
| 2000.0 | 14:04:18 | SHOT | 69 | 10 | 2 | |
| 2000.0 | 14:04:53 | SHOT | 70 | 10 | 2 | |
| 2000.0 | 14:05:30 | SHOT | 71 | 10 | 2 | |
| 2000.0 | 14:07:48 | SHOT | 72 | 11 | 2 | 3010 |
| 2000.0 | 14:08:24 | SHOT | 73 | 11 | 2 | |
| 2000.0 | 14:08:58 | SHOT | 74 | 11 | 2 | |
| 2000.0 | 14:09:32 | SHOT | 75 | 11 | 2 | |
| 2000.0 | 14:10:07 | SHOT | 76 | 11 | 2 | |
| 2000.0 | 14:11:20 | SHOT | 77 | 12 | 2 | 3011 |
| 2000.0 | 14:11:53 | SHOT | 78 | 12 | 2 | |
| 2000.0 | 14:12:29 | SHOT | 79 | 12 | 2 | |
| 2000.0 | 14:13:02 | SHOT | 80 | 12 | 2 | |
| 2000.0 | 14:13:36 | SHOT | 81 | 12 | 2 | |
| 2000.0 | 14:14:55 | SHOT | 82 | 13 | 2 | 3012 |
| 2000.0 | 14:15:32 | SHOT | 83 | 13 | 2 | |
| 2000.0 | 14:16:06 | SHOT | 84 | 13 | 2 | |
| 2000.0 | 14:16:41 | SHOT | 85 | 13 | 2 | |
| 2000.0 | 14:17:16 | SHOT | 86 | 13 | 2 | |
| 2000.0 | 14:19:31 | SHOT | 87 | 14 | 2 | 3013 |
| 2000.0 | 14:20:08 | SHOT | 88 | 14 | 2 | |
| 2000.0 | 14:20:43 | SHOT | 89 | 14 | 2 | |
| 2000.0 | 14:21:19 | SHOT | 90 | 14 | 2 | |
| 2000.0 | 14:21:56 | SHOT | 91 | 14 | 2 | |
| 2000.0 | 14:26:08 | SHOT | 92 | 15 | 2 | 3014 |
| 2000.0 | 14:26:49 | SHOT | 93 | 15 | 2 | |
| 2000.0 | 14:27:25 | SHOT | 94 | 15 | 2 | |
| 2000.0 | 14:28:06 | SHOT | 95 | 15 | 2 | |
| 2000.0 | 14:28:42 | SHOT | 96 | 15 | 2 | |
| 2000.0 | 14:30:22 | SHOT | 97 | 16 | 2 | 3015 |
| 2000.0 | 14:31:01 | SHOT | 98 | 16 | 2 | |
| 2000.0 | 14:31:43 | SHOT | 99 | 16 | 2 | |
| 2000.0 | 14:32:28 | SHOT | 100 | 16 | 2 | |
| 2000.0 | 14:33:03 | SHOT | 101 | 16 | 2 | |
| 2000.0 | 14:35:18 | SHOT | 102 | 17 | 2 | 3016 |
| 2000.0 | 14:35:53 | SHOT | 103 | 17 | 2 | |
| 2000.0 | 14:36:34 | SHOT | 104 | 17 | 2 | |
| 2000.0 | 14:37:09 | SHOT | 105 | 17 | 2 | |
| 2000.0 | 14:37:44 | SHOT | 106 | 17 | 2 | |
| 2000.0 | 14:39:17 | SHOT | 107 | 18 | 2 | 3017 |
| 2000.0 | 14:39:54 | SHOT | 108 | 18 | 2 | |
| 2000.0 | 14:40:31 | SHOT | 109 | 18 | 2 | |
| 2000.0 | 14:41:05 | SHOT | 110 | 18 | 2 | |
| 2000.0 | 14:44:59 | SHOT | 111 | 18 | 2 | |
| 2000.0 | 14:46:18 | SHOT | 112 | 19 | 2 | 3018 |
| 2000.0 | 14:47:02 | SHOT | 113 | 19 | 2 | |
| 2000.0 | 14:47:37 | SHOT | 114 | 19 | 2 | |
| 2000.0 | 14:48:12 | SHOT | 115 | 19 | 2 | |
| 2000.0 | 14:48:46 | SHOT | 116 | 19 | 2 | |
| 2000.0 | 14:49:58 | SHOT | 117 | 20 | 2 | 3019 |
| 2000.0 | 14:50:35 | SHOT | 118 | 20 | 2 | |

Observer's Note (3/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 2000.0 | 14:51:12 | SHOT | 119 | 20 | 2 | |
| 2000.0 | 14:51:48 | SHOT | 120 | 20 | 2 | |
| 2000.0 | 14:52:25 | SHOT | 121 | 20 | 2 | |
| 2000.0 | 14:53:31 | SHOT | 122 | 21 | 2 | 3020 |
| 2000.0 | 14:54:09 | SHOT | 123 | 21 | 2 | |
| 2000.0 | 14:55:06 | SHOT | 124 | 21 | 2 | |
| 2000.0 | 14:55:42 | SHOT | 125 | 21 | 2 | |
| 2000.0 | 14:56:17 | SHOT | 126 | 21 | 2 | |
| 2000.0 | 14:57:30 | SHOT | 127 | 22 | 2 | 3022 |
| 2000.0 | 14:58:16 | SHOT | 128 | 22 | 2 | |
| 2000.0 | 14:58:50 | SHOT | 129 | 22 | 2 | |
| 2000.0 | 14:59:24 | SHOT | 130 | 22 | 2 | |
| 2000.0 | 14:59:59 | SHOT | 131 | 22 | 2 | |
| 2000.0 | 15:01:14 | SHOT | 132 | 23 | 2 | 3024 |
| 2000.0 | 15:01:52 | SHOT | 133 | 23 | 2 | |
| 2000.0 | 15:02:26 | SHOT | 134 | 23 | 2 | |
| 2000.0 | 15:03:02 | SHOT | 135 | 23 | 2 | |
| 2000.0 | 15:03:36 | SHOT | 136 | 23 | 2 | |
| 2000.0 | 15:04:45 | SHOT | 137 | 24 | 2 | 3026 |
| 2000.0 | 15:05:23 | SHOT | 138 | 24 | 2 | |
| 2000.0 | 15:05:58 | SHOT | 139 | 24 | 2 | |
| 2000.0 | 15:06:32 | SHOT | 140 | 24 | 2 | |
| 2000.0 | 15:07:07 | SHOT | 141 | 24 | 2 | |
| 2000.0 | 15:08:24 | SHOT | 142 | 25 | 2 | 3028 |
| 2000.0 | 15:08:58 | SHOT | 143 | 25 | 2 | |
| 2000.0 | 15:09:33 | SHOT | 144 | 25 | 2 | |
| 2000.0 | 15:11:06 | SHOT | 145 | 26 | 2 | 3030 |
| 2000.0 | 15:11:43 | SHOT | 146 | 26 | 2 | |
| 2000.0 | 15:12:17 | SHOT | 147 | 26 | 2 | |
| 2000.0 | 15:13:50 | SHOT | 148 | 27 | 2 | 3032 |
| 2000.0 | 15:14:27 | SHOT | 149 | 27 | 2 | |
| 2000.0 | 15:15:01 | SHOT | 150 | 27 | 2 | |
| 2000.0 | 15:16:12 | SHOT | 151 | 28 | 2 | 3034 |
| 2000.0 | 15:16:48 | SHOT | 152 | 28 | 2 | |
| 2000.0 | 15:17:23 | SHOT | 153 | 28 | 2 | |
| 2000.0 | 15:19:18 | SHOT | 154 | 29 | 2 | 3036 |
| 2000.0 | 15:19:56 | SHOT | 155 | 29 | 2 | |
| 2000.0 | 15:20:31 | SHOT | 156 | 29 | 2 | |
| 2000.0 | 15:22:13 | SHOT | 157 | 30 | 2 | 3038 |
| 2000.0 | 15:22:47 | SHOT | 158 | 30 | 2 | |
| 2000.0 | 15:23:21 | SHOT | 159 | 30 | 2 | |
| 2000.0 | 15:24:39 | SHOT | 160 | 31 | 2 | 3040 |
| 2000.0 | 15:25:14 | SHOT | 161 | 31 | 2 | |
| 2000.0 | 15:25:49 | SHOT | 162 | 31 | 2 | |
| 2000.0 | 15:26:57 | SHOT | 163 | 32 | 2 | 3042 |
| 2000.0 | 15:27:34 | SHOT | 164 | 32 | 2 | |
| 2000.0 | 15:28:08 | SHOT | 165 | 32 | 2 | |
| 2000.0 | 15:29:21 | SHOT | 166 | 33 | 2 | 3044 |
| 2000.0 | 15:29:58 | SHOT | 167 | 33 | 2 | |
| 2000.0 | 15:30:34 | SHOT | 168 | 33 | 2 | |
| 2000.0 | 15:31:50 | SHOT | 169 | 34 | 2 | 3046 |
| 2000.0 | 15:32:25 | SHOT | 170 | 34 | 2 | |
| 2000.0 | 15:33:02 | SHOT | 171 | 34 | 2 | |
| 2000.0 | 15:35:24 | SHOT | 172 | 35 | 2 | 3048 |
| 2000.0 | 15:35:59 | SHOT | 173 | 35 | 2 | |
| 2000.0 | 15:36:34 | SHOT | 174 | 35 | 2 | |
| 2000.0 | 15:39:57 | SHOT | 175 | 36 | 2 | 4001 |
| 2000.0 | 15:40:33 | SHOT | 176 | 36 | 2 | |
| 2000.0 | 15:41:07 | SHOT | 177 | 36 | 2 | |

Observer's Note (4/4)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 2000.0 | 15:43:22 | SHOT | 178 | 37 | 2 | 4002 |
| 2000.0 | 15:43:59 | SHOT | 179 | 37 | 2 | |
| 2000.0 | 15:44:33 | SHOT | 180 | 37 | 2 | |
| 2000.0 | 15:46:32 | SHOT | 181 | 38 | 2 | 4003 |
| 2000.0 | 15:47:07 | SHOT | 182 | 38 | 2 | |
| 2000.0 | 15:47:42 | SHOT | 183 | 38 | 2 | |
| 2000.0 | 15:49:26 | SHOT | 184 | 39 | 2 | 4004 |
| 2000.0 | 15:50:02 | SHOT | 185 | 39 | 2 | |
| 2000.0 | 15:50:37 | SHOT | 186 | 39 | 2 | |
| 2000.0 | 15:52:06 | SHOT | 187 | 40 | 2 | 4005 |
| 2000.0 | 15:52:44 | SHOT | 188 | 40 | 2 | |
| 2000.0 | 15:53:18 | SHOT | 189 | 40 | 2 | |
| 2000.0 | 15:54:51 | SHAK | 190 | | | |
| 2000.0 | 15:55:33 | BKGD | 191 | | | |
| 2000.0 | 15:56:19 | ENLO | 192 | | | |
| 2000.0 | 15:56:58 | ENHI | 193 | | | |
| 2000.0 | 15:57:24 | ETHD | 194 | | | |
| 2000.0 | 15:57:55 | DRNG | 195 | | | |
| 2000.0 | 15:58:26 | GA02 | 196 | | | |
| 2000.0 | 15:58:42 | GA04 | 197 | | | |
| 2000.0 | 15:58:59 | GA08 | 198 | | | |
| 2000.0 | 15:59:15 | GA16 | 199 | | | |
| 2000.0 | 15:59:31 | GA32 | 200 | | | |
| 2000.0 | 16:00:03 | XTLK | 201 | | | |
| 2000.0 | 16:00:40 | XTLK | 202 | | | |
| 2000.0 | 16:01:17 | XTLK | 203 | | | |
| 2000.0 | 16:01:52 | EIMP | 204 | | | |

Naylor WVSP Station List

Distance Units: Meters

Coordinate measured by Handheld GPS (no GSP survey done)

Line-B

| Station No | Easting | Northing | Elevation | Remarks |
|------------|-------------|-------------|-----------|---------------------------|
| 3001 | 659439 | 5732621 | 46.4 | Measured |
| 3002 | 659420.7608 | 5732629.205 | 46.4 | estimate by 20 m interval |
| 3003 | 659402.5216 | 5732637.41 | 46.4 | estimate by 20 m interval |
| 3004 | 659384.2824 | 5732645.615 | 46.4 | estimate by 20 m interval |
| 3005 | 659366.0432 | 5732653.82 | 46.4 | estimate by 20 m interval |
| 3006 | 659347.8041 | 5732662.025 | 46.4 | estimate by 20 m interval |
| 3007 | 659329.5649 | 5732670.23 | 46.4 | estimate by 20 m interval |
| 3008 | 659311.3257 | 5732678.435 | 46.4 | estimate by 20 m interval |
| 3009 | 659293.0865 | 5732686.64 | 46.4 | estimate by 20 m interval |
| 3010 | 659274.8473 | 5732694.845 | 46.4 | estimate by 20 m interval |
| 3011 | 659256.6081 | 5732703.05 | 46.4 | estimate by 20 m interval |
| 3012 | 659238.3689 | 5732711.255 | 46.4 | estimate by 20 m interval |
| 3013 | 659220.1297 | 5732719.46 | 46.4 | estimate by 20 m interval |
| 3014 | 659201.8905 | 5732727.665 | 46.4 | estimate by 20 m interval |
| 3015 | 659183.6513 | 5732735.87 | 46.4 | estimate by 20 m interval |
| 3016 | 659165.4122 | 5732744.075 | 46.4 | estimate by 20 m interval |
| 3017 | 659147.173 | 5732752.28 | 46.4 | estimate by 20 m interval |
| 3018 | 659128.9338 | 5732760.485 | 46.4 | estimate by 20 m interval |
| 3019 | 659110.6946 | 5732768.69 | 46.4 | estimate by 20 m interval |
| 3020 | 659092.4554 | 5732776.895 | 46.4 | estimate by 20 m interval |
| 3022 | 659055.977 | 5732793.306 | 46.4 | estimate by 40 m interval |
| 3024 | 659019.4986 | 5732809.717 | 46.4 | estimate by 40 m interval |
| 3026 | 658983.0203 | 5732826.129 | 46.4 | estimate by 40 m interval |
| 3028 | 658946.5419 | 5732842.54 | 46.4 | estimate by 40 m interval |
| 3030 | 658910.0635 | 5732858.951 | 46.4 | estimate by 40 m interval |
| 3032 | 658873.5851 | 5732875.362 | 46.4 | estimate by 40 m interval |
| 3034 | 658837.1067 | 5732891.773 | 46.4 | estimate by 40 m interval |
| 3036 | 658800.6284 | 5732908.185 | 46.4 | estimate by 40 m interval |
| 3038 | 658764.15 | 5732924.596 | 46.4 | estimate by 40 m interval |
| 3040 | 658727.6716 | 5732941.007 | 46.4 | estimate by 40 m interval |
| 3042 | 658691.1932 | 5732957.418 | 46.4 | estimate by 40 m interval |
| 3044 | 658654.7148 | 5732973.829 | 46.4 | estimate by 40 m interval |
| 3046 | 658618.2365 | 5732990.241 | 46.4 | estimate by 40 m interval |
| 3048 | 658541 | 5733025 | 46.4 | Measured |
| 4001 | 658100 | 5733127 | 46.4 | Measured |
| 4002 | 657717 | 5733176 | 46.4 | Measured |
| 4003 | 657341 | 5733234 | 46.4 | Measured |
| 4004 | 656947 | 5733311 | 46.4 | Measured |
| 4005 | 656802 | 5733338 | 46.4 | Measured |

VSI Tool Evaluation Test Report WVSP Line-B

| VSI Seismic Evaluation Report | | | | | | | |
|-------------------------------|---------|---------|----------|--------------------------|-------------|-------------|--------|
| ELECTRICAL NOISE LOW TEST | | | | | | | |
| 2006/05/16 12:56:54 | | | | | | | |
| Shot No: 9 | | | | Station Depth: 2000.03 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| DC Offset | 1 | X | -25.4222 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1310 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4749 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3603 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1331 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4489 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.3831 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1346 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.5508 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.2277 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1315 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4709 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -25.0906 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1342 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.6411 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.3824 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1352 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.5154 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.3896 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1355 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4568 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.2952 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1400 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5468 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.3690 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1395 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.5546 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2974 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1375 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5455 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.3388 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1355 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4620 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2971 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1371 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.5379 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.2657 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1352 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4925 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3469 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1347 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.5288 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3262 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.4786 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.4086 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1365 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.6469 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.3331 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1359 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.4920 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -25.3440 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1313 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.4690 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.3189 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1409 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.4856 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -25.2827 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1361 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5515 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.3308 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1409 | micro V | - | 0.5000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| Noise Peak | 7 | Z | 0.5184 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.4163 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1339 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.5472 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.2794 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1386 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5535 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.4430 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1374 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.4708 | micro V | - | 2.0000 | PASS |

ELECTRICAL NOISE HIGH TEST

2006/05/16 12:57:34

Shot No: 10

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.2674 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1306 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4437 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3972 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1368 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.5281 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.2296 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1335 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.5189 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -24.9878 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1345 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4684 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -24.8075 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1318 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4652 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2360 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1346 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4690 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.1478 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1371 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4494 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.4559 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1411 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5491 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.2901 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1348 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.5361 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2299 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1359 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5085 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.1232 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1358 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4640 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2451 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1350 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.5372 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.0153 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1341 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4738 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3439 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1340 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.5279 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.2948 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1368 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.4236 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.3585 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1324 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.5536 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.0116 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1308 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.5484 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -24.9108 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1332 | micro V | - | 0.5000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| Noise Peak | 6 | Z | 0.4430 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.1659 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1377 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.4917 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -24.9885 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1375 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.4699 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.1214 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1360 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.4616 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.1887 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1343 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.5249 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -24.9894 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1378 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.4829 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.1076 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1362 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.4849 | micro V | - | 2.0000 | PASS |

ELECTRICAL DISTORTION TEST

2006/05/16 12:58:00

Shot No: 11

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|---------------------------|---------|---------|-----------|------|-------------|-------------|--------|
| Total Harmonic Distortion | 1 | X | -96.7766 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Y | -97.3510 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Z | -96.9368 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | X | -93.5376 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Y | -94.4035 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Z | -96.9175 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | X | -99.0766 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Y | -98.6617 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Z | -99.9222 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | X | -98.5975 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Y | -99.3139 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Z | -97.3648 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | X | -94.5823 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Y | -95.6031 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Z | -95.0411 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | X | -97.0305 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Y | -100.2777 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Z | -96.8336 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | X | -98.1372 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Y | -97.8081 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Z | -96.6744 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | X | -97.7379 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Y | -96.4893 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Z | -97.8792 | dB | - | -90.0000 | PASS |

SYSTEM DYNAMIC RANGE TEST

2006/05/16 12:58:31

Shot No: 12

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|----------------------|---------|---------|----------|------|-------------|-------------|--------|
| System Dynamic Range | 1 | X | 108.0749 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Y | 107.9869 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Z | 107.9976 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | X | 106.8723 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Y | 106.5853 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Z | 107.1177 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | X | 106.3525 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Y | 106.0305 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Z | 106.3273 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | X | 107.1278 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Y | 107.2064 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Z | 107.6932 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | X | 107.0534 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Y | 106.6172 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Z | 106.6645 | dB | 103.0000 | - | PASS |

| | | | | | | | |
|----------------------|---|---|----------|----|----------|---|------|
| System Dynamic Range | 6 | X | 107.3845 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Y | 107.6272 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Z | 107.0125 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | X | 107.2186 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Y | 107.5219 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Z | 107.1177 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | X | 107.8420 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Y | 107.3279 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Z | 107.6977 | dB | 103.0000 | - | PASS |

AMPLIFIER GAIN 2 TEST**2006/05/16 12:59:03****Shot No: 13****Station Depth: 2000.03 m**

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1291 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1135 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1204 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1163 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1426 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1196 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1303 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1286 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1299 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1286 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1141 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1194 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1094 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1022 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1132 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1215 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1060 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1143 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 4 TEST**2006/05/16 12:59:19****Shot No: 14****Station Depth: 2000.03 m**

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1042 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 1 | X | 0.0121 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1250 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0979 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1188 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1123 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1412 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1186 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1293 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1328 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1293 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1162 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1257 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1121 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1200 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0996 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1111 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1202 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1142 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0040 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 8 TEST

2006/05/16 12:59:36

Shot No: 15

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1241 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0942 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0193 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1203 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1124 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1413 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1187 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1315 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Accuracy | 3 | Z | 0.1367 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1318 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | -0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1186 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1262 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0024 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1126 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1207 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1152 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1037 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | -0.0009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1063 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0991 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1106 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1214 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0001 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1048 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1129 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1036 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0011 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 16 TEST

2006/05/16 12:59:52

Shot No: 16

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0935 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0228 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1186 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0106 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0919 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0216 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1151 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0053 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1376 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0049 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1153 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0043 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1284 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1368 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0083 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1279 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1162 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1222 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0064 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1072 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0070 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1177 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1113 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0072 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.0984 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Step Accuracy | 6 | X | 0.0098 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.0991 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0037 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0945 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0076 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1076 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1171 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1016 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1093 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 32 TEST

2006/05/16 13:00:08

Shot No: 17

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0932 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0232 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1229 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0062 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0946 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0189 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1107 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1393 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1196 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | -0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1331 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1386 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0101 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1292 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1252 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1083 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0058 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1224 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1143 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.0989 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0039 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1068 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0964 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1107 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1187 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1094 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | -0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0022 | dB | -0.5000 | 0.5000 | PASS |

| Gain Accuracy | 8 | Z | 0.0937 | dB | -0.5000 | 0.5000 | PASS |
|------------------------------|---------|---------|----------|---------------------------------|-------------|-------------|--------|
| Gain Step Accuracy | 8 | Z | 0.0109 | dB | -0.5000 | 0.5000 | PASS |
| CROSS TALK X TEST | | | | | | | |
| 2006/05/16 13:00:40 | | | | | | | |
| Shot No: 18 | | | | Station Depth: 2000.03 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| Cross Talk X-Y | 1 | - | -99.3609 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 1 | - | -97.7478 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 2 | - | -99.6298 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 2 | - | -98.1192 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 3 | - | -99.1281 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 3 | - | -97.8942 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 4 | - | -99.4762 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 4 | - | -97.4360 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 5 | - | -99.4042 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 5 | - | -98.1605 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 6 | - | -99.3296 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 6 | - | -98.1515 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 7 | - | -99.4470 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 7 | - | -98.1118 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 8 | - | -99.5667 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 8 | - | -98.1598 | dB | - | -90.0000 | PASS |
| CROSS TALK Y TEST | | | | | | | |
| 2006/05/16 13:01:16 | | | | | | | |
| Shot No: 19 | | | | Station Depth: 2000.03 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| Cross Talk Y-Z | 1 | - | -97.2371 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 1 | - | -99.0311 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 2 | - | -97.8347 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 2 | - | -99.0459 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 3 | - | -97.1631 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 3 | - | -99.1011 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 4 | - | -96.9235 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 4 | - | -98.6802 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 5 | - | -97.7881 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 5 | - | -99.1401 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 6 | - | -97.9590 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 6 | - | -99.0603 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 7 | - | -98.0644 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 7 | - | -98.6248 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 8 | - | -97.7871 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 8 | - | -98.9425 | dB | - | -90.0000 | PASS |
| CROSS TALK Z TEST | | | | | | | |
| 2006/05/16 13:01:53 | | | | | | | |
| Shot No: 20 | | | | Station Depth: 2000.03 m | | | |
| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
| Cross Talk Z-X | 1 | - | -96.3344 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 1 | - | -95.8543 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 2 | - | -96.8978 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 2 | - | -96.6884 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 3 | - | -96.4898 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 3 | - | -95.8742 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 4 | - | -96.0587 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 4 | - | -95.5307 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 5 | - | -97.2601 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 5 | - | -96.8466 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 6 | - | -96.0328 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 6 | - | -96.0395 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 7 | - | -96.3028 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 7 | - | -96.4345 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 8 | - | -97.1588 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 8 | - | -97.0760 | dB | - | -90.0000 | PASS |
| IMPULSE RESPONSE TEST | | | | | | | |
| 2006/05/16 13:02:28 | | | | | | | |
| Shot No: 21 | | | | Station Depth: 2000.03 m | | | |

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------------|---------|---------|----------|---------|-------------|-------------|--------|
| Amplitude (0.3Hz) | 1 | X | -1.5217 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | X | -3.5757 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | X | 571.5427 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | X | 0.0000 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Y | -1.4369 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Y | -3.5756 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Y | 572.4051 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Y | -0.8144 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Z | -1.4753 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Z | -3.5739 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Z | 571.3607 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Z | -0.5166 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | X | -1.4545 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | X | -3.5765 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | X | 571.2957 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | X | 0.0639 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Y | -1.5778 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Y | -3.5735 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Y | 571.1116 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Y | 1.2783 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Z | -1.6061 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Z | -3.5773 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Z | 572.6409 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Z | 1.6032 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | X | -1.4779 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | X | -3.5764 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | X | 571.0580 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | X | 0.1618 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Y | -1.4833 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Y | -3.5780 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Y | 571.9059 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Y | -0.0440 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Z | -1.5291 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Z | -3.5749 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Z | 571.9480 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Z | 0.6285 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | X | -1.6626 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | X | -3.5745 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | X | 571.8752 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | X | 1.8926 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Y | -1.5535 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Y | -3.5747 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Y | 570.8373 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Y | 0.7463 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Z | -1.5371 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Z | -3.5754 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Z | 571.7827 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Z | 0.4786 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | X | -1.5711 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | X | -3.5729 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | X | 571.3846 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | X | 0.9836 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Y | -1.4887 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Y | -3.5738 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Y | 571.8126 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Y | 0.1470 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Z | -1.6475 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Z | -3.5712 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Z | 571.8206 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Z | 1.7602 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | X | -1.6445 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | X | -3.5806 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | X | 569.9359 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | X | 1.3348 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Y | -1.5384 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Y | -3.5770 | dB | -5.0000 | - | PASS |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Impulse Amplitude | 6 | Y | 570.0229 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Y | 0.1777 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Z | -1.6126 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Z | -3.5794 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Z | 570.5450 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Z | 0.8377 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | X | -1.5954 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | X | -3.5802 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | X | 570.3657 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | X | 1.5044 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Y | -1.5889 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Y | -3.5793 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Y | 571.4360 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Y | 1.3840 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Z | -1.5276 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Z | -3.5822 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Z | 571.9664 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Z | 0.7131 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | X | -1.5975 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | X | -3.5764 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | X | 569.7648 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | X | 1.4857 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Y | -1.6367 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Y | -3.5717 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Y | 570.9343 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Y | 1.4160 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Z | -1.6994 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Z | -3.5748 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Z | 569.9424 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Z | 2.1986 | degree | - | - | - |

ELECTRICAL NOISE LOW TEST

2006/05/16 17:26:19

Shot No: 192

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.4203 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1324 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.5793 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3603 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1355 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.5058 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.3829 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1326 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4570 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.2279 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1336 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.5052 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -25.0904 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1340 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.5565 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.3821 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1298 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4267 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.3901 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1345 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.5738 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.2951 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1415 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.4701 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.3688 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1348 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.4409 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2975 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1366 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5474 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.3388 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1386 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4768 | micro V | - | 2.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| DC Offset | 4 | Z | -25.2978 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1357 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.4477 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.2653 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1373 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.5181 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3470 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1336 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4716 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3262 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1362 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.5794 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.4084 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1344 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4443 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.3349 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1353 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.4945 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -25.3441 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1372 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.5929 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.3188 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1362 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.5033 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -25.2826 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1354 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5799 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.3305 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1371 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.4735 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.4161 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1334 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4404 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.2793 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1362 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.4917 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.4428 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1351 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.6037 | micro V | - | 2.0000 | PASS |

ELECTRICAL NOISE HIGH TEST

2006/05/16 17:26:58

Shot No: 193

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.2374 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1316 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.5004 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3922 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1361 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4713 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.2312 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1302 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4104 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -24.9849 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1340 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4247 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -24.8016 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1310 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4797 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2329 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1348 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.5269 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.1502 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1321 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4881 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.4560 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1408 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5202 | micro V | - | 2.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| DC Offset | 3 | Z | -25.2951 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1381 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.5105 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2238 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1353 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5333 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.1197 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4933 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2566 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1340 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.4496 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.0122 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1337 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.5473 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3448 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1328 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4156 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.2936 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1345 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.4640 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.3586 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1370 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4770 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.0461 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1322 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.4486 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -24.9032 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.4310 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.1689 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1360 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.5514 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -24.9874 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1376 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.4704 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.1237 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1333 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.5200 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.1903 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1330 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4390 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -24.9863 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1348 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.4803 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.1090 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1409 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.5564 | micro V | - | 2.0000 | PASS |

ELECTRICAL DISTORTION TEST

2006/05/16 17:27:24

Shot No: 194

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|---------------------------|---------|---------|----------|------|-------------|-------------|--------|
| Total Harmonic Distortion | 1 | X | -97.0405 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Y | -97.5826 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Z | -97.2315 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | X | -93.5749 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Y | -94.4818 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Z | -97.1417 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | X | -99.1826 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Y | -98.5795 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Z | -99.8952 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | X | -98.6669 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Y | -99.3030 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Z | -97.4491 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | X | -94.9489 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Y | -95.8712 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Z | -95.3459 | dB | - | -90.0000 | PASS |

| | | | | | | | |
|---------------------------|---|---|----------|----|---|----------|------|
| Total Harmonic Distortion | 6 | X | -96.8602 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Y | -99.6759 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Z | -96.6658 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | X | -98.2436 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Y | -97.6216 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Z | -96.5865 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | X | -97.7099 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Y | -96.5525 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Z | -98.1583 | dB | - | -90.0000 | PASS |

SYSTEM DYNAMIC RANGE TEST

2006/05/16 17:27:55

Shot No: 195

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|----------------------|---------|---------|----------|------|-------------|-------------|--------|
| System Dynamic Range | 1 | X | 108.1129 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Y | 107.5179 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Z | 108.1325 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | X | 107.0700 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Y | 107.3631 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Z | 107.2221 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | X | 106.4038 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Y | 105.9328 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Z | 106.1132 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | X | 107.3499 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Y | 107.3723 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Z | 107.3062 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | X | 107.5226 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Y | 107.5330 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Z | 107.1953 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | X | 107.2162 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Y | 107.4660 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Z | 107.1474 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | X | 107.1523 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Y | 107.4658 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Z | 107.0949 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | X | 107.7476 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Y | 107.1292 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Z | 107.4960 | dB | 103.0000 | - | PASS |

AMPLIFIER GAIN 2 TEST

2006/05/16 17:28:26

Shot No: 196

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1163 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1291 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1135 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1204 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1162 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1425 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1195 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1302 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1285 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1298 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1193 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1286 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1141 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1193 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1184 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1081 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1094 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1132 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1215 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1143 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1046 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 4 TEST

2006/05/16 17:28:42

Shot No: 197

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0121 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1249 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0978 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1187 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1411 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1292 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1327 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1292 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1161 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1256 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1121 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1200 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1080 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0995 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1111 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Accuracy | 7 | Z | 0.1201 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1141 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0040 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 8 TEST

2006/05/16 17:28:59

Shot No: 198

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0156 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1241 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0941 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0193 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1202 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1123 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1412 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1186 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1314 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1367 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1317 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | -0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1261 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0024 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1126 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1206 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1152 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1037 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | -0.0009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1062 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0991 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1106 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1214 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0001 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1048 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1129 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1035 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0011 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 16 TEST

2006/05/16 17:29:15

Shot No: 199

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0935 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0228 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Accuracy | 1 | Y | 0.1185 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0106 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0918 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1150 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0053 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1080 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1376 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0049 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1152 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1282 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1367 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1278 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1161 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1221 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0065 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0070 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1177 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1113 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.0983 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0098 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.0991 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0038 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0945 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0076 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1076 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1171 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1093 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 32 TEST

2006/05/16 17:29:31

Shot No: 200

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0931 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0232 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1228 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0063 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0946 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0189 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1164 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1106 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1393 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1196 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | -0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1331 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1386 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 3 | Z | -0.0101 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1291 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1163 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1252 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1083 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0058 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1224 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1142 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.0989 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0039 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1068 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0964 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1107 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1187 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1094 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | -0.0035 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.0938 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0109 | dB | -0.5000 | 0.5000 | PASS |

CROSS TALK X TEST

2006/05/16 17:30:03

Shot No: 201

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk X-Y | 1 | - | -99.2483 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 1 | - | -97.8327 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 2 | - | -99.3490 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 2 | - | -98.4817 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 3 | - | -99.0982 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 3 | - | -97.6683 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 4 | - | -99.2382 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 4 | - | -97.5624 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 5 | - | -99.4252 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 5 | - | -98.4090 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 6 | - | -99.2969 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 6 | - | -98.3183 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 7 | - | -99.4201 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 7 | - | -98.2492 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 8 | - | -99.2888 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 8 | - | -98.1737 | dB | - | -90.0000 | PASS |

CROSS TALK Y TEST

2006/05/16 17:30:40

Shot No: 202

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Y-Z | 1 | - | -97.3950 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 1 | - | -99.0030 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 2 | - | -97.9245 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 2 | - | -99.1604 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 3 | - | -97.2401 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 3 | - | -98.9709 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 4 | - | -96.9847 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 4 | - | -98.7273 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 5 | - | -97.8292 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 5 | - | -99.2913 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 6 | - | -98.0679 | dB | - | -90.0000 | PASS |

| | | | | | | | |
|----------------|---|---|----------|----|---|----------|------|
| Cross Talk Y-X | 6 | - | -99.2001 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 7 | - | -97.8788 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 7 | - | -98.7430 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 8 | - | -97.5556 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 8 | - | -98.9946 | dB | - | -90.0000 | PASS |

CROSS TALK Z TEST

2006/05/16 17:31:17

Shot No: 203

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Z-X | 1 | - | -96.3696 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 1 | - | -95.9224 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 2 | - | -96.9260 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 2 | - | -96.7635 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 3 | - | -96.3985 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 3 | - | -96.0179 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 4 | - | -95.9263 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 4 | - | -95.6013 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 5 | - | -96.9973 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 5 | - | -96.7177 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 6 | - | -96.3305 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 6 | - | -95.8592 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 7 | - | -96.5445 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 7 | - | -96.3109 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 8 | - | -97.1727 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 8 | - | -96.9778 | dB | - | -90.0000 | PASS |

IMPULSE RESPONSE TEST

2006/05/16 17:31:52

Shot No: 204

Station Depth: 2000.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------------|---------|---------|----------|---------|-------------|-------------|--------|
| Amplitude (0.3Hz) | 1 | X | -1.4923 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | X | -3.5762 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | X | 571.9659 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | X | 0.0000 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Y | -1.4122 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Y | -3.5743 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Y | 572.8289 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Y | -0.8156 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Z | -1.4559 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Z | -3.5780 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Z | 571.7870 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Z | -0.5164 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | X | -1.4266 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | X | -3.5746 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | X | 571.7241 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | X | 0.0366 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Y | -1.5507 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Y | -3.5726 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Y | 571.5349 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Y | 1.2769 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Z | -1.5763 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Z | -3.5756 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Z | 573.0668 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Z | 1.6208 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | X | -1.4590 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | X | -3.5728 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | X | 571.4756 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | X | -0.2126 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Y | -1.4599 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Y | -3.5699 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Y | 572.3255 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Y | -0.4666 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Z | -1.5115 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Z | -3.5723 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Z | 572.3635 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Z | 0.1844 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | X | -1.6292 | dB | -5.0000 | - | PASS |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (400Hz) | 4 | X | -3.5779 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | X | 572.2704 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | X | 1.7625 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Y | -1.5109 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Y | -3.5754 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Y | 571.2351 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Y | 0.5941 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Z | -1.4946 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Z | -3.5740 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Z | 572.1779 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Z | 0.3308 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | X | -1.5573 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | X | -3.5759 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | X | 571.7592 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | X | 0.8177 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Y | -1.4804 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Y | -3.5790 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Y | 572.1877 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Y | -0.1102 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Z | -1.6405 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Z | -3.5781 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Z | 572.1955 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Z | 1.4929 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | X | -1.5870 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | X | -3.5835 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | X | 570.3773 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | X | 1.1559 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Y | -1.4782 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Y | -3.5812 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Y | 570.4634 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Y | 0.0100 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Z | -1.5566 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Z | -3.5813 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Z | 570.9865 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Z | 0.6419 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | X | -1.5678 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | X | -3.5765 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | X | 570.7564 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | X | 1.3251 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Y | -1.5563 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Y | -3.5751 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Y | 571.8378 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Y | 1.1930 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Z | -1.4900 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Z | -3.5716 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Z | 572.3674 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Z | 0.4911 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | X | -1.5313 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | X | -3.5770 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | X | 570.1447 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | X | 1.1447 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Y | -1.5762 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Y | -3.5716 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Y | 571.3229 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Y | 1.1208 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Z | -1.6307 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Z | -3.5728 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Z | 570.3217 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Z | 1.9104 | degree | - | - | - |

Walkaway VSP S-mode Line-A Report

General Information

| | |
|--|--------------|
| Survey Type | Walkaway VSP |
| Surface Recording Length | 15500.0 ms |
| Surface Sampling Rate | 2.0 ms |
| Downhole Recording Length | 21500.0 ms |
| Downhole Sampling Rate | 2.0 ms |
| Top of Survey | 1730.0 m |
| Bottom of Survey | 1800.0 m |
| Number of Shots | 303 |
| Number of Downhole Traces | 2424 |
| Number of Downhole Traces used for Processing | 2302 |

Borehole Seismic Source Information - Source 1

Engineer: S. Nakanishi

Well Name: Naylor-1

Date: 18-May-2006

Rig: Rigless/ 15Ton Crane

Geometrical Coordinates

Longitude: 142 48' 30.43" E

Latitude: 38 31' 47.26" S

UTM Coordinates

Easting: 657634.25 m E

Northing: 5733850.49 m N

Permanent Datum: MSL

Log Measured From: DF

Elev. 51.1

Unit: m

Ground Elev. at Well Head 46.4

SRD (Seismic Reference Datum): MSL

Elev. 0.0

from SLB zero: 51.1 (SRDS)

Ground Elev. at VP: 46.4

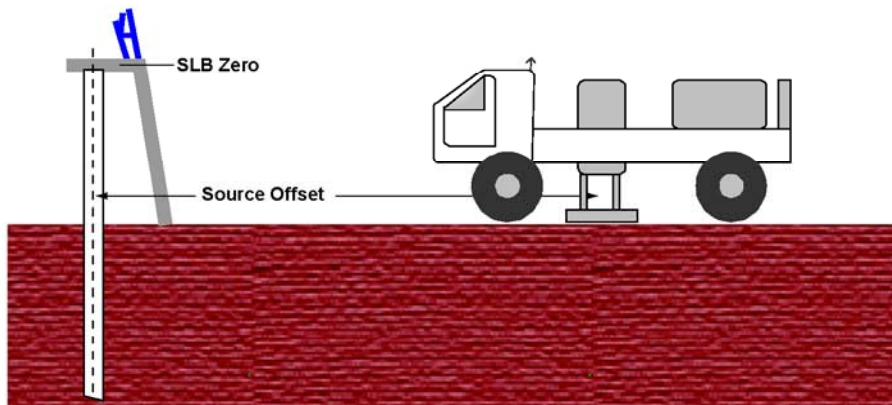
Gun Depth from SLB : 4.7 (GDSZ)

Gun Depth from SRD : -46.4

Gun Depth from GL (WH): 0.0

Ground Condition: Clay soil
Flat terrain

Ground Water Level from GL: 1.0



Gun Azimuth (Grid North): N/A deg (GAZI)

Gun Offset: N/A (GOFF)

Vibrator: IVI MinVib T1500

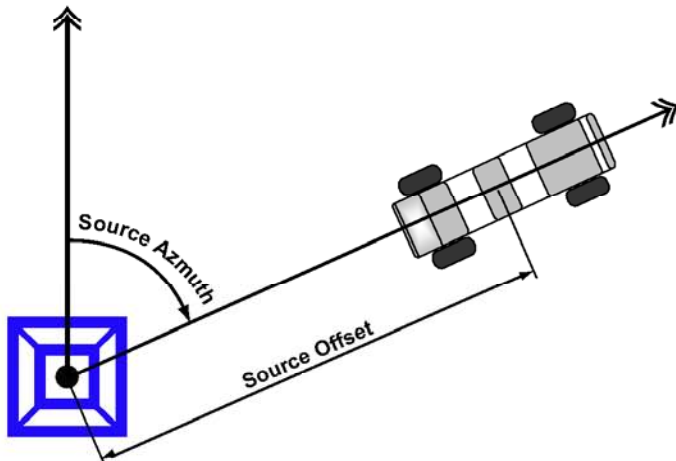
Controller - Encoder: RTS-100

Decoder: SIB-100

Version: ANSIR

Mass Weight 311 lbs
BasePlate Weight 370 lbs
HoldDown Weight 10,000 lbs

Zero Time Adjust N/A
Radio Reference Delay N/A



Sweep Parameters

Start Frequency 10 Hz
End Frequency 80 Hz
Sweep Length 15 sec
Start Taper 0.2 sec
End Taper 0.2 sec
Sweep Type Linear S-wave Mode
VIB Sweep Phase N/A
ESG Sweep Phase N/A
Phase Lock Mode N/A
Force Mode N/A

Surface Velocity Survey (Rig Source only)

Tool Measured Depth: N/A

Measured Transit Time: N/A ms Reliable TT

Measured Surface Velocity: NA

Provided Surface Velocity by Client: m/sec

Borehole Seismic Source Information

Surface Sensor Channels

WSAM (WSI)

sn: **WSAM**: -AB 910

WSI: 1742

Pilot Signal

SSPS

| | | |
|---------------------|---------------------|-------------------------------------|
| S1 (WSI-SS2) | none | <input type="checkbox"/> |
| S2 (WSI-SS3) | Filtered Ground For | <input checked="" type="checkbox"/> |
| S3 (WSI-SS4) | none | <input type="checkbox"/> |
| S4 (WSI-SS5) | | <input type="checkbox"/> |
| S5 (WSI-SS6) | | <input type="checkbox"/> |
| S6 (WSI-SS7) | | <input type="checkbox"/> |

Quality Check Surface Signals

| | S1 Time Break / PP | | S2 TT(ms) / PP | | S3 TT(ms) / PP | | S4 TT(ms) / PP | | S5 TT(ms) / PP | | S6 TT(ms) / PP | |
|--------|--------------------|---|----------------|-------|----------------|---|----------------|---|----------------|---|----------------|---|
| Shot-1 | 0.0 / | 0 | 0.0 / | 19081 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-2 | 0.0 / | 0 | 0.0 / | 19013 | 1.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-3 | 0.0 / | 0 | 0.0 / | 19287 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-4 | 0.0 / | 0 | 0.0 / | 19342 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |
| Shot-5 | 0.0 / | 0 | 0.0 / | 19244 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 | 0.0 / | 0 |

Other Logs Information

| | | | | |
|---------------------|------------------|-------------|-----------|--------------|
| Sonic Log: | Interval: | from | to | Date: |
| Density Log: | Interval: | from | to | Date: |

Remarks

MinVib T1500 used 10Hz to 80Hz linear sweep for 15 seconds. Baseplate used the shearwave plate for S-wave mode. PSS or QC signal is not available in the RTS-100 system.

Contact Closure pin-F and G of RTS-100 is used for triggering MinVib through WSI-A (30 msec period). Start Delay sets 0.1 s.

SIB-100 can provide three reference pilot signals (Synthetic, Ground Force and Filtered Ground force). Only one of them can be transmitted through UHF radio. The Filtered Ground Force signal is recommended for correlation by the IVI. Pilot signal (Filtered Ground Force signal) is recorded for correlation. FGF signal is generated in the SIB-100 box in real time by combining the baseplate accelerometer and the mass accelerometer signals during each sweep. This signal is then filtered with a tracking high cut filter. The frequency of this tracking filter is set to remove all higher order harmonics. . FGF signals is 180 degree phase different to GF signal according to Elmo Christensen / IVI.

FGF signal is recorded in reversed polarity (RTS-100 pin-D to WSI pin-A, RTS-100 pin-N to WSI pin-B) in order to obtain positive peak correlation. Downhole receiver (GAC) has SEG reverse polarity (1975).

Recording surface signals (WSAM) S1 - No input. S2 - FGF (15500 msec @ 2 msec sampling with TOFS 500 ms to avoid transit noise). Correlation Length 6000 msec. Downhole listening time is 21500 msec @ 2 msec sampling). Input impedance of the channel SS3 (S2) of WSAM-AB was changed from 462-ohm to 10K-ohm in order to obtain better dynamic range.

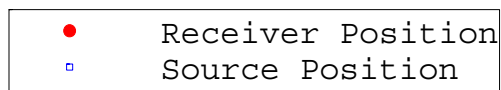
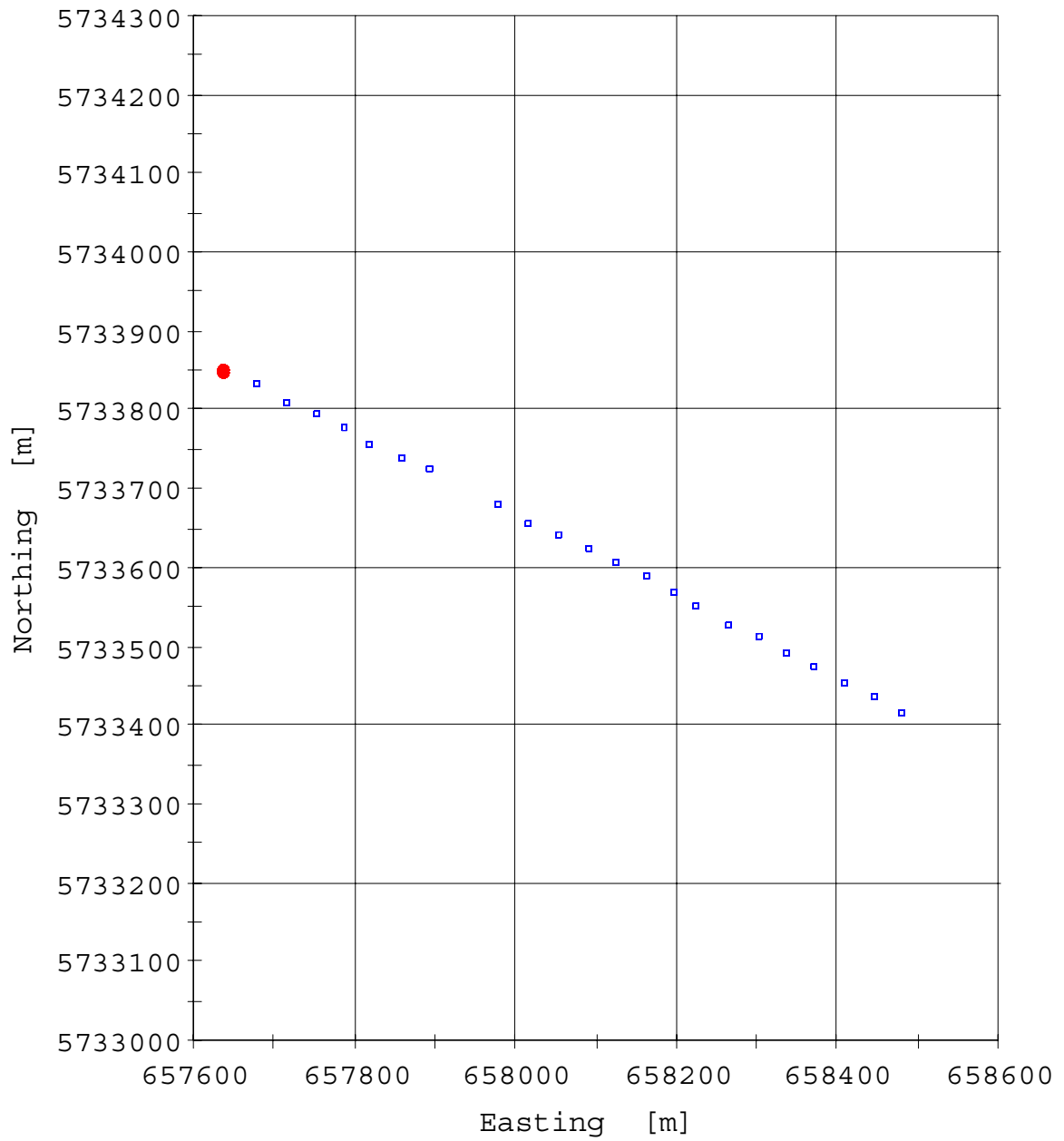
Detail T-1500 MinVib specification

- Max. Theoretical Peak Force: 6,000 Pounds
- Mass Piston Area: 1.50 Inches²
- Reaction Mass Weight: 311 Pounds
- Reaction Mass Stroke: 1.88 Inches
- Servo valve; 5 GPM
- Servo valve Pilot Filter: 3 Micron
- Baseplate Area: 1,018 Inches²
- Baseplate Assembly Weight: 370 Pounds
- Lift System Stroke: 38 Inches
- Lift Cylinder Diameter: 2.5 Inches
- Lift Synchronization: Mechanical Crossbeam
- Vibrator Pump Flow: 15 GPM @ 2100 RPM
- Holddown Weight: 10,000 Pounds



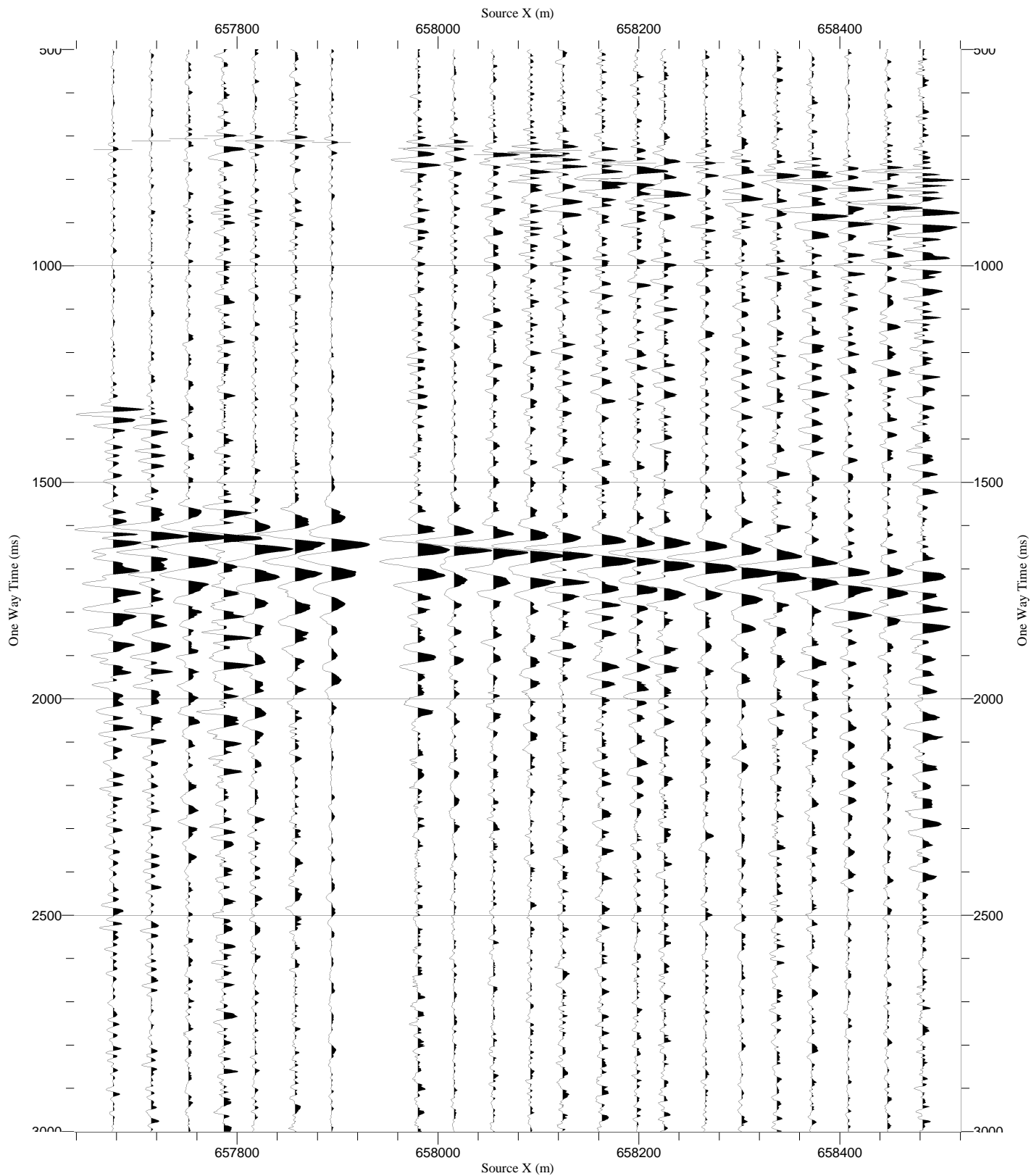
S1 In-line mode

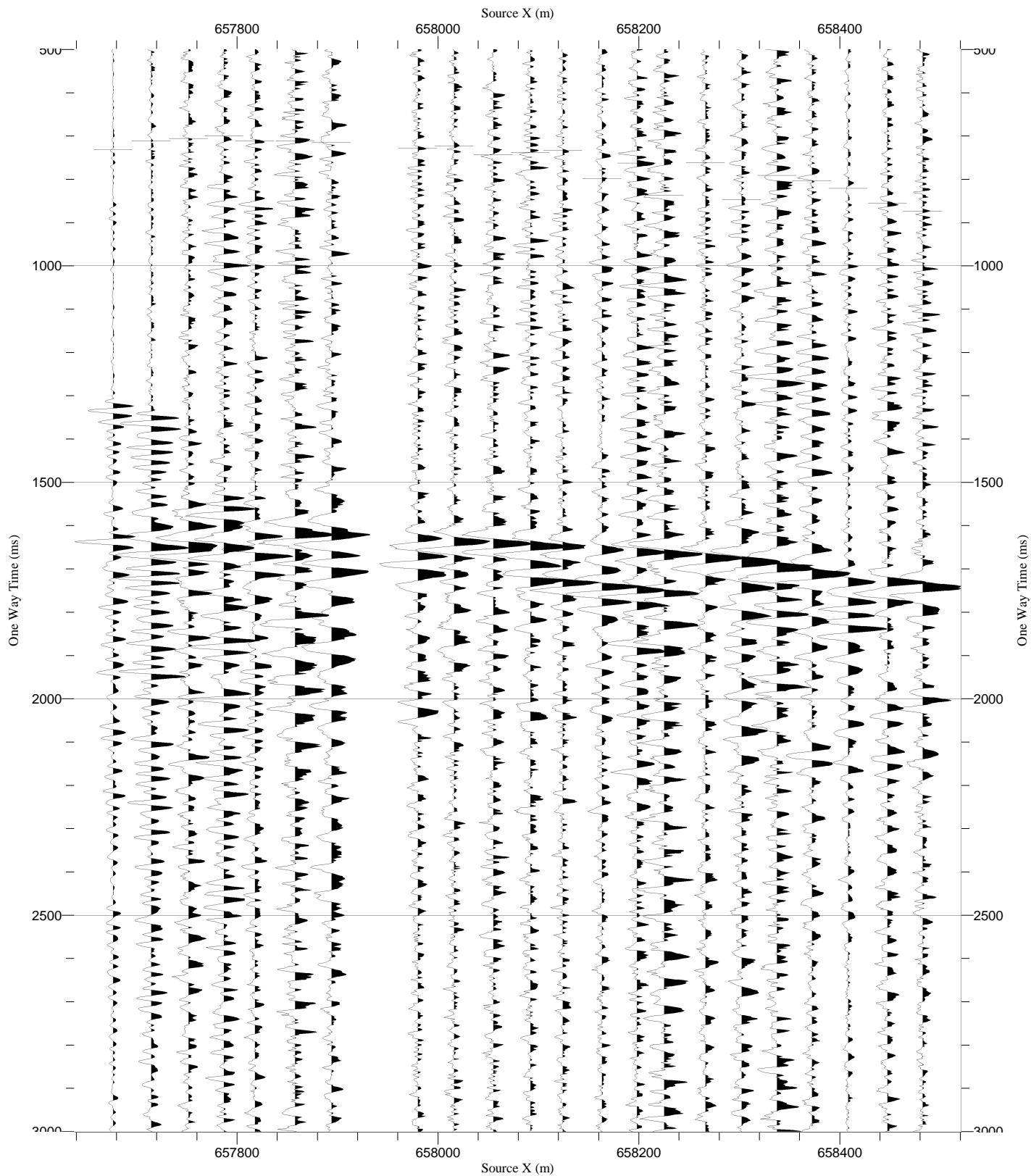
Geometry Information Page (X-Y)

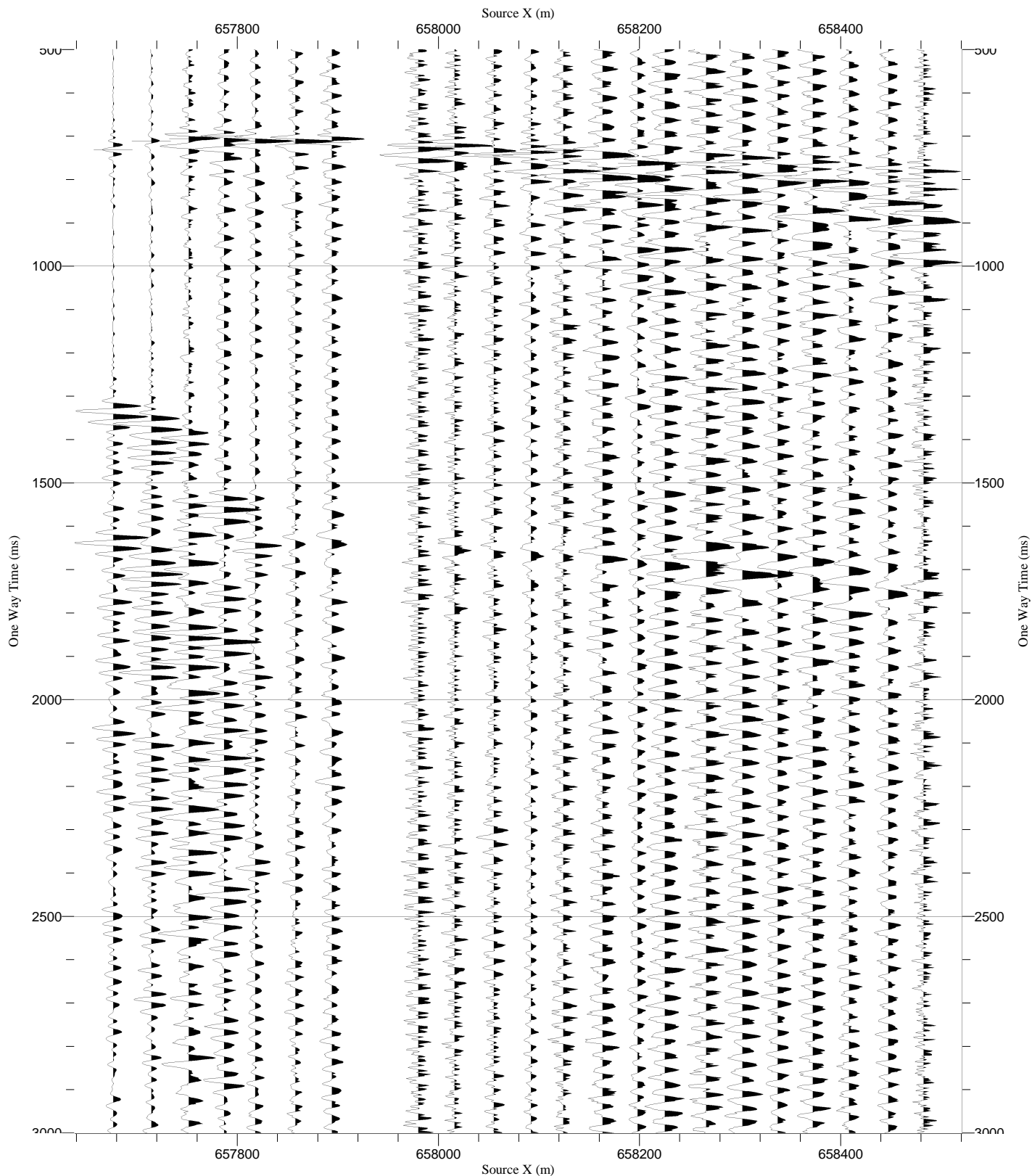



VSI-8

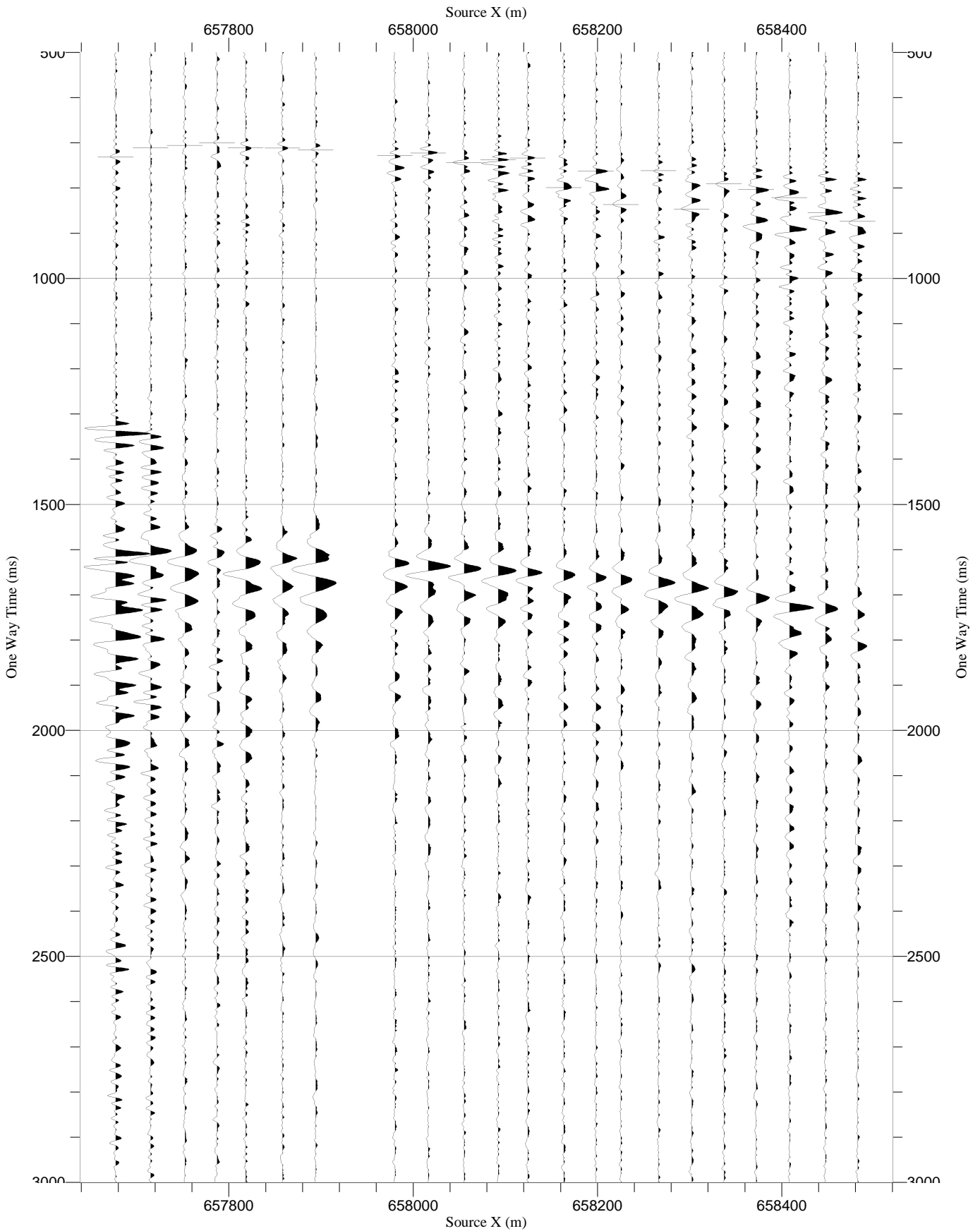
(1800 m receiver gather WVSP Inline-S Line-A)




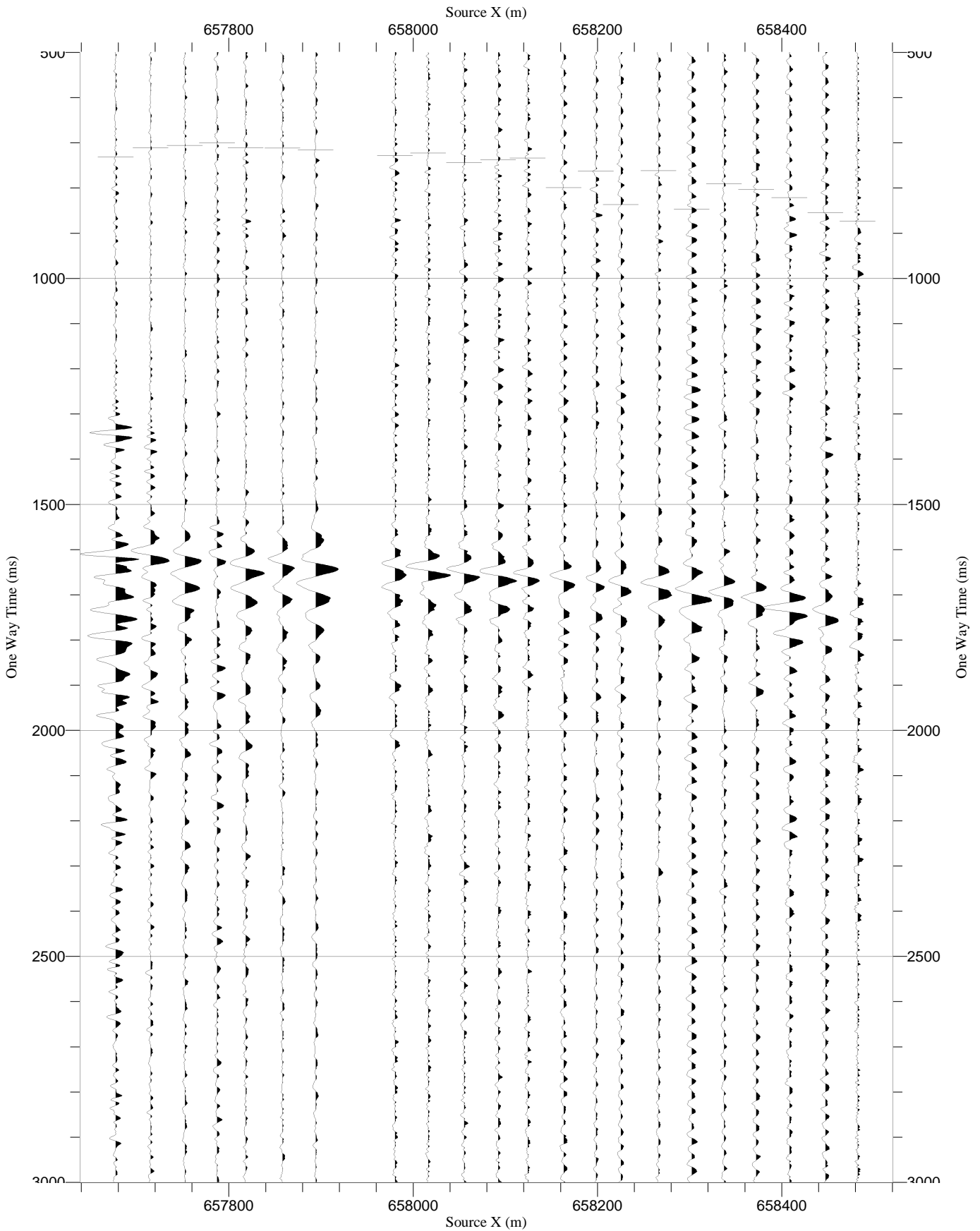




| | | |
|-----------------------|--|---|
| RawStack HMX-S1 VSI-8 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|




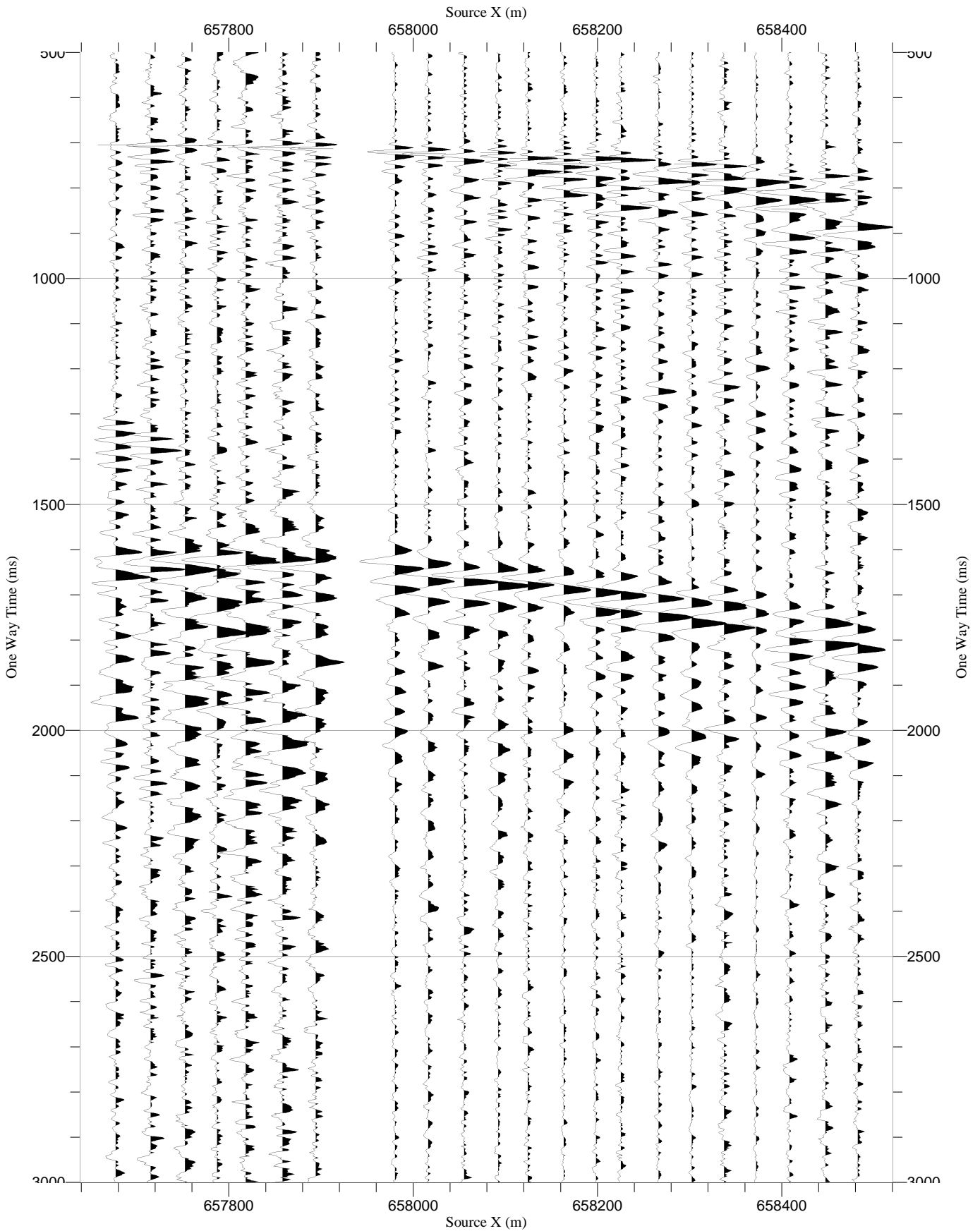
| | | |
|-----------------------|--|---|
| RawStack NRY-S1 VSI-8 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|




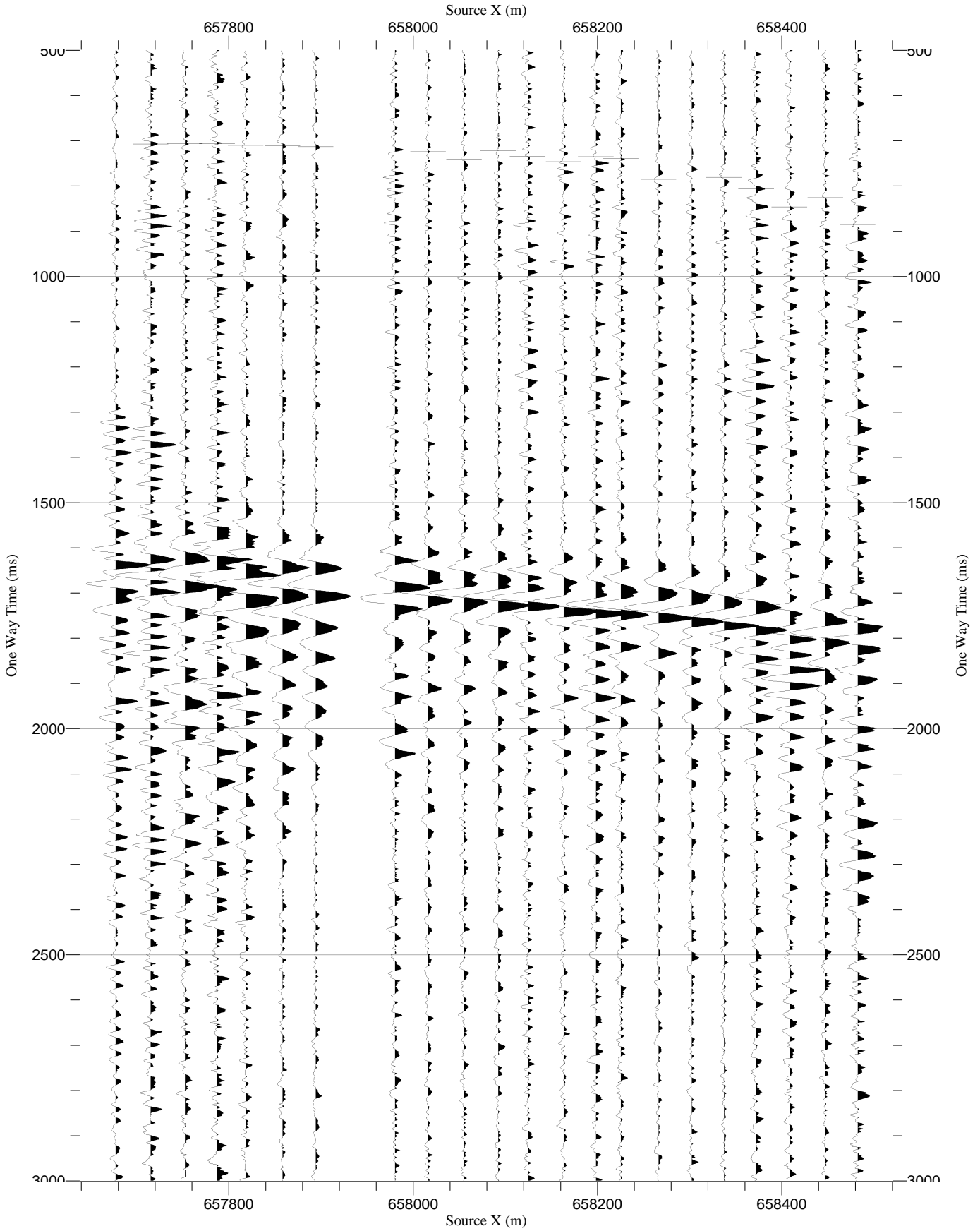
VSI-8


(1800 m receiver gather WVSP Crossline-S Line-A)

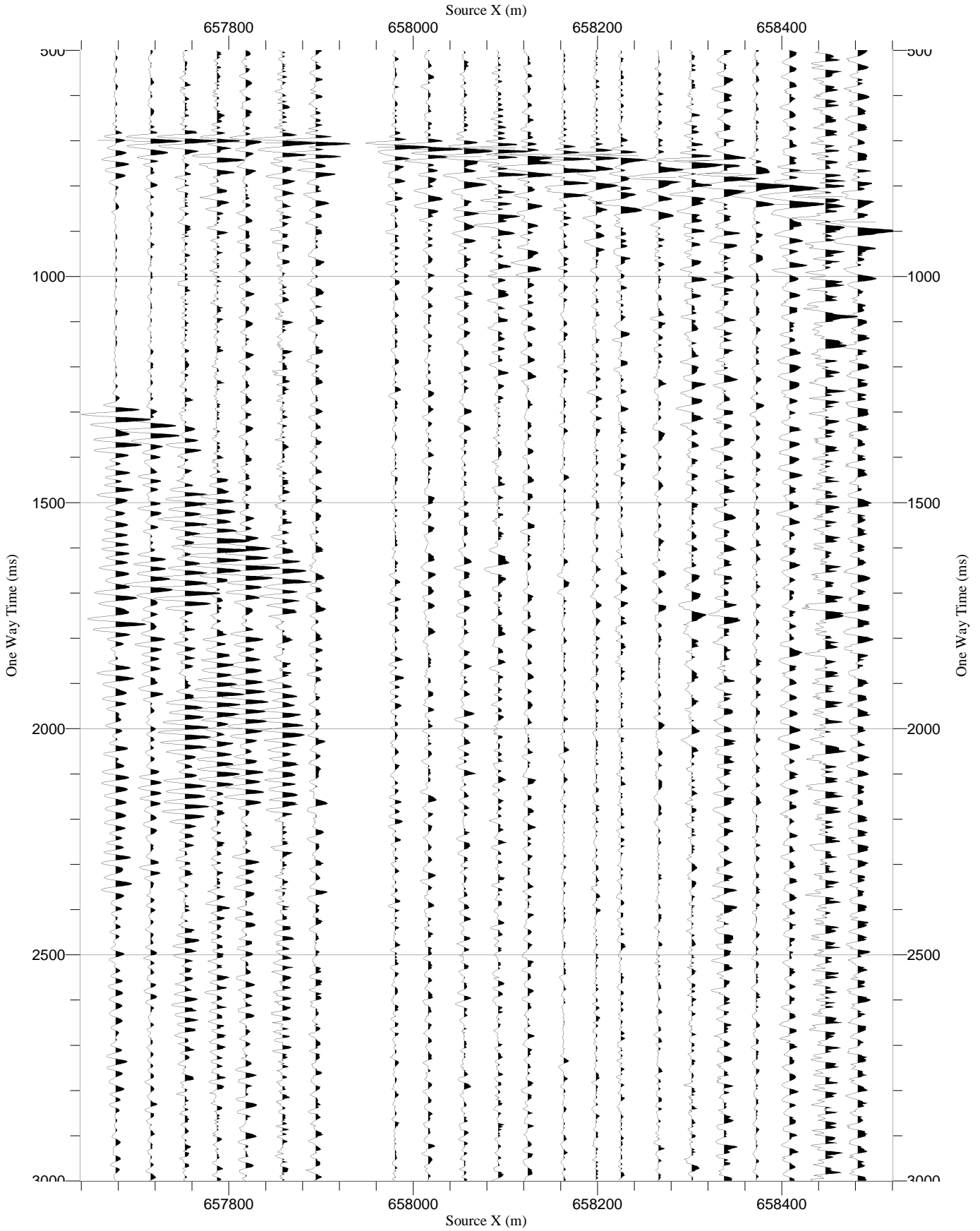
| | | |
|---------------------|---|---|
| RawStack Z-S2 VSI-8 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|




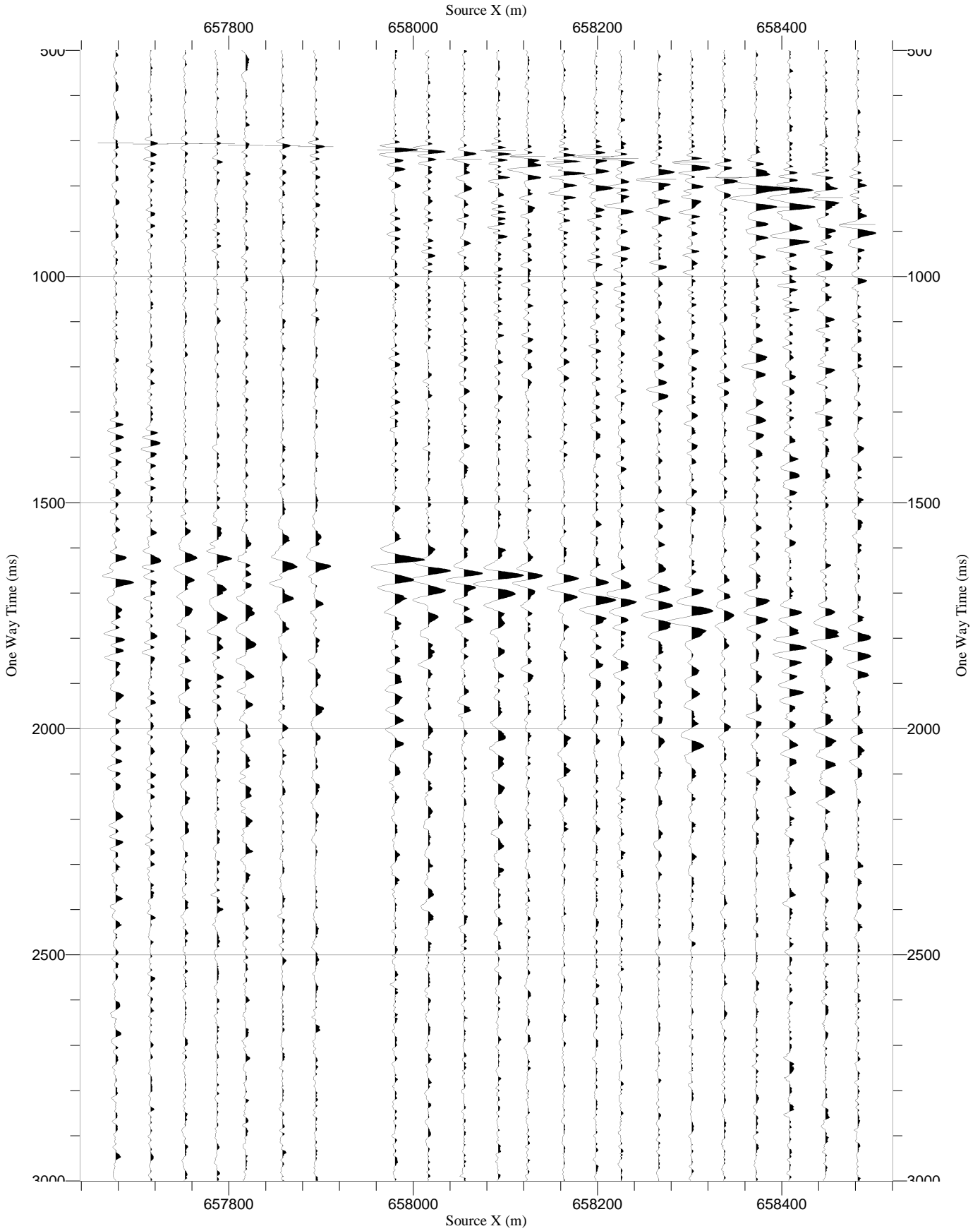
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| RawStack Y-S2 VSI-8 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|




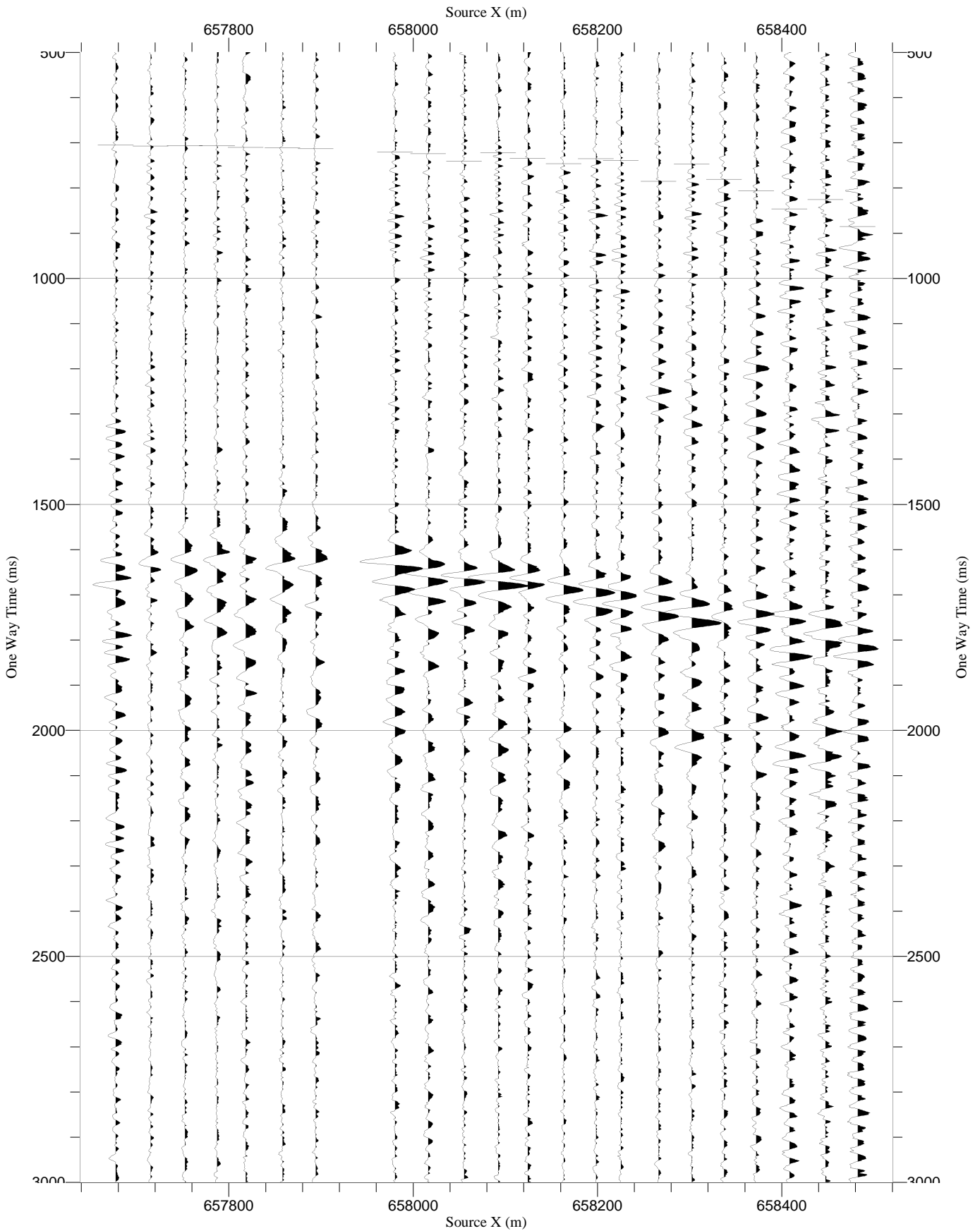
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| RawStack X-S2 VSI-6 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|



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| RawStack HMX-S2 VSI-8 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|




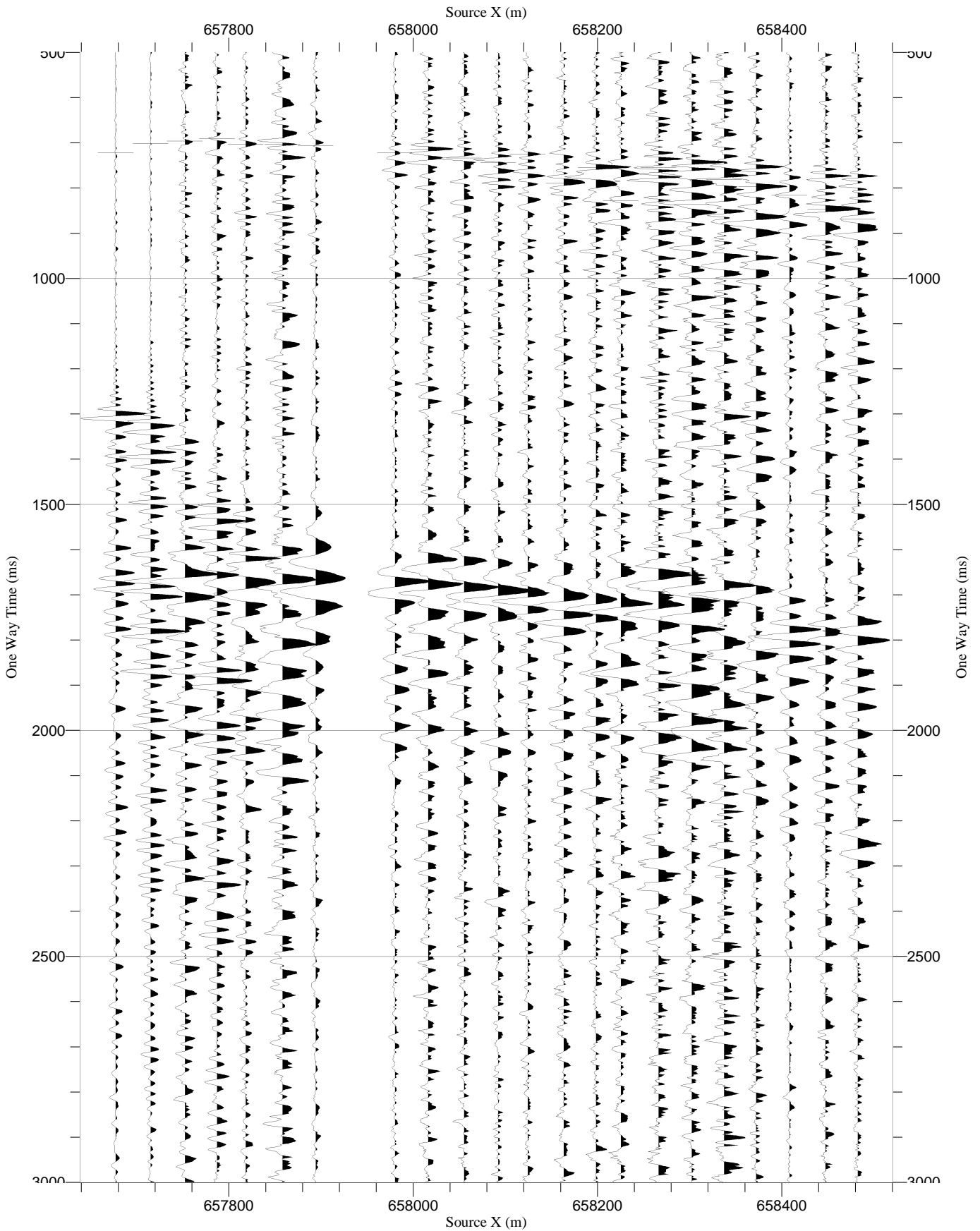
| | | |
|-----------------------|--|---|
| RawStack NRY-S2 VSI-8 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|




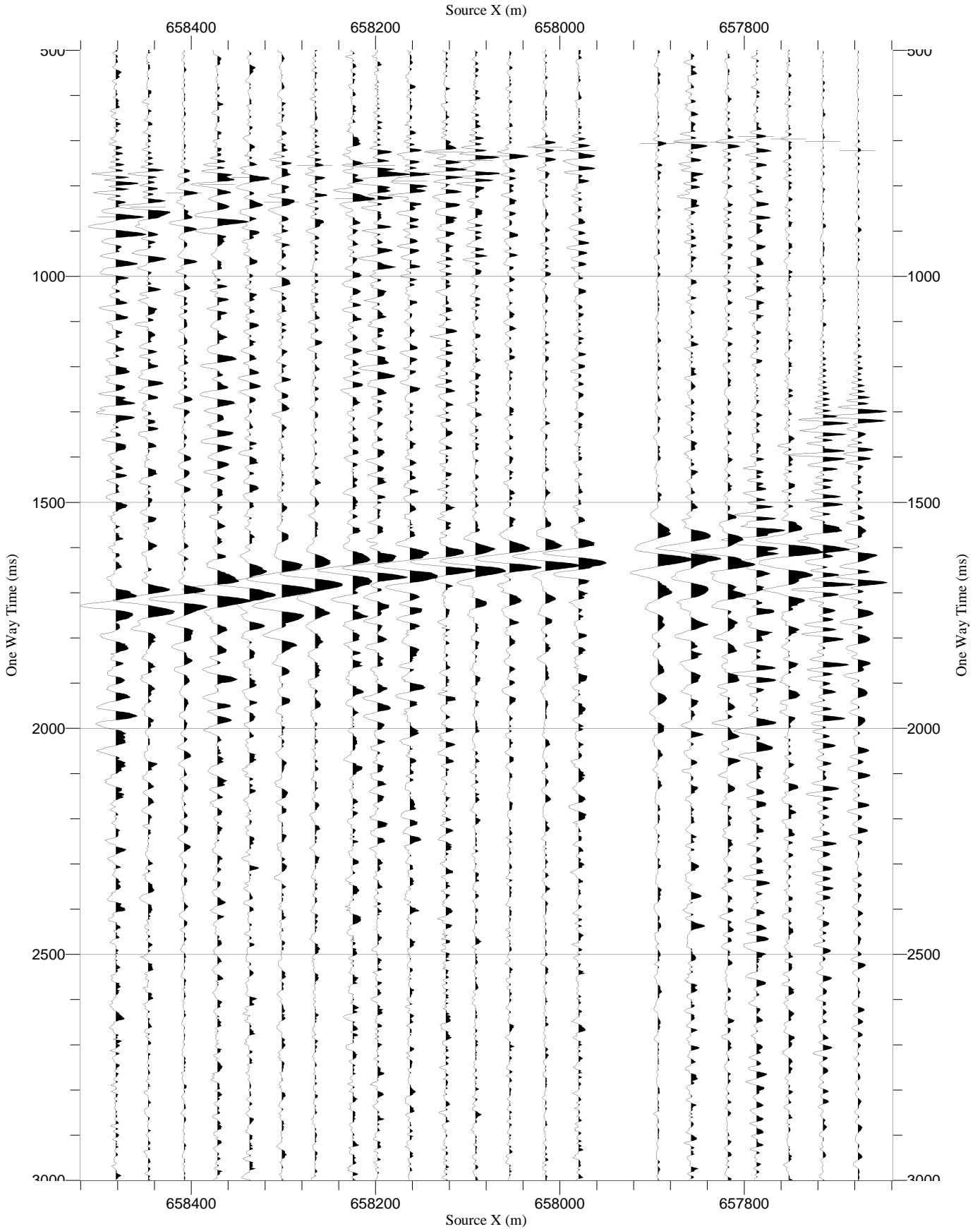
VSI-5


(1770 m receiver gather WVSP Inline-S wave Line-A)

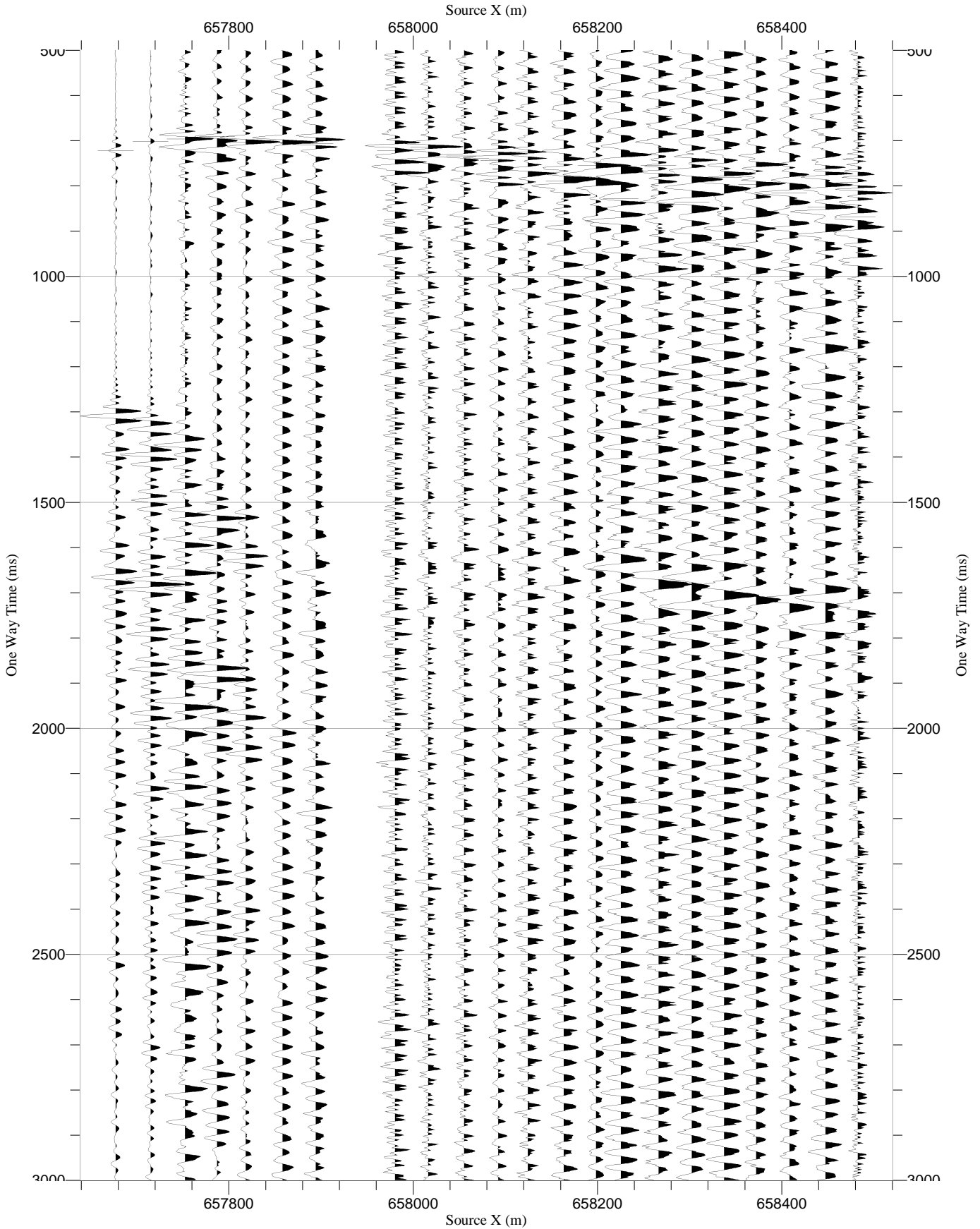
| | | |
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| RawStack Z-S1 VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|




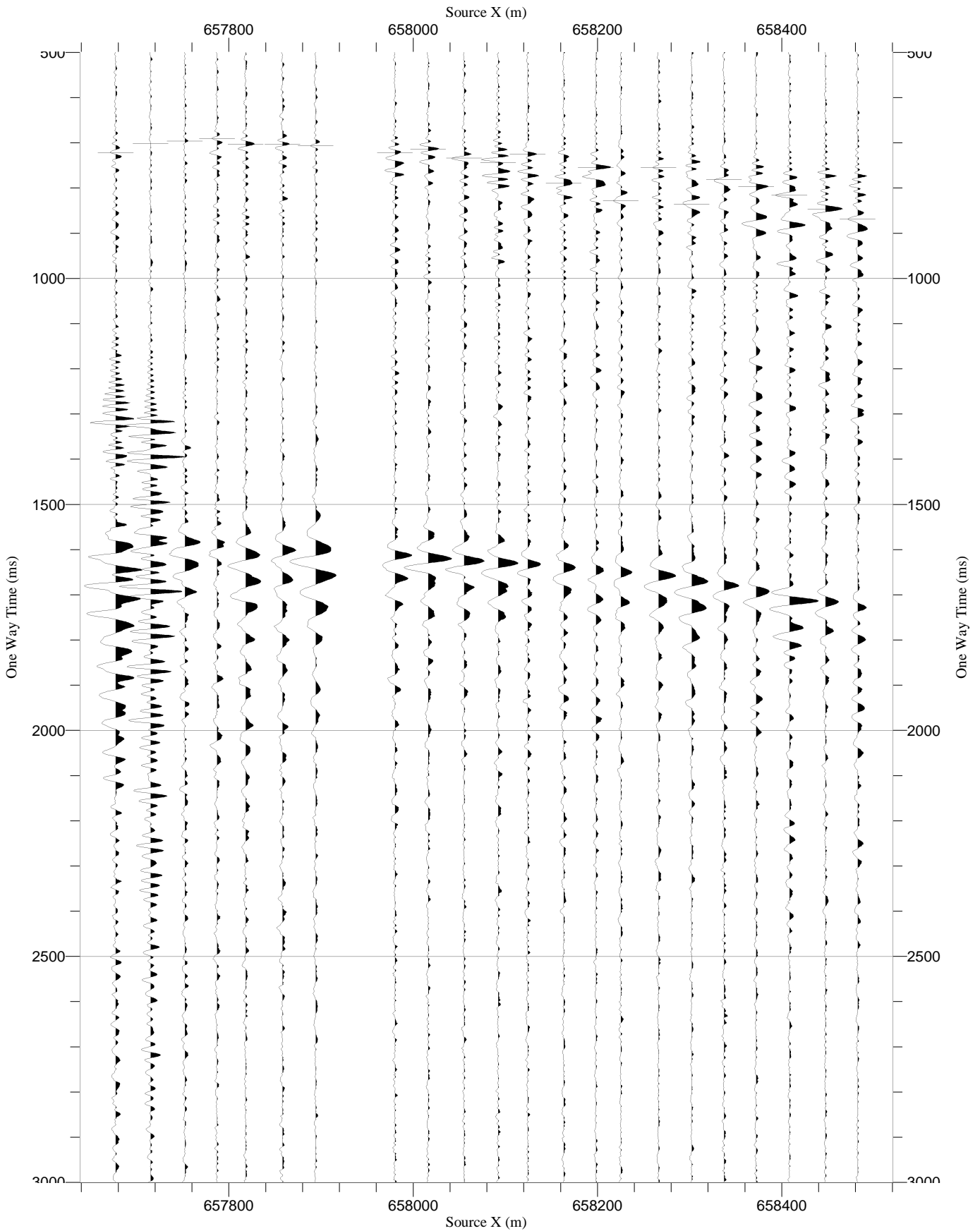
| | | |
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| RawStack Y-S1 VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|




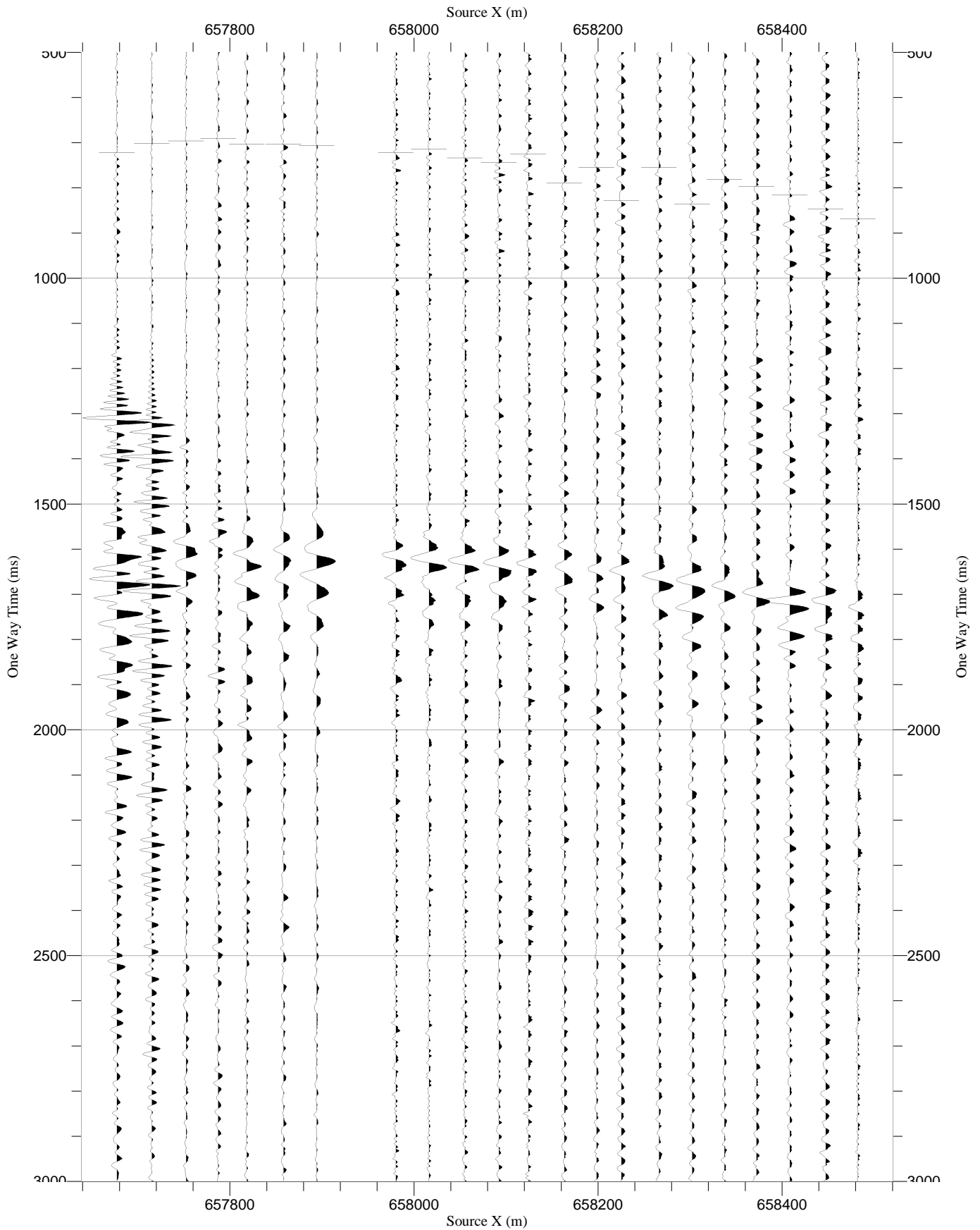
| | | |
|---------------------|---|---|
| RawStack X-S1 VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|



| | | |
|-----------------------|--|---|
| RawStack HMX-S1 VSI-5 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|




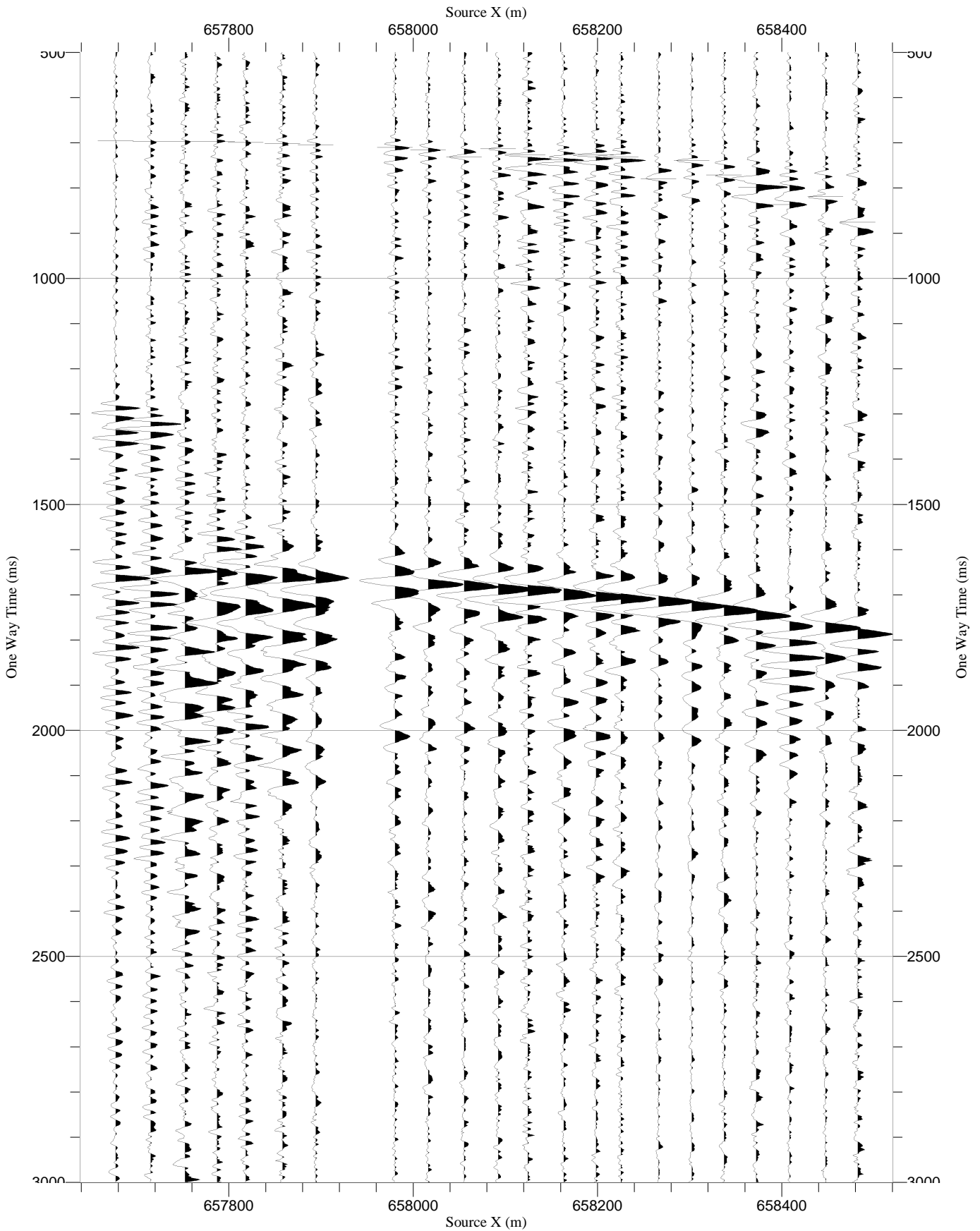
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|-----------------------|--|---|
| RawStack NRY-S1 VSI-5 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|




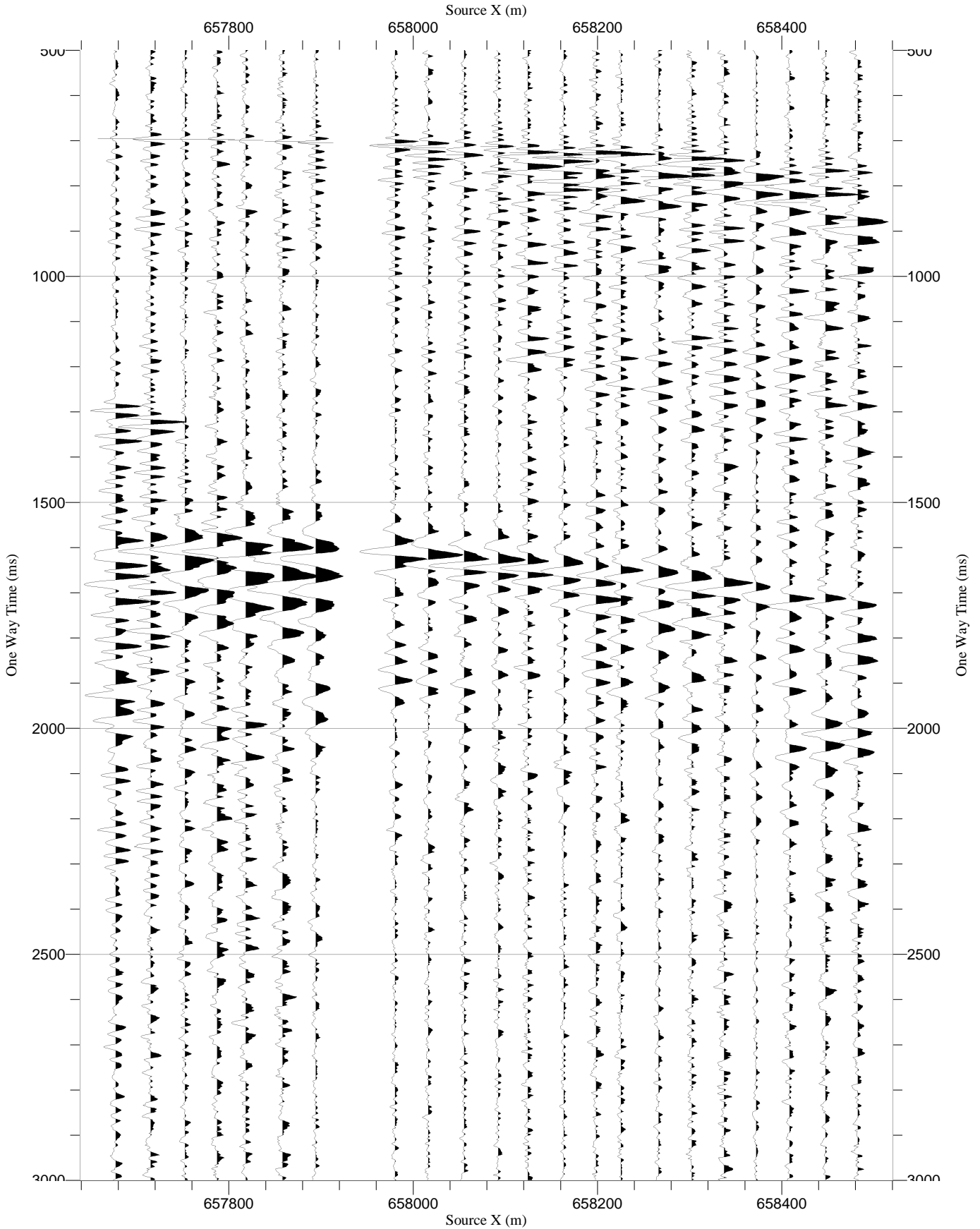
VSI-5

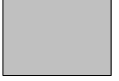
(1770 m receiver gather WVSP Crossline-S wave Line-A)

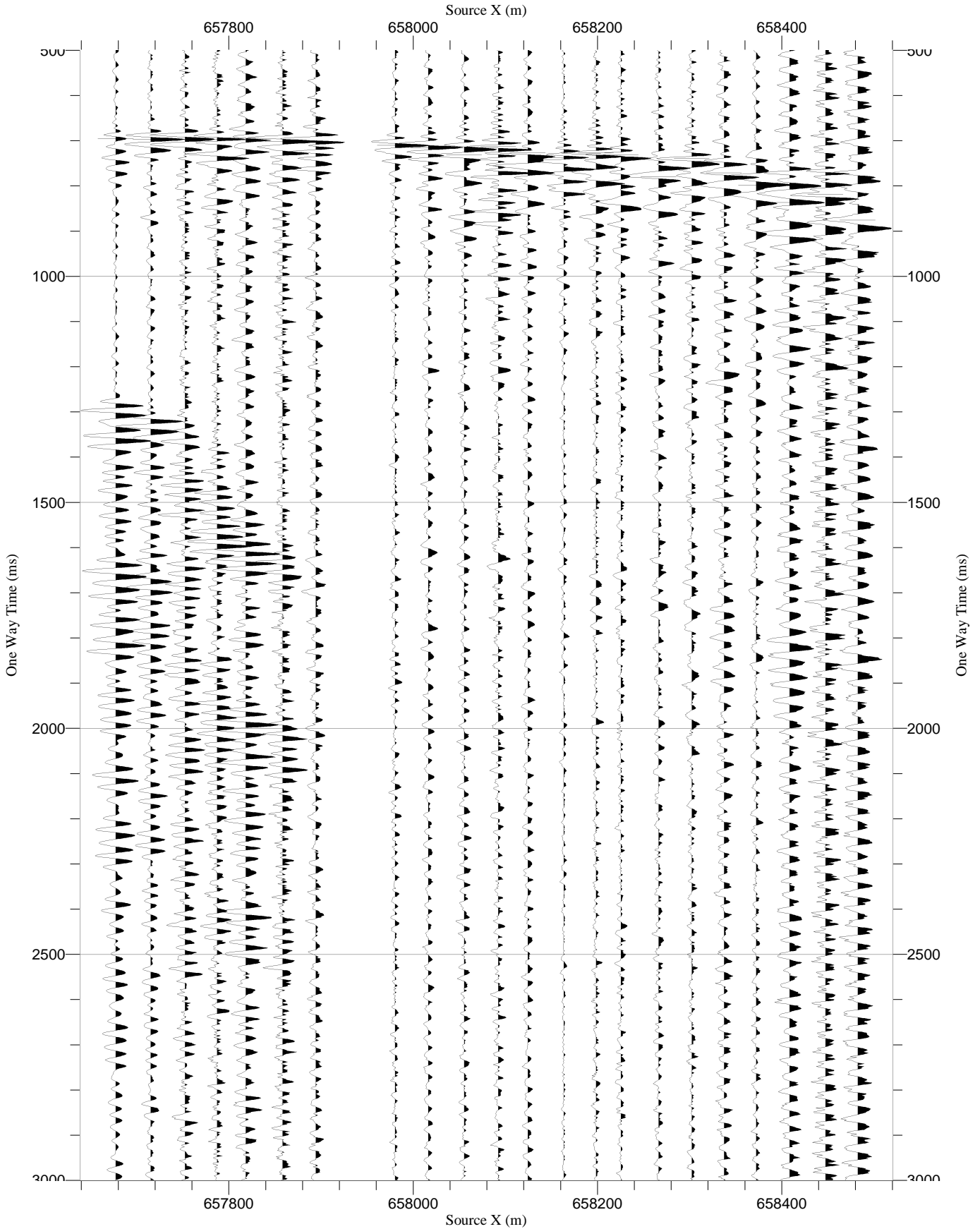
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|---------------------|---|---|
| RawStack Z-S2 VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|




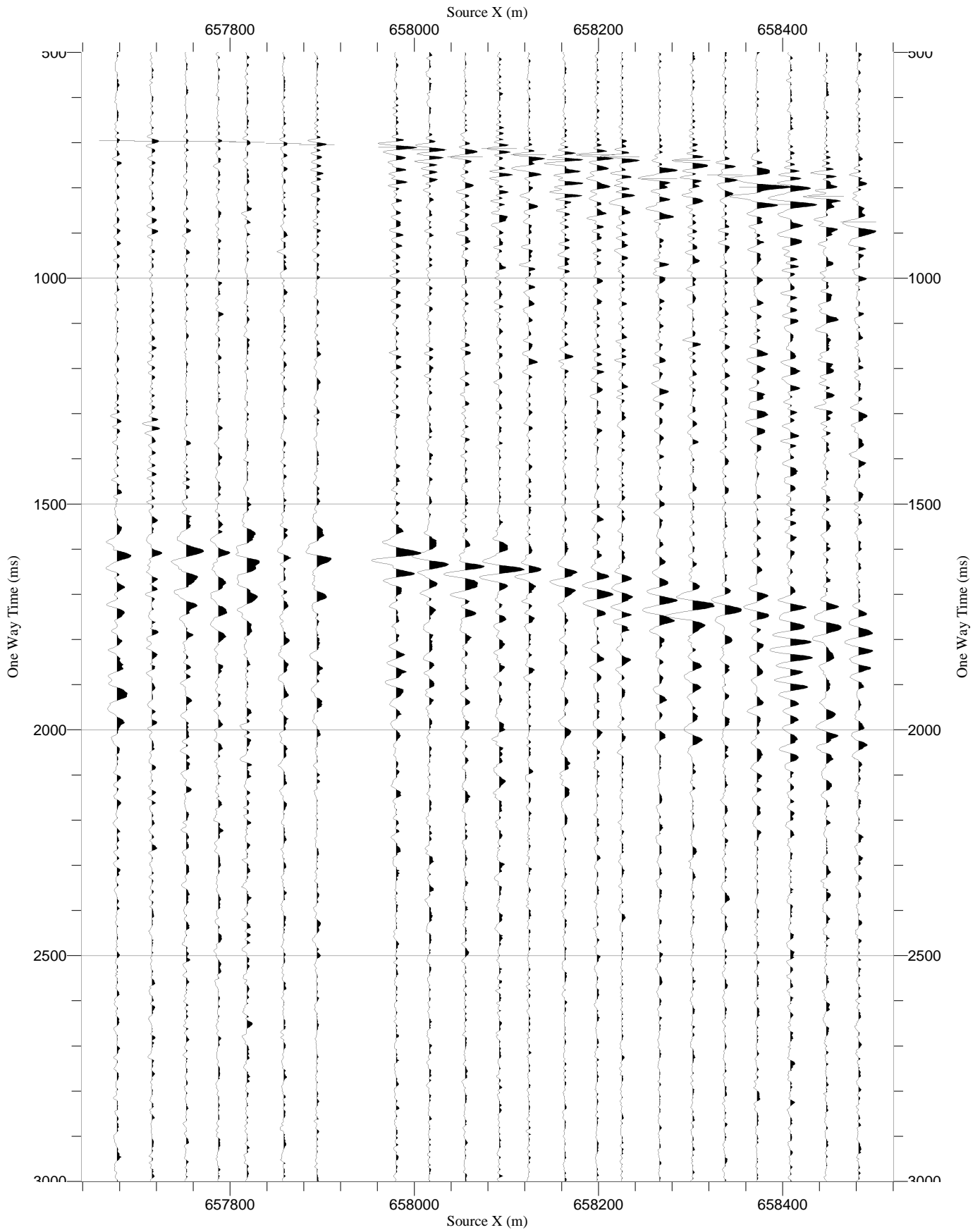
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| RawStack Y-S2 VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
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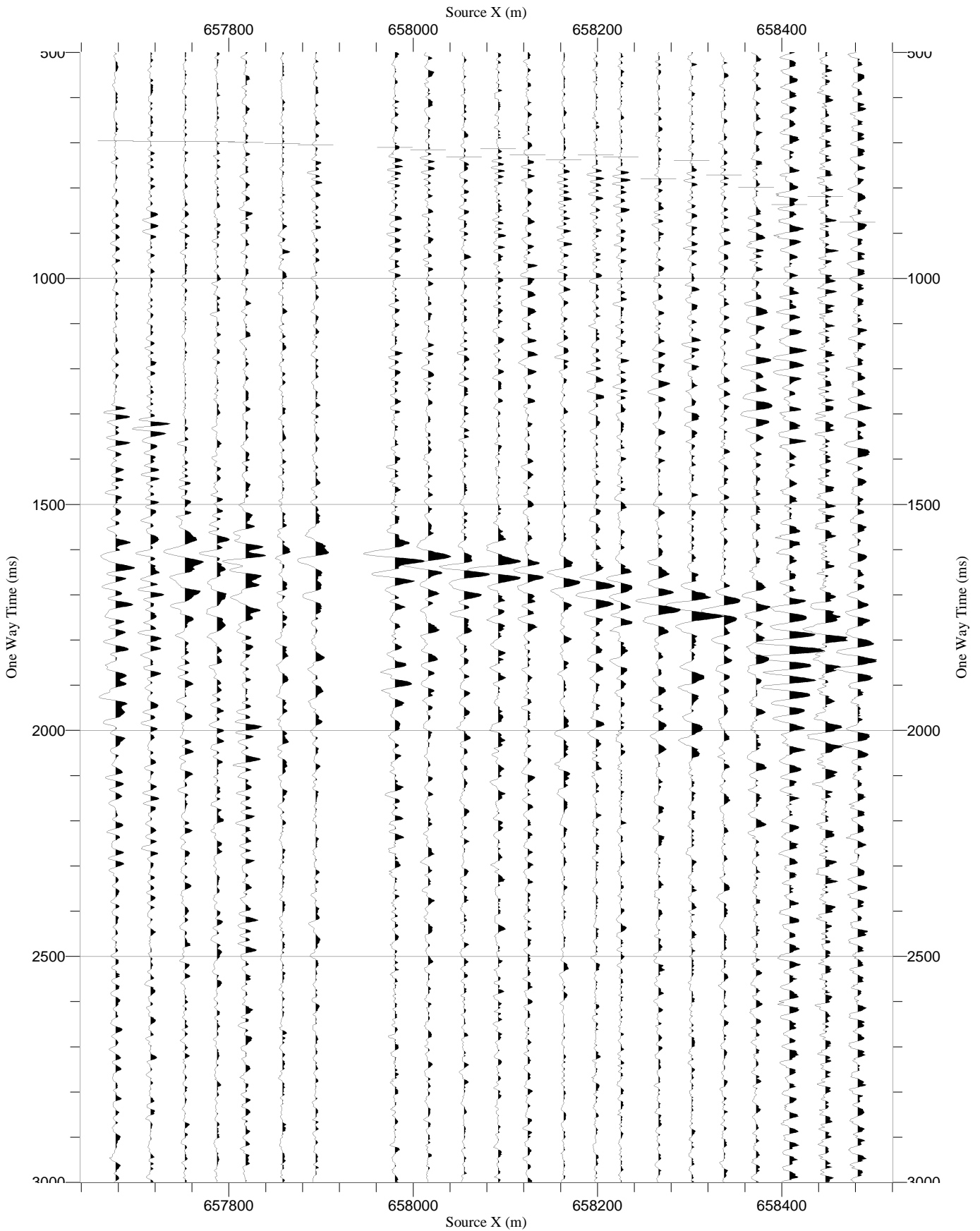
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|---------------------|---|---|
| RawStack X-S2 VSI-5 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
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| RawStack HMX-S2 VSI-5 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
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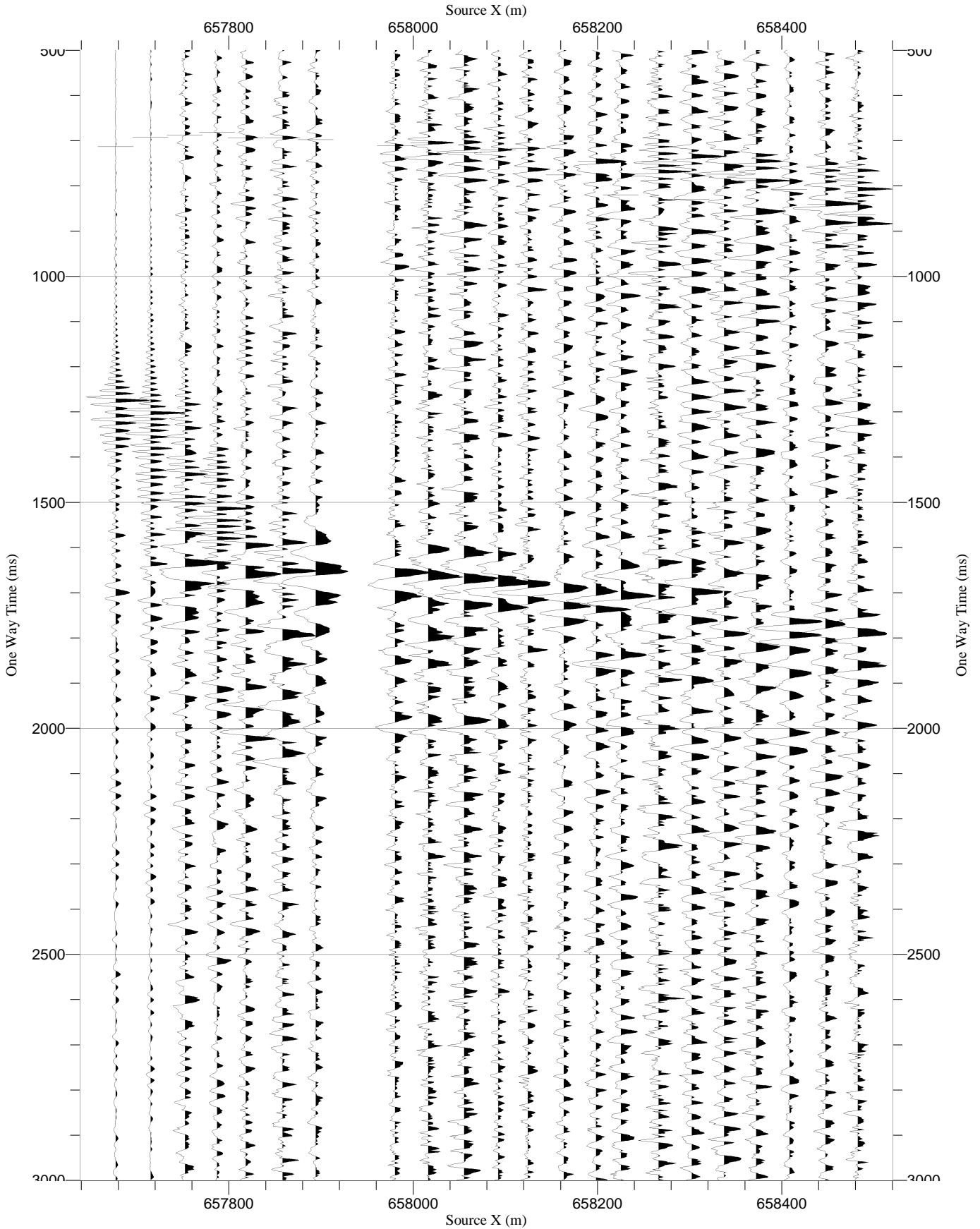
| | | |
|-----------------------|--|---|
| RawStack NRY-S2 VSI-5 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|

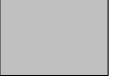


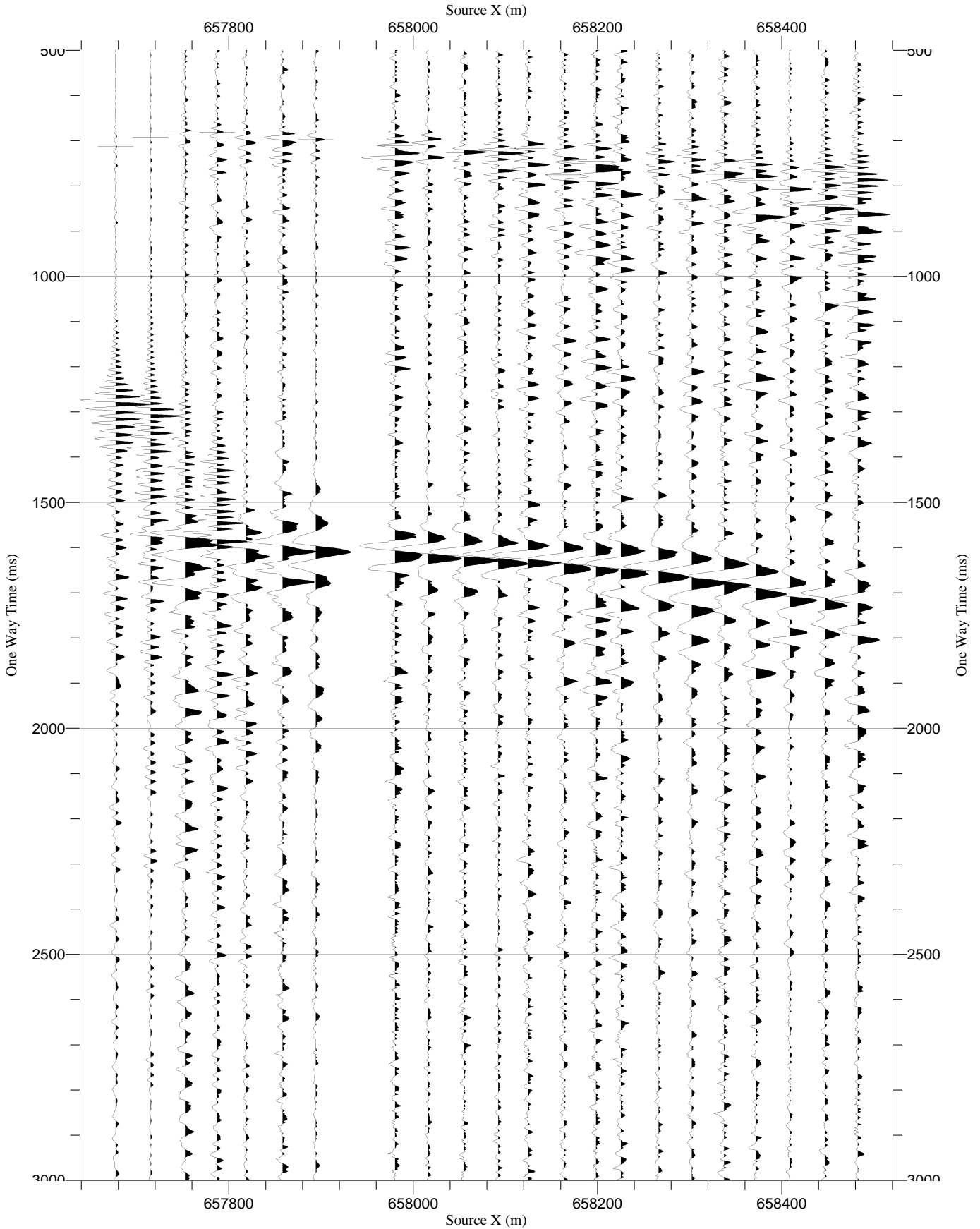
VSI-2


(1740 m receiver gather WVSP InLine-S Line-A)

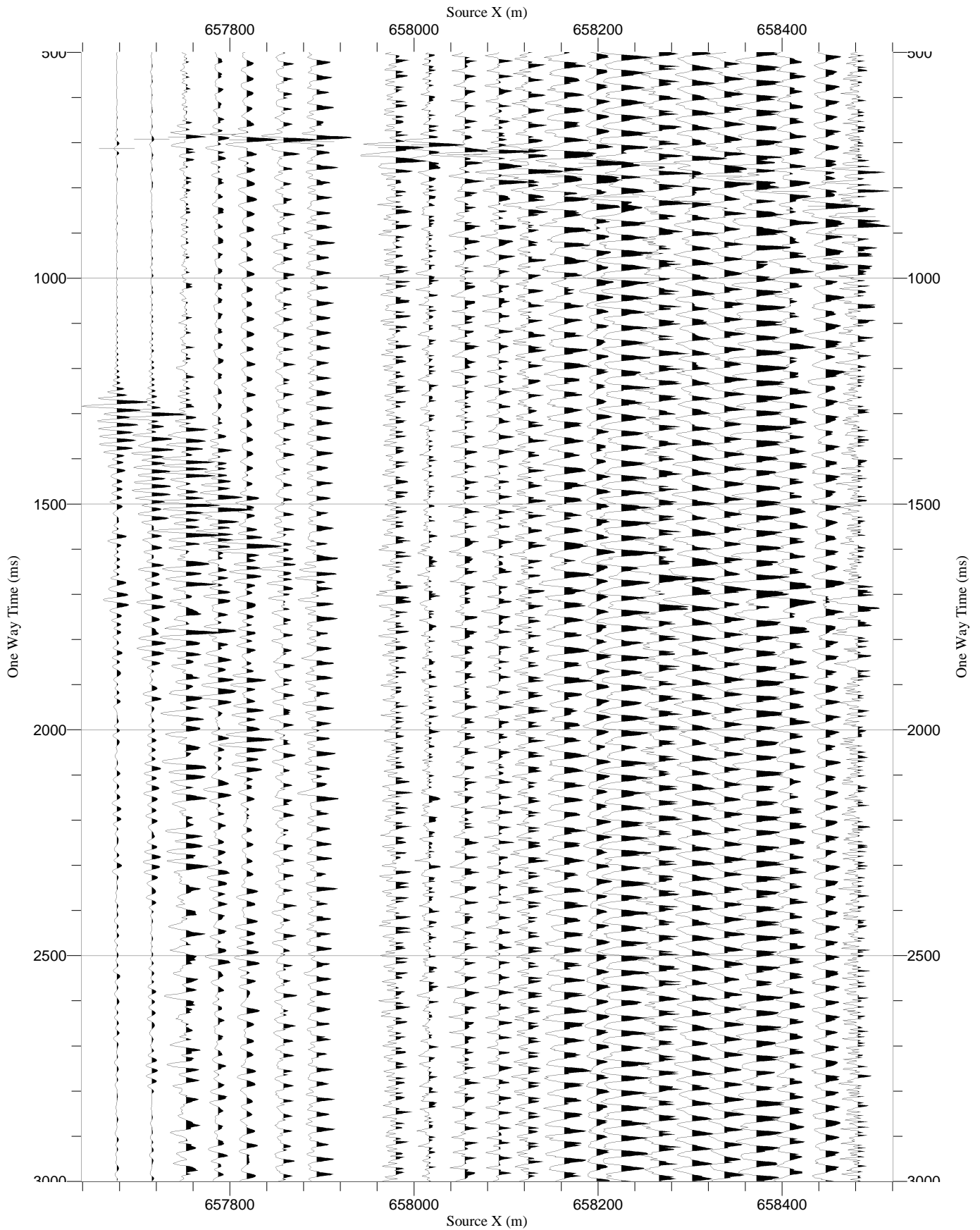
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| RawStack Z-S1 VSI-2 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
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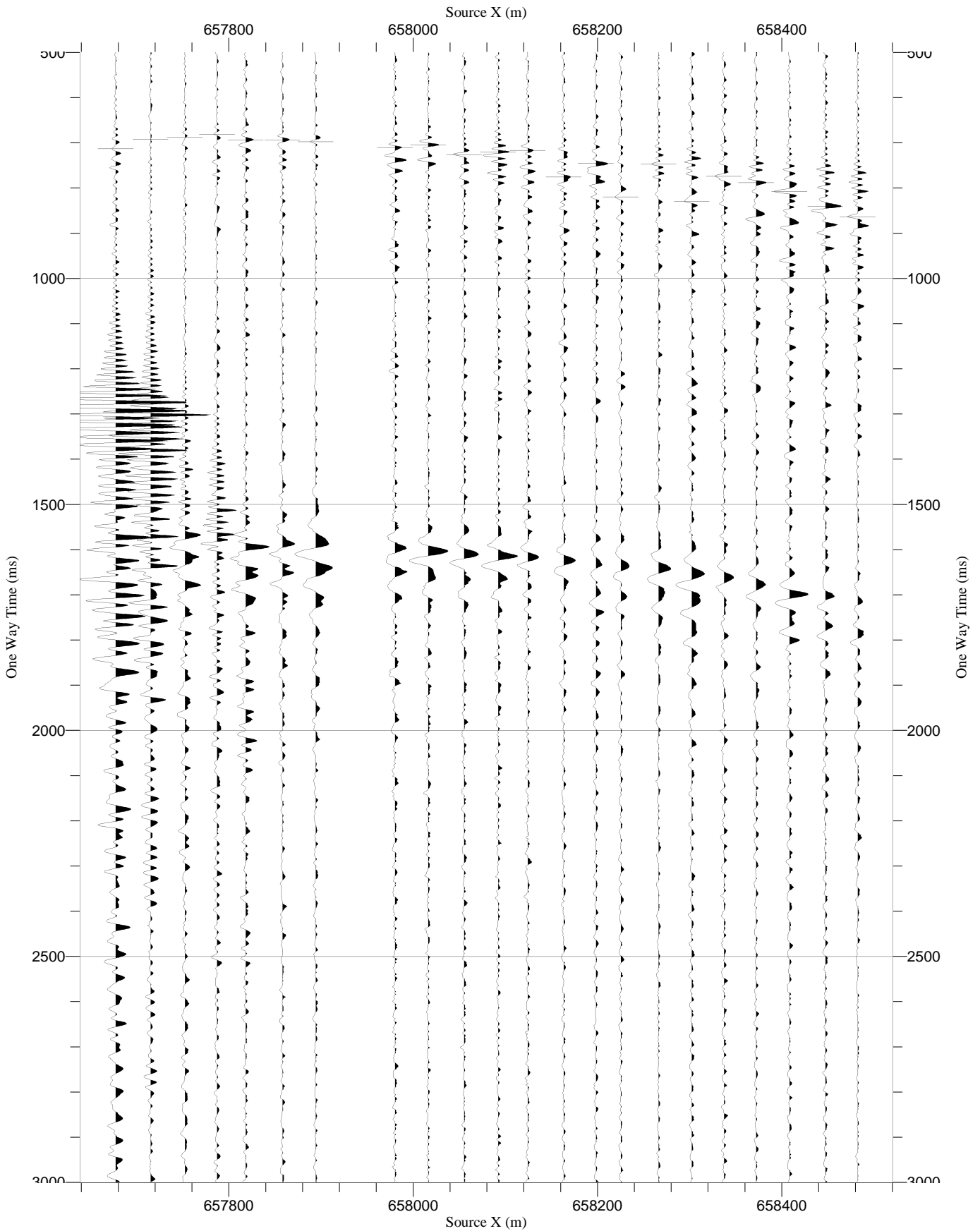
| | | |
|---------------------|---|---|
| RawStack Y-S1 VSI-2 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|

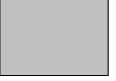


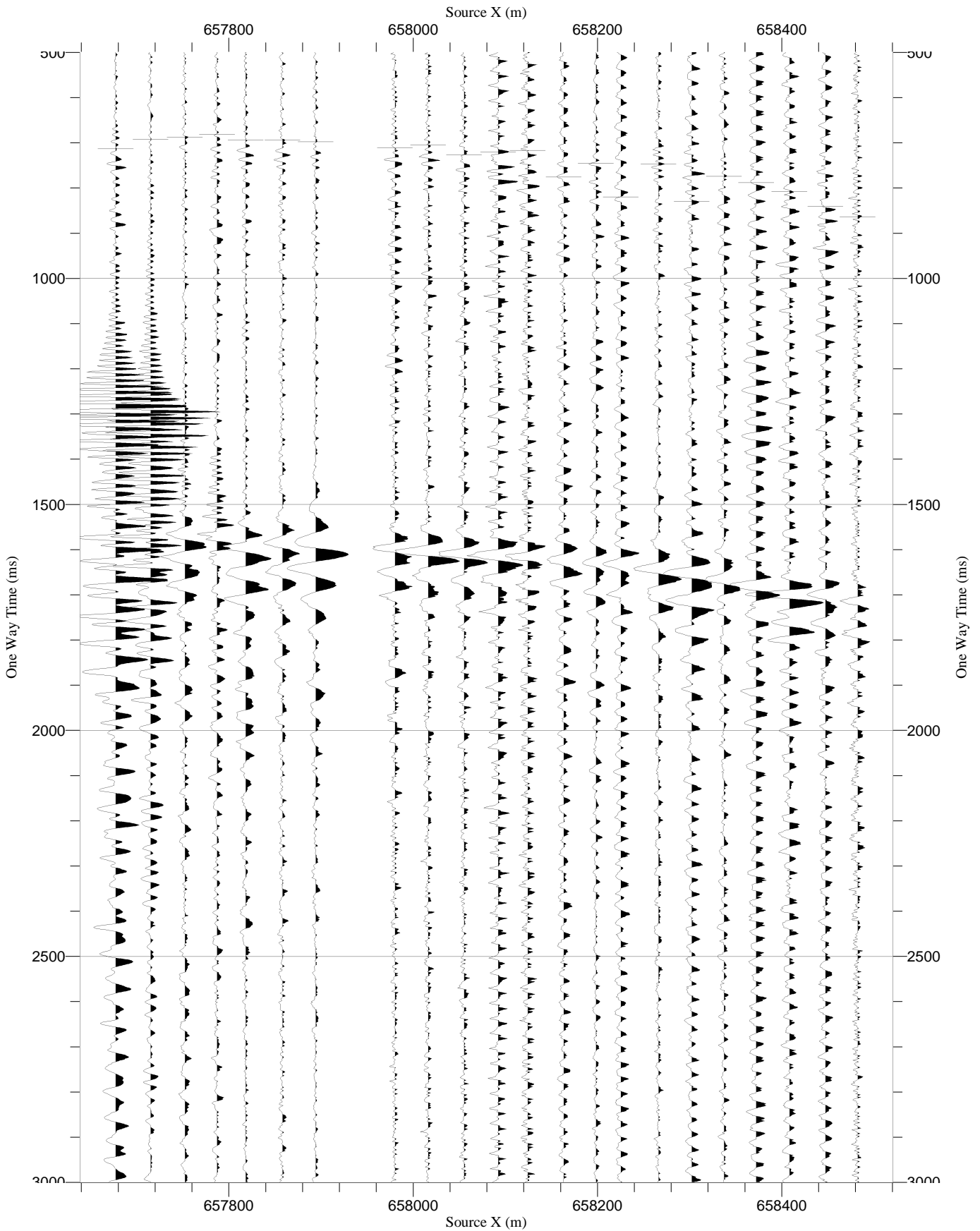
| | | |
|---------------------|---|---|
| RawStack X-S1 VSI-2 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|



| | | |
|-----------------------|--|---|
| RawStack HMX-S1 VSI-2 | Normalization Largest Trace in Gather (250%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|




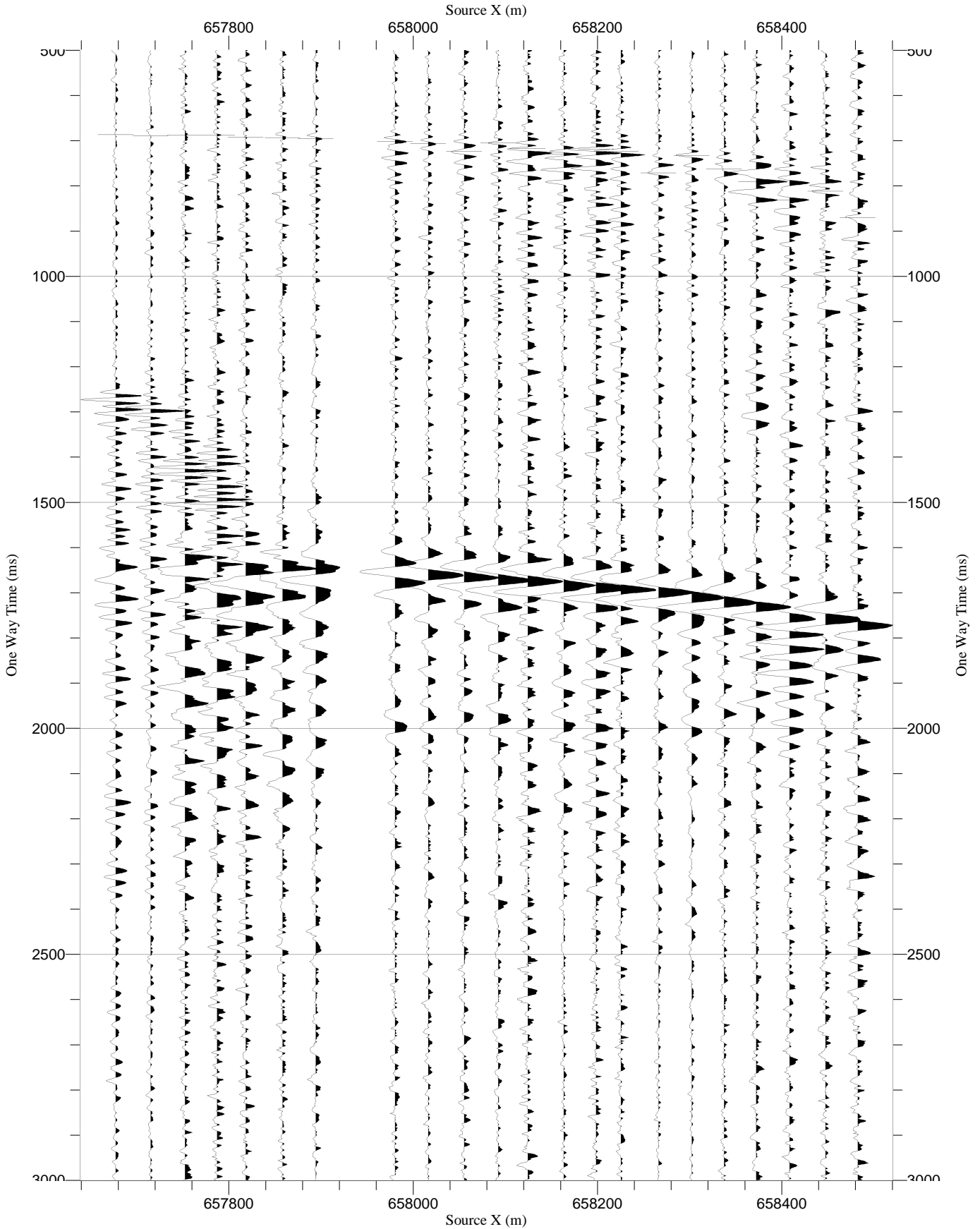
| | | |
|-----------------------|--|---|
| RawStack NRY-S1 VSI-2 | Normalization Largest Trace in Gather (250%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|

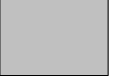


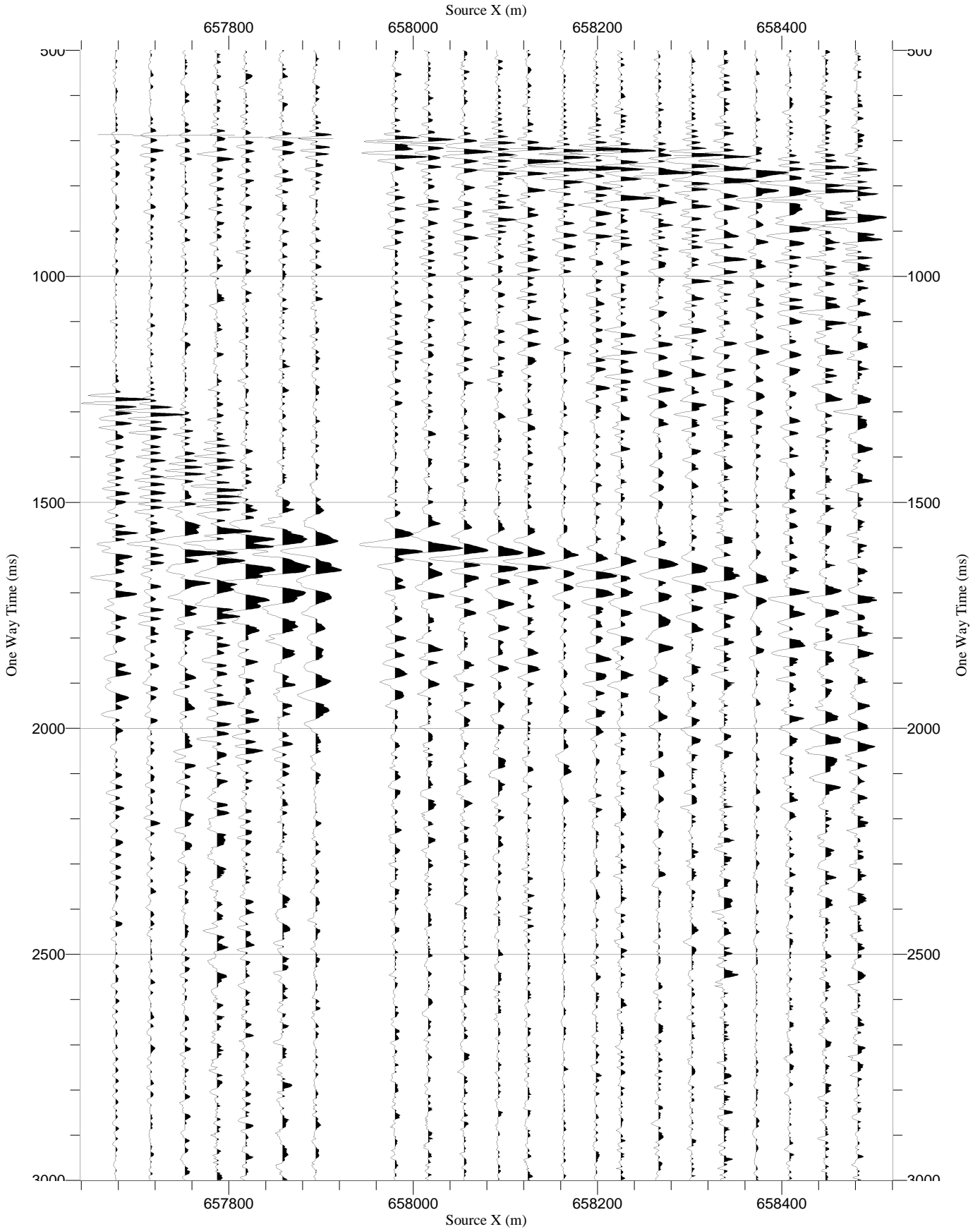
VSI-2


(1740 m receiver gather WVSP CrossLine-S Line-A)

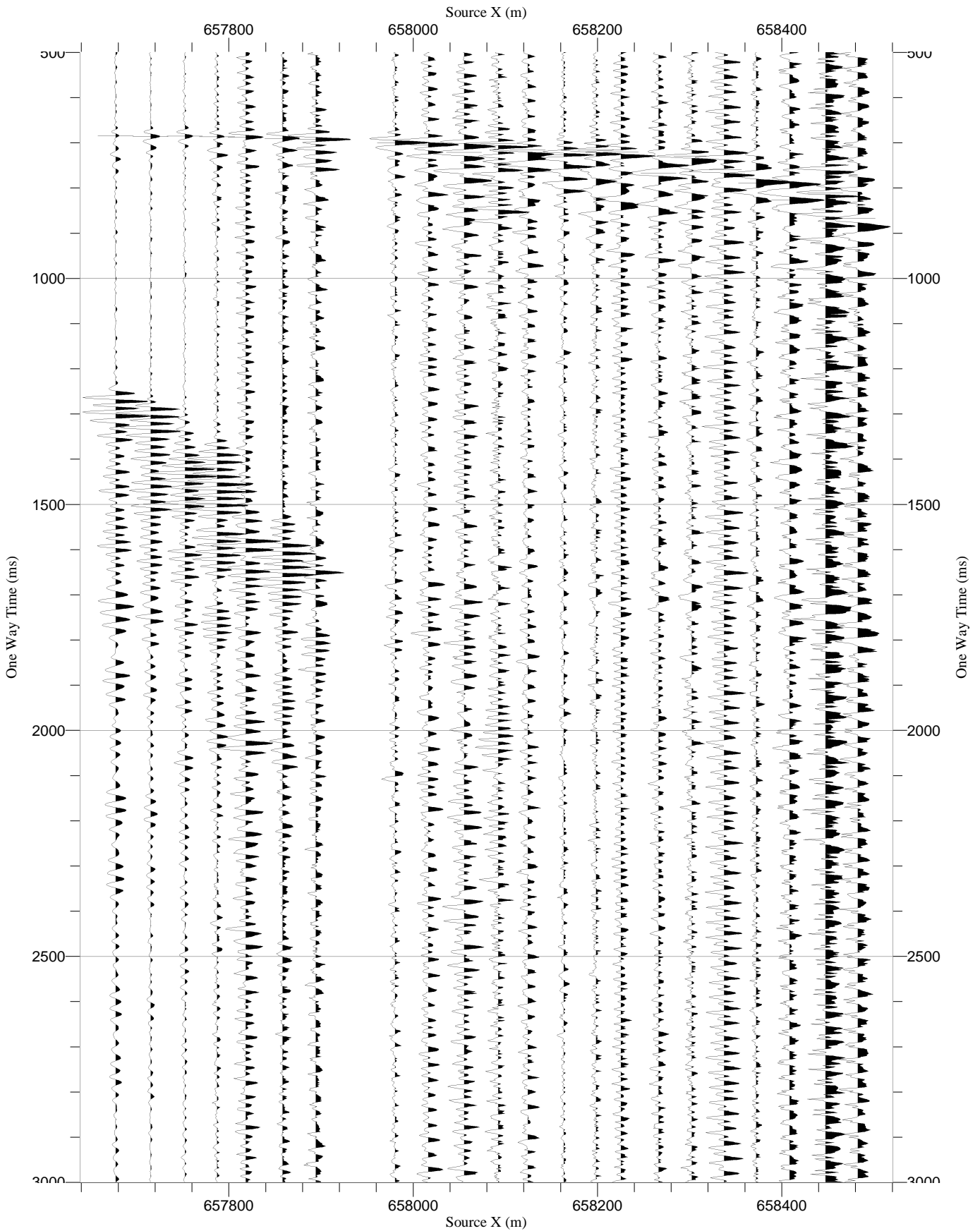
| | | |
|---------------------|---|---|
| RawStack Z-S2 VSI-2 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|




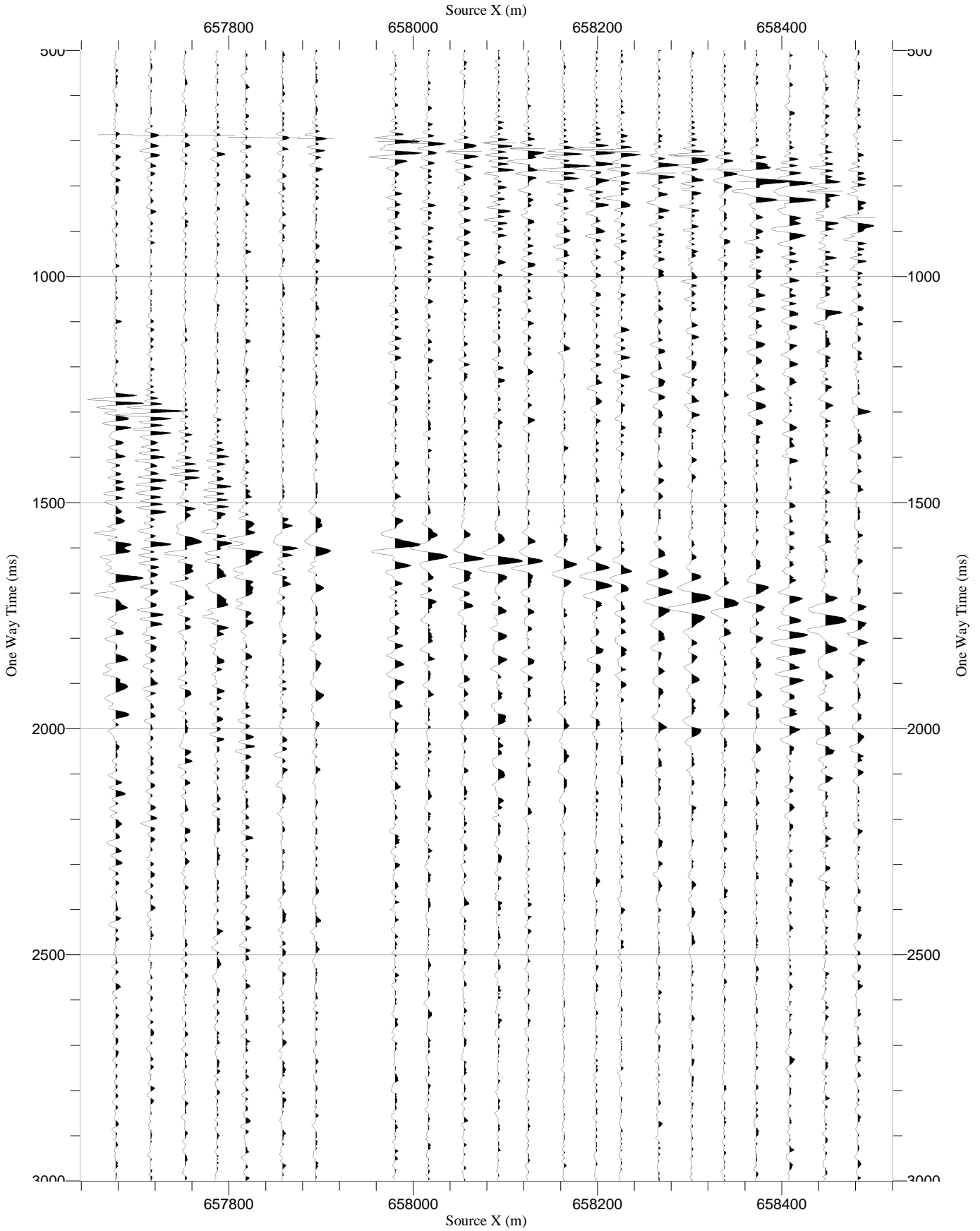
| | | |
|---------------------|---|---|
| RawStack Y-S2 VSI-2 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|

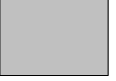


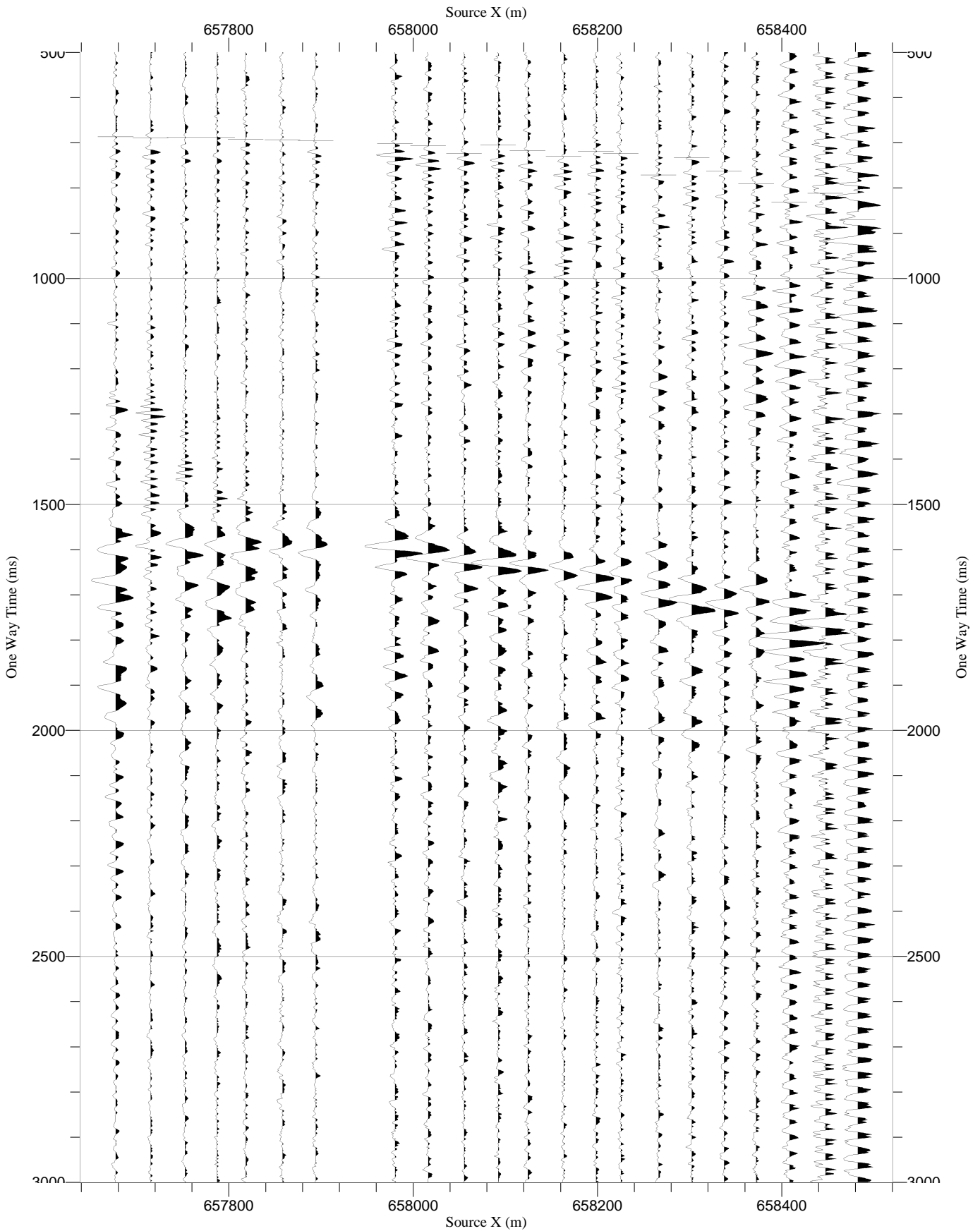
| | | |
|---------------------|---|---|
| RawStack X-S2 VSI-1 | Normalization Trace by Trace (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|---------------------|---|---|



| | | |
|-----------------------|--|---|
| RawStack HMX-S2 VSI-2 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|



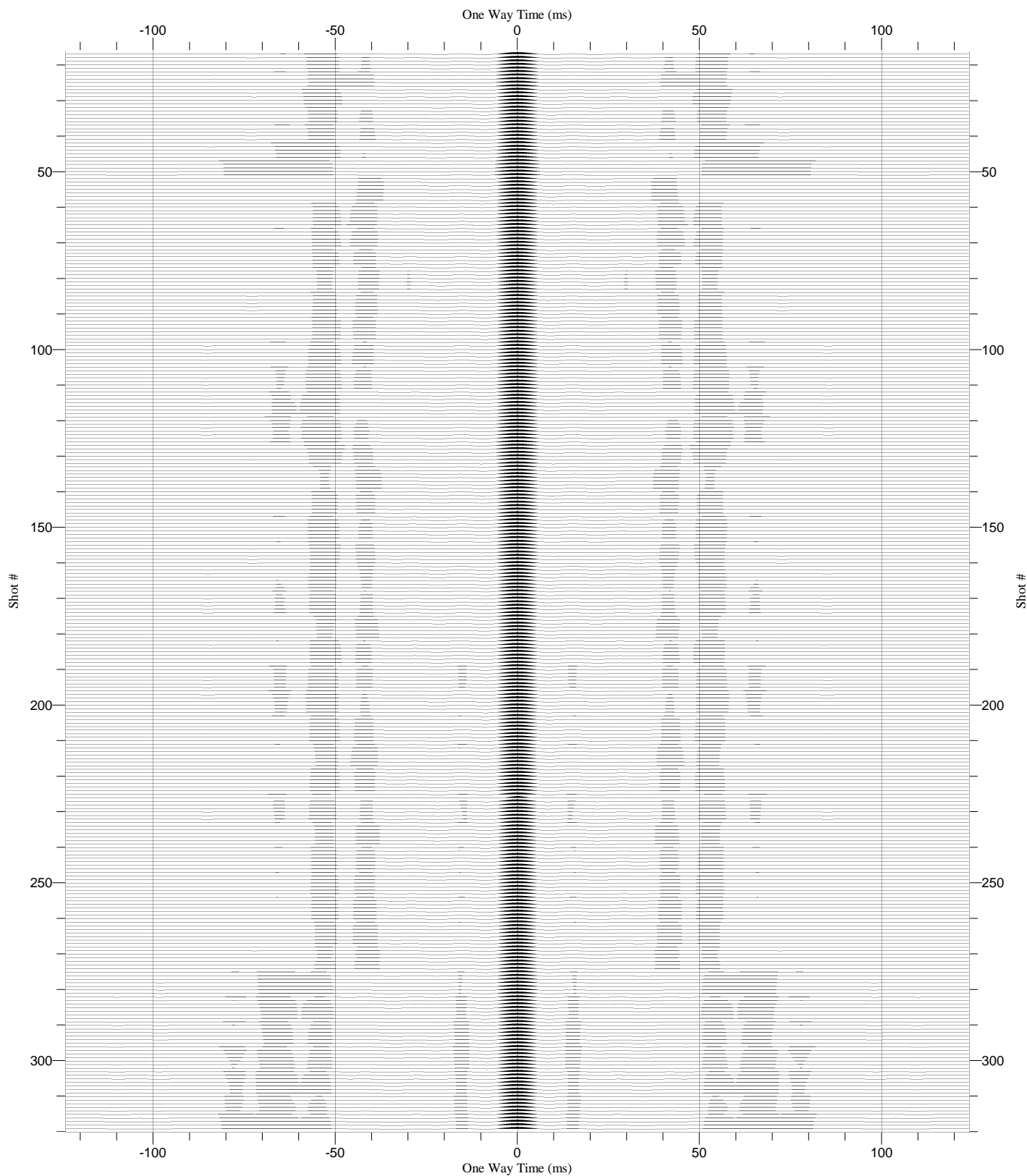
| | | |
|-----------------------|--|---|
| RawStack NRY-S2 VSI-2 | Normalization Largest Trace in Gather (100%) Polarity Normal One Way Time (ms) Scaling 8.5 cm/sec, 1/5790 |  |
|-----------------------|--|---|



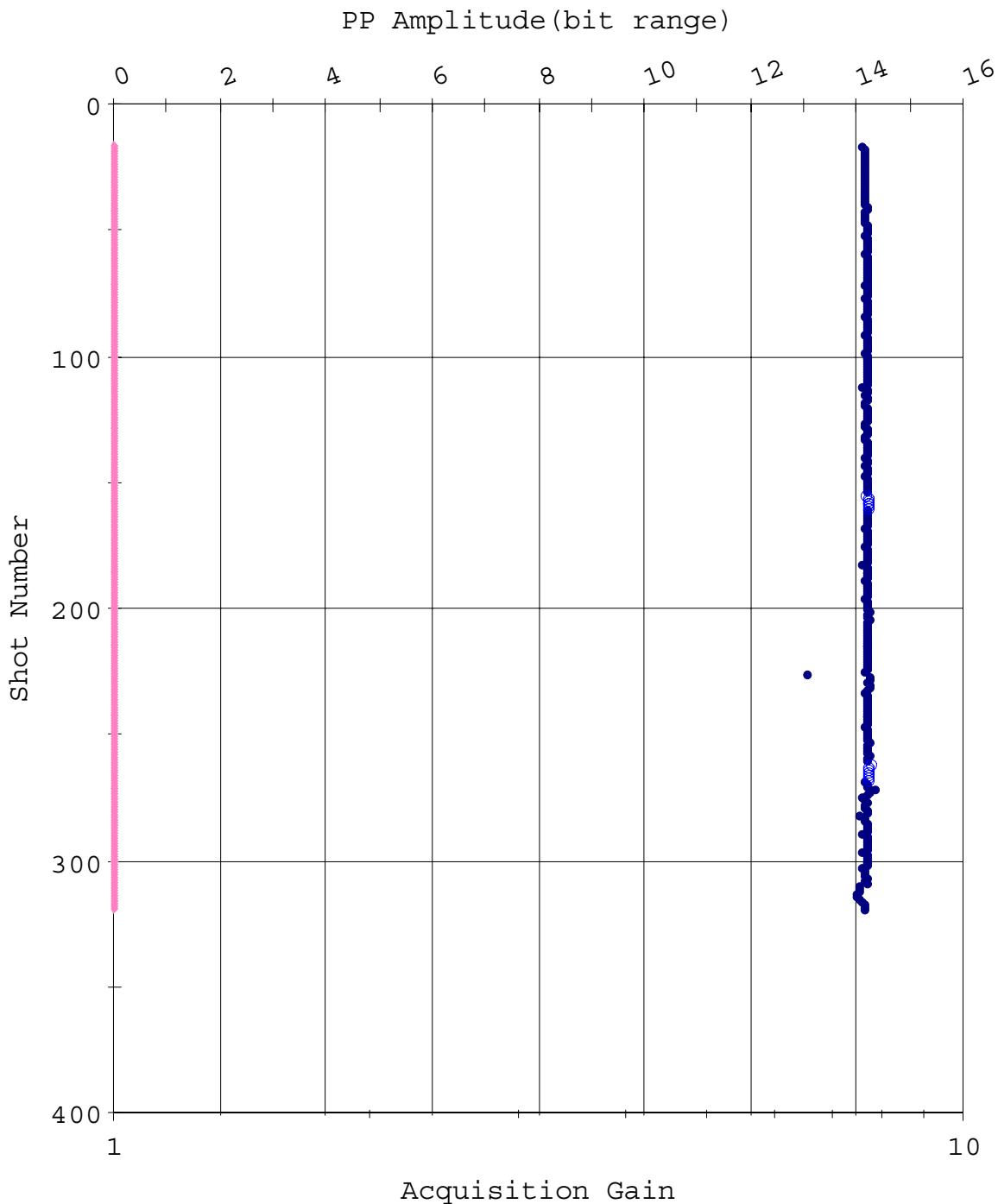
Source Signature QC Report WVSP S-wave Line-A

Source Sensor Signature

Normalization Trace by Trace (50%)
Polarity Normal
One Way Time (ms)
Scaling 66.57 cm/sec, 15.39/cm



Amplitude QC Plot (Surface)



- PP Amplitude (bit range) accepted for stack
- PP Amplitude (bit range) rejected
- ◆ Acquisition Gain

Shot and Observer Report WVSP S-wave Line-A

Observer's Note (1/6)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|-------------------------------------|
| 1800.0 | 06:08:22 | SHAK | 1 | | | |
| 1800.0 | 06:09:02 | BKGD | 2 | | | |
| 1800.0 | 06:10:05 | ENLO | 3 | | | |
| 1800.0 | 06:10:46 | ENHI | 4 | | | |
| 1800.0 | 06:11:11 | ETHD | 5 | | | |
| 1800.0 | 06:11:43 | DRNG | 6 | | | |
| 1800.0 | 06:12:14 | GA02 | 7 | | | |
| 1800.0 | 06:12:30 | GA04 | 8 | | | |
| 1800.0 | 06:12:47 | GA08 | 9 | | | |
| 1800.0 | 06:13:03 | GA16 | 10 | | | |
| 1800.0 | 06:13:19 | GA32 | 11 | | | |
| 1800.0 | 06:13:51 | XTLK | 12 | | | |
| 1800.0 | 06:14:28 | XTLK | 13 | | | |
| 1800.0 | 06:15:05 | XTLK | 14 | | | |
| 1800.0 | 06:15:40 | EIMP | 15 | | | |
| 1800.0 | 06:16:58 | SHOT | 17 | 1 | 1 | inline s 2002 |
| 1800.0 | 06:18:28 | SHOT | 18 | 1 | 1 | |
| 1800.0 | 06:19:16 | SHOT | 19 | 1 | 1 | |
| 1800.0 | 06:20:00 | SHOT | 20 | 1 | 1 | |
| 1800.0 | 06:20:52 | SHOT | 21 | 1 | 1 | |
| 1800.0 | 06:23:47 | SHOT | 22 | 2 | 1 | S1 s 2004 |
| 1800.0 | 06:24:31 | SHOT | 23 | 2 | 1 | |
| 1800.0 | 06:25:14 | SHOT | 24 | 2 | 1 | |
| 1800.0 | 06:27:23 | SHOT | 25 | 2 | 1 | |
| 1800.0 | 06:28:01 | SHOT | 26 | 2 | 1 | |
| 1800.0 | 06:30:12 | SHOT | 27 | 3 | 1 | S1 20055 |
| 1800.0 | 06:30:58 | SHOT | 28 | 3 | 1 | |
| 1800.0 | 06:31:37 | SHOT | 29 | 3 | 1 | |
| 1800.0 | 06:32:14 | SHOT | 30 | 3 | 1 | |
| 1800.0 | 06:32:54 | SHOT | 31 | 3 | 1 | |
| 1800.0 | 06:34:25 | SHOT | 32 | 4 | 1 | S1 2007 |
| 1800.0 | 06:35:12 | SHOT | 33 | 4 | 1 | |
| 1800.0 | 06:35:48 | SHOT | 34 | 4 | 1 | |
| 1800.0 | 06:36:28 | SHOT | 35 | 4 | 1 | |
| 1800.0 | 06:37:07 | SHOT | 36 | 4 | 1 | |
| 1800.0 | 06:38:31 | SHOT | 37 | 5 | 1 | S1 2009 |
| 1800.0 | 06:39:15 | SHOT | 38 | 5 | 1 | |
| 1800.0 | 06:39:51 | SHOT | 39 | 5 | 1 | |
| 1800.0 | 06:40:27 | SHOT | 40 | 5 | 1 | |
| 1800.0 | 06:41:03 | SHOT | 41 | 5 | 1 | |
| 1800.0 | 06:42:22 | SHOT | 42 | 6 | 1 | S1 2011 |
| 1800.0 | 06:42:59 | SHOT | 43 | 6 | 1 | |
| 1800.0 | 06:43:35 | SHOT | 44 | 6 | 1 | |
| 1800.0 | 06:44:11 | SHOT | 45 | 6 | 1 | |
| 1800.0 | 06:44:48 | SHOT | 46 | 6 | 1 | |
| 1800.0 | 06:46:07 | SHOT | 47 | 7 | 1 | s1 2013 |
| 1800.0 | 06:47:01 | SHOT | 48 | 7 | 1 | |
| 1800.0 | 06:47:38 | SHOT | 49 | 7 | 1 | |
| 1800.0 | 06:48:17 | SHOT | 50 | 7 | 1 | |
| 1800.0 | 06:48:54 | SHOT | 51 | 7 | 1 | |
| 1800.0 | 06:52:21 | SHOT | 52 | 8 | 1 | s1 2018 (10 deg off north in-line) |
| 1800.0 | 06:53:11 | SHOT | 53 | 8 | 1 | |
| 1800.0 | 06:53:52 | SHOT | 54 | 8 | 1 | |
| 1800.0 | 06:54:28 | SHOT | 55 | 8 | 1 | |
| 1800.0 | 06:55:05 | SHOT | 56 | 8 | 1 | |
| 1800.0 | 06:55:41 | SHOT | 57 | 8 | 1 | |
| 1800.0 | 06:56:31 | SHOT | 58 | 8 | 1 | |
| 1800.0 | 06:58:34 | SHOT | 59 | 9 | 1 | s1 2020 |
| 1800.0 | 06:59:12 | SHOT | 60 | 9 | 1 | |

Observer's Note (2/6)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|-------------------------------------|
| 1800.0 | 06:59:48 | SHOT | 61 | 9 | 1 | |
| 1800.0 | 07:00:24 | SHOT | 62 | 9 | 1 | |
| 1800.0 | 07:01:00 | SHOT | 63 | 9 | 1 | |
| 1800.0 | 07:01:35 | SHOT | 64 | 9 | 1 | |
| 1800.0 | 07:02:11 | SHOT | 65 | 9 | 1 | |
| 1800.0 | 07:03:28 | SHOT | 66 | 10 | 1 | S1 2022 (stamp as 2024) Pls reject |
| 1800.0 | 07:04:12 | SHOT | 67 | 11 | 1 | S1 2022 (correct stamp) |
| 1800.0 | 07:04:53 | SHOT | 68 | 11 | 1 | |
| 1800.0 | 07:05:34 | SHOT | 69 | 11 | 1 | |
| 1800.0 | 07:06:10 | SHOT | 70 | 11 | 1 | |
| 1800.0 | 07:06:47 | SHOT | 71 | 11 | 1 | |
| 1800.0 | 07:08:12 | SHOT | 72 | 12 | 1 | S1 2024 |
| 1800.0 | 07:08:48 | SHOT | 73 | 12 | 1 | |
| 1800.0 | 07:09:25 | SHOT | 74 | 12 | 1 | |
| 1800.0 | 07:10:02 | SHOT | 75 | 12 | 1 | |
| 1800.0 | 07:10:37 | SHOT | 76 | 12 | 1 | |
| 1800.0 | 07:11:56 | SHOT | 77 | 13 | 1 | S1 2026 |
| 1800.0 | 07:12:33 | SHOT | 78 | 13 | 1 | |
| 1800.0 | 07:13:10 | SHOT | 79 | 13 | 1 | |
| 1800.0 | 07:13:47 | SHOT | 80 | 13 | 1 | |
| 1800.0 | 07:14:23 | SHOT | 81 | 13 | 1 | |
| 1800.0 | 07:14:58 | SHOT | 82 | 13 | 1 | |
| 1800.0 | 07:15:35 | SHOT | 83 | 13 | 1 | |
| 1800.0 | 07:16:51 | SHOT | 84 | 14 | 1 | S1 2028 |
| 1800.0 | 07:17:34 | SHOT | 85 | 14 | 1 | |
| 1800.0 | 07:18:10 | SHOT | 86 | 14 | 1 | |
| 1800.0 | 07:18:47 | SHOT | 87 | 14 | 1 | |
| 1800.0 | 07:19:22 | SHOT | 88 | 14 | 1 | |
| 1800.0 | 07:19:58 | SHOT | 89 | 14 | 1 | |
| 1800.0 | 07:20:36 | SHOT | 90 | 14 | 1 | |
| 1800.0 | 07:22:02 | SHOT | 91 | 15 | 1 | S1 2030 |
| 1800.0 | 07:22:38 | SHOT | 92 | 15 | 1 | |
| 1800.0 | 07:23:14 | SHOT | 93 | 15 | 1 | |
| 1800.0 | 07:23:51 | SHOT | 94 | 15 | 1 | |
| 1800.0 | 07:24:28 | SHOT | 95 | 15 | 1 | |
| 1800.0 | 07:25:06 | SHOT | 96 | 15 | 1 | |
| 1800.0 | 07:25:43 | SHOT | 97 | 15 | 1 | |
| 1800.0 | 07:27:00 | SHOT | 98 | 16 | 1 | s1 2032 |
| 1800.0 | 07:27:38 | SHOT | 99 | 16 | 1 | |
| 1800.0 | 07:28:15 | SHOT | 100 | 16 | 1 | |
| 1800.0 | 07:28:52 | SHOT | 101 | 16 | 1 | |
| 1800.0 | 07:29:27 | SHOT | 102 | 16 | 1 | |
| 1800.0 | 07:30:03 | SHOT | 103 | 16 | 1 | |
| 1800.0 | 07:30:42 | SHOT | 104 | 16 | 1 | |
| 1800.0 | 07:41:29 | SHOT | 105 | 17 | 1 | S1 2034 |
| 1800.0 | 07:42:06 | SHOT | 106 | 17 | 1 | |
| 1800.0 | 07:42:44 | SHOT | 107 | 17 | 1 | |
| 1800.0 | 07:43:21 | SHOT | 108 | 17 | 1 | |
| 1800.0 | 07:43:58 | SHOT | 109 | 17 | 1 | |
| 1800.0 | 07:44:33 | SHOT | 110 | 17 | 1 | |
| 1800.0 | 07:45:09 | SHOT | 111 | 17 | 1 | |
| 1800.0 | 07:46:32 | SHOT | 112 | 18 | 1 | S1 2036 |
| 1800.0 | 07:47:13 | SHOT | 113 | 18 | 1 | |
| 1800.0 | 07:48:26 | SHOT | 114 | 18 | 1 | |
| 1800.0 | 07:49:06 | SHOT | 115 | 18 | 1 | |
| 1800.0 | 07:49:45 | SHOT | 116 | 18 | 1 | |
| 1800.0 | 07:50:24 | SHOT | 117 | 18 | 1 | |
| 1800.0 | 07:50:59 | SHOT | 118 | 18 | 1 | |
| 1800.0 | 07:52:15 | SHOT | 119 | 19 | 1 | S1 2038 |

Observer's Note (3/6)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|----------------------------|
| 1800.0 | 07:52:51 | SHOT | 120 | 19 | 1 | |
| 1800.0 | 07:53:28 | SHOT | 121 | 19 | 1 | |
| 1800.0 | 07:54:03 | SHOT | 122 | 19 | 1 | |
| 1800.0 | 07:55:30 | SHOT | 123 | 19 | 1 | |
| 1800.0 | 07:56:06 | SHOT | 124 | 19 | 1 | |
| 1800.0 | 07:56:41 | SHOT | 125 | 19 | 1 | |
| 1800.0 | 07:58:09 | SHOT | 126 | 20 | 1 | s1 2040 |
| 1800.0 | 07:58:48 | SHOT | 127 | 20 | 1 | |
| 1800.0 | 07:59:24 | SHOT | 128 | 20 | 1 | |
| 1800.0 | 07:59:59 | SHOT | 129 | 20 | 1 | |
| 1800.0 | 08:00:35 | SHOT | 130 | 20 | 1 | |
| 1800.0 | 08:01:25 | SHOT | 131 | 20 | 1 | |
| 1800.0 | 08:02:00 | SHOT | 132 | 20 | 1 | |
| 1800.0 | 08:03:17 | SHOT | 133 | 21 | 1 | S1 2042 |
| 1800.0 | 08:03:54 | SHOT | 134 | 21 | 1 | |
| 1800.0 | 08:04:29 | SHOT | 135 | 21 | 1 | |
| 1800.0 | 08:05:06 | SHOT | 136 | 21 | 1 | |
| 1800.0 | 08:05:42 | SHOT | 137 | 21 | 1 | |
| 1800.0 | 08:06:21 | SHOT | 138 | 21 | 1 | |
| 1800.0 | 08:06:57 | SHOT | 139 | 21 | 1 | |
| 1800.0 | 08:08:15 | SHOT | 140 | 22 | 1 | s1 2044 |
| 1800.0 | 08:08:50 | SHOT | 141 | 22 | 1 | |
| 1800.0 | 08:09:26 | SHOT | 142 | 22 | 1 | |
| 1800.0 | 08:10:02 | SHOT | 143 | 22 | 1 | |
| 1800.0 | 08:10:37 | SHOT | 144 | 22 | 1 | |
| 1800.0 | 08:11:13 | SHOT | 145 | 22 | 1 | |
| 1800.0 | 08:11:49 | SHOT | 146 | 22 | 1 | |
| 1800.0 | 08:13:52 | SHOT | 147 | 23 | 1 | s1 2046 Vib facing East |
| 1800.0 | 08:14:34 | SHOT | 148 | 23 | 1 | |
| 1800.0 | 08:15:13 | SHOT | 149 | 23 | 1 | |
| 1800.0 | 08:15:49 | SHOT | 150 | 23 | 1 | |
| 1800.0 | 08:16:25 | SHOT | 151 | 23 | 1 | |
| 1800.0 | 08:17:02 | SHOT | 152 | 23 | 1 | |
| 1800.0 | 08:17:40 | SHOT | 153 | 23 | 1 | |
| 1800.0 | 08:19:41 | SHOT | 154 | 24 | 1 | S1 R 20462 Vib facing West |
| 1800.0 | 08:20:19 | SHOT | 155 | 24 | 1 | |
| 1800.0 | 08:20:55 | SHOT | 156 | 24 | 1 | |
| 1800.0 | 08:21:31 | SHOT | 157 | 24 | 1 | |
| 1800.0 | 08:22:07 | SHOT | 158 | 24 | 1 | |
| 1800.0 | 08:22:42 | SHOT | 159 | 24 | 1 | |
| 1800.0 | 08:23:25 | SHOT | 160 | 24 | 1 | |
| 1800.0 | 08:37:36 | SHOT | 161 | 25 | 2 | S2 2046 vib facing west |
| 1800.0 | 08:38:14 | SHOT | 162 | 25 | 2 | |
| 1800.0 | 08:38:51 | SHOT | 163 | 25 | 2 | |
| 1800.0 | 08:39:29 | SHOT | 164 | 25 | 2 | |
| 1800.0 | 08:40:05 | SHOT | 165 | 25 | 2 | |
| 1800.0 | 08:40:41 | SHOT | 166 | 25 | 2 | |
| 1800.0 | 08:41:16 | SHOT | 167 | 25 | 2 | |
| 1800.0 | 08:43:11 | SHOT | 168 | 26 | 2 | S2 2044 |
| 1800.0 | 08:43:47 | SHOT | 169 | 26 | 2 | |
| 1800.0 | 08:44:24 | SHOT | 170 | 26 | 2 | |
| 1800.0 | 08:45:01 | SHOT | 171 | 26 | 2 | |
| 1800.0 | 08:45:36 | SHOT | 172 | 26 | 2 | |
| 1800.0 | 08:46:13 | SHOT | 173 | 26 | 2 | |
| 1800.0 | 08:46:53 | SHOT | 174 | 26 | 2 | |
| 1800.0 | 08:48:16 | SHOT | 175 | 27 | 2 | s2 2042 |
| 1800.0 | 08:48:53 | SHOT | 176 | 27 | 2 | |
| 1800.0 | 08:49:33 | SHOT | 177 | 27 | 2 | |
| 1800.0 | 08:50:09 | SHOT | 178 | 27 | 2 | |

Observer's Note (4/6)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|-----------|
| 1800.0 | 08:50:45 | SHOT | 179 | 27 | 2 | |
| 1800.0 | 08:51:20 | SHOT | 180 | 27 | 2 | |
| 1800.0 | 08:51:55 | SHOT | 181 | 27 | 2 | |
| 1800.0 | 08:53:02 | SHOT | 182 | 28 | 2 | S2 2040 |
| 1800.0 | 08:53:39 | SHOT | 183 | 28 | 2 | |
| 1800.0 | 08:54:16 | SHOT | 184 | 28 | 2 | |
| 1800.0 | 08:54:52 | SHOT | 185 | 28 | 2 | |
| 1800.0 | 08:55:28 | SHOT | 186 | 28 | 2 | |
| 1800.0 | 08:56:04 | SHOT | 187 | 28 | 2 | |
| 1800.0 | 08:56:39 | SHOT | 188 | 28 | 2 | |
| 1800.0 | 08:57:41 | SHOT | 189 | 29 | 2 | S2 2038 |
| 1800.0 | 08:58:16 | SHOT | 190 | 29 | 2 | |
| 1800.0 | 08:58:53 | SHOT | 191 | 29 | 2 | |
| 1800.0 | 08:59:29 | SHOT | 192 | 29 | 2 | |
| 1800.0 | 09:00:04 | SHOT | 193 | 29 | 2 | |
| 1800.0 | 09:00:39 | SHOT | 194 | 29 | 2 | |
| 1800.0 | 09:01:18 | SHOT | 195 | 29 | 2 | |
| 1800.0 | 09:02:17 | SHOT | 196 | 30 | 2 | S2 2036 |
| 1800.0 | 09:02:54 | SHOT | 197 | 30 | 2 | |
| 1800.0 | 09:03:30 | SHOT | 198 | 30 | 2 | |
| 1800.0 | 09:04:06 | SHOT | 199 | 30 | 2 | |
| 1800.0 | 09:04:41 | SHOT | 200 | 30 | 2 | |
| 1800.0 | 09:05:17 | SHOT | 201 | 30 | 2 | |
| 1800.0 | 09:05:53 | SHOT | 202 | 30 | 2 | |
| 1800.0 | 09:06:57 | SHOT | 203 | 31 | 2 | S2 2034 |
| 1800.0 | 09:07:33 | SHOT | 204 | 31 | 2 | |
| 1800.0 | 09:08:10 | SHOT | 205 | 31 | 2 | |
| 1800.0 | 09:08:45 | SHOT | 206 | 31 | 2 | |
| 1800.0 | 09:09:22 | SHOT | 207 | 31 | 2 | |
| 1800.0 | 09:09:59 | SHOT | 208 | 31 | 2 | |
| 1800.0 | 09:10:37 | SHOT | 209 | 31 | 2 | |
| 1800.0 | 09:11:13 | SHOT | 210 | 31 | 2 | |
| 1800.0 | 09:23:42 | SHOT | 211 | 32 | 2 | S2 2032 |
| 1800.0 | 09:24:19 | SHOT | 212 | 32 | 2 | |
| 1800.0 | 09:24:55 | SHOT | 213 | 32 | 2 | |
| 1800.0 | 09:25:34 | SHOT | 214 | 32 | 2 | |
| 1800.0 | 09:26:10 | SHOT | 215 | 32 | 2 | |
| 1800.0 | 09:26:47 | SHOT | 216 | 32 | 2 | |
| 1800.0 | 09:27:22 | SHOT | 217 | 32 | 2 | |
| 1800.0 | 09:28:20 | SHOT | 218 | 33 | 2 | S2 2030 |
| 1800.0 | 09:28:55 | SHOT | 219 | 33 | 2 | |
| 1800.0 | 09:29:32 | SHOT | 220 | 33 | 2 | |
| 1800.0 | 09:30:08 | SHOT | 221 | 33 | 2 | |
| 1800.0 | 09:30:43 | SHOT | 222 | 33 | 2 | |
| 1800.0 | 09:31:18 | SHOT | 223 | 33 | 2 | |
| 1800.0 | 09:31:53 | SHOT | 224 | 33 | 2 | |
| 1800.0 | 09:32:54 | SHOT | 225 | 34 | 2 | S2 2028 |
| 1800.0 | 09:33:30 | SHOT | 226 | 34 | 2 | miss fire |
| 1800.0 | 09:34:06 | SHOT | 227 | 34 | 2 | |
| 1800.0 | 09:34:44 | SHOT | 228 | 34 | 2 | |
| 1800.0 | 09:35:19 | SHOT | 229 | 34 | 2 | |
| 1800.0 | 09:35:55 | SHOT | 230 | 34 | 2 | |
| 1800.0 | 09:36:33 | SHOT | 231 | 34 | 2 | |
| 1800.0 | 09:37:11 | SHOT | 232 | 34 | 2 | |
| 1800.0 | 09:38:20 | SHOT | 233 | 35 | 2 | S2 2026 |
| 1800.0 | 09:38:56 | SHOT | 234 | 35 | 2 | |
| 1800.0 | 09:39:43 | SHOT | 235 | 35 | 2 | |
| 1800.0 | 09:40:18 | SHOT | 236 | 35 | 2 | |
| 1800.0 | 09:40:54 | SHOT | 237 | 35 | 2 | |

Observer's Note (5/6)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|--------------------------------|
| 1800.0 | 09:41:29 | SHOT | 238 | 35 | 2 | |
| 1800.0 | 09:42:07 | SHOT | 239 | 35 | 2 | |
| 1800.0 | 09:43:08 | SHOT | 240 | 36 | 2 | S2 2024 |
| 1800.0 | 09:43:44 | SHOT | 241 | 36 | 2 | |
| 1800.0 | 09:44:27 | SHOT | 242 | 36 | 2 | |
| 1800.0 | 09:45:01 | SHOT | 243 | 36 | 2 | |
| 1800.0 | 09:45:37 | SHOT | 244 | 36 | 2 | |
| 1800.0 | 09:46:13 | SHOT | 245 | 36 | 2 | |
| 1800.0 | 09:46:48 | SHOT | 246 | 36 | 2 | |
| 1800.0 | 09:47:47 | SHOT | 247 | 37 | 2 | S2 2022 |
| 1800.0 | 09:48:23 | SHOT | 248 | 37 | 2 | |
| 1800.0 | 09:48:59 | SHOT | 249 | 37 | 2 | |
| 1800.0 | 09:49:35 | SHOT | 250 | 37 | 2 | |
| 1800.0 | 09:50:10 | SHOT | 251 | 37 | 2 | |
| 1800.0 | 09:50:49 | SHOT | 252 | 37 | 2 | |
| 1800.0 | 09:51:28 | SHOT | 253 | 37 | 2 | |
| 1800.0 | 09:53:54 | SHOT | 254 | 38 | 2 | S2 2020 |
| 1800.0 | 09:54:35 | SHOT | 255 | 38 | 2 | |
| 1800.0 | 09:55:12 | SHOT | 256 | 38 | 2 | |
| 1800.0 | 09:55:48 | SHOT | 257 | 38 | 2 | |
| 1800.0 | 09:56:26 | SHOT | 258 | 38 | 2 | |
| 1800.0 | 09:57:03 | SHOT | 259 | 38 | 2 | |
| 1800.0 | 09:57:39 | SHOT | 260 | 38 | 2 | |
| 1800.0 | 10:00:05 | SHOT | 261 | 39 | 2 | s2 r 20202 reverse esat facing |
| 1800.0 | 10:00:52 | SHOT | 262 | 39 | 2 | |
| 1800.0 | 10:01:33 | SHOT | 263 | 39 | 2 | |
| 1800.0 | 10:02:09 | SHOT | 264 | 39 | 2 | |
| 1800.0 | 10:02:45 | SHOT | 265 | 39 | 2 | |
| 1800.0 | 10:03:24 | SHOT | 266 | 39 | 2 | |
| 1800.0 | 10:04:01 | SHOT | 267 | 39 | 2 | |
| 1800.0 | 10:08:17 | SHOT | 268 | 40 | 2 | s2 r 2018 revese facing east |
| 1800.0 | 10:08:55 | SHOT | 269 | 40 | 2 | |
| 1800.0 | 10:09:32 | SHOT | 270 | 40 | 2 | |
| 1800.0 | 10:10:28 | SHOT | 271 | 40 | 2 | |
| 1800.0 | 10:11:04 | SHOT | 272 | 40 | 2 | |
| 1800.0 | 10:11:40 | SHOT | 273 | 40 | 2 | |
| 1800.0 | 10:12:22 | SHOT | 274 | 40 | 2 | |
| 1800.0 | 10:23:50 | SHOT | 275 | 41 | 2 | S2 2013 normal facing west |
| 1800.0 | 10:24:25 | SHOT | 276 | 41 | 2 | |
| 1800.0 | 10:25:01 | SHOT | 277 | 41 | 2 | |
| 1800.0 | 10:25:37 | SHOT | 278 | 41 | 2 | |
| 1800.0 | 10:26:13 | SHOT | 279 | 41 | 2 | |
| 1800.0 | 10:26:49 | SHOT | 280 | 41 | 2 | |
| 1800.0 | 10:27:24 | SHOT | 281 | 41 | 2 | |
| 1800.0 | 10:29:04 | SHOT | 282 | 42 | 2 | s2 2011 |
| 1800.0 | 10:29:43 | SHOT | 283 | 42 | 2 | |
| 1800.0 | 10:30:18 | SHOT | 284 | 42 | 2 | |
| 1800.0 | 10:30:54 | SHOT | 285 | 42 | 2 | |
| 1800.0 | 10:31:29 | SHOT | 286 | 42 | 2 | |
| 1800.0 | 10:32:06 | SHOT | 287 | 42 | 2 | |
| 1800.0 | 10:32:41 | SHOT | 288 | 42 | 2 | |
| 1800.0 | 10:33:44 | SHOT | 289 | 43 | 2 | s2 2009 |
| 1800.0 | 10:34:20 | SHOT | 290 | 43 | 2 | |
| 1800.0 | 10:34:56 | SHOT | 291 | 43 | 2 | |
| 1800.0 | 10:35:30 | SHOT | 292 | 43 | 2 | |
| 1800.0 | 10:36:06 | SHOT | 293 | 43 | 2 | |
| 1800.0 | 10:36:41 | SHOT | 294 | 43 | 2 | |
| 1800.0 | 10:37:17 | SHOT | 295 | 43 | 2 | |
| 1800.0 | 10:38:19 | SHOT | 296 | 44 | 2 | S2 2007 |

Observer's Note (6/6)

| Well depth [m] | Time | Shot Type | Shot# | Stack# | Line | Remarks |
|----------------|----------|-----------|-------|--------|------|---------|
| 1800.0 | 10:39:01 | SHOT | 297 | 44 | 2 | |
| 1800.0 | 10:39:37 | SHOT | 298 | 44 | 2 | |
| 1800.0 | 10:40:12 | SHOT | 299 | 44 | 2 | |
| 1800.0 | 10:40:48 | SHOT | 300 | 44 | 2 | |
| 1800.0 | 10:41:23 | SHOT | 301 | 44 | 2 | |
| 1800.0 | 10:41:58 | SHOT | 302 | 44 | 2 | |
| 1800.0 | 10:43:07 | SHOT | 303 | 45 | 2 | S2 2055 |
| 1800.0 | 10:43:41 | SHOT | 304 | 45 | 2 | |
| 1800.0 | 10:44:17 | SHOT | 305 | 45 | 2 | |
| 1800.0 | 10:44:54 | SHOT | 306 | 45 | 2 | |
| 1800.0 | 10:45:30 | SHOT | 307 | 45 | 2 | |
| 1800.0 | 10:46:06 | SHOT | 308 | 45 | 2 | |
| 1800.0 | 10:46:43 | SHOT | 309 | 45 | 2 | |
| 1800.0 | 10:49:51 | SHOT | 310 | 46 | 2 | S2 2004 |
| 1800.0 | 10:50:29 | SHOT | 311 | 46 | 2 | |
| 1800.0 | 10:51:12 | SHOT | 312 | 46 | 2 | |
| 1800.0 | 10:51:49 | SHOT | 313 | 46 | 2 | |
| 1800.0 | 10:52:25 | SHOT | 314 | 46 | 2 | |
| 1800.0 | 10:53:46 | SHOT | 315 | 47 | 2 | S2 2002 |
| 1800.0 | 10:54:21 | SHOT | 316 | 47 | 2 | |
| 1800.0 | 10:55:10 | SHOT | 317 | 47 | 2 | |
| 1800.0 | 10:55:45 | SHOT | 318 | 47 | 2 | |
| 1800.0 | 10:56:22 | SHOT | 319 | 47 | 2 | |

VSI Tool Evaluation Test Report WVSP S-wave Line-A

VSI Seismic Evaluation Report

ELECTRICAL NOISE LOW TEST

2006/05/18 07:40:05

Shot No: 3

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.4322 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1317 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.4472 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.3712 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1367 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.5275 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.3891 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1328 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4536 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.2346 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1318 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4616 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -25.0960 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1296 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.5038 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.3884 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1315 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.4568 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.3928 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1319 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.5164 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.3030 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1361 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.4951 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.3732 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1301 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.4875 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.3047 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1344 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.5143 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.3452 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1316 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.4679 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.2980 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1365 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.4883 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.2728 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1319 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.4722 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3539 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1302 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.4625 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3366 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Z | 0.1308 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.4633 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.4133 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1352 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4558 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.3407 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1350 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.5505 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -25.3503 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1324 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.5543 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.3241 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1359 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.5148 | micro V | - | 2.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| DC Offset | 7 | Y | -25.2881 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1341 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.4912 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.3393 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1329 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.4771 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.4216 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1320 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.6721 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.2861 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1359 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5202 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.4463 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1323 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.5077 | micro V | - | 2.0000 | PASS |

ELECTRICAL NOISE HIGH TEST

2006/05/18 07:40:46

Shot No: 4

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|---------|-------------|-------------|--------|
| DC Offset | 1 | X | -25.3485 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | X | 0.1294 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | X | 0.5501 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Y | -25.4722 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Y | 0.1335 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Y | 0.4803 | micro V | - | 2.0000 | PASS |
| DC Offset | 1 | Z | -25.2449 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 1 | Z | 0.1320 | micro V | - | 0.5000 | PASS |
| Noise Peak | 1 | Z | 0.4471 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | X | -25.0030 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | X | 0.1309 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | X | 0.4741 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Y | -24.7984 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Y | 0.1293 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Y | 0.4739 | micro V | - | 2.0000 | PASS |
| DC Offset | 2 | Z | -25.2429 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 2 | Z | 0.1297 | micro V | - | 0.5000 | PASS |
| Noise Peak | 2 | Z | 0.5261 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | X | -25.1008 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | X | 0.1331 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | X | 0.4858 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Y | -25.4852 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Y | 0.1386 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Y | 0.5575 | micro V | - | 2.0000 | PASS |
| DC Offset | 3 | Z | -25.2754 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 3 | Z | 0.1339 | micro V | - | 0.5000 | PASS |
| Noise Peak | 3 | Z | 0.4831 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | X | -25.2483 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | X | 0.1293 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | X | 0.4598 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Y | -25.1274 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Y | 0.1355 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Y | 0.5054 | micro V | - | 2.0000 | PASS |
| DC Offset | 4 | Z | -25.1600 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 4 | Z | 0.1338 | micro V | - | 0.5000 | PASS |
| Noise Peak | 4 | Z | 0.5465 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | X | -25.0554 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | X | 0.1304 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | X | 0.5001 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Y | -25.3560 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 5 | Y | 0.1305 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Y | 0.5446 | micro V | - | 2.0000 | PASS |
| DC Offset | 5 | Z | -25.3494 | milli V | -100.0000 | 100.0000 | PASS |

| | | | | | | | |
|-----------------|---|---|----------|---------|-----------|----------|------|
| RMS Noise Level | 5 | Z | 0.1374 | micro V | - | 0.5000 | PASS |
| Noise Peak | 5 | Z | 0.4888 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | X | -25.3436 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | X | 0.1315 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | X | 0.4794 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Y | -25.0402 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Y | 0.1304 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Y | 0.4524 | micro V | - | 2.0000 | PASS |
| DC Offset | 6 | Z | -24.9099 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 6 | Z | 0.1326 | micro V | - | 0.5000 | PASS |
| Noise Peak | 6 | Z | 0.5089 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | X | -25.1640 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | X | 0.1345 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | X | 0.4769 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Y | -24.9917 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Y | 0.1337 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Y | 0.5136 | micro V | - | 2.0000 | PASS |
| DC Offset | 7 | Z | -25.1602 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 7 | Z | 0.1356 | micro V | - | 0.5000 | PASS |
| Noise Peak | 7 | Z | 0.4875 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | X | -25.1836 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | X | 0.1319 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | X | 0.4428 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Y | -25.0047 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Y | 0.1322 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Y | 0.5865 | micro V | - | 2.0000 | PASS |
| DC Offset | 8 | Z | -25.0689 | milli V | -100.0000 | 100.0000 | PASS |
| RMS Noise Level | 8 | Z | 0.1342 | micro V | - | 0.5000 | PASS |
| Noise Peak | 8 | Z | 0.5188 | micro V | - | 2.0000 | PASS |

ELECTRICAL DISTORTION TEST

2006/05/18 07:41:11

Shot No: 5

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|---------------------------|---------|---------|-----------|------|-------------|-------------|--------|
| Total Harmonic Distortion | 1 | X | -97.7425 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Y | -98.2710 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 1 | Z | -97.5904 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | X | -94.1284 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Y | -95.0258 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 2 | Z | -98.0697 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | X | -100.1811 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Y | -99.9935 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 3 | Z | -101.4127 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | X | -100.1181 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Y | -100.7862 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 4 | Z | -98.3893 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | X | -95.2514 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Y | -96.4761 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 5 | Z | -95.7669 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | X | -97.6756 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Y | -100.6928 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 6 | Z | -97.4649 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | X | -99.0249 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Y | -98.4850 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 7 | Z | -97.6340 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | X | -98.2895 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Y | -97.5765 | dB | - | -90.0000 | PASS |
| Total Harmonic Distortion | 8 | Z | -99.0034 | dB | - | -90.0000 | PASS |

SYSTEM DYNAMIC RANGE TEST

2006/05/18 07:41:43

Shot No: 6

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|-------|------|-------------|-------------|--------|
| | | | | | | | |

| | | | | | | | |
|----------------------|---|---|----------|----|----------|---|------|
| System Dynamic Range | 1 | X | 108.1890 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Y | 108.0112 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 1 | Z | 107.5862 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | X | 106.3611 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Y | 106.5952 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 2 | Z | 106.9815 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | X | 106.5216 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Y | 106.3187 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 3 | Z | 106.5973 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | X | 107.0726 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Y | 107.0948 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 4 | Z | 107.0840 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | X | 107.0039 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Y | 106.9447 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 5 | Z | 106.9632 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | X | 106.4462 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Y | 106.4704 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 6 | Z | 106.3962 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | X | 107.5572 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Y | 107.8150 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 7 | Z | 107.4781 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | X | 107.7674 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Y | 108.1236 | dB | 103.0000 | - | PASS |
| System Dynamic Range | 8 | Z | 107.7246 | dB | 103.0000 | - | PASS |

AMPLIFIER GAIN 2 TEST

2006/05/18 07:42:14

Shot No: 7

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------|----------------|----------------|--------------|-------------|--------------------|--------------------|---------------|
| Gain Accuracy | 1 | X | 0.1191 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1318 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1161 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1230 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1191 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1451 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1224 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1330 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1310 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1325 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1220 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1311 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1165 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1220 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1208 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1104 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Accuracy | 6 | Z | 0.1124 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1159 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1245 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1086 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1172 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1075 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0000 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 4 TEST

2006/05/18 07:42:30

Shot No: 8

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0122 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1276 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.1004 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1213 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1150 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1437 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1213 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1320 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1352 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1319 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1188 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1281 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1144 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0020 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1226 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1161 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0047 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1077 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1111 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1024 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1138 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1231 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0014 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0015 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|--------|----|---------|--------|------|
| Gain Accuracy | 8 | Y | 0.1170 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1035 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0040 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 8 TEST

2006/05/18 07:42:47

Shot No: 9

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|---------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.1034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0156 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1267 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0967 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0193 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1228 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0002 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1151 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1437 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1214 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0010 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1342 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0012 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1392 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1344 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | -0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1212 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0008 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1286 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1149 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0016 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1232 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0013 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1176 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1077 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0027 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1063 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | -0.0009 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1092 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.1019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0031 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1133 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1243 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0001 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1075 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0011 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1157 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1064 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0011 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 16 TEST

2006/05/18 07:43:03

Shot No: 10

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0962 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 1 | X | 0.0229 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1210 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0107 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0944 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1176 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1108 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0083 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1400 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Z | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1180 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1310 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | 0.0019 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1393 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0082 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1305 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1189 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0032 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1246 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0066 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1094 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0071 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1202 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | 0.0017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1137 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0072 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1006 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0098 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1017 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0038 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1055 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0069 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0973 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0077 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1103 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0056 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1200 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0044 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | 0.0045 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1121 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0051 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.1042 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0033 | dB | -0.5000 | 0.5000 | PASS |

AMPLIFIER GAIN 32 TEST

2006/05/18 07:43:19

Shot No: 11

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|--------------------|---------|---------|--------|------|-------------|-------------|--------|
| Gain Accuracy | 1 | X | 0.0958 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | X | 0.0233 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Y | 0.1254 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Y | 0.0063 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 1 | Z | 0.0972 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 1 | Z | 0.0189 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | X | 0.1189 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | X | 0.0041 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Y | 0.1133 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 2 | Y | 0.0058 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 2 | Z | 0.1417 | dB | -0.5000 | 0.5000 | PASS |

| | | | | | | | |
|--------------------|---|---|---------|----|---------|--------|------|
| Gain Step Accuracy | 2 | Z | 0.0034 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | X | 0.1223 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | X | 0.0000 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Y | 0.1358 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Y | -0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 3 | Z | 0.1411 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 3 | Z | -0.0101 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | X | 0.1319 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | X | 0.0007 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Y | 0.1191 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Y | 0.0029 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 4 | Z | 0.1276 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 4 | Z | 0.0035 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | X | 0.1106 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | X | 0.0059 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Y | 0.1250 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Y | -0.0030 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 5 | Z | 0.1165 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 5 | Z | 0.0043 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | X | 0.1054 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | X | 0.0050 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Y | 0.1015 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Y | 0.0040 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 6 | Z | 0.1098 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 6 | Z | 0.0026 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | X | 0.0993 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | X | 0.0057 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Y | 0.1134 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Y | 0.0025 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 7 | Z | 0.1217 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 7 | Z | 0.0028 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | X | 0.1121 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | X | -0.0035 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Y | 0.1151 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Y | 0.0021 | dB | -0.5000 | 0.5000 | PASS |
| Gain Accuracy | 8 | Z | 0.0964 | dB | -0.5000 | 0.5000 | PASS |
| Gain Step Accuracy | 8 | Z | 0.0111 | dB | -0.5000 | 0.5000 | PASS |

CROSS TALK X TEST

2006/05/18 07:43:51

Shot No: 12

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk X-Y | 1 | - | -99.4320 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 1 | - | -97.9687 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 2 | - | -99.4920 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 2 | - | -98.2366 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 3 | - | -99.3415 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 3 | - | -97.8518 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 4 | - | -99.5297 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 4 | - | -97.5764 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 5 | - | -99.6585 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 5 | - | -98.4294 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 6 | - | -99.4328 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 6 | - | -98.1996 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 7 | - | -99.3200 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 7 | - | -98.2298 | dB | - | -90.0000 | PASS |
| Cross Talk X-Y | 8 | - | -99.2949 | dB | - | -90.0000 | PASS |
| Cross Talk X-Z | 8 | - | -98.2358 | dB | - | -90.0000 | PASS |

CROSS TALK Y TEST

2006/05/18 07:44:28

Shot No: 13

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|-------|------|-------------|-------------|--------|
| | | | | | | | |

| | | | | | | | |
|----------------|---|---|----------|----|---|----------|------|
| Cross Talk Y-Z | 1 | - | -97.5034 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 1 | - | -98.9636 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 2 | - | -97.8103 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 2 | - | -99.3417 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 3 | - | -97.2929 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 3 | - | -99.0892 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 4 | - | -97.0005 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 4 | - | -98.7539 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 5 | - | -98.0080 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 5 | - | -99.1350 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 6 | - | -97.8453 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 6 | - | -98.9742 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 7 | - | -97.8385 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 7 | - | -99.1537 | dB | - | -90.0000 | PASS |
| Cross Talk Y-Z | 8 | - | -97.8463 | dB | - | -90.0000 | PASS |
| Cross Talk Y-X | 8 | - | -99.4392 | dB | - | -90.0000 | PASS |

CROSS TALK Z TEST

2006/05/18 07:45:05

Shot No: 14

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|-----------------|---------|---------|----------|------|-------------|-------------|--------|
| Cross Talk Z-X | 1 | - | -96.3514 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 1 | - | -96.0372 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 2 | - | -97.1783 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 2 | - | -96.8370 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 3 | - | -96.7040 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 3 | - | -96.0016 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 4 | - | -96.0092 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 4 | - | -95.6466 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 5 | - | -96.9368 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 5 | - | -96.9514 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 6 | - | -96.7019 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 6 | - | -96.2809 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 7 | - | -96.9114 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 7 | - | -96.4998 | dB | - | -90.0000 | PASS |
| Cross Talk Z-X | 8 | - | -97.3069 | dB | - | -90.0000 | PASS |
| Cross Talk Z-Y | 8 | - | -97.1580 | dB | - | -90.0000 | PASS |

IMPULSE RESPONSE TEST

2006/05/18 07:45:40

Shot No: 15

Station Depth: 1800.03 m

| Evaluation Item | Shuttle | Channel | Value | Unit | Lower Limit | Upper Limit | Result |
|------------------------------|---------|---------|----------|---------|-------------|-------------|--------|
| Amplitude (0.3Hz) | 1 | X | -1.5021 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | X | -3.5753 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | X | 572.2405 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | X | 0.0000 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Y | -1.4229 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Y | -3.5763 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Y | 573.1039 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Y | -0.7798 | degree | - | - | - |
| Amplitude (0.3Hz) | 1 | Z | -1.4628 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 1 | Z | -3.5753 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 1 | Z | 572.0522 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 1 | Z | -0.4654 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | X | -1.4382 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | X | -3.5799 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | X | 572.0258 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | X | -0.0072 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Y | -1.5700 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 2 | Y | -3.5776 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Y | 571.8508 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Y | 1.2489 | degree | - | - | - |
| Amplitude (0.3Hz) | 2 | Z | -1.5951 | dB | -5.0000 | - | PASS |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (400Hz) | 2 | Z | -3.5772 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 2 | Z | 573.3697 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 2 | Z | 1.5693 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | X | -1.4565 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | X | -3.5748 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | X | 571.7964 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | X | -0.3118 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Y | -1.4544 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Y | -3.5755 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Y | 572.6381 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Y | -0.4897 | degree | - | - | - |
| Amplitude (0.3Hz) | 3 | Z | -1.5103 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 3 | Z | -3.5746 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 3 | Z | 572.6651 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 3 | Z | 0.1809 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | X | -1.6590 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | X | -3.5771 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | X | 572.5507 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | X | 1.8255 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Y | -1.5482 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Y | -3.5786 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Y | 571.5164 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Y | 0.7095 | degree | - | - | - |
| Amplitude (0.3Hz) | 4 | Z | -1.5345 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 4 | Z | -3.5783 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 4 | Z | 572.4480 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 4 | Z | 0.4527 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | X | -1.5804 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | X | -3.5747 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | X | 571.4340 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | X | 1.2293 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Y | -1.5011 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Y | -3.5748 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Y | 571.8765 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Y | 0.3433 | degree | - | - | - |
| Amplitude (0.3Hz) | 5 | Z | -1.6665 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 5 | Z | -3.5768 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 5 | Z | 571.8781 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 5 | Z | 1.9523 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | X | -1.6007 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | X | -3.5779 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | X | 570.6155 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | X | 1.4173 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Y | -1.4971 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Y | -3.5755 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Y | 570.7161 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Y | 0.2698 | degree | - | - | - |
| Amplitude (0.3Hz) | 6 | Z | -1.5630 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 6 | Z | -3.5725 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 6 | Z | 571.2681 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 6 | Z | 0.9202 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | X | -1.5926 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | X | -3.5743 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | X | 570.4356 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | X | 1.2508 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Y | -1.5774 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Y | -3.5765 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Y | 571.5049 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Y | 1.1643 | degree | - | - | - |
| Amplitude (0.3Hz) | 7 | Z | -1.5264 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 7 | Z | -3.5744 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 7 | Z | 572.0543 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 7 | Z | 0.4332 | degree | - | - | - |

| | | | | | | | |
|------------------------------|---|---|----------|---------|---------|---|------|
| Amplitude (0.3Hz) | 8 | X | -1.5997 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | X | -3.5766 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | X | 570.4099 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | X | 1.2453 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Y | -1.6299 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Y | -3.5735 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Y | 571.5926 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Y | 1.2066 | degree | - | - | - |
| Amplitude (0.3Hz) | 8 | Z | -1.6927 | dB | -5.0000 | - | PASS |
| Amplitude (400Hz) | 8 | Z | -3.5760 | dB | -5.0000 | - | PASS |
| Impulse Amplitude | 8 | Z | 570.6056 | milli V | - | - | - |
| Phase Diff. at 0.3Hz from X1 | 8 | Z | 2.0172 | degree | - | - | - |