

ENCLOSURE 1A

BOREHOLE SEISMIC ANALYSIS

FOR

BASS STRAIT OIL COMPANY

PREPARED BY

BAKER ATLAS

DOWNHOLE SEISMIC SERVICES

WELL : **MOBY-1**
LOCATION : **OFFSHORE AUSTRALIA**
ENGINEER : **B.READ**
DATE : **WED 13TH OCTOBER 2004**

FIELD ENGINEER'S LOG

SURVEY INFORMATION

CLIENT BASS STRAIT OIL COMPANY
CLIENT REP D.MACFARLAN, G.GEARY
WELL NAME MOBY-1
WELL LOCATION OFFSHORE AUSTRALIA
FIELD NAME EXPLORATION
RIG NAME OCEAN PATRIOT
ENGINEER B.READ
TYPE OF SERVICE ZVSP (SLR)
WIRELINE CO. AND DISTRICT BAKER ATLAS, DARWIN
WIRELINE OPERATOR UNIT 8677
RUN NUMBER 3 TOTAL TRIPS THIS RUN 1
WEATHER / SEAS WINDY, MODERATE SEAS DATE WED 13TH OCTOBER 2004
LINEID MOBY-1 FILE NAME : RAW SERVICE ORDER NO. 516561

WELL INFORMATION

WELL HEAD COORDINATES 5789884.86mN 632316.41mE
RIG HEADING 270 DEG
ELEV K.B. 22 M OPEN HOLE DIAMETER 8.5 IN
ELEV D.F. 22 M MAX. TEMPERATURE 45 DEG C
GROUND ELEVATION -53.9 M FLUID TYPE KCL POLYMER
WATER DEPTH 53.9 M CASING : (DIAMETER / DEPTH)
WELL T.D. 653.6 M 1 20" 0 - 97.0 M
REFERENCE DATUM MEAN SEA LEVEL 2 13 3/8" 0 - 321.8 M
DEVIATED WELL NO 3 OPEN HOLE
MAXIMUM DEVIATION N/A 4 OPEN HOLE

DOWNHOLE RECEIVER

RECEIVER TYPE AWS 1300 GM ARM LENGTH STANDARD 6-14" PREAMP GAIN 51 dB
SENSOR TYPE GEOPHONE SENSOR FREQUENCY 10 HZ GIMBAL YES
GIMBAL TYPE 1025 RECEIVER SPACING N/A ZERO POINT DRILL FLOOR
DEPTH ERROR 0.0 METRES ASSET NO RCV-1 186706 ASSET NO RCV-2 N/A
ASSET NO. RCV-3 N/A ASSET NO RCV-4 N/A ASSET NO RCV-5 N/A

LOGGING TOOLS USED

1309XA / 6204XB



Baker Atlas

FIELD ENGINEER'S LOG

RECORDING SYSTEM

RECORDING UNIT ASSET NUMBER 9700LA 302869

SURFACE A/D TYPE AND NUMBER DSS 16CH A/D

DOWNHOLE A/D TYPE AND ASSET NUMBER N/A

SURFACE A/D TOTAL CHANNELS 8 DOWNHOLE A/D TOTAL CHANNELS N/A

FLASK TYPE N/A

SAMPLE RATE 1 MILLISECOND RECORD LENGTH 4 SECONDS

SWEEP LENGTH N/A TRANSMIT OFFSET N/A

TIME OF START OF RECORD TO TIME BREAK 100 MSECS

LOW CUT FILTER DC (0 Hz) HIGH CUT FILTER 250 Hz

TAPE TYPE DAT TAPE TAPE FORMAT TAR & SEGY

CHANNELS ASSIGNMENT AND GAIN :

CH 1	<u>V</u>	CH 2	<u>H</u>	CH 3	<u>T</u>
CH 4	<u>SIG</u>	CH 5	<u>N/A</u>	CH 6	<u>N/A</u>
CH 7	<u>N/A</u>	CH 8	<u>N/A</u>	CH 9	<u>N/A</u>
CH 10	<u>N/A</u>	CH 11	<u>N/A</u>	CH 12	<u>N/A</u>
CH 13	<u>N/A</u>	CH 14	<u>N/A</u>	CH 15	<u>N/A</u>
CH 16	<u>N/A</u>	CH 17	<u>N/A</u>	CH 18	<u>N/A</u>
CH 19	<u>N/A</u>	CH 20	<u>N/A</u>	CH 21	<u>N/A</u>
CH 22	<u>N/A</u>	CH 23	<u>N/A</u>	CH 24	<u>N/A</u>
CH 25	<u>N/A</u>	CH 26	<u>N/A</u>	CH 26	<u>N/A</u>
CH 28	<u>N/A</u>	CH 29	<u>N/A</u>	CH 30	<u>N/A</u>
CH 31	<u>N/A</u>	CH 32	<u>N/A</u>		

WIRELIN & WTS PANEL

WIRELIN ASSET NO 9520LA 10103244 WIRELIN TYPE 7H47RTZHS

WIRELIN LENGTH 7744 M WTS TYPE / ASSET NO. 5710XD 172466

TRANSMIT GAIN N/A MODE 2 GAIN 1 N/A MODE 2 GAIN 2 N/A

MODE 2 EQN. 1 N/A MODE 2 EQN. 2 N/A MODE 2 EQN. 3 N/A

MODE 5 GAIN 1 N/A MODE 5 EQN. 1 N/A MODE 5 EQN. 1 N/A

INTERCONNECTS

SPACING DISTANCE N/A ASSET NO. INC-1 N/A ASSET NO. INC-2 N/A

ASSET NO. INC-3 N/A ASSET NO. INC-4 N/A ASSET NO. INC-5 N/A

SPECIAL FEATURES

PROCESSING INSTRUCTION

SEISMIC DATUM : MEAN SEA LEVEL CORRECTION VELOCITY 1500 M/SEC

LOGS AVAILABLE ON SITE : ACCOUSTIC CALIPER

SURVEY INSTRUCTIONS RECEIVED

- (N) PRIORITY
- (N) CALIBRATION
- (N) SYNTHETIC
- (Y) VSP
- (Y) VELOCITY
- (N) INVERSION
- (N) OFFSET VSP
- (N) WALKWAY
- (N) PROXIMITY
- (N) NORMAL INCIDENCE
- (N) 3 COMPONENTS
- (N) 3D
- (N) NAVIGATION
- (N) GYRO

GUN TO HYDROPHONE CORRECTION 3.3 MSECS

HYDROPHONE DELAY = 0.0 MSECS

ZVSP AT 10 M INTERVALS FROM TD (650M) TO LOSS OF SIGNAL (80M)

LAT 38 DEG 01' 44.25" S LONG 148 DEG 30' 27.40" E

GR CORRELATION WAS + 0.3 M AT A DEPTH OF 600 M

GUN TO HYDROPHONE CORRECTION SHOULD HAVE BEEN 1.3 MSECS, ENGINEER ENTERED DEPTH OF GUNS NOT GUN TO HYDROPHONE DISTANCE

A TOTAL OF 57 LEVELS PLUS THREE CHECKSHOTS WERE TAKEN

AT THE CLIENTS REQUEST 3 SHOTS PER LEVEL WAS THE REQUIRED AMOUNT, SOME LEVELS HAVE MORE DUE TO NOISE INTERFERENCE COMING DOWN WIRELINE

THE WIND AT THE START OF THE SURVEY MADE CLEAN ACQUISITION DIFFICULT AND HAD DIED DOWN BY DEPTH OF 550M

AIRGUN SURVEY

OFFSET NO. 1

DISTANCE FROM WELL 46.3 M
 AZIMUTH FROM WELL 193.7 DEG
 ELEVATION FROM MSL -5 M
 GUN ARRAY TYPE SLEEVE GUN
 WATER DEPTH 53.9 M
 GUN DEPTH 5 M
 NUMBER OF GUNS 4
 GUN-TO-GUN DISTANCE 1 M
 GUN VOLUMES 4 X 150 CU IN
 GUN UNIT NO. 127901, 011700
 PIT DIMENSION (L,W,D) OPEN SEA

OFFSET NO. 2

DISTANCE FROM WELL _____
 AZIMUTH FROM WELL _____
 ELEVATION FROM MSL _____
 GUN ARRAY TYPE _____
 WATER DEPTH _____
 GUN DEPTH _____
 NUMBER OF GUNS _____
 GUN-TO-GUN DISTANCE _____
 GUN VOLUMES _____
 GUN UNIT NO. _____
 PIT DIMENSION (L,W,D) _____

COMPRESSORS

TYPE & S/N: RUCKER SYSTEM
 OPERATING PRESSURE 1800 PSI

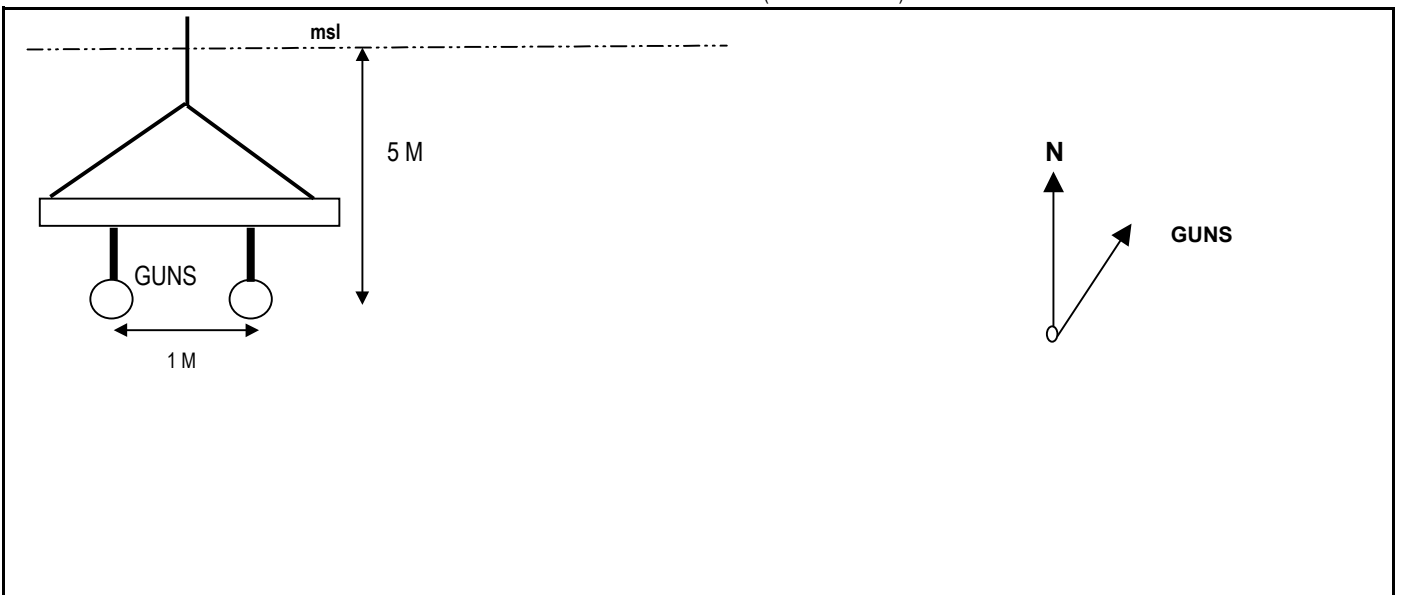
TYPE & S/N: _____
 OPERATING PRESSURE _____

REFERENCE PHONE

TYPE MP8-D HYDROPHONE
 DISTANCE FROM SOURCE 2 M
 AZIMUTH FROM SOURCE DIRECTLY BELOW
 DEPTH 7 M
 FREQ. 15 Hz

TYPE _____
 DISTANCE FROM SOURCE _____
 AZIMUTH FROM SOURCE _____
 DEPTH _____
 FREQ. _____

SURVEY CONFIGURATION SHOW ALL DISTANC INCLUDE SOURCE AND RECEIVER (NOT TO SCALE)





Baker Atlas

TOOL STATIONS

CLIENT : BASS STRAIT OIL COMPANY
 SOURCE : 2 x 150 cu in Sleeve Guns

WELL NAME : MOBY-1
 ENGINEER : B.READ

SERVICE : ZVSP (SLR)
 DATE : WED 13TH OCT 2004

LEVEL NO	TOOL STATION DEPTH	FILE NUMBER	STATION NO.	TOOL NO	VERTICAL CHAN TIME PICK (MSEC)	TIME AT COMPLETION OF LEVEL	CABLE SLACK	PRE-AMP GAIN	REMARKS (COMMENTS, UH TIME, CHARGE TYPE, DEPTH, ETC)
1	250	1 -- 15	1	1	123.0	Wed 13:26 Oct 01, 2004	0	0	Sig Ch Pick = 93.0 ms. kill files 1 2 3 4 5 6 7 8 9 10 11. Gun timing
2	400	16 -- 19	2	1	203.0	Wed 13:36 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 16. Checkshot 2
3	550	20 -- 25	3	1	276.0	Wed 13:47 Oct 01, 2004	0	0	Sig Ch Pick = 100.6 ms. kill files 20 21 22. Checkshot 3
4	650	26 -- 39	4	1	320.0	Wed 14:13 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 26 27 28 29 30 31 32 33 35 36.
5	640	40 -- 42	5	1	316.0	Wed 14:23 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
6	630	43 -- 47	6	1	312.0	Wed 14:40 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 44 45.
7	620	48 -- 50	7	1	308.0	Wed 15:09 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
8	610	51 -- 55	8	1	305.0	Wed 15:12 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 51.
9	600	56 -- 60	9	1	301.0	Wed 14:48 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 56 57.
10	590	61 -- 69	10	1	297.0	Wed 14:53 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 61 63 64 68.
11	580	70 -- 72	11	1	292.0	Wed 14:58 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
12	570	73 -- 75	12	1	287.0	Wed 15:02 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
13	560	76 -- 82	13	1	283.0	Wed 15:05 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 79 81.
14	550	83 -- 85	14	1	276.0	Wed 15:09 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. Checkshot time match
15	540	86 -- 89	15	1	271.0	Wed 15:12 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 87.
16	530	90 -- 93	16	1	266.0	Wed 15:15 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 91.
17	520	94 -- 104	17	1	262.0	Wed 15:21 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 94 95 97 100 101 103.
18	510	105 -- 108	18	1	256.0	Wed 15:29 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 105.
19	500	109 -- 111	19	1	250.0	Wed 15:33 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
20	490	112 -- 117	20	1	245.0	Wed 15:44 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 112 113 114.
21	480	118 -- 120	21	1	241.0	Wed 15:47 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
22	470	121 -- 123	22	1	237.0	Wed 15:51 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
23	460	124 -- 126	23	1	232.0	Wed 15:55 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
24	450	127 -- 129	24	1	227.0	Wed 15:59 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
25	440	130 -- 132	25	1	222.0	Wed 16:05 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
26	430	133 -- 135	26	1	217.0	Wed 16:09 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
27	420	136 -- 140	27	1	213.0	Wed 16:12 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 136 137.
28	410	141 -- 143	28	1	208.0	Wed 16:15 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
29	400	144 -- 150	29	1	204.0	Wed 16:22 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 144 145 146 149. Checkshot time +1 msec
30	390	151 -- 156	30	1	199.0	Wed 16:26 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 151 152 155.
31	380	157 -- 159	31	1	194.0	Wed 16:31 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
32	370	160 -- 162	32	1	188.0	Wed 16:36 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
33	360	163 -- 165	33	1	184.0	Wed 16:40 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
34	350	166 -- 169	34	1	179.0	Wed 16:43 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 166.
35	340	170 -- 174	35	1	176.0	Wed 16:48 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill files 170 173.
36	330	175 -- 177	36	1	169.0	Wed 16:52 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
37	320	178 -- 180	37	1	164.0	Wed 16:57 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.



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38	310	181 -- 183	38	1	159.0	Wed 17:00 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
39	300	184 -- 186	39	1	154.0	Wed 17:04 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
40	290	187 -- 189	40	1	149.0	Wed 17:06 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
41	280	190 -- 193	41	1	144.0	Wed 17:10 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 192.
42	270	194 -- 197	42	1	139.0	Wed 17:13 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 196.
43	260	198 -- 200	43	1	134.0	Wed 17:15 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
44	250	201 -- 203	44	1	128.0	Wed 17:18 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
45	240	204 -- 206	45	1	123.0	Wed 17:21 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
46	230	207 -- 209	46	1	118.0	Wed 17:24 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
47	220	210 -- 213	47	1	113.0	Wed 17:26 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 210.
48	210	214 -- 217	48	1	108.0	Wed 17:29 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 214.
49	200	218 -- 220	49	1	103.0	Wed 17:31 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
50	190	221 -- 223	50	1	99.0	Wed 17:33 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
51	180	224 -- 227	51	1	94.0	Wed 17:36 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 224.
52	170	228 -- 230	52	1	89.0	Wed 17:38 Oct 01, 2004	0	0	Sig Ch Pick = 99.5 ms.
53	160	231 -- 234	53	1	85.0	Wed 17:41 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 231.
54	150	235 -- 237	54	1	80.0	Wed 17:43 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
55	140	238 -- 241	55	1	75.0	Wed 17:45 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 238.
56	130	242 -- 245	56	1	69.0	Wed 17:48 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms. kill file 242.
57	120	246 -- 249	57	1	65.0	Wed 17:51 Oct 01, 0	0	0	Sig Ch Pick = 100.0 ms. kill file 246.
58	110	250 -- 252	58	1	60.0	Wed 17:53 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.
59	100	253 -- 255	59	1	55.0	Wed 17:56 Oct 01, 0	0	0	Sig Ch Pick = 100.0 ms.
60	90	256 -- 258	60	1	49.0	Wed 17:58 Oct 01, 2004	0	0	Sig Ch Pick = 100.0 ms.