

Type	KCl/phpa/Glycol										
Mud weight	lb/gal	10.35									
Solids	%	8.8									
Chlorides	mg/L	38,500									
Rm	ohm-m@°C	0.1089@22									
Rmf	ohm-m@°C	0.0914@21									
Rmc	ohm-m@°C	0.309@24									
Potassium	%	2.9									
Environmental data											
GR											
Mud weight	lb/gal	10.35									
Bit size	in	12.25									
Resistivity											
Neutron porosity											
Hole Size	in.	12.25									
Mud weight	lb/gal	10.35									
Temperature	°C	73									
Mud salinity	ppk	63.525									
Formation salinity											
Recording rate 1	SEC	10									
Recording rate 2	SEC	10									
Filtering GR		3 pt									
Filtering density											
Filtering Neutron											
Company representative	G. Sharkey	M.Jackson									
Anadrill personnel	L.Bon	K.Handley									

<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 RUN D & I	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 1 All data presented is from tool memory. GR corrected for mud weight, tool and bit size. RAB8* resistivity corrected for the bit size, mud resistivity and borehole temperature. Mud type is KCl/phpa/Glycol.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

PowerPulse* downhole software: 6.1C00

RUN1

RUN

RUN

S/N: M8
OD: 8.4

30.8

D&I

— 26.5

S/N: 0
OD: 8.2
Blade OD: 1

Shallo
Mediu
Deep
Ring R
GR

20.2
20.0
19.8
19.6
19.4

Cross OOD: 8.0

18.5

S/N: 207
OD: 8.5
Blade OD: 1

18.2

16.4

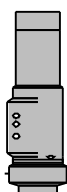
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OD: 8.2

Bit Re

9.40

S/N: 207
OD: 8.2

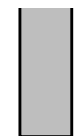
7.14



Blade OD: 1
Pony Drill
S/N: 50
OD: 8.0

Near Bit Rolle
S/N: GU2
OD: 8.2
Blade OD: 1

BIT-In
OD: 12.2



5.70

2.78

0.000.33

Maximum string diam
All lengths in

IDEAL Version: ID8_0C_07

IDF

RAB id8_0c_07 MWD_10 id8_0c_07

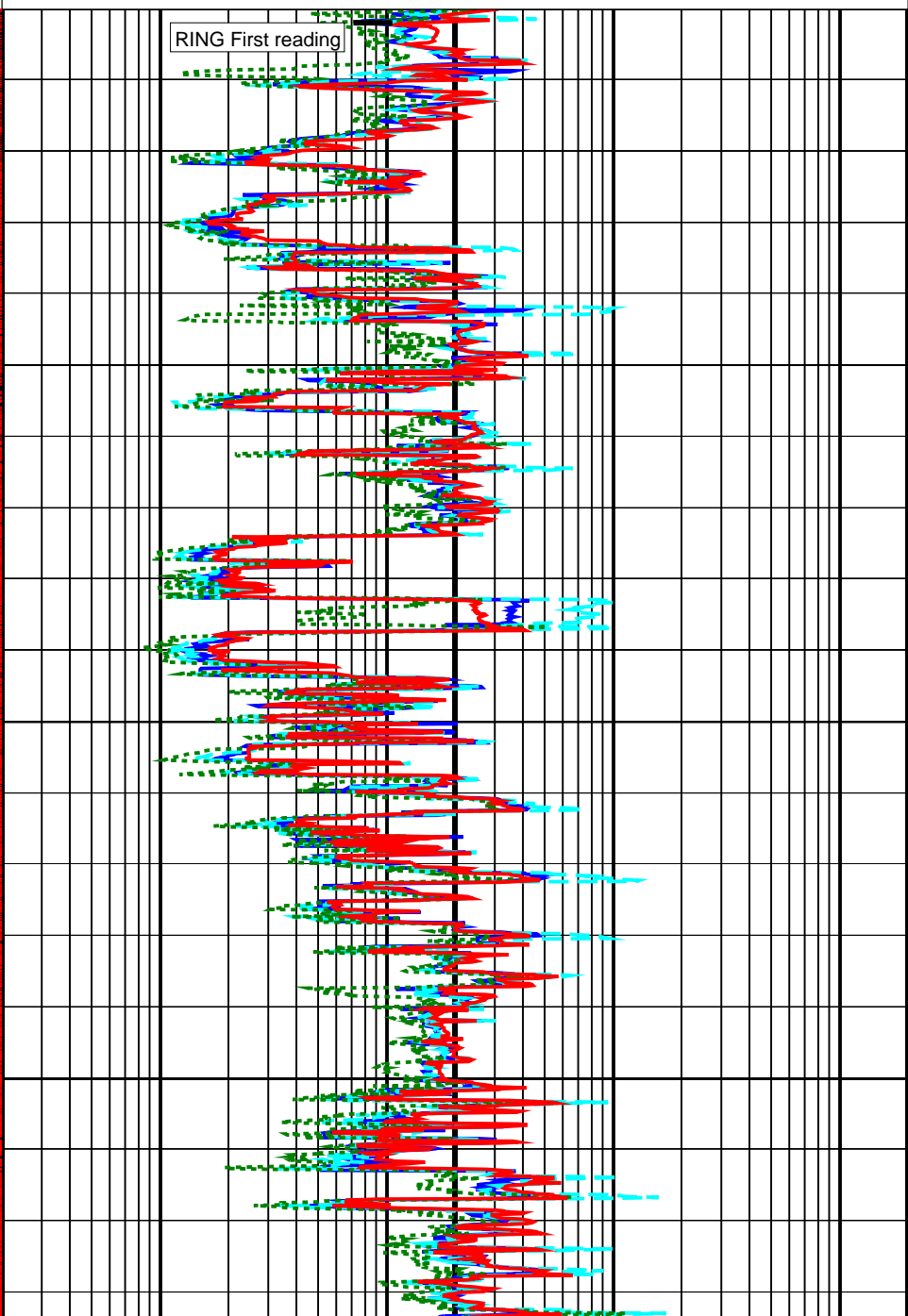
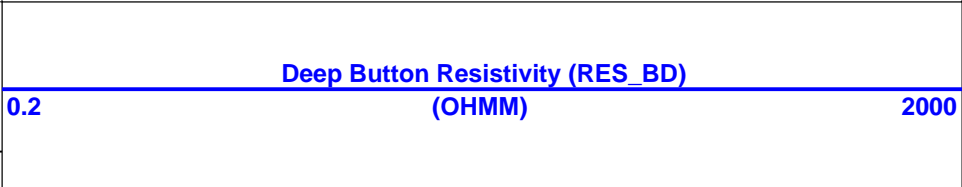
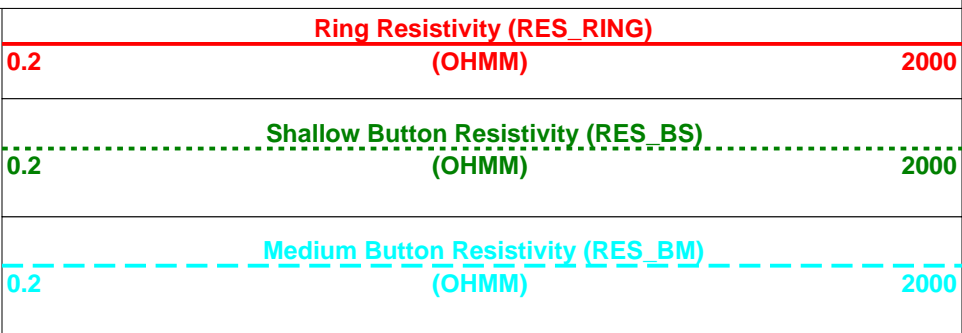
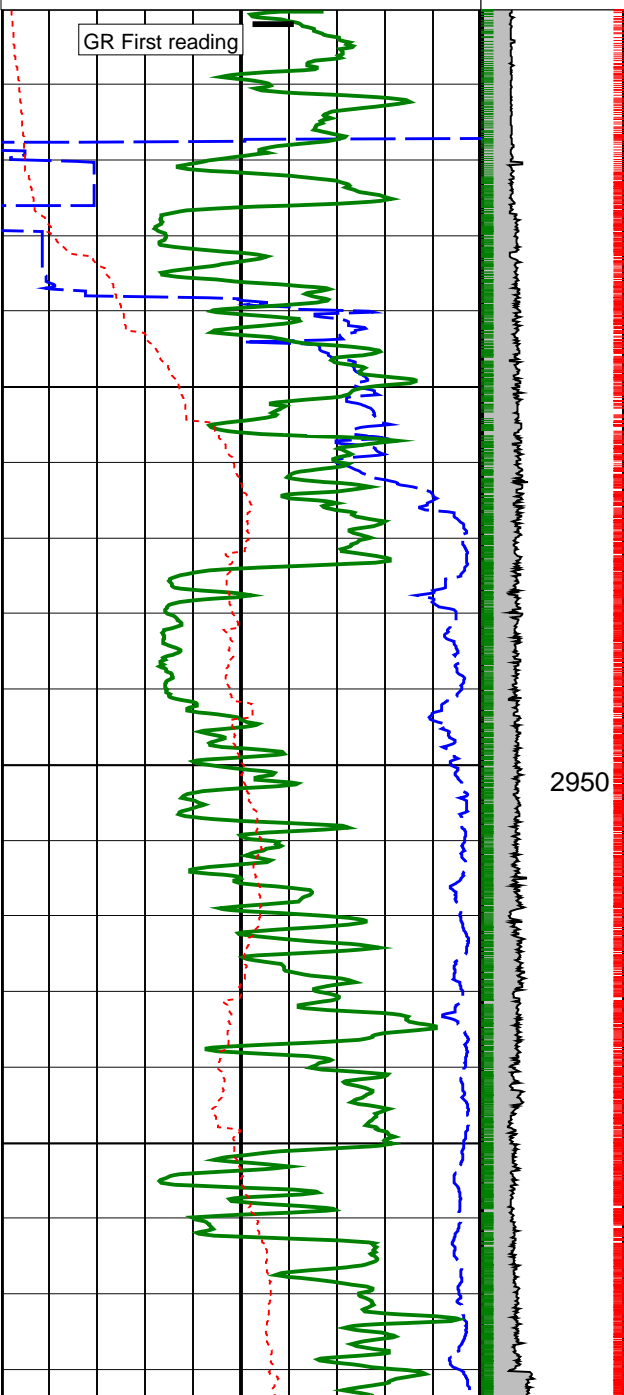
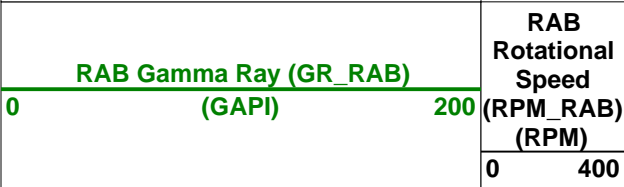
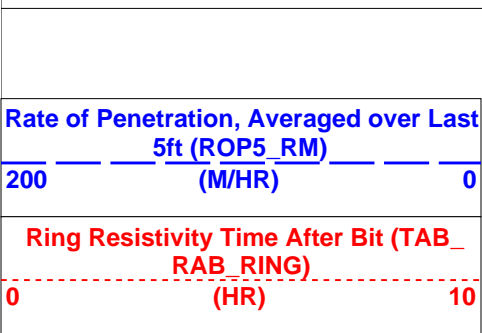
Format: GeoVISION Resistivity Vertical Scale: 1:500 Graphics File Created: 28-Feb-2003 15:33

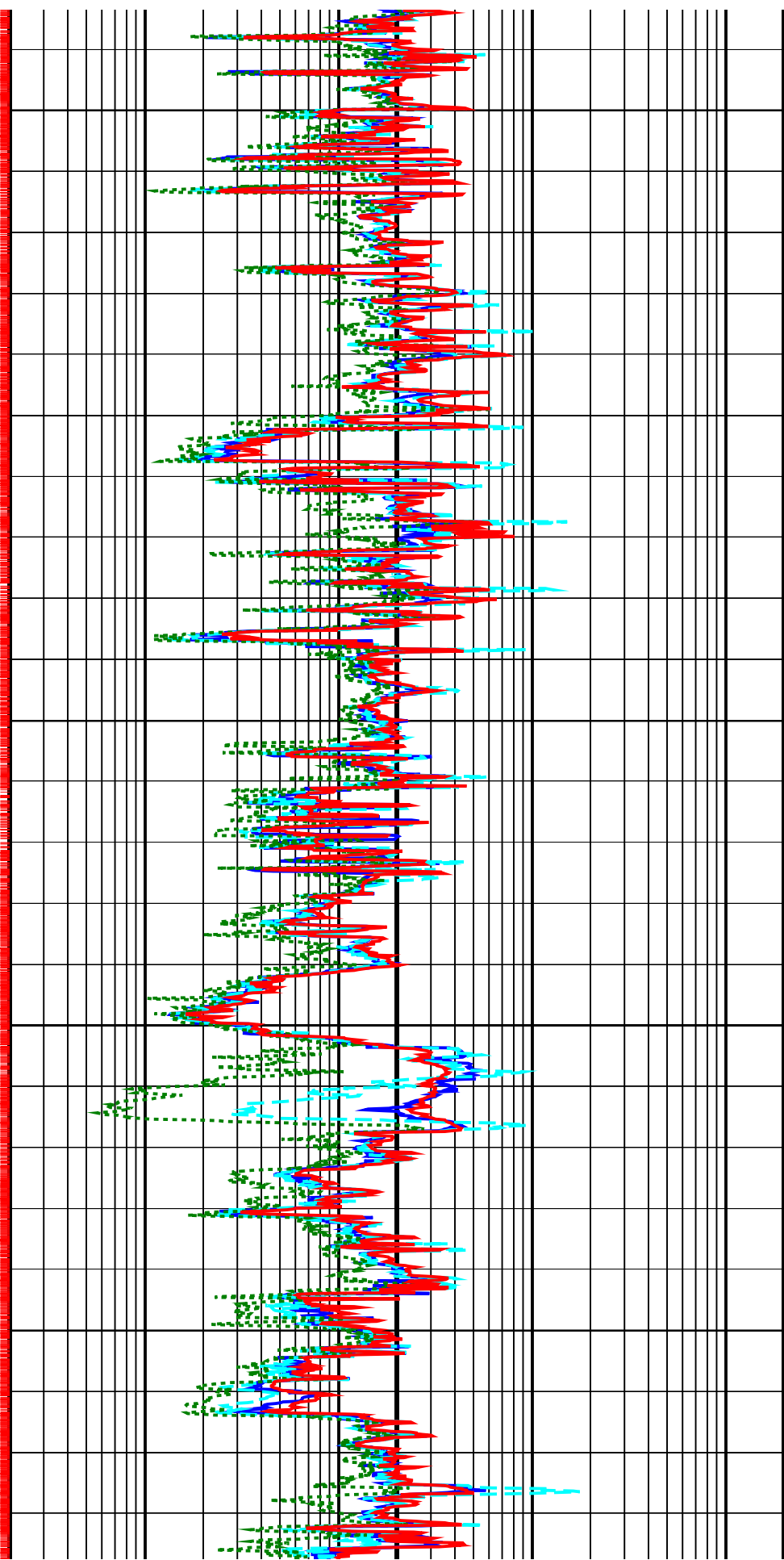
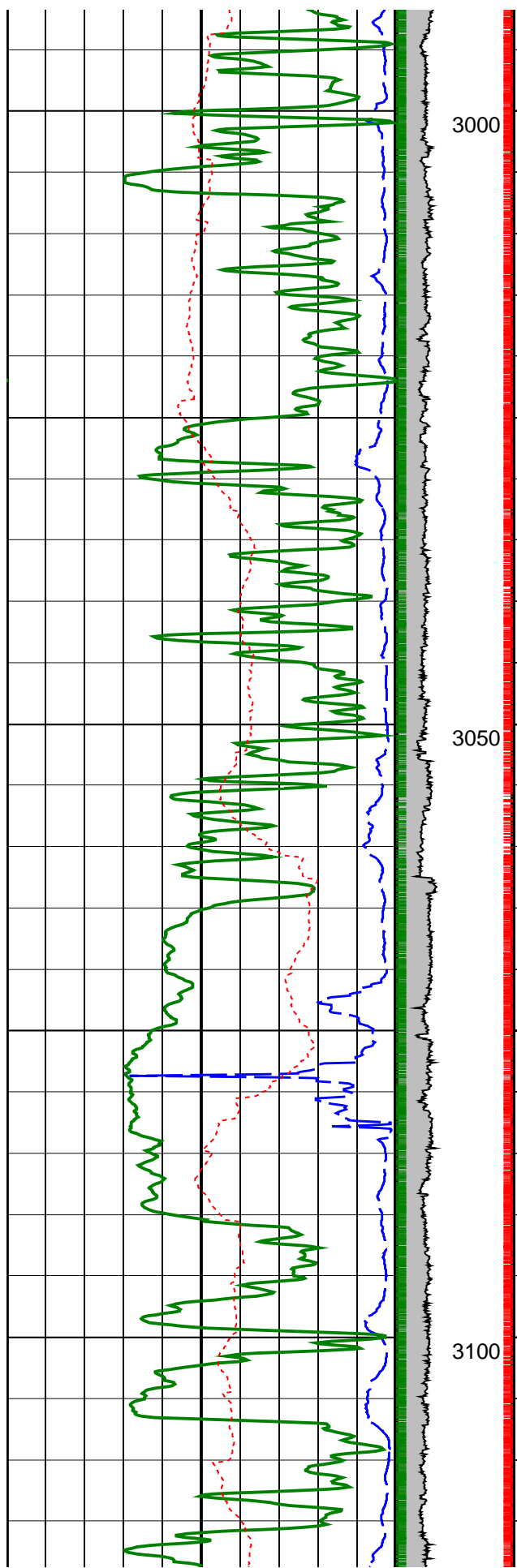
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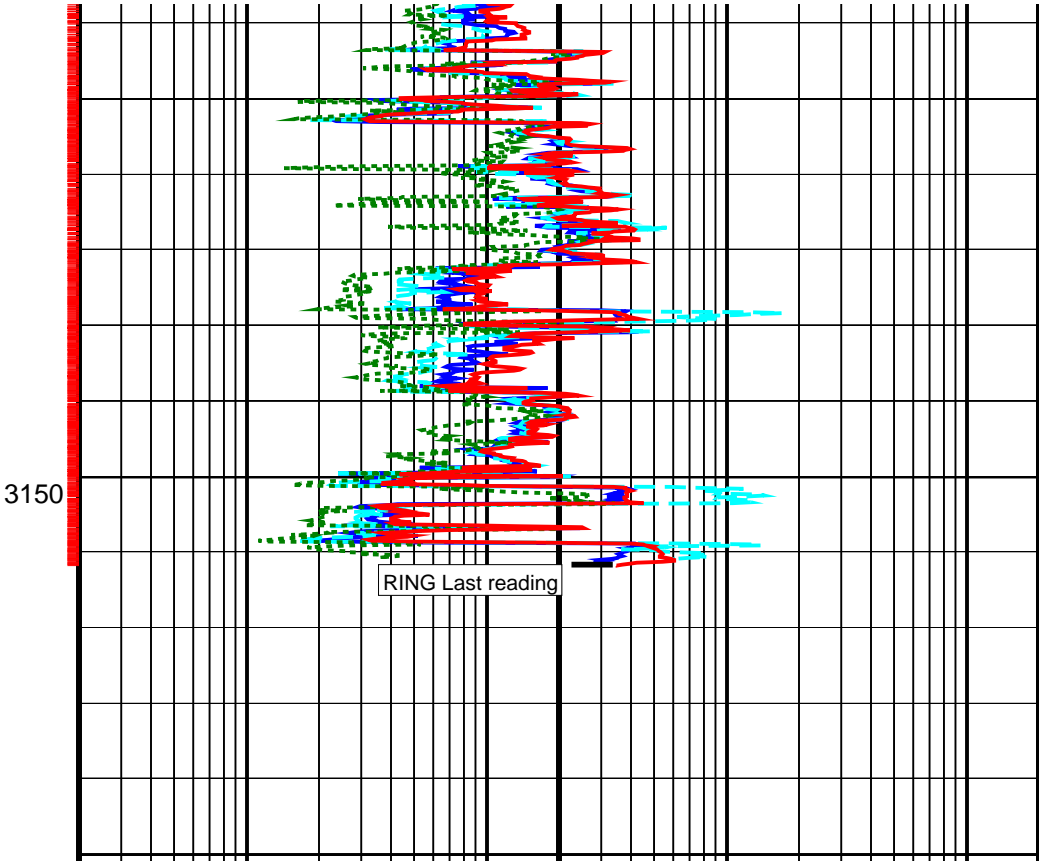
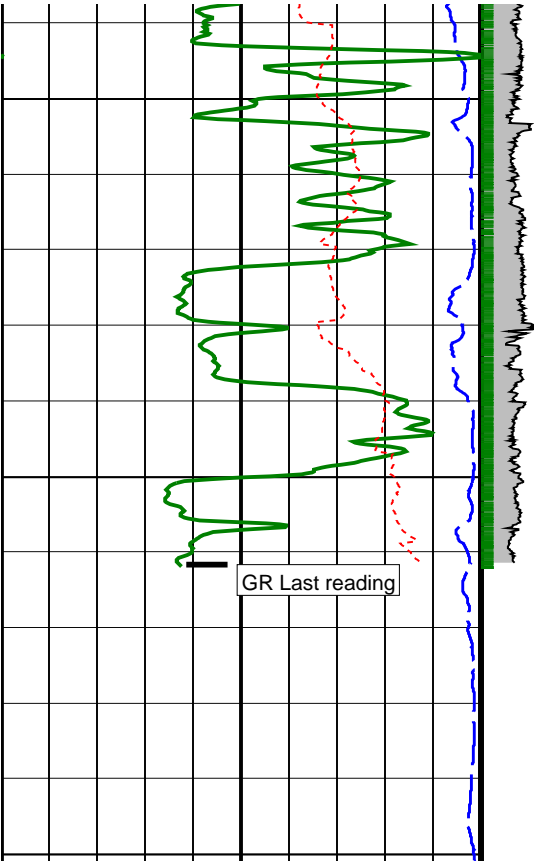
DLIS Name	Description	Value
BDBHCA	RAB: Button Deep Borehole A Factor	-0.035
BDBHCB	RAB: Button Deep Borehole B Factor	-0.018
BHA_COEF_VER	RAB: BHA Coef Generator Version	2.000
BITBHCA	RAB: Bit A Borehole Factor	0.090
BITBHCB	RAB: Bit B Borehole Factor	-0.073
BIT_K_FACTOR	RAB: Bit K Factor	22.722
BMBHCA	RAB: Button Medium Borehole A Factor	0.006
BMBHCB	RAB: Button Medium Borehole B Factor	-0.019
BSBHCA	RAB: Button Shallow Borehole A Factor	-0.009
BSBHCB	RAB: Button Shallow Borehole B Factor	-0.036
BS_RM	Bit Size (RM)	12.250 in
BUT_KIMP_A	RAB: Button Impedance Coeff A	0.002
BUT_KIMP_B	RAB: Button Impedance Coeff B	0.000
DBUTTON_K_FACTOR	RAB: Button Deep K factor	0.003
DHS_VERSION	RAB: DownHole Software Version	5.001
DO	Depth Offset	0.0 m
GRDC	Grid corr angle	-0.980 deg
MBUTTON_K_FACTOR	RAB: Button Medium K Factor	0.003
MST_RM	Mud Sample temperature (RM)	22.000 degC
MW_RM	Mud Weight (RM)	10.350 lbm/gal
OBM	RAB: Oil base Mud	NO
RABEC	RAB: Resistivity Env-Cor	YES
RAB_TEMP_SELECT	RAB Temperature Selection	MEAS
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	19.370 m
RINGBHCA	RAB: Ring Borehole A Factor	0.298
RINGBHCB	RAB: Ring Borehole B Factor	-0.112
RING_KIMP_A	RAB: Ring Impedance Coeff A	0.000
RING_KIMP_B	RAB: Ring Impedance Coeff B	0.000
RING_K_FACTOR	RAB: Ring K Factor	0.100
RMS_RM	Resistivity of Mud Sample (RM)	0.109 ohm.m
SBUTTON_K_FACTOR	RAB: Button Shallow K Factor	0.005
STAB	RAB: Run with Stabilizer	YES
TOOLTYPE	RAB: Azimuthal Tool	YES
TS_VERSION	RAB: ToolScope Software Version	6.101
VRAB6	Rab Tool type (ENP/PILOT)	RAB8_ENP

PIP SUMMARY

└ Gamma Ray Samples
└ Ring Samples







RAB Gamma Ray (GR_RAB)		
(GAPI)		
0		200
Ring Resistivity Time After Bit (TAB_RAB_RING)		
(HR)		
0		10
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)		
(M/HR)		
200		0

RAB
Rotational
Speed
(RPM_RAB)
(RPM)

0 400

Deep Button Resistivity (RES_BD)		
(OHMM)		
0.2		2000
Medium Button Resistivity (RES_BM)		
(OHMM)		
0.2		2000
Shallow Button Resistivity (RES_BS)		
(OHMM)		
0.2		2000
Ring Resistivity (RES_RING)		
(OHMM)		
0.2		2000

PIP SUMMARY

├ Gamma Ray Samples
├ Ring Samples

IDEAL Version: ID8_0C_07
IDF













RAB id8_0c_07 MWD_10 id8_0c_07

8.25-in. Resistivity At-the-Bit / Equipment Identification


Primary Equipment:
Tool Name and Serial Number
Calibration Status

RAB8 – AA
Valid 10

Master: 6-Feb-2003 16:34

8.25-in. Resistivity At-the-Bit Calibration																	
Resistivity: Fixture																	
Phase	Ring/T1 factor			Value	Phase	Ring/T2 factor			Value	Phase	M0/T1 factor			Value			
Master				0.01128	Master				0.01129	Master				1.089			
0.009500 (Minimum)				0.01100 (Nominal)	0.01250 (Maximum)	0.009500 (Minimum)				0.01100 (Nominal)	0.01250 (Maximum)	0.9000 (Minimum)				1.050 (Nominal)	1.200 (Maximum)
Phase	M0/T2 factor			Value	Phase	M2/T1 factor			Value	Phase	M2/T2 factor			Value			
Master				1.071	Master				0.9718	Master				0.9375			
0.9000 (Minimum)				1.050 (Nominal)	1.200 (Maximum)	0.8500 (Minimum)				1.000 (Nominal)	1.150 (Maximum)	0.8500 (Minimum)				1.000 (Nominal)	1.150 (Maximum)
Phase	BTN shallow/T1 factor			Value	Phase	BTN shallow/T2 factor			Value	Phase	BTN medium/T1 factor			Value			
Master				0.0006535	Master				0.0006539	Master				0.0006565			
0.0005700 (Minimum)				0.0006700 (Nominal)	0.0007700 (Maximum)	0.0005700 (Minimum)				0.0006700 (Nominal)	0.0007700 (Maximum)	0.0005700 (Minimum)				0.0006700 (Nominal)	0.0007700 (Maximum)
Phase	BTN medium/T2 factor			Value	Phase	BTN deep/T1 factor			Value	Phase	BTN deep/T2 factor			Value			
Master				0.0006568	Master				0.0006718	Master				0.0006716			
0.0005700 (Minimum)				0.0006700 (Nominal)	0.0007700 (Maximum)	0.0005700 (Minimum)				0.0006700 (Nominal)	0.0007700 (Maximum)	0.0005700 (Minimum)				0.0006700 (Nominal)	0.0007700 (Maximum)

Master: 28-Feb-2003 10:54

8.25-in. Resistivity At-the-Bit Calibration		
Gamma Ray: Blanket		
Phase	Gamma ray factor	Value
Master		9.441
	6.500 (Minimum) 8.000 (Nominal) 9.500 (Maximum)	

SCHLUMBERGER

Survey report 22-Feb-2003 14:25:49 Page 1 of 2

Client.....: ESSO Australia Ltd. Pty.
Field.....: Wildcat

Well.....: Scallop-1 Spud date.....: 2-Feb-2003
API number.....: Last survey date.....: 22-Feb-03
Engineer.....: L. Bon Total accepted surveys...: 10
MD of first survey.....: 2923.00 m
RIG.....: TSF 702 MD of last survey.....: 3174.00 m
STATE.....: Victoria

----- Survey calculation methods-----	----- Geomagnetic data -----
Method for positions.....: Minimum curvature	Magnetic model.....: BGGM version 2002
Method for DLS.....: Mason & Taylor	Magnetic date.....: 14-Feb-2003
	Magnetic field strength...: 1199.67 HCNT
----- Depth reference -----	Magnetic dec (+E/W-).....: 13.24 degrees
Permanent datum.....: MEAN SEA LEVEL	Magnetic dip.....: -68.66 degrees
Depth reference.....: Driller's Depth	
GL above permanent.....: -110.00 m	----- MWD survey Reference Criteria -----
KB above permanent.....: 25.90 m	Reference G.....: 1000.02 mGal
DF above permanent.....: 25.90 m	Reference H.....: 1199.67 HCNT
	Reference Dip.....: -68.66 degrees
----- Vertical section origin-----	Tolerance of G.....: (+/-) 2.50 mGal
Latitude (+N/S-).....: 0.00 m	Tolerance of H.....: (+/-) 6.00 HCNT
Departure (+E/W-).....: 0.00 m	Tolerance of Dip.....: (+/-) 0.45 degrees
----- Platform reference point-----	----- Corrections -----
Latitude (+N/S-).....: 37.24 m	Magnetic dec (+E/W-).....: 13.24 degrees
Departure (+E/W-).....: 2.84 m	Grid convergence (+E/W-)..: -0.98 degrees
	Total az corr (+E/W-).....: 14.22 degrees
Azimuth from rotary table 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

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SCHLUMBERGER Survey Report

22-Feb-2003 14:25:49

Page 2 of 2

Seq #	Measured depth (m)	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 (deg)	At 10m	DLS (deg/ type)	Srvy tool	Tool Corr
1	2923.00	1.35	28.95	0.00	2922.61	37.24	37.24	2.84	37.35	4.36	0.00	TIP	None
2	2936.30	1.36	325.18	13.30	2935.91	37.51	37.51	2.83	37.61	4.31	1.08	MWD	None
3	2964.01	1.45	327.72	27.71	2963.61	38.07	38.07	2.45	38.15	3.68	0.04	MWD	None
4	2993.09	1.51	327.61	29.08	2992.68	38.71	38.71	2.05	38.76	3.03	0.02	MWD	None
5	3023.62	1.56	335.57	30.53	3023.20	39.43	39.43	1.66	39.46	2.41	0.07	MWD	None
6	3051.74	1.55	335.18	28.12	3051.31	40.12	40.12	1.34	40.14	1.92	0.01	MWD	None
7	3080.66	1.55	331.24	28.92	3080.22	40.82	40.82	0.99	40.83	1.39	0.04	MWD	None
8	3110.84	1.52	333.82	30.18	3110.39	41.53	41.53	0.62	41.54	0.85	0.02	MWD	None
9	3138.26	1.52	333.59	27.42	3137.80	42.19	42.19	0.30	42.19	0.40	0.00	MWD	None
10	3174.00	1.52	333.59	35.74	3173.52	43.04	43.04	-0.13	43.04	359.83	0.00	Projector to TD	

[(c)2003 IDEAL ID8_OC_07]

Company: **Esso Australia Pty. Ltd.**

Schlumberger

Well: **Scallop-1**

Field: **Wildcat**

Rig: **TSF 702**

State: **Victoria**

GeoVision Resistivity*
1:500 Measured Depth
Recorded Mode Log

