

PERFORM – APWD			
Time Based – 2” per 3600’			
Recorded Mode Data			
Location			
Total depth:	2979.0 m	K.B. Top Drive	
Spud date:	20-Nov-2004	G.L. –1396.0 m	
Runs:	4 To 4	D.F. 29.0 m	
Permanent datum:	LAT _____	Elev.: 0 m _____	
Log measured from:	Rotary Table _____	29.0 m above Perm. datum	
Depth reference:	Driller’s Pipe Tally _____		
API serial no.	X = 563729.6mE Y =5690204.1mN	Longitude	Latitude
		141° 44’ 07.08”E	38° 56’ 05.20”S

Depth logged: 2678.5 m To 2963.0 m		Mag decl: 10.48 deg.		Other services:		
Date logged: 6-Dec-04 To 7-Dec-04		Mag dip: -70.25 deg.		Directional Surveys		
Bore hole record				Casing record		
Hole size	from	to	Size	Density	from	to
26 in.	1425.0 m	1835.0 m	30 in.	456.309 lb/ft	1425.0 m	1510.0 m
17.5 in.	1835.0 m	2459.0 m	20 in.	133 lb/ft	1425.0 m	1822.0 m
12.25 in.	2459.0 m	2979.0 m	13.375 in.	68 lb/ft	1425.0 m	2454.5 m
Mud record						
Type	from	to	Mln	Max	from	to
Seawater	1425.0 m	1835.0 m	0.26 deg.	1.07 deg.	1425.0 m	1835.0 m
KCl/HPA/Glycol	1835.0 m	2979.0 m	0.12 deg.	0.40 deg.	1835.0 m	2459.0 m
			0.00 deg.	0.07 deg.	2459.0 m	2797.0 m
Surface equipment						
Unit	OLU ME 0104	IDEAL W/s	ID9_1C_01			
Depth system	Geolograph	SPM	hspm9_2c_08			
		LWD	6.0 B08			
		MWD	7.0C00			

Run number		1	2	3	4					
Bit size	in	26	17.5	12.25	12.25					
Bit start depth	m	1425.0	1835.0	2459.0	2695.0					
Bit end depth	m	1835.0	2459.0	2695.0	2979.0					
Top interval logged	m	1425.0	1820.0	2444.0	2678.5					
Bottom interval logged	m	1820.0	2444.0	2678.5	2963.0					
Begin log: time		08:20:00	13:10:00	03:50:00	8:30:00					
Begin log: date		20-Nov-04	27-Nov-04	4-Dec-04	6-Dec-04					
End log: time		16:30:00	22:15:00	7:00:00	16:00:00					
End log: date		22-Nov-04	1-Dec-04	6-Dec-04	7-Dec-04					
Mud data										
Depth	m	1835.0	2459.0	2695.0	2979.0					
Type		Sea water	KCl/PHPA/Glycol	KCl/PHPA/Glycol	KCl/PHPA/Glycol					
Mud weight	ppg	8.6	9.2	9.5	9.6					
Solids	%	N/A	4.0	8.8	9.5					
Chlorides	mg/l	N/A	38500	52500	48000					
Rm	OHHM@°C	N/A	0.1192@25.1	0.078@26.3	0.0968@25.2					
Rmf	OHHM@°C	N/A	0.1087@24.9	0.0732@25.8	0.0891@24.9					
Rmc	OHHM@°C	N/A	0.1248@26.8	0.1005@25.5	0.1285@24.5					

Potassium	%	N/A	4.0	5.4	5.1						
Environmental data											
GR											
Mud weight	ppg	8.6	9.2	9.5	9.6						
Bit size	in	26	17.5	12.25	12.25						
Resistivity											
Neutron porosity											
Hole Size	in	26	17.5	12.25	12.25						
Mud weight	ppg	8.6	9.2	9.5	9.6						
Bottom Hole Temperature	°C	17.0	23.0	24.0	26.0						
Mud salinity	ppm	N/A	N/A	N/A	N/A						
Formation salinity	ppm	N/A	N/A	N/A	N/A						
Recording rate 1	SEC	6	6	6	6	GR-APWD RES					
Recording rate 2	SEC	6	6	6	6						
Filtering GR		3-Point	3-point	3-point	3-point						
Filtering density		N/A	N/A	N/A	N/A						
Filtering Neutron		N/A	N/A	N/A	N/A						
Company representative		D. Atkins	P. King	J. Young	R. Subramanian						
Anadrill personnel		D. Borges	O. Radicevic	L. Watson	B. Manjenic						

<p style="text-align: center;">DISCLAIMER</p> <p>THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.</p>		
OTHER SERVICES FOR RUN1 Directional Surveys Performance Drilling Annular Pressure, ECD & Temperature Internet Web Witness	OTHER SERVICES FOR RUN2 Directional Surveys Performance Drilling Annular Pressure, ECD & Temperature Internet Web Witness	OTHER SERVICES FOR RUN3 Directional Surveys Performance Drilling Annular Pressure, ECD & Temperature Multi Vibrational Chassis (MVC) Internet Web Witness
REMARKS: RUN NUMBER 1 Depth is Driller's Depth. CDR gamma ray is corrected for bit size, mud weight and tool size. CDR resistivity is borehole compensated but not environmentally corrected. Run Objective: Jet in 30" casing & continue to drill 26" to TD. POOH: Section TD. Remarks: Low Gamma Ray readings are due to enlarged hole size.	REMARKS: RUN NUMBER 2 Depth is Driller's Depth. CDR gamma ray is corrected for bit size, mud weight and tool size. CDR resistivity is borehole compensated but not environmentally corrected. Run Objective: Drill 17.5" section to TD. POOH: Section TD.	REMARKS: RUN NUMBER 3 Depth is Driller's Depth. CDR gamma ray is corrected for bit size, mud weight and tool size. CDR resistivity is borehole compensated but not environmentally corrected. Run Objective: Drill 12.25" section to TD. POOH: Rate of penetration.

EQUIPMENT DESCRIPTION		
RUN1	RUN2	RUN3
DOWNHOLE LOG	DOWNHOLE LOG	DOWNHOLE LOG

DOWNHOLE E

DOWNHOLE E

DOWNHOLE E

PowerPl
Software ver:
s/n W4

CDR
Software ver:
s/n L96

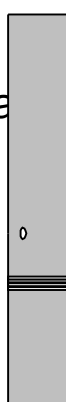
26" WB St
s/n 536

Float S
s/n 32

A962GT Po
s/n 10
lobes
Stabilizer Sleeve

26" Mill To
Smith MSDS, Jets 2x
s/n MR3

Maximum string dian
All lengths in



28.6
PowerPl
Software ver:
s/n: W4

20.1
CDR
Software ver:
s/n: L96

13.0
17 1/2" String
s/n 207

11.3
Float S
s/n: 32

10.3
A962GT Po
s/n: 10
lobes
Stabiilizer sleeve

0.6
17 1/2" Mill T
Reed T11C, Jets
s/n: J61

Maximum string dian
All lengths in



28.8
PowerPl
Software ver:
s/n: ED

In Line Sta
OD 12
s/n: 2132
CDR
Software ver:
OD 8

13.2
12 1/4" String
s/n: AIB

11.1
XO
s/n: X/1

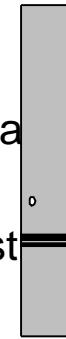
Float S
s/n: 37

10.1
A962GT Po
s/n: 20
lobes:
Stabilizer sleeve

XO
s/n: L 9

12 1/4" PI
Hughes HCH606
s/n 7003

Maximum string dian
All lengths in



— 24.3

— 18.4

— 15.7

— 15.0

13.0

11.3

10.3

— 0.0

— 24.4

— 18.6

— 15.8

— 15.1

13.2

11.1

10.1

— 0.0

— 26.7
— 26.0

22.0

— 19.4

— 16.6

— 16.1

14.5

12.5

11.5

10.5

0.6
— 0.0
0.3

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES FOR RUN4 Directional Surveys Performance Drilling Annular Pressure, ECD & Temperature Multi Vibrational Chassis (MVC) Internet Web Witness	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 4 Depth is Driller's Depth. CDR gamma ray is corrected for bit size, mud weight and tool size. CDR resistivity is borehole compensated but not environmentally corrected. Run Objective: Drill 12.25" section to TD. POOH: TD of Armit-1.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION

RUN4	RUN	RUN
<div><div>DOWNHOLE E</div><div><div><div>PowerPul</div><div>Software version: ED</div></div><div><div>D&I MVC</div><div><div><div></div><div>30.9</div></div><div><div>— 26.7</div><div>— 26.0</div></div></div><div><div>In Line Station</div><div>OD 12</div></div><div><div></div><div>22.5</div></div></div></div></div>		

Maximum string dian
All lengths in

Variable Name	Variable Description	Run Name & Value				
		Run #1	Run #2	Run #3	Run #4	
BHT_RM	Bottom Hole Temperature (degC)		17.000000	23.000000	24.000000	26.000000
BS_RM	Bit Size (in)	26.000000	17.500000	12.250000	12.250000	
MST_RM	Mud Sample temperature (degC)		12.000000	25.100000	26.300000	25.200000
MW_RM	Mud Weight (ppg)	8.600000	9.200000	9.500000	9.600000	
OBMF_RM	Oil Based Mud	NO	NO	NO	NO	
RMS_RM	Resistivity of Mud Sample (ohmm)		0.000000	0.119200	0.078000	0.096800
SHT_RM	Surface Hole Temperature (degC)		12.000000	15.000000	15.000000	15.000000
TD_RM	Total Measured Depth (m)	1835.000000	2459.000000	2695.000000	2979.000000	
ENV_SELECT	Res. Env. Corr. Selection	BS	BS	BS	BS	
TSIZ_CDR	CDR Tool Size (in)	9.500000	9.500000	8.250000	8.250000	
PLATEU	CDR: Plateau GR sensor	YES	YES	YES	YES	
VERS_CDR	CDR Down hole software version Number		6.0B0800	6.0B0800	6.0B0800	6.0B0800
Schlumberger Drilling & Measurements			Parameter Insert Header Software version 1.1c			

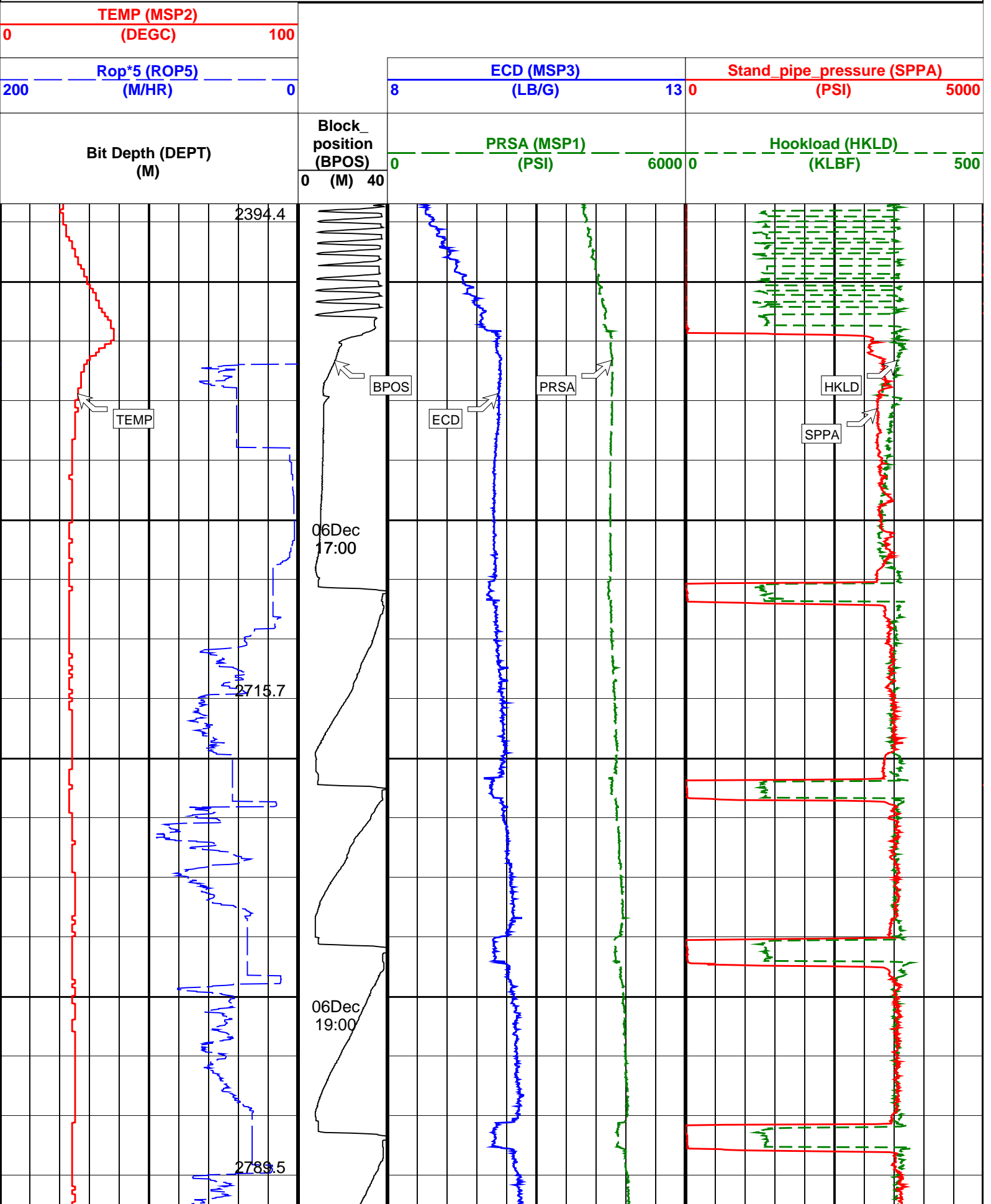
IDEAL Version: ID9_1C_01

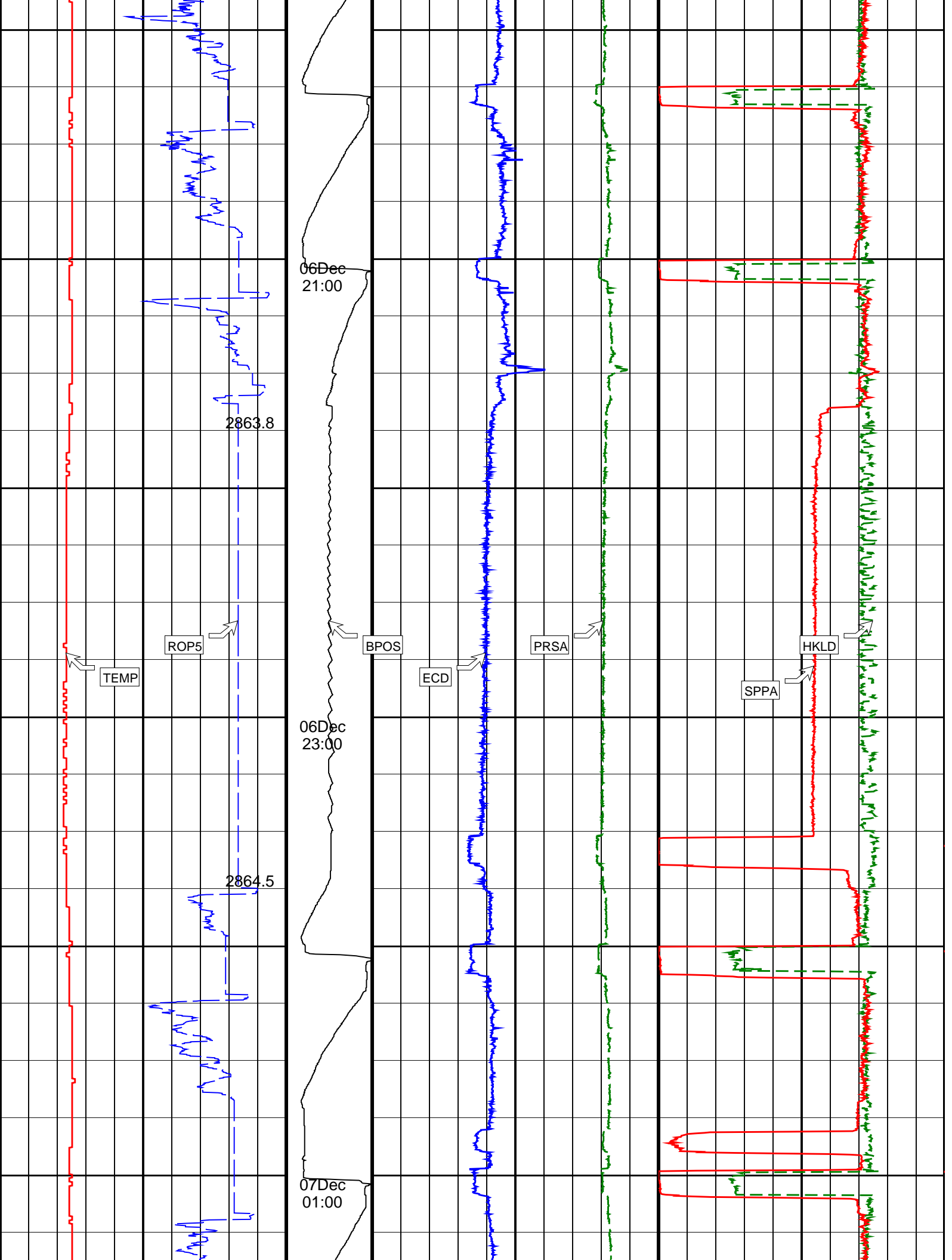
IDF

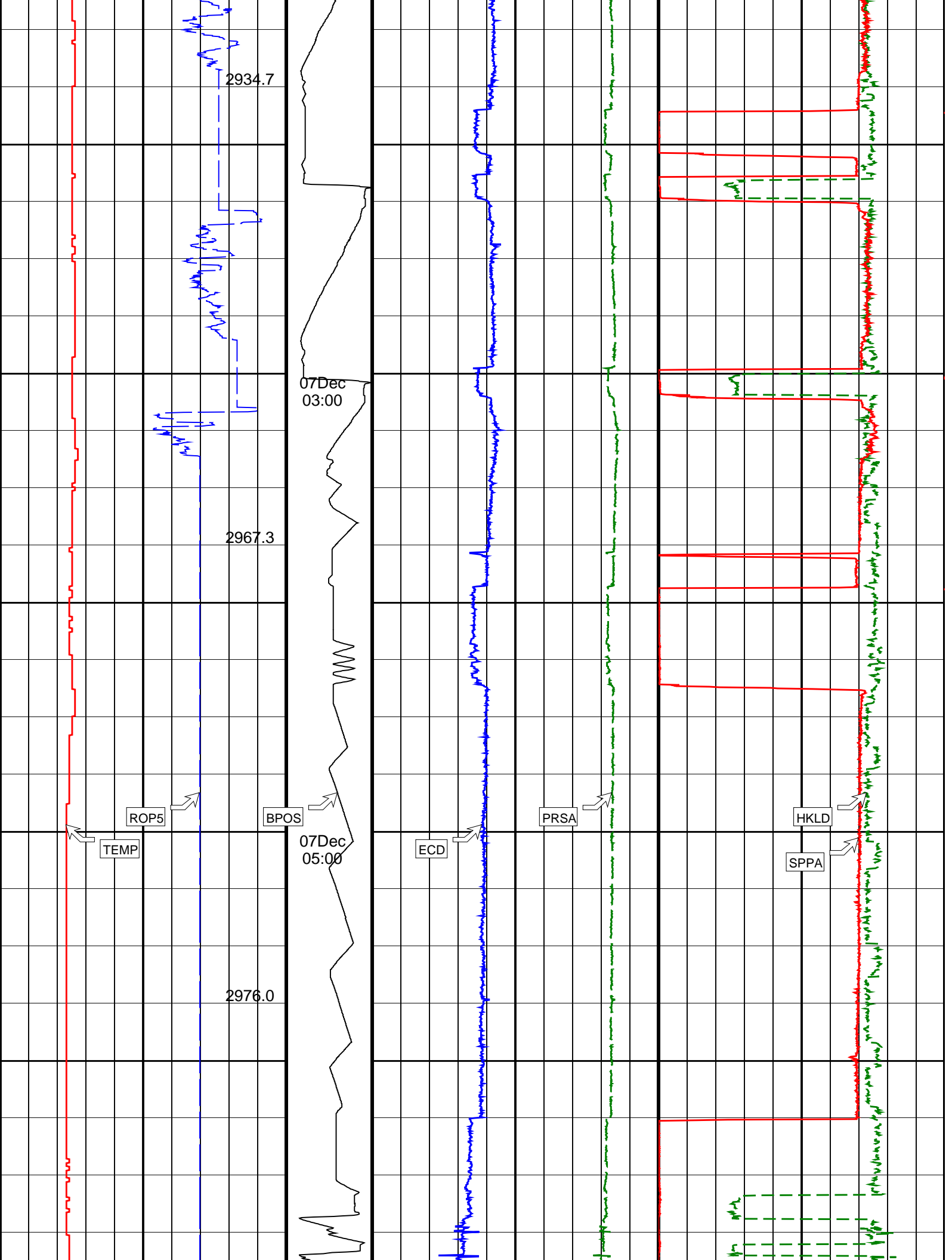
Format: CDR_APWD_Timebased

Vertical Scale: 2" per 3600S

Graphics File Created: 08-Dec-2004 03:40







Bit Depth (DEPT) (M)	Block position (BPOS) 0 (M) 40	PRSA (MSP1) (PSI)		Hookload (HKLD) (KLBF)	
		0	6000	0	500
Rop*5 (ROP5) (M/HR)	0	ECD (MSP3) (LB/G)		Stand pipe pressure (SPPA) (PSI)	
		8	13	0	5000
TEMP (MSP2) (DEGC)	100				
0					

IDEAL Version: ID9_1C_01
IDF

8.25-in. Compensated Dual Resistivity / Equipment Identification

Primary Equipment:
Tool Name and Serial Number
Gamma Ray Type
Calibration Status

CDR8 – AA
Plat – GR
8001
–

Master: 3–Nov–2004 2:01									
8.25-in. Compensated Dual Resistivity Calibration									
Resistivity: Air									
Phase	Attenuation down	DB	Value	Phase	Attenuation up	DB	Value	Phase	BHC attenuation
Master			4.993	Master			4.928	Master	
	4.400	5.000	5.600		4.400	5.000	5.600		4.900
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)
									5.000
									(Maximum)

Master: 3–Nov–2004 2:01									
8.25-in. Compensated Dual Resistivity Calibration									
Resistivity: Air									
Phase	Phase shift down	DEG	Value	Phase	Phase shift up	DEG	Value	Phase	BHC phase shift
Master			–0.2902	Master			0.6567	Master	
	–2.400	0.1000	2.600		–2.400	0.1000	2.600		–0.9000
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)
									0.1000
									(Maximum)

Master: 3–Nov–2004 4:17									
8.25-in. Compensated Dual Resistivity Calibration									
Gamma Ray: Blanket									
Phase	Gain							Value	
Master								0.8570	
	0.8000	1.000					1.200		
	(Minimum)	(Nominal)					(Maximum)		

SCHLUMBERGER

Survey report

Client..... SANTOS – INPEX – UNOCAL
Field..... Amrit

Well..... Amrit–1
API number.....
Engineer..... D.Borges, L.Watson, O.Radicevic
RIG..... Jack Bates
STATE..... Victoria

Spud date..... 20–Nov–2004
Last survey date..... 07–Dec–04
Total accepted surveys....: 44
MD of first survey..... 0.00 m
MD of last survey..... 2979.00 m

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor
----- Depth reference -----
Permanent datum.....: LAT

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2004
Magnetic date.....: 20–Nov–2004
Magnetic field strength...: 1221.99 HCNT
Magnetic dec (+E/W-).....: –70.25 degrees

Permanent datum..... LAT
 Depth reference..... Driller's Pipe Tally
 GL above permanent..... -1396.00 m
 KB above permanent..... Top Drive
 DF above permanent..... 29.00 m
 Magnetic dip..... -70.25 degrees
 Reference G..... 1000.09 mGal
 Reference H..... 1221.99 HCNT
 Reference Dip..... -70.25 degrees
 Vertical section origin.....
 Latitude (+N/S-)..... 0.00 m
 Departure (+E/W-)..... 0.00 m
 Tolerance of G..... (+/-)
 Tolerance of H..... (+/-) 6.00 HCNT
 Tolerance of Dip..... (+/-) 0.45 degrees

Platform reference point.....
 Latitude (+N/S-)..... 0.00 m
 Departure (+E/W-)..... 0.00 m
 Corrections.....
 Magnetic dec (+E/W-)..... 10.48 degrees
 Grid convergence (+E/W-)..... -0.46 degrees
 Total az corr (+E/W-)..... 10.94 degrees
 Azimuth from Vsect Origin to target: 0.00 degrees (Total az corr = magnetic dec - grid conv)
 Survey Correction Type
 I=Sag Corrected Inclination
 M=Schlumberger Magnetic Correction
 S=Shell Magnetic Correction
 F=Failed Axis Correction
 R=Magnetic Resonance Tool Correction
 D=Dmag Magnetic Correction

[(c)2004 IDEAL ID9_1C_01]
 SCHLUMBERGER Survey Report

Seq	Measured #	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg)	Srvy tool	Tool Corr
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None	
2	1425.49	0.59	234.33	1425.49	1425.46	-4.28	-4.28	-5.96	7.34	234.33	0.00	MWD	None
3	1454.01	1.07	295.89	28.52	1453.98	-4.25	-4.25	-6.32	7.62	236.09	0.33	MWD	None
4	1487.29	0.97	129.33	33.28	1487.26	-4.29	-4.29	-6.38	7.69	236.08	0.61	MWD	None
5	1510.95	0.86	56.64	23.66	1510.92	-4.32	-4.32	-6.08	7.46	234.60	0.46	MWD	None
6	1539.34	0.80	303.78	28.39	1539.31	-4.09	-4.09	-6.07	7.32	235.99	0.49	MWD	None
7	1568.02	0.85	315.97	28.68	1567.98	-3.83	-3.83	-6.38	7.44	239.03	0.06	MWD	None
8	1595.59	0.53	308.57	27.57	1595.55	-3.60	-3.60	-6.62	7.54	241.45	0.12	MWD	None
9	1624.12	0.56	304.38	28.53	1624.08	-3.44	-3.44	-6.84	7.66	243.29	0.02	MWD	None
10	1653.18	0.34	298.89	29.06	1653.14	-3.32	-3.32	-7.03	7.78	244.73	0.08	MWD	None
11	1681.34	0.26	305.03	28.16	1681.30	-3.24	-3.24	-7.16	7.86	245.63	0.03	MWD	None
12	1709.52	0.31	319.56	28.18	1709.48	-3.15	-3.15	-7.26	7.91	246.56	0.03	MWD	None
13	1737.89	0.40	311.67	28.37	1737.85	-3.02	-3.02	-7.38	7.98	247.73	0.04	MWD	None
14	1766.33	0.35	299.78	28.44	1766.29	-2.92	-2.92	-7.53	8.08	248.85	0.03	MWD	None
15	1809.32	0.26	261.27	42.99	1809.28	-2.86	-2.86	-7.74	8.26	249.70	0.05	MWD	None
16	1849.73	0.23	231.00	40.41	1849.69	-2.93	-2.93	-7.90	8.42	249.65	0.03	MWD	None
17	1878.02	0.37	193.70	28.29	1877.98	-3.05	-3.05	-7.96	8.53	249.02	0.08	MWD	None
18	1908.10	0.34	223.98	30.08	1908.06	-3.21	-3.21	-8.05	8.67	248.24	0.06	MWD	None
19	1935.76	0.18	265.57	27.66	1935.72	-3.28	-3.28	-8.15	8.78	248.11	0.09	MWD	None
20	1963.97	0.17	252.91	28.21	1963.92	-3.29	-3.29	-8.23	8.87	248.21	0.01	MWD	None
21	1991.95	0.12	204.40	27.98	1991.90	-3.33	-3.33	-8.29	8.93	248.11	0.05	MWD	None
22	2020.87	0.20	231.00	28.92	2020.82	-3.39	-3.39	-8.34	9.00	247.88	0.04	MWD	None
23	2049.42	0.23	223.20	28.55	2049.37	-3.46	-3.46	-8.41	9.10	247.64	0.01	MWD	None
24	2077.78	0.26	214.74	28.36	2077.73	-3.56	-3.56	-8.49	9.21	247.27	0.02	MWD	None
25	2105.32	0.33	183.75	27.54	2105.27	-3.69	-3.69	-8.53	9.29	246.63	0.06	MWD	None
26	2134.71	0.29	176.46	29.39	2134.66	-3.85	-3.85	-8.53	9.36	245.74	0.02	MWD	None
27	2162.92	0.22	203.34	28.21	2162.87	-3.97	-3.97	-8.55	9.42	245.11	0.05	MWD	None
28	2192.60	0.14	180.37	29.68	2192.55	-4.06	-4.06	-8.57	9.48	244.68	0.04	MWD	None
29	2220.68	0.29	203.20	28.08	2220.63	-4.15	-4.15	-8.60	9.55	244.21	0.06	MWD	None
30	2248.46	0.15	220.05	27.78	2248.41	-4.25	-4.25	-8.65	9.64	243.85	0.05	MWD	None
31	2277.42	0.31	183.89	28.96	2277.37	-4.35	-4.35	-8.68	9.71	243.36	0.07	MWD	None
32	2306.21	0.34	216.07	28.79	2306.16	-4.50	-4.50	-8.74	9.83	242.74	0.06	MWD	None
33	2334.13	0.40	185.07	27.92	2334.08	-4.67	-4.67	-8.79	9.95	242.05	0.07	MWD	None
34	2361.66	0.37	221.08	27.53	2361.61	-4.83	-4.83	-8.86	10.09	241.42	0.09	MWD	None
35	2390.55	0.33	232.85	28.89	2390.50	-4.95	-4.95	-8.99	10.26	241.17	0.03	MWD	None
36	2419.57	0.32	200.20	29.02	2419.52	-5.08	-5.08	-9.08	10.40	240.81	0.06	MWD	None
37	2433.15	0.24	208.59	13.58	2433.10	-5.14	-5.14	-9.11	10.46	240.59	0.07	MWD	None
38	2476.28	0.50	232.35	43.13	2476.23	-5.33	-5.33	-9.30	10.72	240.19	0.07	MWD	None
39	2534.29	0.33	216.60	58.01	2534.24	-5.62	-5.62	-9.60	11.13	239.67	0.04	MWD	None
40	2649.13	0.37	195.11	114.84	2649.07	-6.24	-6.24	-9.90	11.70	237.76	0.01	MWD	None
41	2762.85	0.23	199.79	113.72	2762.79	-6.81	-6.81	-10.07	12.16	235.92	0.01	MWD	None
42	2878.16	0.23	190.81	115.31	2878.10	-7.26	-7.26	-10.19	12.51	234.55	0.00	MWD	None
43	2950.00	0.26	140.59	71.84	2949.94	-7.52	-7.52	-10.11	12.61	233.35	0.03	MWD	None
44	2979.00	0.26	140.59	29.00	2978.94	-7.63	-7.63	-10.03	12.60	232.76	0.00	Proj. to TD	

[(c)2004 IDEAL ID9_1C_01]

Well: **Amrit-1**
Field: **Exploration**
Rig: **Jack Bates**
State: **Victoria**

VIC-P-52

PERFORM – APWD
Time Based – 2" per 3600'
Recorded Mode Data