

| | | | | | | | | | | | |
|---------------------------|-----------------|-----------|--|--|--|--|--|--|--|--|--|
| 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 | | | | | | | | | |

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 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 |

RAB8* downhole software: 5.0B14
PowerPulse* downhole software: 6.1C00

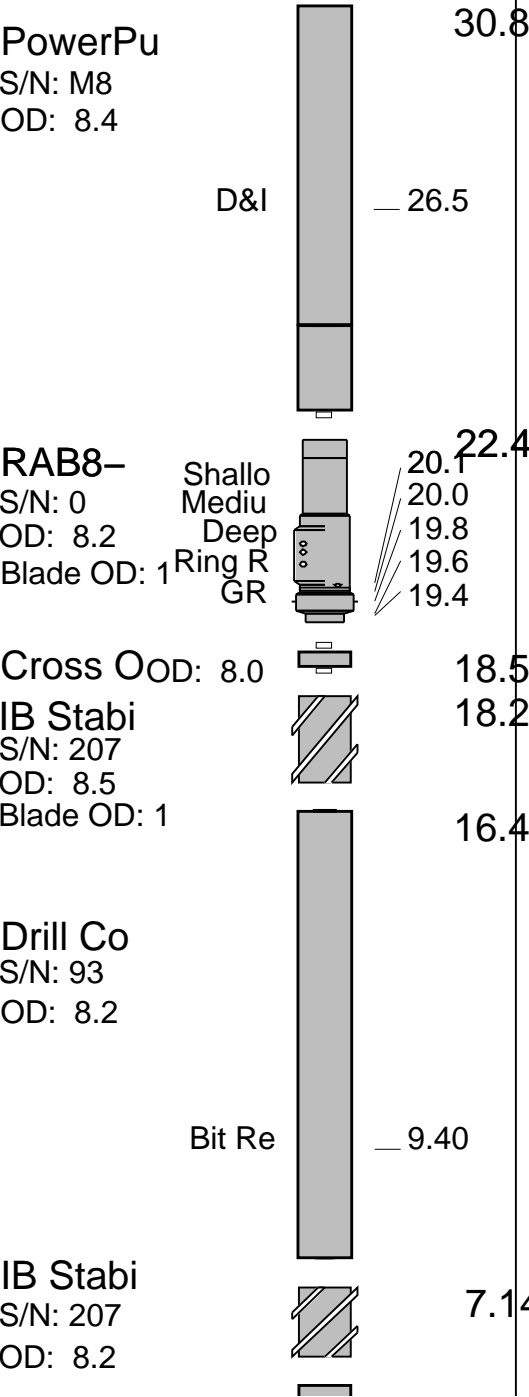
EQUIPMENT DESCRIPTION

RUN1

RUN

RUN

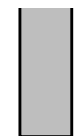
DOWNHOLE EQ



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

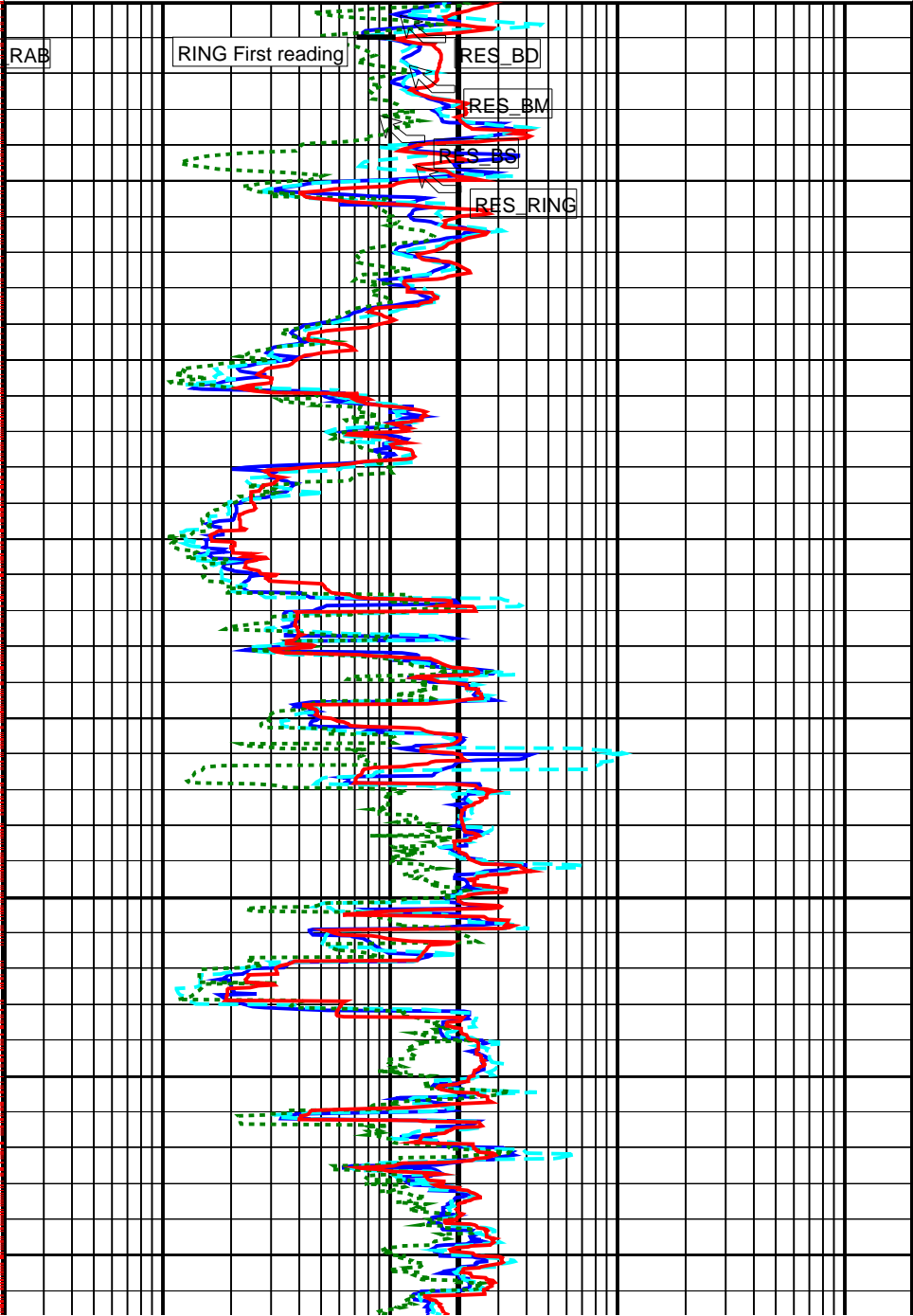
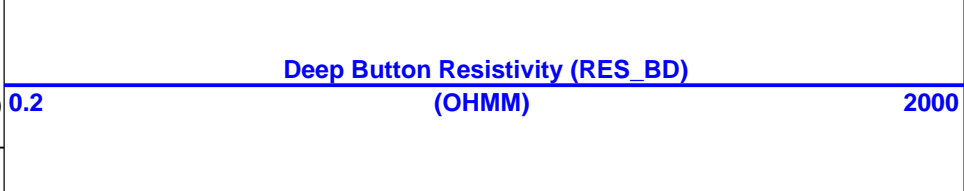
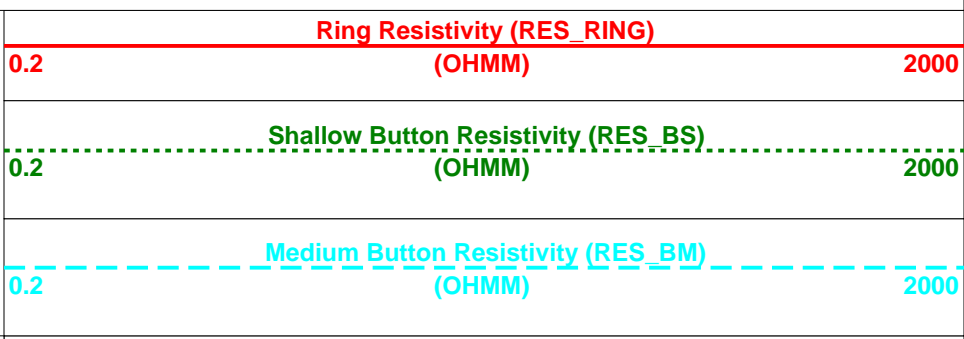
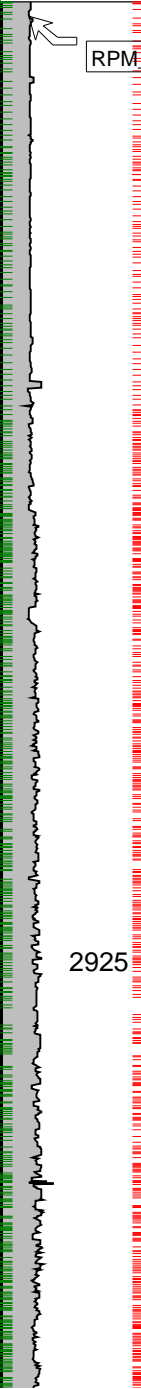
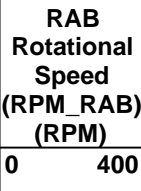
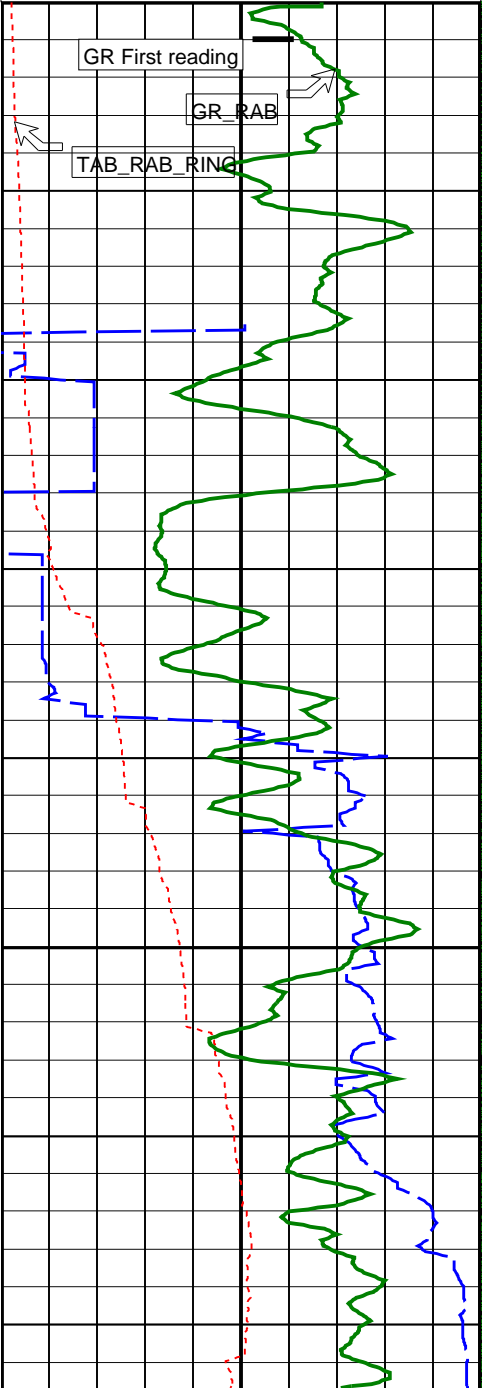
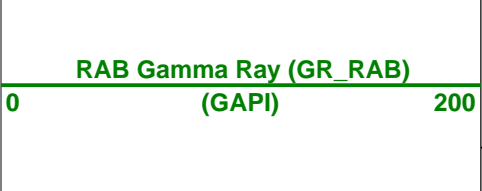
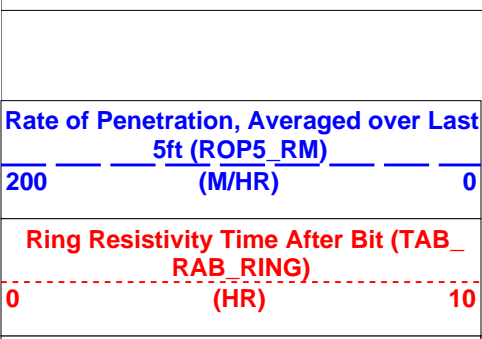
Format: GeoVISION Resistivity Vertical Scale: 1:200 Graphics File Created: 28-Feb-2003 15:32

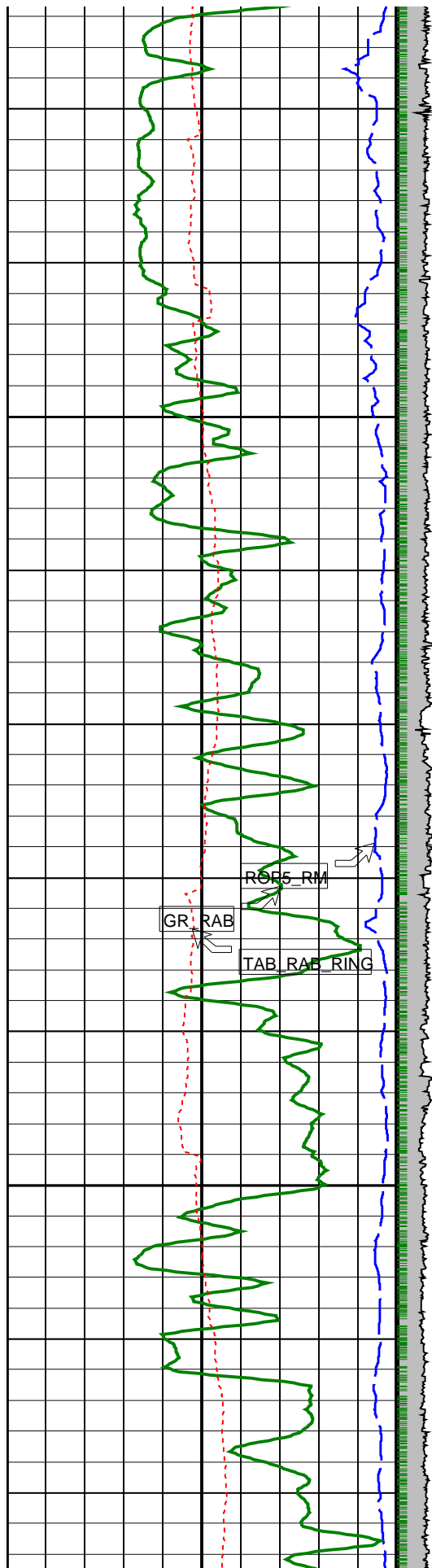
Parameters

| 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





2950

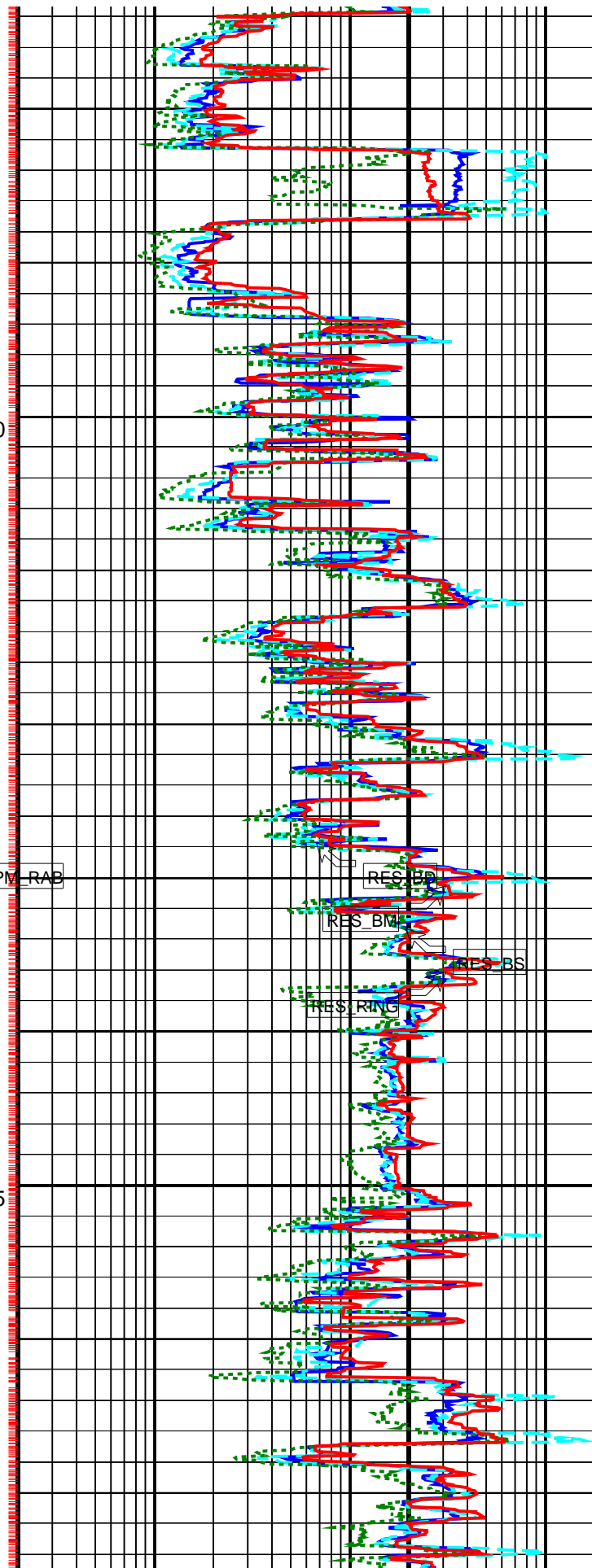
2975

RPM_RAB

GR_RAB

RAB5_RM

TAB_RAB_RING

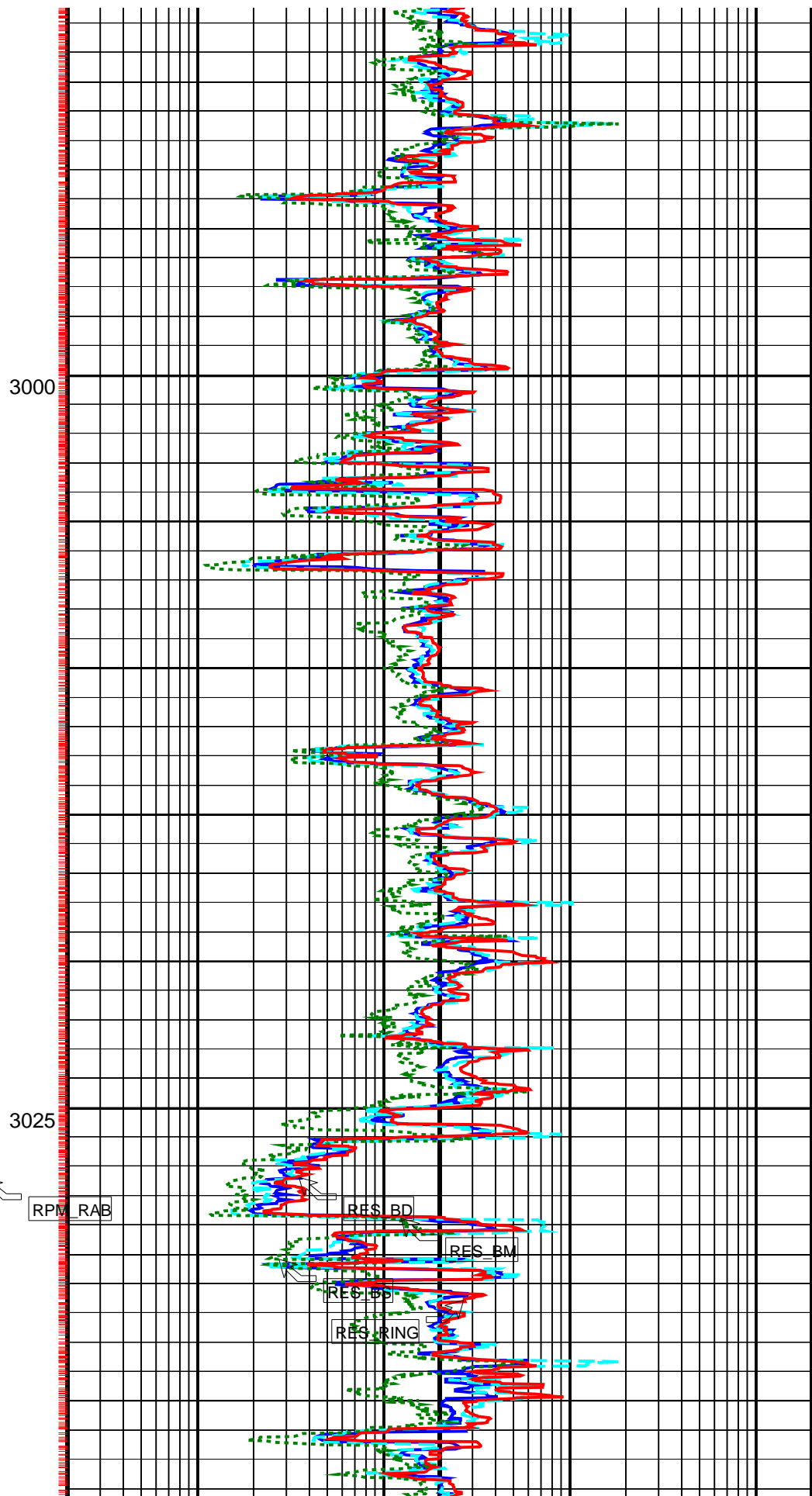
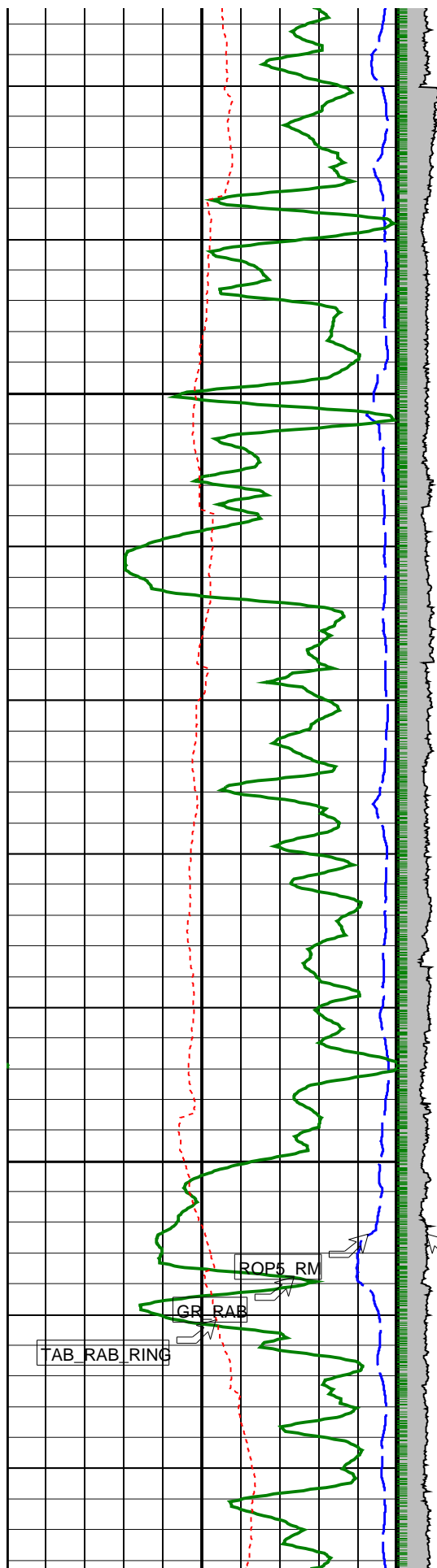


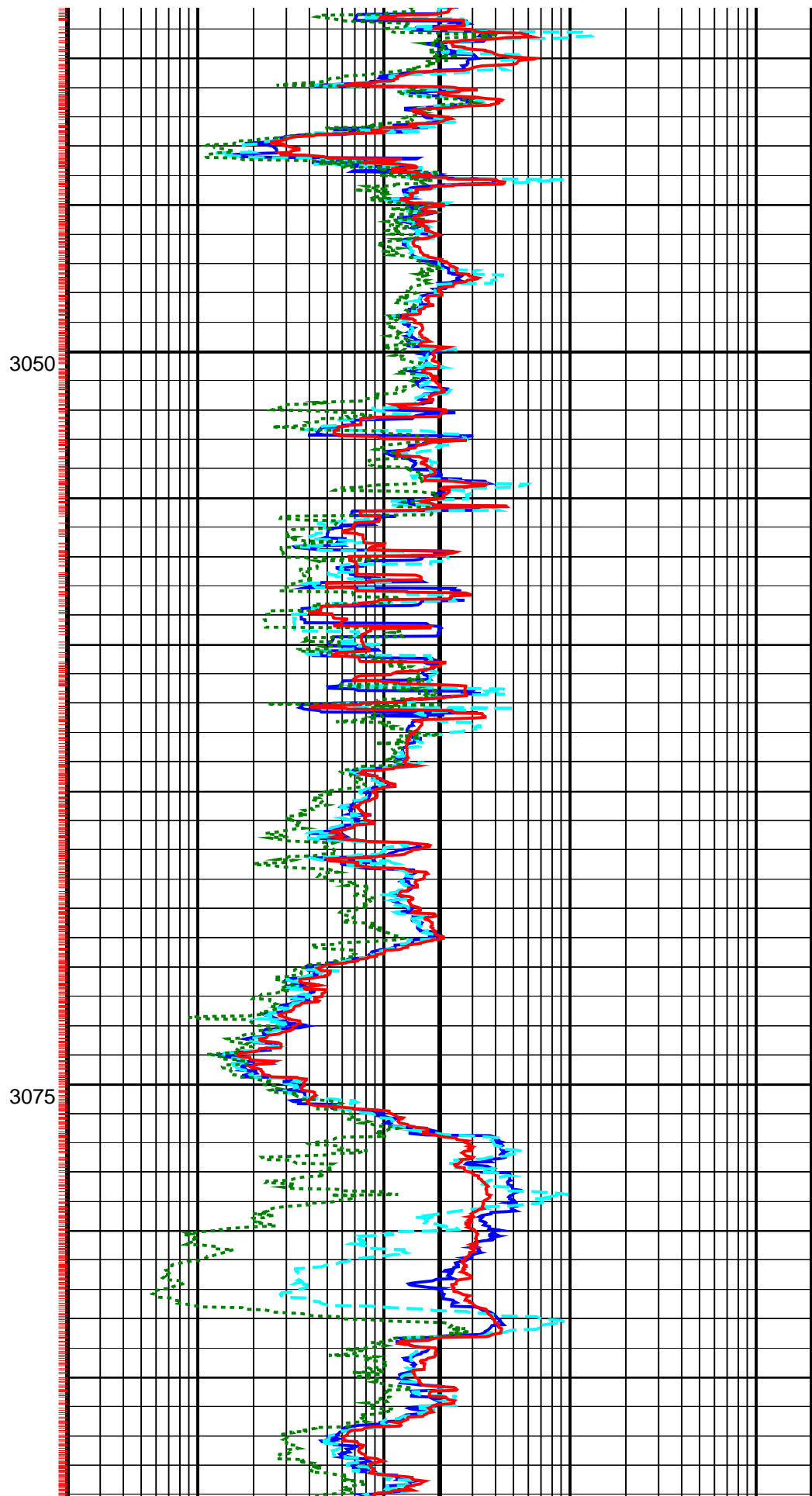
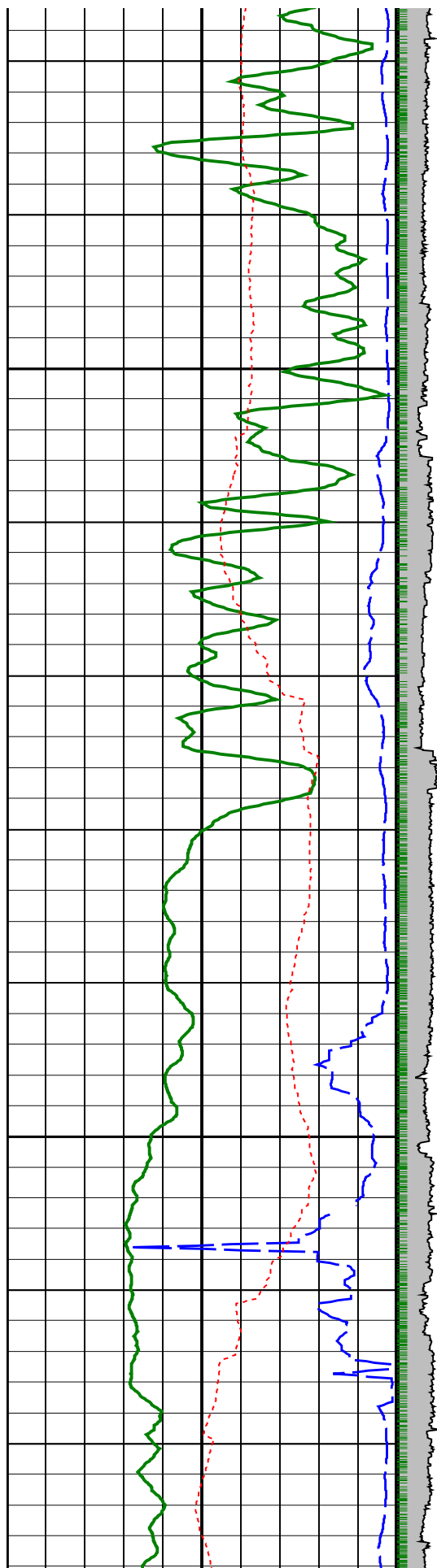
RES_BD

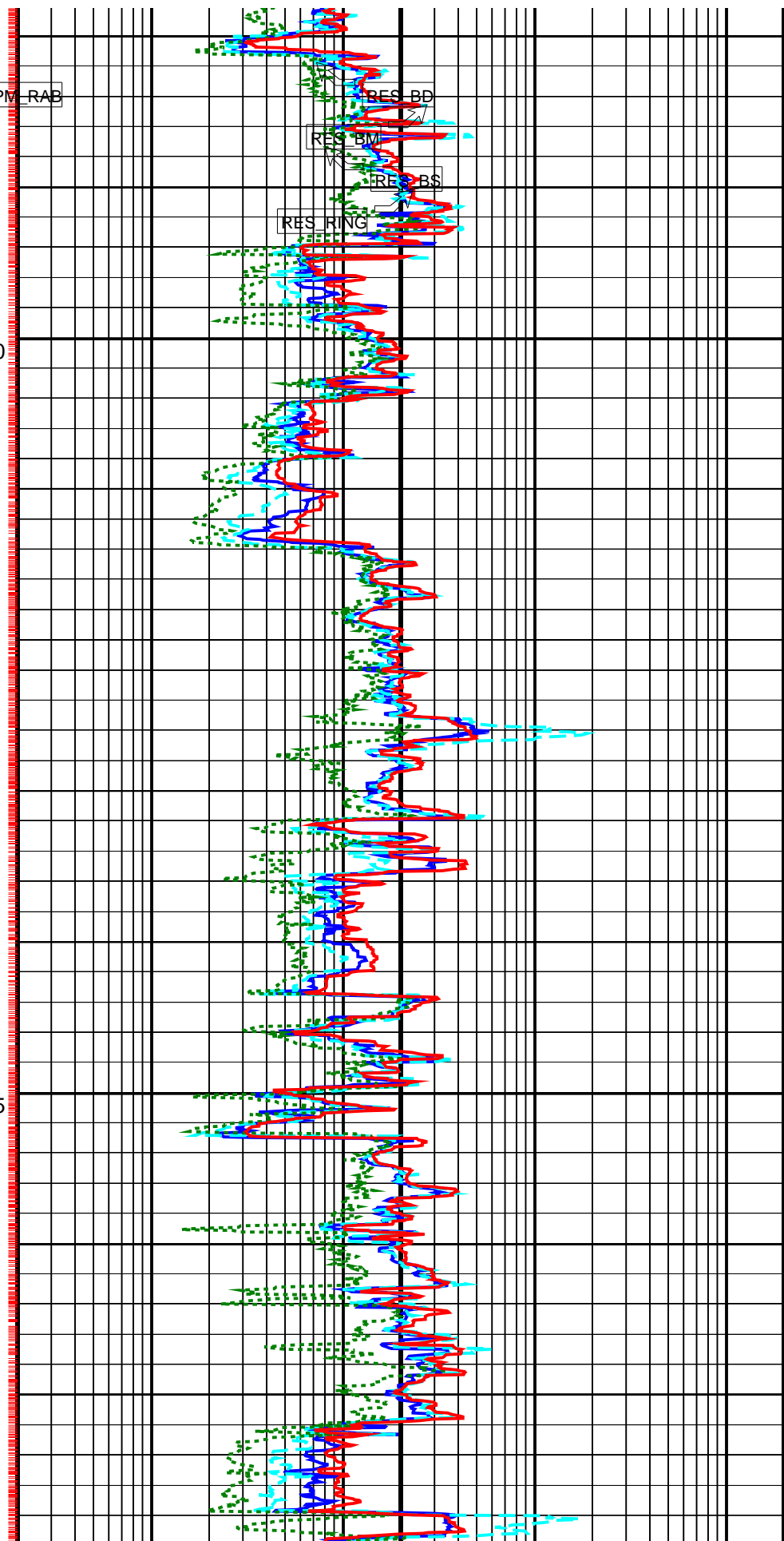
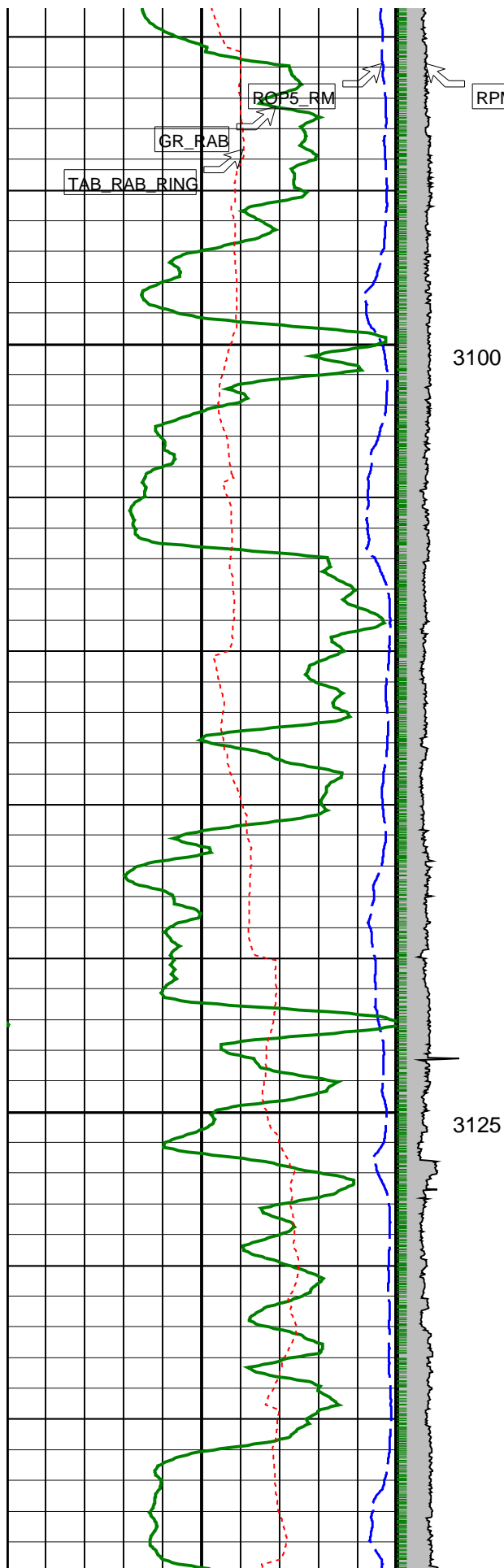
RES_BMG

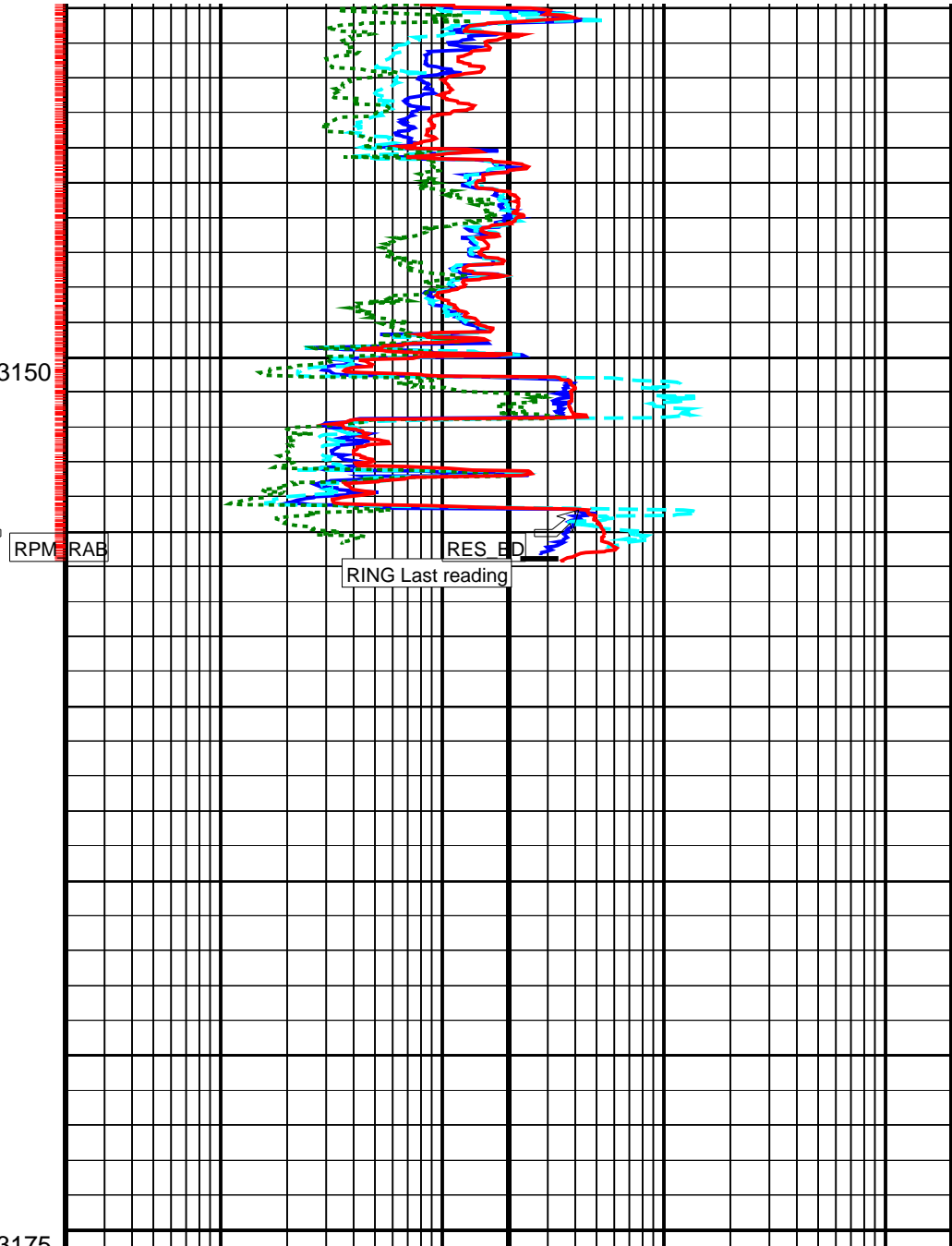
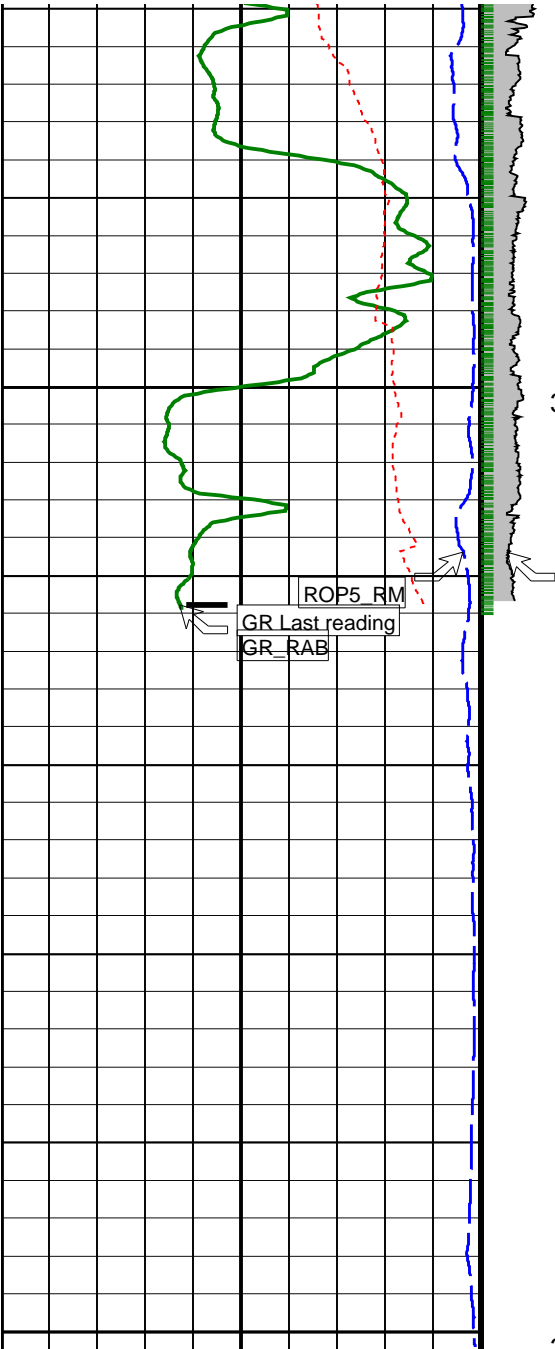
RES_BS

RES_RING









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

3175
RAB
Rotational
Speed
(RPM_RAB)
(RPM)
0 400

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

PIP SUMMARY

IDEAL Version: ID8_OC_07
IDF

RAB id8_Oc_07 MWD_10 id8_Oc_07

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

Primary Equipment:
Tool Name and Serial Number
Calibration Status

RAB8 - AA 10
Valid

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
API number.....:
Engineer.....: L. Bon

Spud date.....: 2-Feb-2003
Last survey date.....: 22-Feb-03
Total accepted surveys....: 10
MD of first survey.....: 2923.00 m
MD of last survey.....: 3174.00 m

RIG.....: TSF 702
STATE.....: Victoria

----- Survey calculation methods-----
Method for positions.....: Minimum curvature

----- Geomagnetic data -----
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

[(c)2003 IDEAL ID8_OC_07]
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 Azim (deg) | DLS (deg/10m) | 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 | Projection 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*
1:200 Measured Depth
Recorded Mode Log

