

Bit Run Summary

| Run number | | 5 | 6 | 7 | 8 | | | | | | |
|------------------------|-----|-----------|-----------|-----------|-----------|--|--|--|--|--|--|
| Bit size | in. | 8.5 | 8.5 | 8.5 | 8.5 | | | | | | |
| Bit start depth | m | 2532.0 | 2688.0 | 2866.0 | 3024.0 | | | | | | |
| Bit end depth | m | 2688.0 | 2866.0 | 3024.0 | 3369.0 | | | | | | |
| Top interval logged | m | 2527.0 | 2660.4 | 2832.8 | 2990.8 | | | | | | |
| Bottom interval logged | m | 2681.9 | 2859.9 | 3015.2 | 3360.2 | | | | | | |
| Begin log: time | | 21:00 | 01:25 | 02:43 | 07:48 | | | | | | |
| Begin log: date | | 26-Jan-05 | 30-Jan-05 | 02-Feb-05 | 04-Feb-05 | | | | | | |
| End log: time | | 02:03 | 06:58 | 12:49 | 18:50 | | | | | | |
| End log: date | | 29-Jan-05 | 01-Feb-05 | 03-Feb-05 | 05-Feb-05 | | | | | | |
| Mud data | | | | | | | | | | | |
| Depth | m | 2676.0 | 2838.0 | 2957.0 | 3226.0 | | | | | | |

| Type | | KCL/PHPA/Glycol | KCL/PHPA/Glycol | KCL/PHPA/Glycol | KCL/PHPA/Glycol | | | | | | |
|---------------------------|----------|-----------------|-----------------|-----------------|-----------------|--------|--|--|--|--|--|
| Mud weight | ppg | 10.1 | 10.0 | 10.2 | 10.2 | | | | | | |
| Solids | % | 8.9 | 8.9 | 9.1 | 9.2 | | | | | | |
| Chlorides | mg/L | 40000 | 40000 | 40000 | 39000 | | | | | | |
| Rm | ohm.m@°C | 0.11 @25.2 | 0.11 @24.7 | 0.11 @22.9 | 0.11 @23.4 | | | | | | |
| Rmf | ohm.m@°C | 0.09 @24.6 | 0.09 @24.1 | 0.09 @22.3 | 0.09 @23.3 | | | | | | |
| Rmc | ohm.m@°C | 0.18 @25.8 | 0.14 @25.3 | 0.15 @23.8 | 0.16 @23.6 | | | | | | |
| Potassium | % | 6.0 | 7.0 | 6.0 | 6.0 | | | | | | |
| Environmental data | | | | | | | | | | | |
| GR | | | | | | | | | | | |
| Mud weight | ppg | 10.1 | 10.0 | 10.2 | 10.2 | | | | | | |
| Bit size | in. | 8.5 | 8.5 | 8.5 | 8.5 | | | | | | |
| Resistivity | | | | | | | | | | | |
| Neutron porosity | | | | | | | | | | | |
| Hole Size | in. | 8.5 | 8.5 | 8.5 | 8.5 | | | | | | |
| Mud weight | ppg | 10.1 | 10.0 | 10.2 | 10.2 | | | | | | |
| Temperature | °C | 86.3 | 84.7 | 85.5 | 97.3 | | | | | | |
| Mud salinity | ppm | 63487 | 69810 | 62996 | 64793 | | | | | | |
| Formation salinity | | | | | | | | | | | |
| Recording rate 1 | SEC | 10 sec. | 10 sec. | 10 sec. | 10 sec. | | | | | | |
| Recording rate 2 | SEC | 10 sec. | 10 sec. | 10 sec. | 10 sec. | | | | | | |
| Filtering GR | | 3 pt. | 3 pt. | 3 pt. | 3 pt. | | | | | | |
| Filtering density | | 3 pt. | 3 pt. | 3 pt. | 3 pt. | | | | | | |
| Filtering Neutron | | 3 pt. | 3 pt. | 3 pt. | 3 pt. | | | | | | |
| Company representative | | B. Steel | R. Bain | R. Morris | | | | | | | |
| Anadrill personnel | | J. Dolan | K. Handley | M. Y. Tan | C. Soper | D. Hay | | | | | |

DISCLAIMER

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| | | |
|--|---|--|
| OTHER SERVICES FOR RUN5 Directional Drilling D&I Survey | OTHER SERVICES FOR RUN6 Directional Drilling D&I Survey | OTHER SERVICES FOR RUN7 Directional Drilling D&I Survey |
| REMARKS: RUN NUMBER 5 8-1/2 in. hole section was drilled from 2532.0 m to 2688.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for Mud Weight, Tool and Bit Size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for the bit size, borehole salinity, temperature and mud hydrogen index. PEF readings were affected by the presence of Barite in the mud system. Mud type is KCL/PHPA/Glycol. POOH for bit change. | REMARKS: RUN NUMBER 6 8-1/2 in. hole section was drilled from 2688.0 m to 2866.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for Mud Weight, Tool and Bit Size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for the bit size, borehole salinity, temperature and mud hydrogen index. PEF reading were affected by the presence of Barite in the mud system. Mud type is KCL/PHPA/Glycol. POOH for bit change. | REMARKS: RUN NUMBER 7 8-1/2 in. hole section was drilled from 2866.0 m to 3024.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for Mud Weight, Tool and Bit Size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for the bit size, borehole salinity, temperature and mud hydrogen index. Ultrasonic Caliper not available during sliding intervals. PEF readings were affected by the presence of Barite in the mud system. |

Mud type is KCL/PHPA/Glycol.

POOH for bit change.

EQUIPMENT DESCRIPTION

RUN5

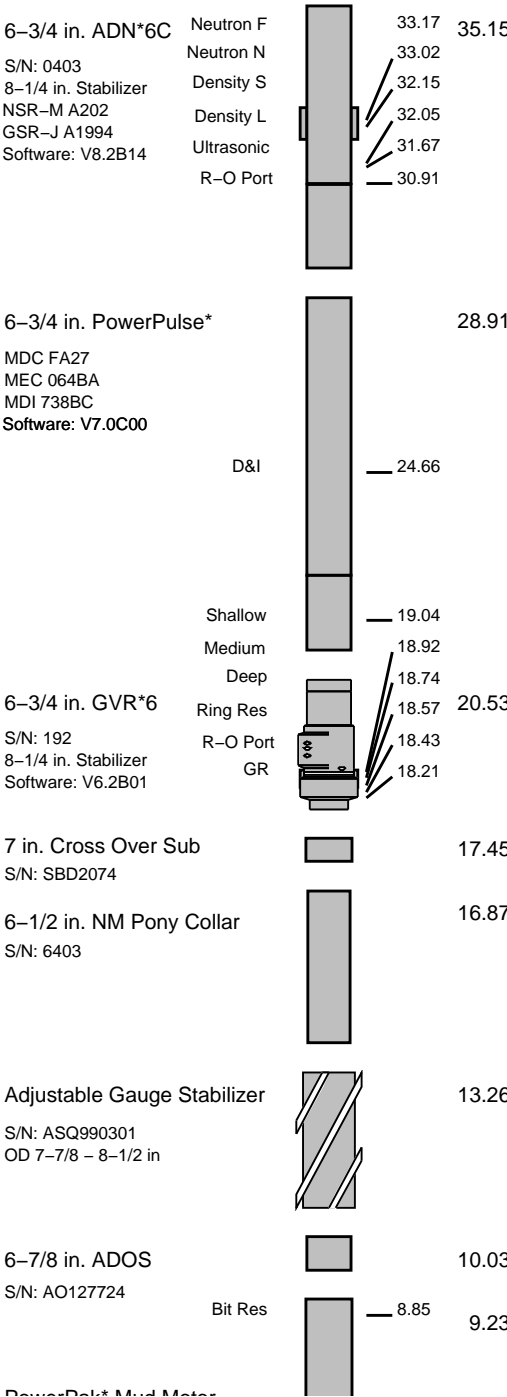
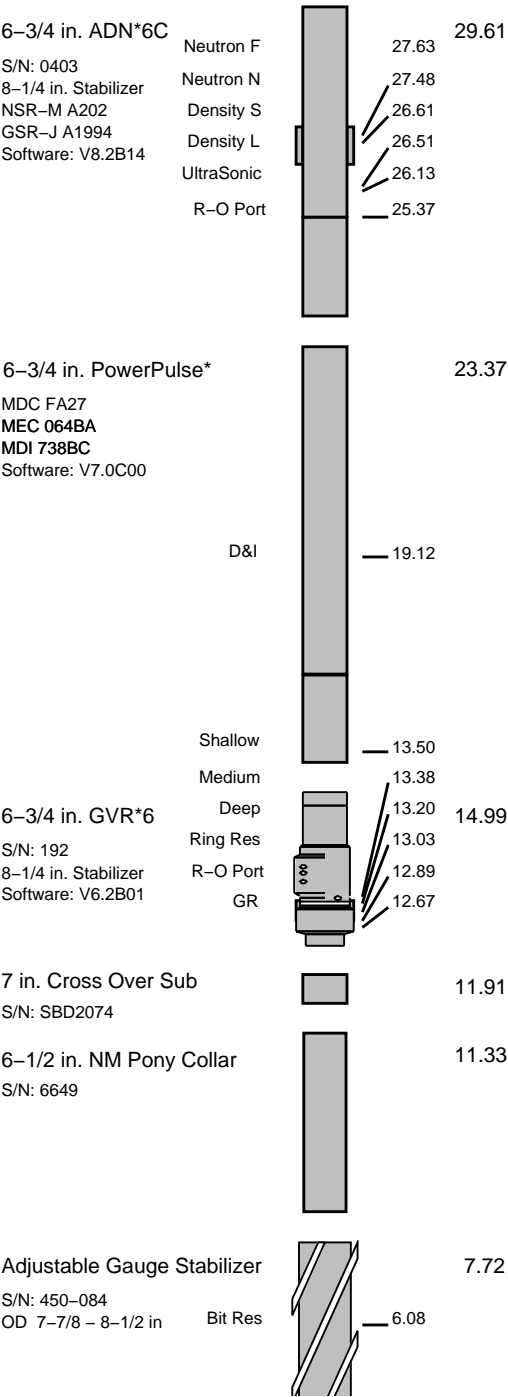
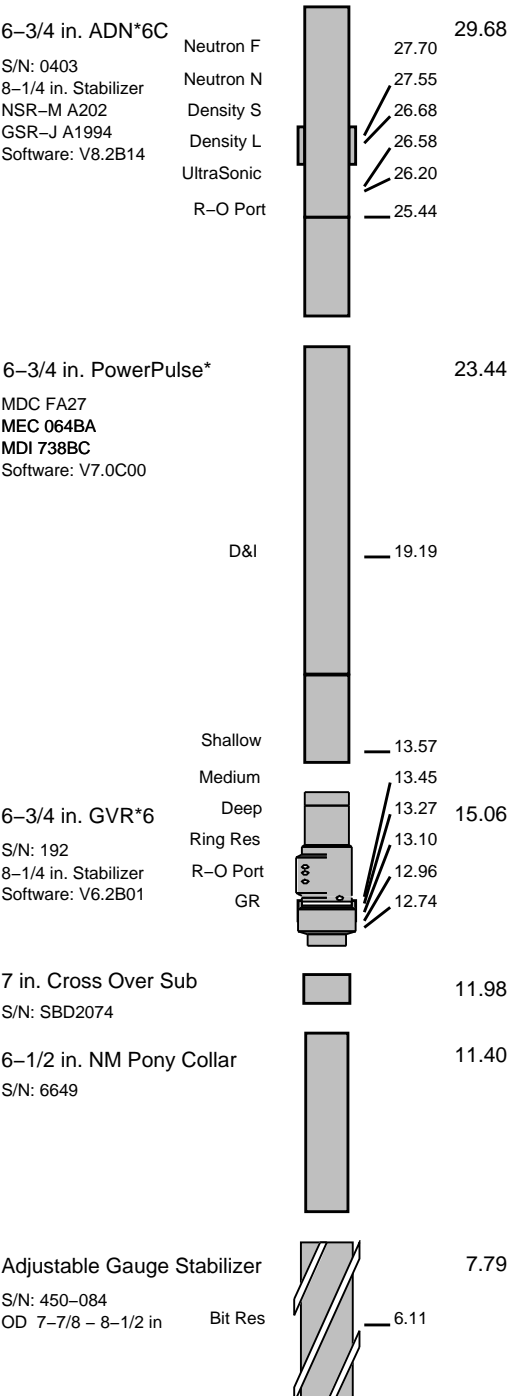
RUN6

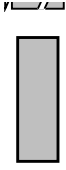

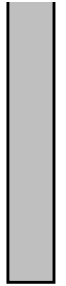





RUN7

DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT



| | | |
|---|--|--|
| 6-3/8 in. NM Pony Collar S/N: GS97-26  4.56 | 6-3/8 in. NM Pony Collar S/N: GS97-26  4.49 | PowerPak Mud Motor A700GT S/N: N7310 1.15 deg Bend 8-3/8 in. Motor Sleeve  |
| 6-1/2 in. NB Roller Reamer S/N: GU1490  2.07 | 8-1/2 in. NB Stabilizer S/N: DOTS3229  2.00 | |
| Hughes Insert Bit MX30D S/N: 6023698 OD 8-1/2 in.  0.00 0.24 | Hughes Insert Bit MX30DX S/N: 6025358 OD 8-1/2 in.  0.00 0.24 | Smith Insert Bit GF11Y S/N: MX0600 OD 8-1/2 in.  0.00 0.25 |
| Maximum string diameter 8.50 in. All lengths in Meters | Maximum string diameter 8.50 in. All lengths in Meters | Maximum string diameter 8.50 in. All lengths in Meters |

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| | | |
|---|----------------------------|----------------------------|
| OTHER SERVICES FOR RUN8 Directional Drilling D&I Survey | OTHER SERVICES FOR RUN | OTHER SERVICES FOR RUN |
| REMARKS: RUN NUMBER 8 8-1/2 in. hole section was drilled from 3024.0 m to 3369.0 m. Depth is referenced to Driller's Depth. All data presented is from tool memory. GR corrected for Mud Weight, Tool and Bit Size. GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature. Neutron porosity is calculated with a limestone matrix and is corrected for the bit size, borehole salinity, temperature and mud hydrogen index. Ultrasonic Caliper not available during sliding intervals. PEF readings were affected by the presence of Barite in the mud system. Mud type is KCL/PHPA/Glycol. POOH due to well TD. | REMARKS: RUN NUMBER | REMARKS: RUN NUMBER |

| EQUIPMENT DESCRIPTION | | |
|-----------------------|-----|-----|
| RUN8 | RUN | RUN |
| | | |

DOWNHOLE EQUIPMENT

6-3/4 in. ADN*6C Neutron F 33.17 35.15
 S/N: 0403 Neutron N 33.02
 8-1/4 in. Stabilizer Density S 32.15
 NSR-M A202 Density L 32.05
 GSR-J A1994 UltraSonic 31.67
 Software: V8.2B14 R-O Port 30.91

6-3/4 in. PowerPulse* 28.91
 MDC FA27
 MEC 064BA
 MDI 738BC
 Software: V7.0C00

D&I 24.66

Shallow 19.04

Medium 18.92

Deep 18.74

6-3/4 in. GVR*6 Ring Res 18.57 20.53
 S/N: 192 R-O Port 18.43
 8-1/4 in. Stabilizer GR 18.21
 Software: V6.2B01

7 in. Cross Over Sub 17.45
 S/N: SBD2074

6-1/2 in. NM Pony Collar 16.87
 S/N: 6403

Adjustable Gauge Stabilizer 13.26
 S/N: ASQ990301
 OD 7-7/8 - 8-1/2 in

6-7/8 in. ADOS 10.03
 S/N: AO127724

Bit Res 8.85 9.23

PowerPak* Mud Motor
 A700GT S/N: N7310
 1.15 deg Bend
 8-3/8 in. Motor Sleeve

Reed Hycalog PDC Bit
DSX 173 S/N: 208594
OD 8-1/2 in.



0.00

0.25

Maximum string diameter 8.50 in.
All lengths in Meters

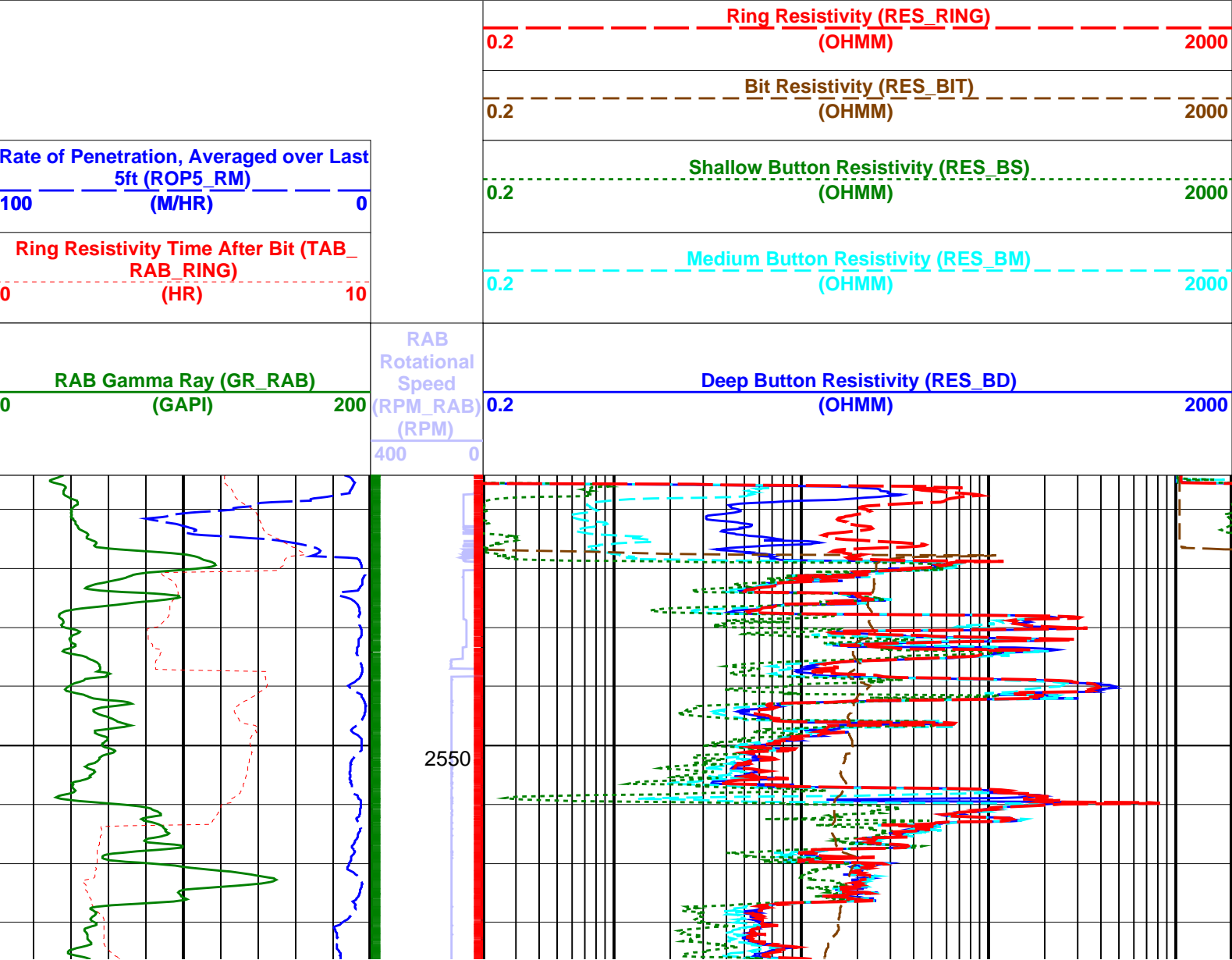
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IDF

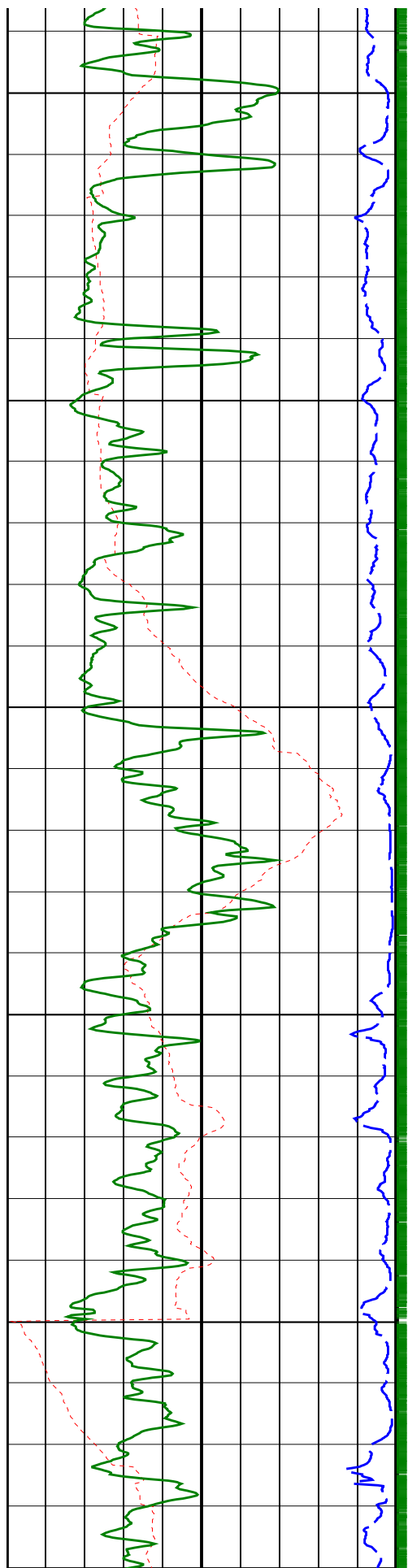
RAB id9_1c_01 MWD_10 id9_1c_01
ADN id9_1c_01

Format: GeoVISION Resistivity Log Vertical Scale: 1:500 Graphics File Created: 24-Feb-2005 11:21

PIP SUMMARY

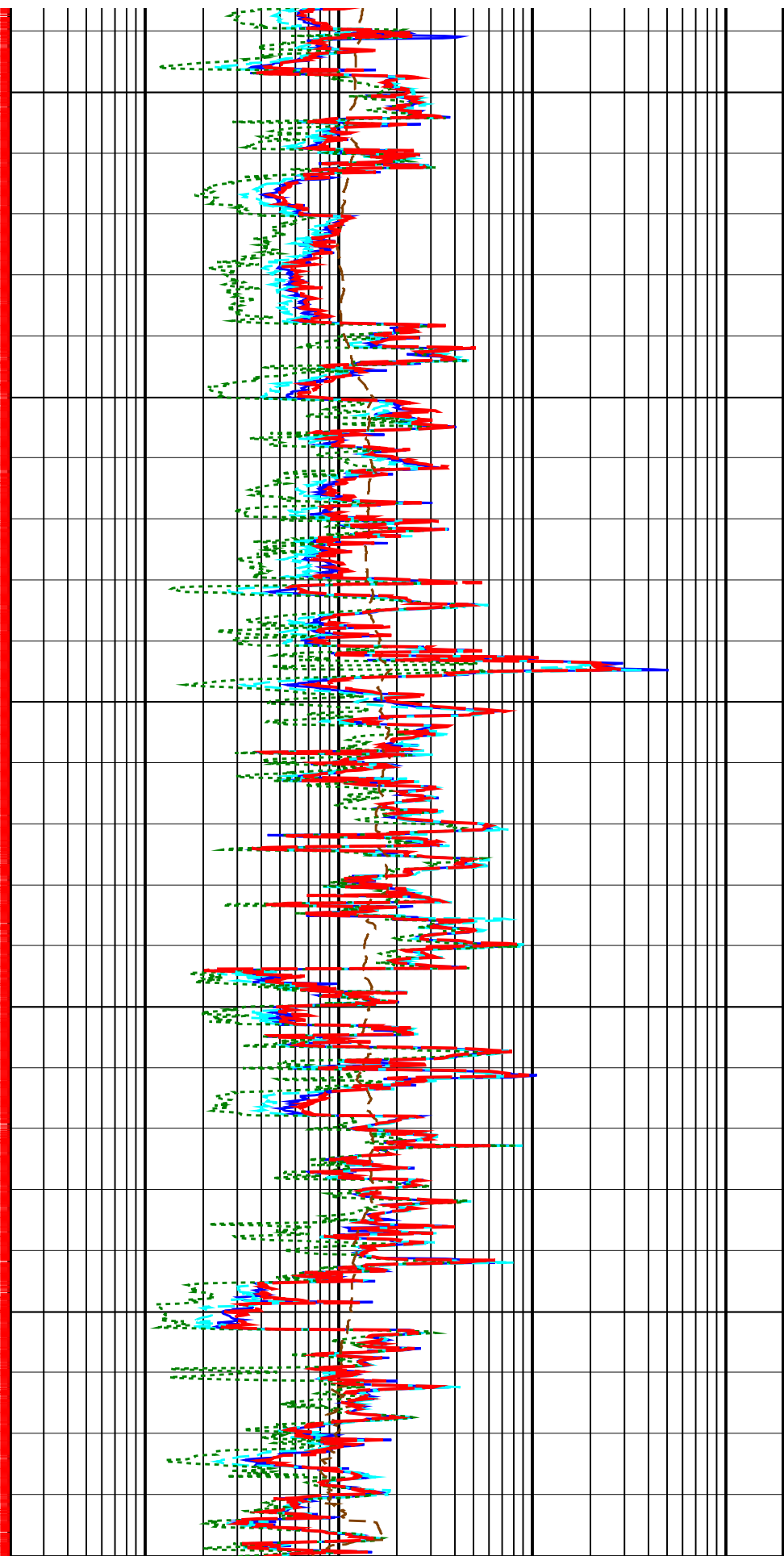
Gamma Ray Samples
Ring Samples

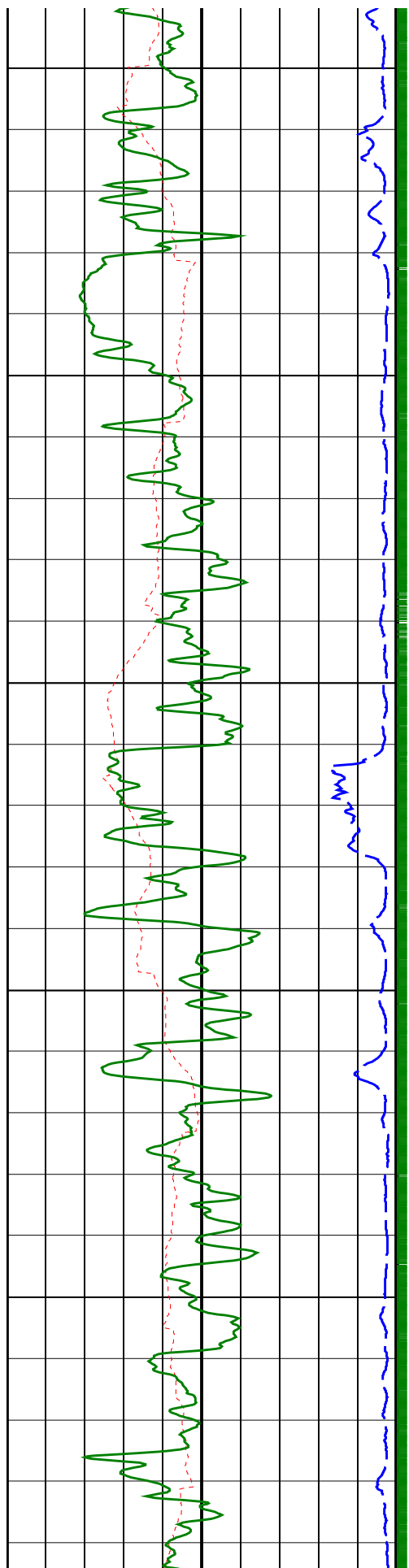




2600

2650

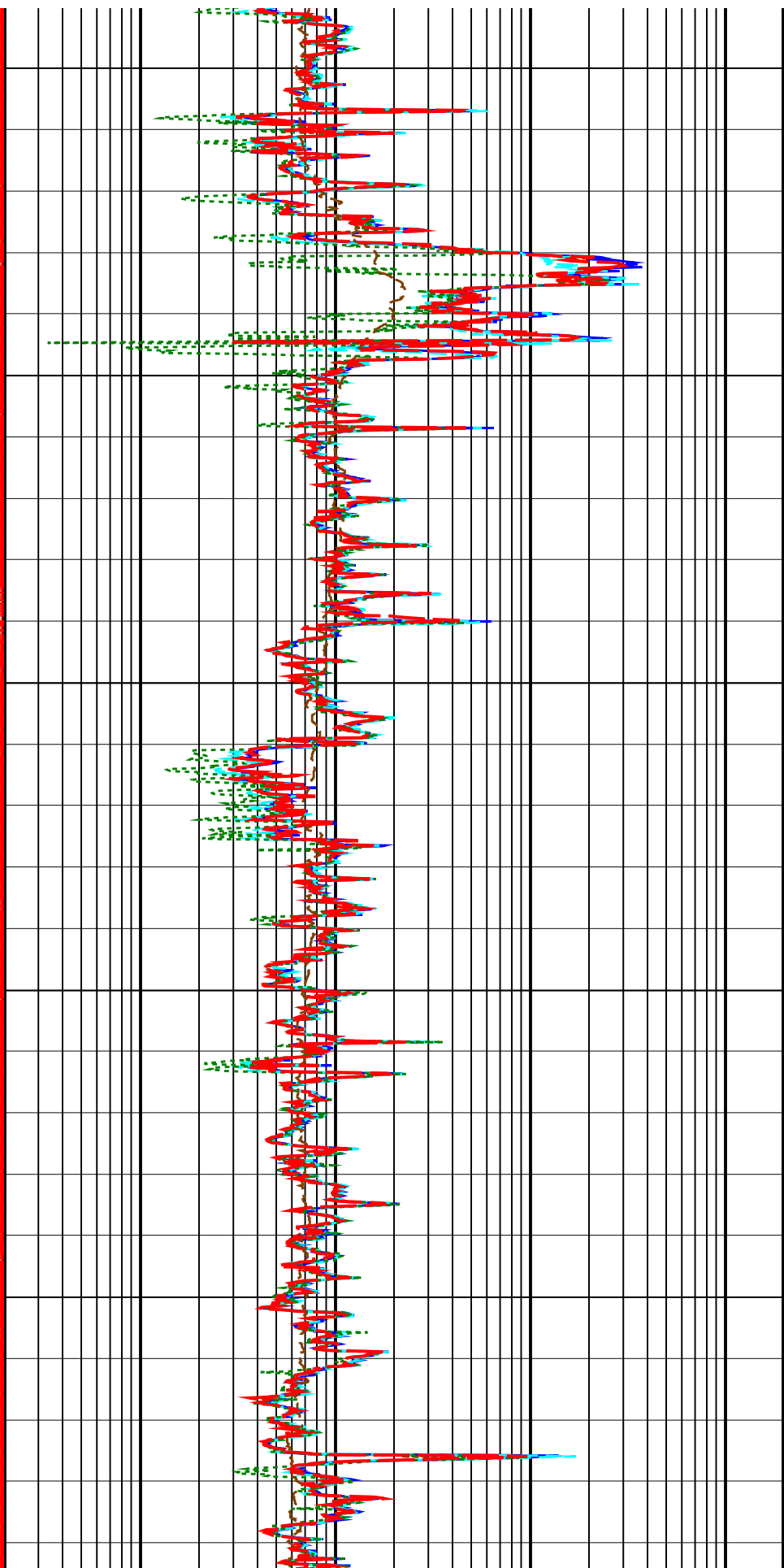


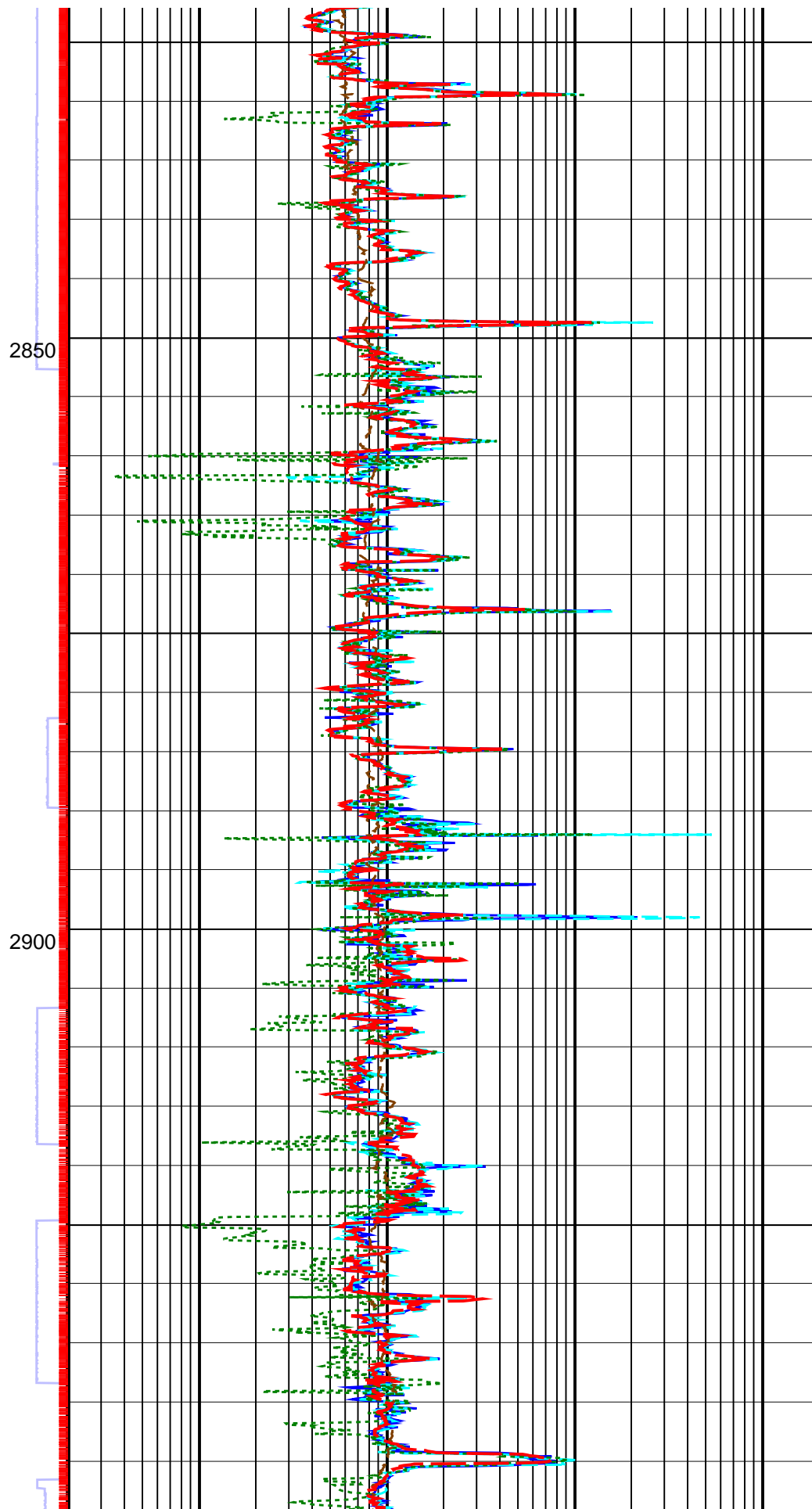
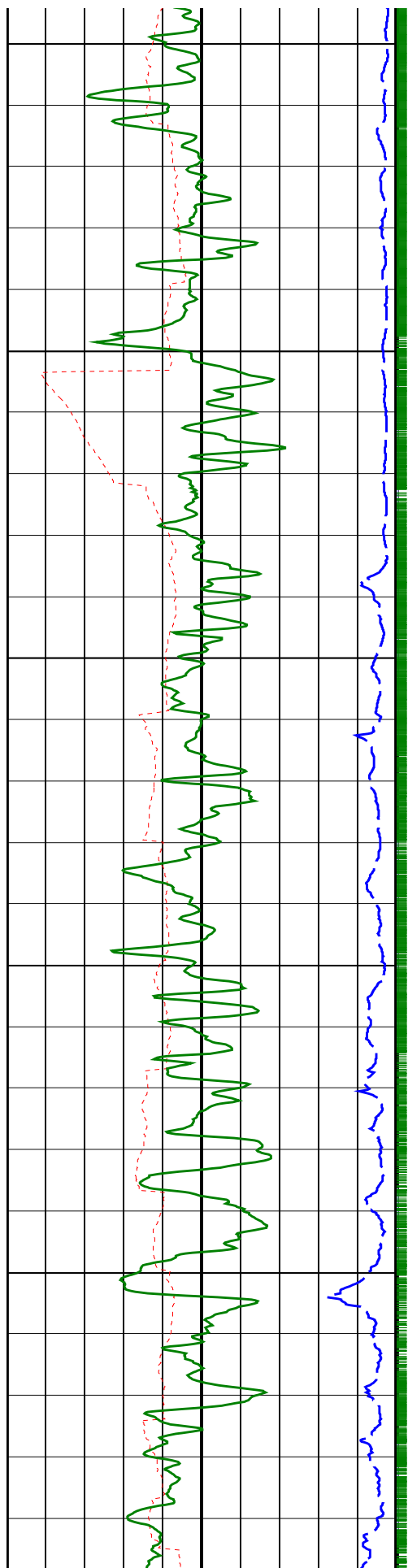


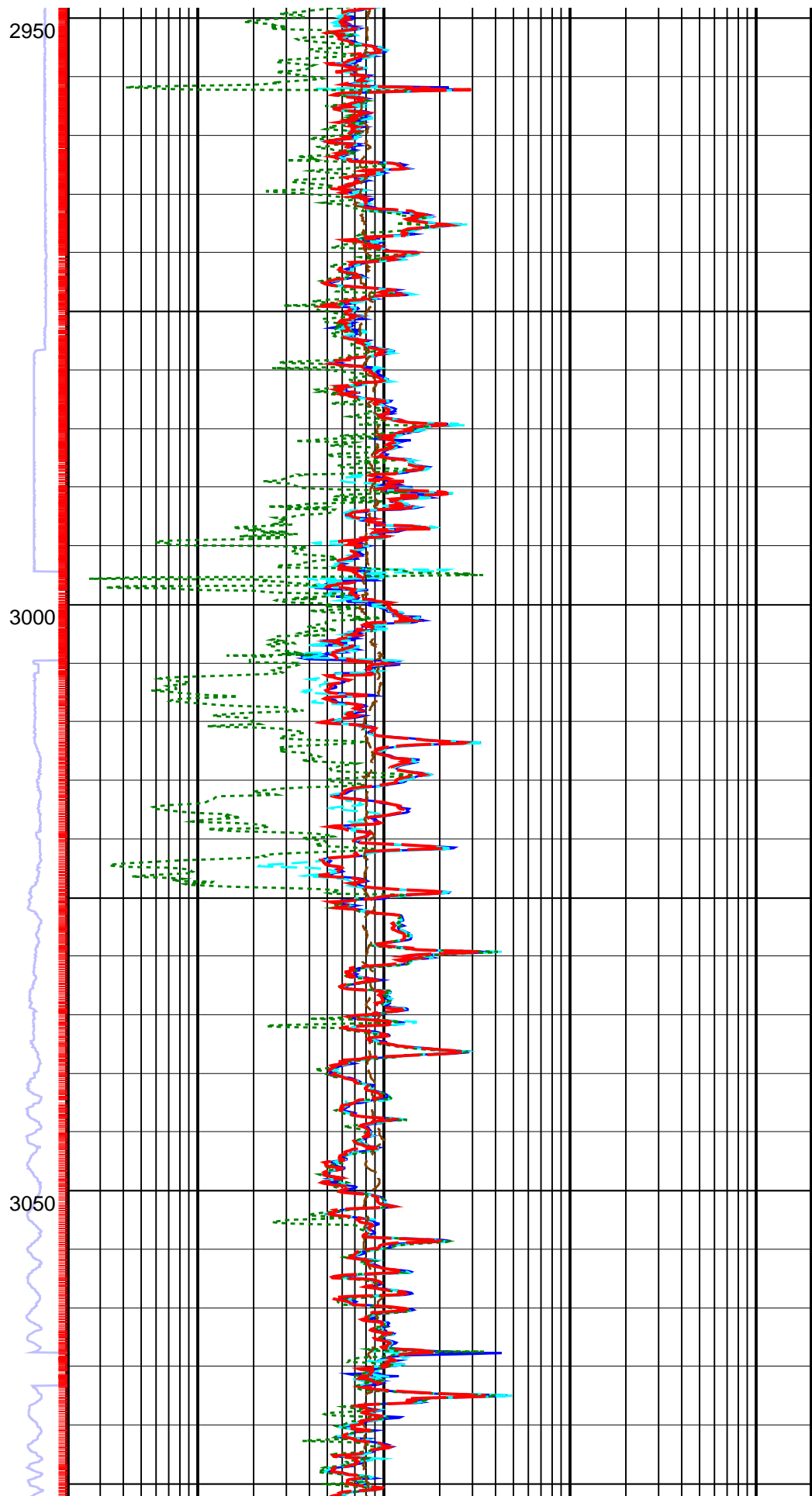
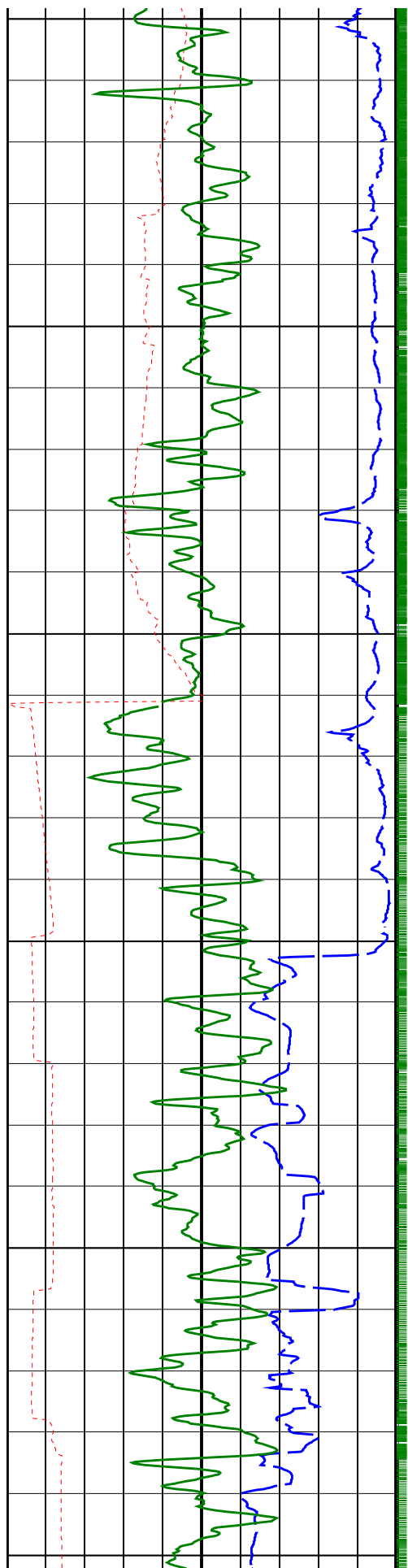
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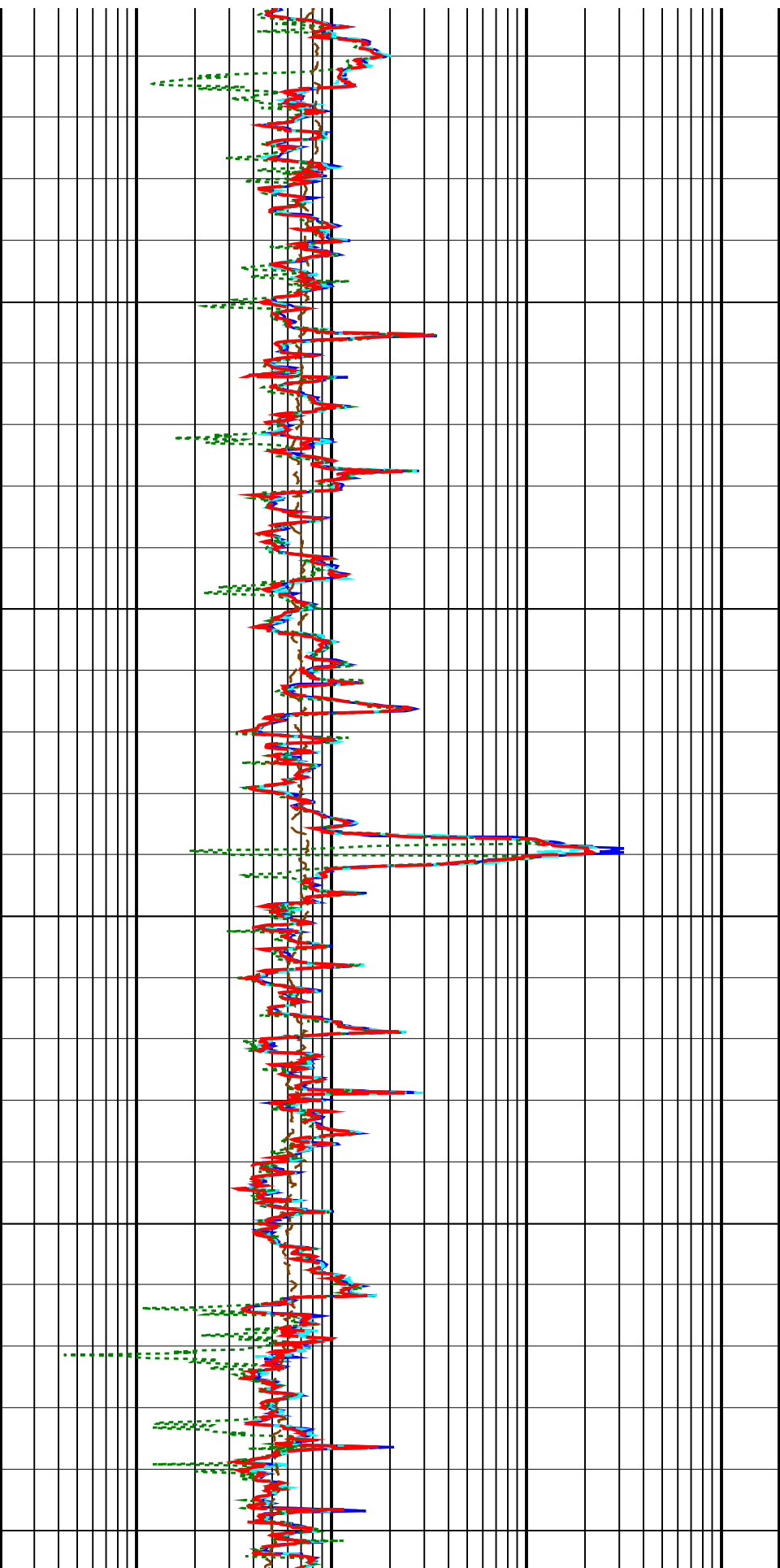
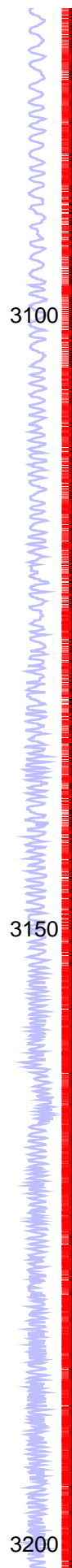
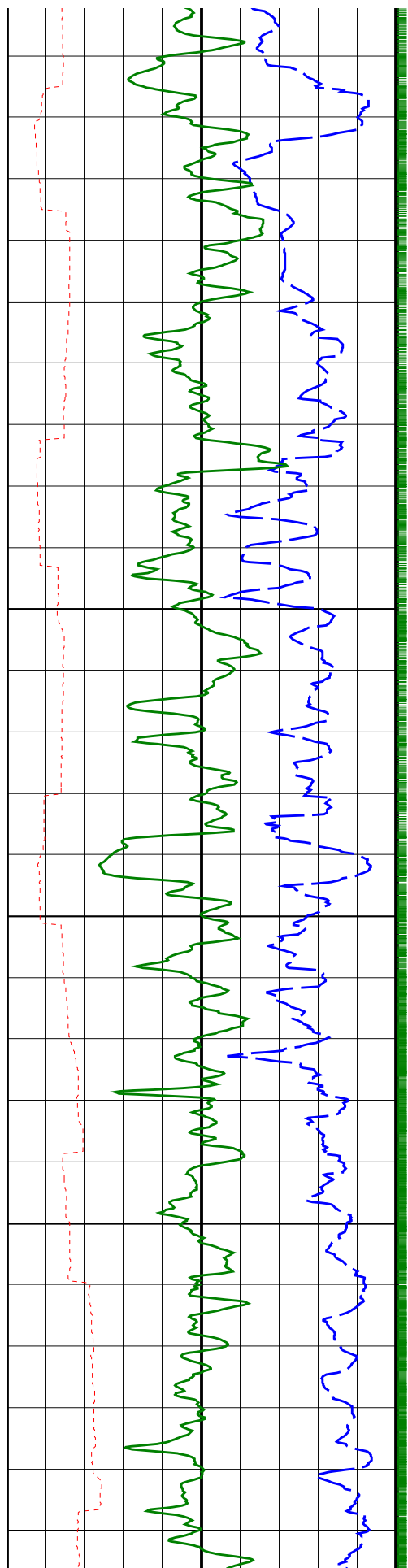
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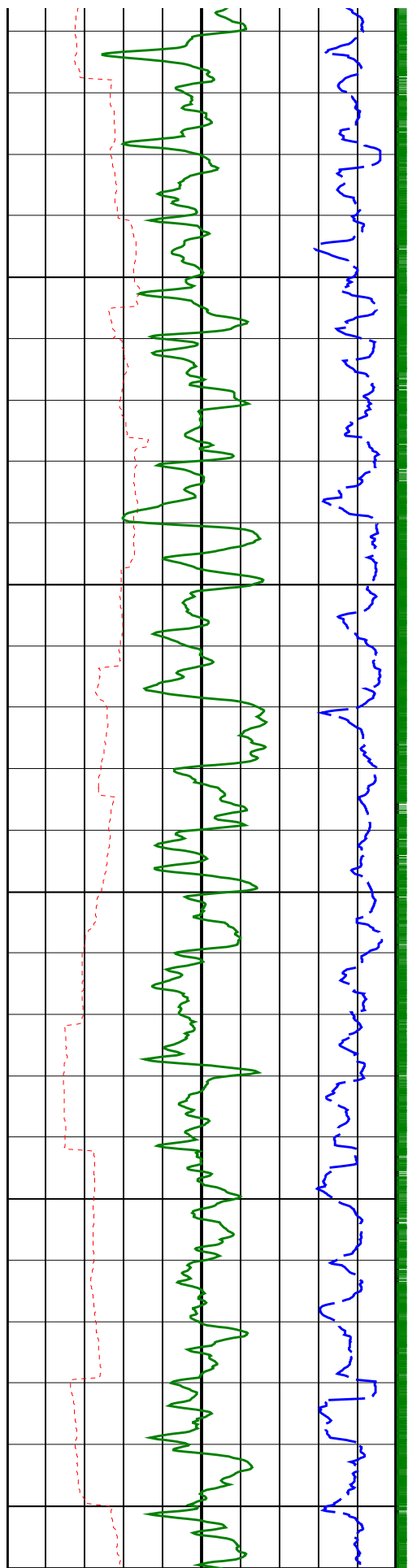
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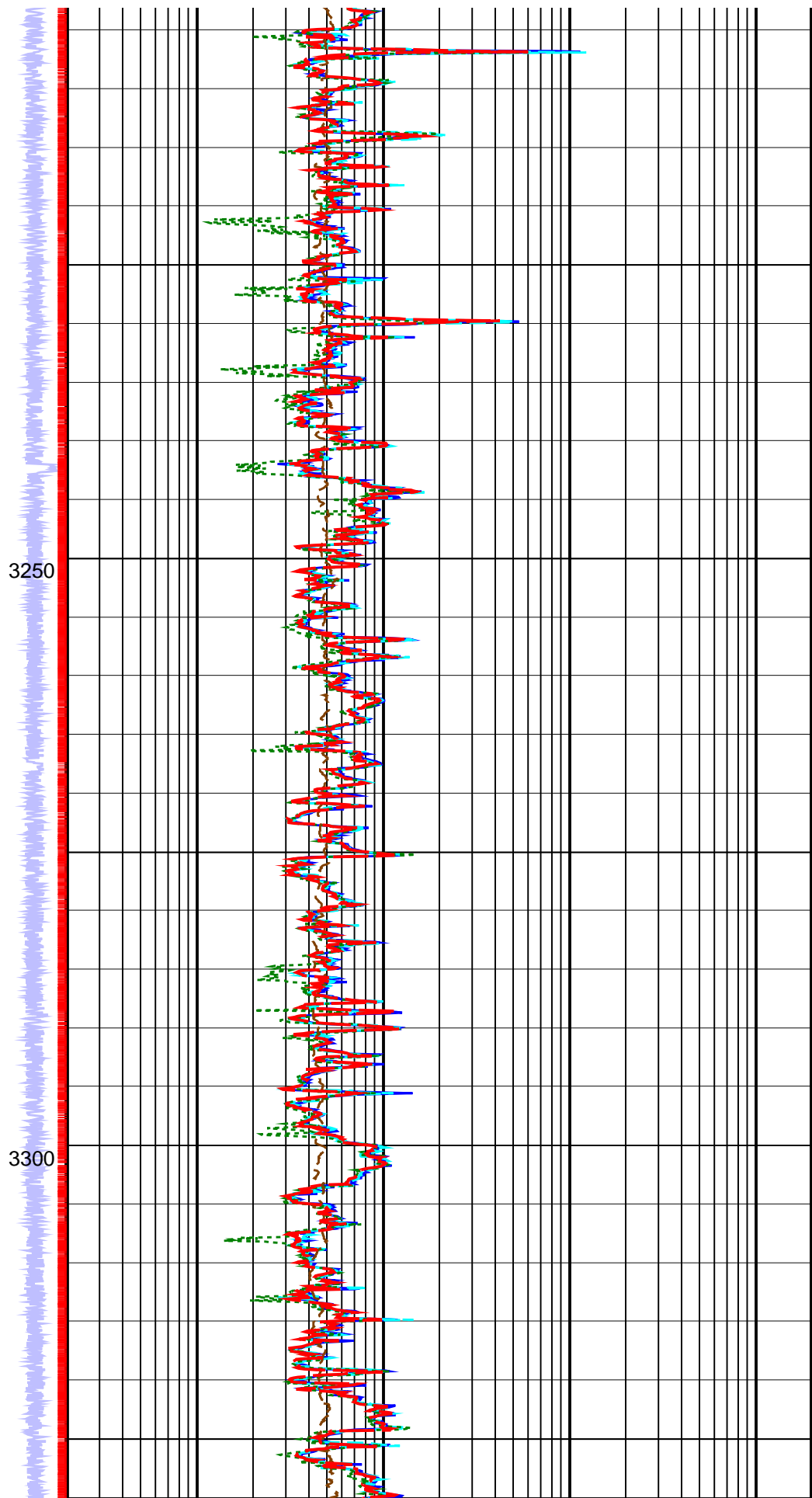


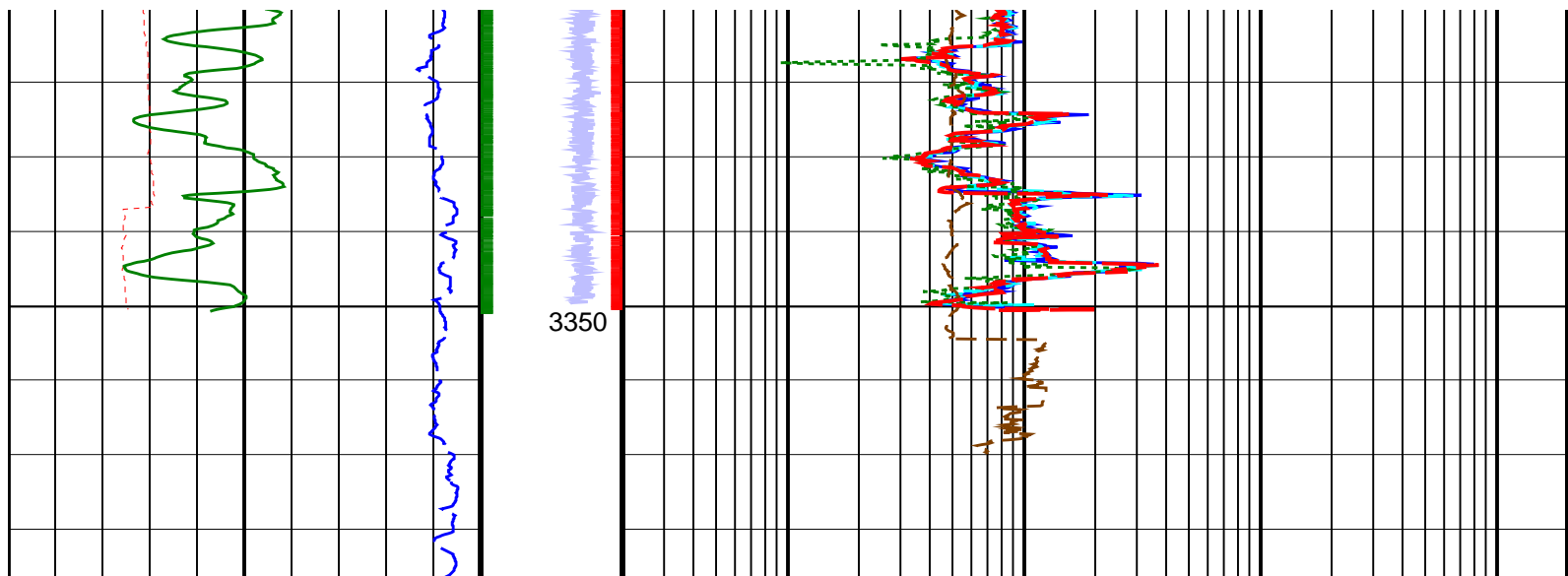




3250

3300





| | | | | |
|---|-----|---|---|------|
| RAB Gamma Ray (GR_RAB) (GAPI) | | RAB Rotational Speed (RPM_RAB) (RPM) 400 0 | Deep Button Resistivity (RES_BD) (OHMM) | |
| 0 | 200 | | 0.2 | 2000 |
| Ring Resistivity Time After Bit (TAB_RAB_RING) (HR) | | | Medium Button Resistivity (RES_BM) (OHMM) | |
| 0 | 10 | | 0.2 | 2000 |
| Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR) | | | Shallow Button Resistivity (RES_BS) (OHMM) | |
| 100 | 0 | | 0.2 | 2000 |
| | | | Bit Resistivity (RES_BIT) (OHMM) | |
| | | | 0.2 | 2000 |
| | | | Ring Resistivity (RES_RING) (OHMM) | |
| | | | 0.2 | 2000 |

PIP SUMMARY

└ Gamma Ray Samples
└ Ring Samples

IDEAL Version: ID9_1C_01

IDF

| | | | |
|-----|-----------|--------|-----------|
| RAB | id9_1c_01 | MWD_10 | id9_1c_01 |
| ADN | id9_1c_01 | | |

6.75-in. Azimuthal Density Neutron / Equipment Identification

| | | |
|--------------------------------|------------|------|
| Primary Equipment: | | |
| Tool Name and Serial Number | ADN6 - CA | 0403 |
| Collar Type and Serial Number | ADDC - AA | 0403 |
| Chassis Type and Serial Number | ADSE - EA | 018 |
| Neutron Logging Source | NSR - M | 202 |
| Density Logging Source | GSR - J/Z | 1994 |
| Stabilizer Size | 8.25 - in. | |
| Calibration Status | Valid | |




Master: 30-Nov-2004 12:45

6.75-in. Azimuthal Density Neutron Calibration

Density: Magnesium Block

| | | | | | | | | |
|-------|----------------------|-------|-------|----------------------|-------|-------|----------------------|-------|
| Phase | LS window 3 - Mg CPS | Value | Phase | SS window 1 - Mg CPS | Value | Phase | SS window 3 - Mg CPS | Value |
|-------|----------------------|-------|-------|----------------------|-------|-------|----------------------|-------|



| | | | | | | | | |
|--------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|--------------------|
| Master | | 1022 | Master | | 2282 | Master | | 5972 |
| 250.0 (Minimum) | 4125 (Nominal) | 8000 (Maximum) | 700.0 (Minimum) | 9350 (Nominal) | 18000 (Maximum) | 2500 (Minimum) | 23750 (Nominal) | 45000 (Maximum) |

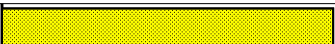
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|--|---|--------------------|-------------------|-------|--------|---|-------------------|-------------------|-------|--------|---|--------------------|--------------------|-------|
| Master: 30–Nov–2004 12:45 | | | | | | | | | | | | | | |
| 6.75–in. Azimuthal Density Neutron Calibration | | | | | | | | | | | | | | |
| Density: Aluminum Block | | | | | | | | | | | | | | |
| Phase | LS window 3 – Al CPS | | | Value | Phase | SS window 1 – Al CPS | | | Value | Phase | SS window 3 – Al CPS | | | Value |
| Master |  | | | 156.6 | Master |  | | | 1184 | Master |  | | | 3762 |
| | 50.00 (Minimum) | 725.0 (Nominal) | 1400 (Maximum) | | | 500.0 (Minimum) | 4250 (Nominal) | 8000 (Maximum) | | | 1500 (Minimum) | 15750 (Nominal) | 30000 (Maximum) | |

| | | | | | | | | | | | | | | |
|--|--------------------------|--------------------|--------------------|-------|--------|--------------------------|--------------------|--------------------|-------|--------|--------------------------|--------------------|-------------------|-------|
| Master: 30-Nov-2004 12:45 | | | | | | | | | | | | | | |
| 6.75-in. Azimuthal Density Neutron Calibration | | | | | | | | | | | | | | |
| Density: Background | | | | | | | | | | | | | | |
| Phase | LS window 3 – Background | | CPS | Value | Phase | SS window 1 – Background | | CPS | Value | Phase | SS window 3 – Background | | CPS | Value |
| Master | | | | 34.18 | Master | | | | 108.6 | Master | | | | 480.8 |
| | 15.00 (Minimum) | 82.50 (Nominal) | 150.0 (Maximum) | | | 40.00 (Minimum) | 220.0 (Nominal) | 400.0 (Maximum) | | | 150.0 (Minimum) | 825.0 (Nominal) | 1500 (Maximum) | |













| | | | | | | | | |
|--|---------------------------------|--------------------|-------|--------------------|----------------------------------|--------------------|-------|--|
| Master: 30-Nov-2004 12:45 | | | | | | | | |
| 6.75-in. Azimuthal Density Neutron Calibration | | | | | | | | |
| Density: Water Block Check | | | | | | | | |
| Phase | Long spacing water density G/C3 | | Value | Phase | Short spacing water density G/C3 | | Value | |
| Master | | | 1.030 | Master | | | 1.120 | |
| 1.024 (Minimum) | 1.039 (Nominal) | 1.054 (Maximum) | | 1.096 (Minimum) | 1.126 (Nominal) | 1.156 (Maximum) | | |


| | | | | | | | | |
|--|--------------------|--------------------|-------|---------------------|--------------------------|--------------------|---------|--|
| Master: 30-Nov-2004 12:45 | | | | | | | | |
| 6.75-in. Azimuthal Density Neutron Calibration | | | | | | | | |
| Neutron: Water Tank | | | | | | | | |
| Phase | Far 1 tube 1 gain | | Value | Phase | Far 1 tube 1 offset CPS | | Value | |
| Master | | | 1.133 | Master | | | 0.2488 | |
| 0.8000 (Minimum) | 1.050 (Nominal) | 1.300 (Maximum) | | -1.000 (Minimum) | 0 (Nominal) | 1.000 (Maximum) | | |
| Phase | Far 1 tube 2 gain | | Value | Phase | Far 1 tube 2 offset CPS | | Value | |
| Master | | | 1.082 | Master | | | 0.2448 | |
| 0.8000 (Minimum) | 1.050 (Nominal) | 1.300 (Maximum) | | -1.000 (Minimum) | 0 (Nominal) | 1.000 (Maximum) | | |
| Phase | Far 1 tube 3 gain | | Value | Phase | Far 1 tube 3 offset CPS | | Value | |
| Master | | | 1.120 | Master | | | 0.2026 | |
| 0.8000 (Minimum) | 1.050 (Nominal) | 1.300 (Maximum) | | -1.000 (Minimum) | 0 (Nominal) | 1.000 (Maximum) | | |
| Phase | Far 2 tube 1 gain | | Value | Phase | Far 2 tube 1 offset CPS | | Value | |
| Master | | | 1.113 | Master | | | 0.3294 | |
| 0.8000 (Minimum) | 1.050 (Nominal) | 1.300 (Maximum) | | -1.000 (Minimum) | 0 (Nominal) | 1.000 (Maximum) | | |
| Phase | Far 2 tube 2 gain | | Value | Phase | Far 2 tube 2 offset CPS | | Value | |
| Master | | | 1.060 | Master | | | -0.1372 | |
| 0.8000 (Minimum) | 1.050 (Nominal) | 1.300 (Maximum) | | -1.000 (Minimum) | 0 (Nominal) | 1.000 (Maximum) | | |
| Phase | Far 2 tube 3 gain | | Value | Phase | Far 2 tube 3 offset CPS | | Value | |
| Master | | | 1.149 | Master | | | 0.5438 | |
| 0.8000 (Minimum) | 1.050 (Nominal) | 1.300 (Maximum) | | -1.000 (Minimum) | 0 (Nominal) | 1.000 (Maximum) | | |
| Phase | Near 1 tube 1 gain | | Value | Phase | Near 1 tube 1 offset CPS | | Value | |
| Master | | | 1.133 | Master | | | 30.21 | |
| 0.8000 (Minimum) | 1.050 (Nominal) | 1.300 (Maximum) | | -100.0 (Minimum) | 0 (Nominal) | 100.0 (Maximum) | | |

| Phase | Near 2 tube 1 gain | | | Value | Phase | Near 2 tube 1 offset CPS | | | Value |
|--------|---|--------------------|--------------------|-------|--------|---|----------------|--------------------|-------|
| Master |  | | | 1.111 | Master |  | | | 13.40 |
| | 0.8000 (Minimum) | 1.050 (Nominal) | 1.300 (Maximum) | | | -100.0 (Minimum) | 0 (Nominal) | 100.0 (Maximum) | |

| Master: 30-Nov-2004 12:45 | | | | | | | | | |
|--|--|--------------------|--|--|--|--|--------------------|-------|--|
| 6.75-in. Azimuthal Density Neutron Calibration | | | | | | | | | |
| Neutron: Water Block Check | | | | | | | | | |
| Phase | Far Neutron water porosity PU | | | | | | | Value | |
| Master |  | | | | | | | 117.4 | |
| | 90.00 (Minimum) | 100.0 (Nominal) | | | | | 125.0 (Maximum) | | |

| | | |
|--|-----------|-----|
| 6.75-in. Resistivity At-the-Bit / Equipment Identification | | |
| Primary Equipment: | | |
| Tool Name and Serial Number | RAB6 – CA | 192 |
| Calibration Status | Valid | |

| | | | | | | | | | | | | | | |
|---|---|--------------------|--------------------|--------|--------|---|--------------------|--------------------|--------|--------|---|--------------------|--------------------|--------|
| Master: 21-Dec-2004 11:22 | | | | | | | | | | | | | | |
| 6.75-in. Resistivity At-the-Bit Calibration | | | | | | | | | | | | | | |
| Resistivity: Fixture | | | | | | | | | | | | | | |
| Phase | Ring/T1 factor | | | Value | Phase | Ring/T2 factor | | | Value | Phase | M0/T1 factor | | | Value |
| Master |  | | | 0.9984 | Master |  | | | 1.002 | Master |  | | | 0.9909 |
| | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | | | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | | | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | |
| Phase | M0/T2 factor | | | Value | Phase | M2/T1 factor | | | Value | Phase | M2/T2 factor | | | Value |
| Master |  | | | 0.9928 | Master |  | | | 0.9973 | Master |  | | | 1.000 |
| | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | | | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | | | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | |
| Phase | BTN shallow/T1 factor | | | Value | Phase | BTN shallow/T2 factor | | | Value | Phase | BTN medium/T1 factor | | | Value |
| Master |  | | | 0.9975 | Master |  | | | 1.000 | Master |  | | | 0.9935 |
| | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | | | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | | | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | |
| Phase | BTN medium/T2 factor | | | Value | Phase | BTN deep/T1 factor | | | Value | Phase | BTN deep/T2 factor | | | Value |
| Master |  | | | 0.9962 | Master |  | | | 1.005 | Master |  | | | 1.008 |
| | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | | | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | | | 0.9750 (Minimum) | 1.000 (Nominal) | 1.025 (Maximum) | |

| Master: 21-Dec-2004 11:22 | | | | | | | | | | | |
|---|---|--|--|--------------------|--|--|--|--|--|--------------------|--------|
| 6.75-in. Resistivity At-the-Bit Calibration | | | | | | | | | | | |
| Gamma Ray: Blanket | | | | | | | | | | | |
| Phase | Gamma ray factor | | | | | | | | | | Value |
| Master |  | | | | | | | | | | 0.9227 |
| | 0.7500 (Minimum) | | | 1.000 (Nominal) | | | | | | 1.250 (Maximum) | |

Client.....: ESSO Australia Pty. Ltd.
 Field.....: Moonfish
 Well.....: West Moonfish-1
 API number.....:
 Engineer.....: J.Dolan / K.Handley / M.Y.Tan
 Rig.....: ENSCO 102
 STATE.....: Victoria

Spud date.....: 05-Jan-05
 Last survey date.....: 05-Feb-05
 Total accepted surveys...: 116
 MD of first survey.....: 0.00 m
 MD of last survey.....: 3369.00 m

----- Survey calculation methods-----
 Method for positions.....: Minimum curvature
 Method for DLS.....: Mason & Taylor

----- Depth reference -----
 Permanent datum.....: Mean Sea Level
 Depth reference.....: Driller's Depth
 GL above permanent.....: -52.12 m
 KB above permanent.....: Top Drive
 DF above permanent.....: 39.24 m

----- Vertical section origin-----
 Latitude (+N/S-).....: 0.00 m
 Departure (+E/W-).....: 0.00 m

----- Platform reference point-----
 Latitude (+N/S-).....: 0.00 m
 Departure (+E/W-).....: 0.00 m

Azimuth from Vsect Origin to target: 171.73 degrees

----- Geomagnetic data -----
 Magnetic model.....: BGGM version 2004
 Magnetic date.....: 08-Jan-2005
 Magnetic field strength...: 1199.31 HCNT
 Magnetic dec (+E/W-).....: 13.04 degrees
 Magnetic dip.....: -68.70 degrees

----- MWD survey Reference Criteria -----
 Reference G.....: 1000.02 mGal
 Reference H.....: 1199.31 HCNT
 Reference Dip.....: -68.70 degrees
 Tolerance of G.....: (+/-) 2.50 mGal
 Tolerance of H.....: (+/-) 6.00 HCNT
 Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
 Magnetic dec (+E/W-).....: 13.04 degrees
 Grid convergence (+E/W-)..: -0.60 degrees
 Total az corr (+E/W-).....: 13.64 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)2005 IDEAL ID9_1C_01]
 SCHLUMBERGER Survey Report

5-Feb-2005 20:30:55

Page 2 of 5

| 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 (m) | At Azim (deg) | DLS (deg/10m) | Srvy tool type | Tool Corr (deg) |
|-------|--------------------|------------------|---------------------|-------------------|---------------|----------------------|-----------------|-----------------|-----------------|---------------|---------------|----------------|-----------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | TIP | None |
| 2 | 91.00 | 0.00 | 0.00 | 91.00 | 91.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | MWD M | None |
| 3 | 181.88 | 0.35 | 328.21 | 90.88 | 181.88 | -0.25 | 0.24 | -0.15 | 0.28 | 328.21 | 0.04 | MWD | None |
| 4 | 209.79 | 0.46 | 330.61 | 27.91 | 209.79 | -0.44 | 0.41 | -0.25 | 0.47 | 328.78 | 0.04 | MWD | None |
| 5 | 238.18 | 0.46 | 334.44 | 28.39 | 238.18 | -0.65 | 0.61 | -0.35 | 0.70 | 329.99 | 0.01 | MWD | None |
| 6 | 266.14 | 0.41 | 322.98 | 27.96 | 266.14 | -0.85 | 0.79 | -0.46 | 0.91 | 329.77 | 0.04 | MWD | None |
| 7 | 294.58 | 0.45 | 330.64 | 28.44 | 294.58 | -1.04 | 0.97 | -0.58 | 1.13 | 329.25 | 0.02 | MWD | None |
| 8 | 323.45 | 0.47 | 319.47 | 28.87 | 323.45 | -1.25 | 1.16 | -0.71 | 1.36 | 328.51 | 0.03 | MWD | None |
| 9 | 352.76 | 0.37 | 334.57 | 29.31 | 352.75 | -1.44 | 1.33 | -0.83 | 1.57 | 328.19 | 0.05 | MWD | None |
| 10 | 381.80 | 0.35 | 324.72 | 29.04 | 381.79 | -1.61 | 1.49 | -0.92 | 1.75 | 328.35 | 0.02 | MWD | None |
| 11 | 411.24 | 0.31 | 328.91 | 29.44 | 411.23 | -1.76 | 1.63 | -1.01 | 1.92 | 328.21 | 0.02 | MWD | None |
| 12 | 440.44 | 0.31 | 306.16 | 29.20 | 440.43 | -1.89 | 1.75 | -1.12 | 2.07 | 327.41 | 0.04 | MWD | None |
| 13 | 469.19 | 0.35 | 319.12 | 28.75 | 469.18 | -2.02 | 1.86 | -1.24 | 2.23 | 326.36 | 0.03 | MWD | None |
| 14 | 498.06 | 0.33 | 320.27 | 28.87 | 498.05 | -2.16 | 1.99 | -1.35 | 2.40 | 325.89 | 0.01 | MWD | None |
| 15 | 526.97 | 0.37 | 310.22 | 28.91 | 526.96 | -2.30 | 2.11 | -1.47 | 2.58 | 325.15 | 0.03 | MWD | None |
| 16 | 555.67 | 0.28 | 328.64 | 28.70 | 555.66 | -2.44 | 2.23 | -1.58 | 2.74 | 324.74 | 0.05 | MWD | None |
| 17 | 584.65 | 0.30 | 319.14 | 28.98 | 584.64 | -2.57 | 2.35 | -1.67 | 2.88 | 324.69 | 0.02 | MWD | None |
| 18 | 613.64 | 0.26 | 310.54 | 28.99 | 613.63 | -2.68 | 2.45 | -1.77 | 3.02 | 324.24 | 0.02 | MWD | None |
| 19 | 642.62 | 0.21 | 308.91 | 28.98 | 642.61 | -2.77 | 2.53 | -1.86 | 3.14 | 323.70 | 0.02 | MWD | None |
| 20 | 671.64 | 0.18 | 340.56 | 29.02 | 671.63 | -2.85 | 2.60 | -1.91 | 3.23 | 323.69 | 0.04 | MWD | None |
| 21 | 700.59 | 0.24 | 324.48 | 28.95 | 700.58 | -2.95 | 2.70 | -1.96 | 3.34 | 323.93 | 0.03 | MWD | None |
| 22 | 716.66 | 0.28 | 343.92 | 16.07 | 716.65 | -3.02 | 2.76 | -1.99 | 3.41 | 324.17 | 0.06 | MWD | None |
| 23 | 760.72 | 0.35 | 341.43 | 44.06 | 760.71 | -3.26 | 2.99 | -2.07 | 3.64 | 325.37 | 0.02 | MWD | None |
| 24 | 789.81 | 0.37 | 350.28 | 29.09 | 789.80 | -3.44 | 3.17 | -2.11 | 3.81 | 326.33 | 0.02 | MWD | None |
| 25 | 818.90 | 0.39 | 345.99 | 29.09 | 818.89 | -3.63 | 3.36 | -2.15 | 3.99 | 327.36 | 0.01 | MWD | None |
| 26 | 848.10 | 0.45 | 351.62 | 29.20 | 848.09 | -3.85 | 3.57 | -2.19 | 4.19 | 328.44 | 0.02 | MWD | None |
| 27 | 877.05 | 0.38 | 344.38 | 28.95 | 877.04 | -4.05 | 3.77 | -2.23 | 4.38 | 329.37 | 0.03 | MWD | None |
| 28 | 906.37 | 0.28 | 0.58 | 29.32 | 906.36 | -4.22 | 3.94 | -2.26 | 4.54 | 330.16 | 0.05 | MWD | None |
| 29 | 935.33 | 0.35 | 12.98 | 28.96 | 935.32 | -4.37 | 4.09 | -2.24 | 4.67 | 331.33 | 0.03 | MWD | None |
| 30 | 964.33 | 0.27 | 17.88 | 29.00 | 964.31 | -4.52 | 4.25 | -2.20 | 4.78 | 332.63 | 0.03 | MWD | None |

[(c)2005 IDEAL ID9_1C_01]
 SCHLUMBERGER Survey Report

5-Feb-2005 20:30:55

Page 3 of 5

| 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 (m) | At Azim (deg) | DLS (deg/10m) | Srvy tool type | Tool Corr (deg) |
|-------|--------------------|------------------|---------------------|-------------------|---------------|----------------------|-----------------|-----------------|-----------------|---------------|---------------|----------------|-----------------|
| 31 | 992.58 | 0.29 | 13.91 | 28.25 | 992.56 | -4.64 | 4.38 | -2.16 | 4.88 | 333.74 | 0.01 | MWD | None |
| 32 | 1021.76 | 0.36 | 9.73 | 29.18 | 1021.74 | -4.80 | 4.54 | -2.13 | 5.01 | 334.90 | 0.03 | MWD | None |

| | | | | | | | | | | | | | |
|----|---------|-------|--------|-------|---------|-------|-------|-------|------|--------|------|-----|------|
| 33 | 1050.63 | 0.30 | 18.15 | 28.87 | 1050.61 | -4.95 | 4.70 | -2.09 | 5.14 | 336.06 | 0.03 | MWD | None |
| 34 | 1079.82 | 0.33 | 13.33 | 29.19 | 1079.80 | -5.10 | 4.86 | -2.04 | 5.27 | 337.17 | 0.01 | MWD | None |
| 35 | 1108.59 | 0.28 | 27.98 | 28.77 | 1108.57 | -5.23 | 5.00 | -1.99 | 5.38 | 338.27 | 0.03 | MWD | None |
| 36 | 1137.86 | 0.28 | 33.98 | 29.27 | 1137.84 | -5.34 | 5.12 | -1.92 | 5.47 | 339.46 | 0.01 | MWD | None |
| 37 | 1166.83 | 0.29 | 28.94 | 28.97 | 1166.81 | -5.46 | 5.24 | -1.84 | 5.56 | 340.63 | 0.01 | MWD | None |
| 38 | 1195.74 | 0.29 | 56.71 | 28.91 | 1195.72 | -5.54 | 5.35 | -1.75 | 5.63 | 341.91 | 0.05 | MWD | None |
| 39 | 1224.73 | 0.34 | 48.47 | 28.99 | 1224.71 | -5.62 | 5.45 | -1.62 | 5.68 | 343.42 | 0.02 | MWD | None |
| 40 | 1253.76 | 0.28 | 53.99 | 29.03 | 1253.74 | -5.70 | 5.54 | -1.50 | 5.74 | 344.86 | 0.02 | MWD | None |
| 41 | 1282.95 | 0.28 | 76.24 | 29.19 | 1282.93 | -5.74 | 5.60 | -1.37 | 5.77 | 346.23 | 0.04 | MWD | None |
| 42 | 1312.43 | 0.35 | 69.81 | 29.48 | 1312.41 | -5.77 | 5.65 | -1.22 | 5.78 | 347.83 | 0.03 | MWD | None |
| 43 | 1341.45 | 0.49 | 75.67 | 29.02 | 1341.43 | -5.80 | 5.71 | -1.02 | 5.80 | 349.92 | 0.05 | MWD | None |
| 44 | 1370.44 | 0.54 | 77.71 | 28.99 | 1370.42 | -5.82 | 5.77 | -0.76 | 5.82 | 352.48 | 0.02 | MWD | None |
| 45 | 1399.38 | 0.57 | 80.90 | 28.94 | 1399.36 | -5.83 | 5.82 | -0.49 | 5.84 | 355.23 | 0.01 | MWD | None |
| 46 | 1428.34 | 0.57 | 72.23 | 28.96 | 1428.31 | -5.86 | 5.89 | -0.21 | 5.90 | 357.99 | 0.03 | MWD | None |
| 47 | 1457.45 | 0.71 | 75.91 | 29.11 | 1457.42 | -5.90 | 5.98 | 0.11 | 5.98 | 1.02 | 0.05 | MWD | None |
| 48 | 1486.39 | 0.67 | 81.34 | 28.94 | 1486.36 | -5.92 | 6.05 | 0.45 | 6.07 | 4.23 | 0.03 | MWD | None |
| 49 | 1515.33 | 0.64 | 84.68 | 28.94 | 1515.30 | -5.91 | 6.09 | 0.78 | 6.14 | 7.26 | 0.02 | MWD | None |
| 50 | 1544.31 | 0.58 | 114.39 | 28.98 | 1544.28 | -5.83 | 6.04 | 1.07 | 6.14 | 10.04 | 0.11 | MWD | None |
| 51 | 1573.33 | 0.68 | 130.93 | 29.02 | 1573.30 | -5.62 | 5.87 | 1.33 | 6.02 | 12.80 | 0.07 | MWD | None |
| 52 | 1602.43 | 0.81 | 124.83 | 29.10 | 1602.39 | -5.35 | 5.64 | 1.63 | 5.87 | 16.15 | 0.05 | MWD | None |
| 53 | 1630.64 | 0.88 | 126.64 | 28.21 | 1630.60 | -5.06 | 5.40 | 1.97 | 5.74 | 20.06 | 0.03 | MWD | None |
| 54 | 1659.72 | 0.73 | 120.96 | 29.08 | 1659.68 | -4.78 | 5.17 | 2.31 | 5.66 | 24.07 | 0.06 | MWD | None |
| 55 | 1688.54 | 0.77 | 115.92 | 28.82 | 1688.49 | -4.56 | 4.99 | 2.64 | 5.64 | 27.89 | 0.03 | MWD | None |
| 56 | 1716.29 | 1.42 | 170.03 | 27.75 | 1716.24 | -4.11 | 4.57 | 2.87 | 5.39 | 32.12 | 0.42 | MWD | None |
| 57 | 1747.14 | 3.39 | 168.14 | 30.85 | 1747.06 | -2.82 | 3.30 | 3.12 | 4.54 | 43.41 | 0.64 | MWD | None |
| 58 | 1776.39 | 6.07 | 175.23 | 29.25 | 1776.21 | -0.41 | 0.91 | 3.43 | 3.55 | 75.11 | 0.94 | MWD | None |
| 59 | 1803.97 | 9.73 | 177.60 | 27.58 | 1803.52 | 3.37 | -2.87 | 3.65 | 4.64 | 128.22 | 1.33 | MWD | None |
| 60 | 1833.36 | 13.39 | 175.76 | 29.39 | 1832.31 | 9.23 | -8.75 | 4.00 | 9.62 | 155.42 | 1.25 | MWD | None |

[(c)2005 IDEAL ID9_1C_01]
SCHLUMBERGER Survey Report

5-Feb-2005 20:30:55

Page 4 of 5

| 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 (m) | At Azim (deg) | DLS (deg/10m) | Srvy tool type | Tool Corr (deg) |
|-------|--------------------|------------------|---------------------|-------------------|---------------|----------------------|-----------------|-----------------|-----------------|---------------|---------------|----------------|-----------------|
| 61 | 1863.43 | 16.85 | 168.96 | 30.07 | 1861.34 | 17.06 | -16.50 | 5.09 | 17.27 | 162.84 | 1.29 | MWD | None |
| 62 | 1892.32 | 20.05 | 169.00 | 28.89 | 1888.74 | 26.19 | -25.47 | 6.84 | 26.38 | 164.97 | 1.11 | MWD | None |
| 63 | 1921.31 | 23.60 | 171.03 | 28.99 | 1915.65 | 36.96 | -36.09 | 8.70 | 37.12 | 166.45 | 1.25 | MWD | None |
| 64 | 1950.39 | 26.42 | 171.08 | 29.08 | 1942.00 | 49.26 | -48.23 | 10.61 | 49.38 | 167.60 | 0.97 | MWD | None |
| 65 | 1980.01 | 28.74 | 171.62 | 29.62 | 1968.25 | 62.97 | -61.79 | 12.67 | 63.07 | 168.42 | 0.79 | MWD | None |
| 66 | 2008.88 | 30.11 | 172.21 | 28.87 | 1993.40 | 77.15 | -75.83 | 14.66 | 77.24 | 169.06 | 0.49 | MWD | None |
| 67 | 2037.15 | 31.81 | 172.17 | 28.27 | 2017.64 | 91.69 | -90.24 | 16.64 | 91.76 | 169.55 | 0.60 | MWD | None |
| 68 | 2051.91 | 33.50 | 172.13 | 14.76 | 2030.06 | 99.66 | -98.13 | 17.72 | 99.72 | 169.76 | 1.15 | MWD | None |
| 69 | 2066.15 | 33.78 | 171.23 | 14.24 | 2041.92 | 107.55 | -105.93 | 18.87 | 107.60 | 169.90 | 0.40 | MWD | None |
| 70 | 2095.12 | 33.12 | 171.96 | 28.97 | 2066.09 | 123.51 | -121.73 | 21.20 | 123.56 | 170.12 | 0.27 | MWD | None |
| 71 | 2124.15 | 33.36 | 172.51 | 29.03 | 2090.37 | 139.43 | -137.50 | 23.35 | 139.47 | 170.36 | 0.13 | MWD | None |
| 72 | 2153.24 | 33.01 | 172.88 | 29.09 | 2114.72 | 155.35 | -153.29 | 25.38 | 155.38 | 170.60 | 0.14 | MWD | None |
| 73 | 2181.81 | 32.54 | 173.18 | 28.56 | 2138.73 | 170.80 | -168.64 | 27.25 | 170.82 | 170.82 | 0.17 | MWD | None |
| 74 | 2210.92 | 31.59 | 173.23 | 29.12 | 2163.41 | 186.26 | -183.99 | 29.08 | 186.27 | 171.02 | 0.33 | MWD | None |
| 75 | 2240.12 | 31.28 | 173.54 | 29.20 | 2188.32 | 201.48 | -199.11 | 30.84 | 201.49 | 171.20 | 0.12 | MWD | None |
| 76 | 2268.93 | 31.04 | 173.24 | 28.81 | 2212.98 | 216.38 | -213.92 | 32.55 | 216.38 | 171.35 | 0.10 | MWD | None |
| 77 | 2298.13 | 31.01 | 173.23 | 29.20 | 2238.00 | 231.42 | -228.87 | 34.32 | 231.43 | 171.47 | 0.01 | MWD | None |
| 78 | 2327.14 | 30.80 | 172.89 | 29.01 | 2262.89 | 246.32 | -243.66 | 36.12 | 246.32 | 171.57 | 0.09 | MWD | None |
| 79 | 2356.90 | 30.47 | 172.50 | 29.76 | 2288.50 | 261.48 | -258.70 | 38.05 | 261.48 | 171.63 | 0.13 | MWD | None |
| 80 | 2385.70 | 30.69 | 172.74 | 28.80 | 2313.29 | 276.13 | -273.23 | 39.93 | 276.13 | 171.68 | 0.09 | MWD | None |
| 81 | 2414.71 | 30.89 | 172.94 | 29.01 | 2338.21 | 290.98 | -287.96 | 41.78 | 290.98 | 171.74 | 0.08 | MWD | None |
| 82 | 2443.86 | 30.53 | 172.62 | 29.15 | 2363.27 | 305.86 | -302.73 | 43.66 | 305.86 | 171.79 | 0.14 | MWD | None |
| 83 | 2472.51 | 30.38 | 172.52 | 28.65 | 2387.97 | 320.38 | -317.13 | 45.53 | 320.38 | 171.83 | 0.06 | MWD | None |
| 84 | 2500.10 | 30.49 | 173.16 | 27.59 | 2411.76 | 334.36 | -331.00 | 47.28 | 334.36 | 171.87 | 0.12 | MWD | None |
| 85 | 2513.76 | 30.10 | 173.67 | 13.66 | 2423.55 | 341.24 | -337.84 | 48.07 | 341.25 | 171.90 | 0.34 | MWD | None |
| 86 | 2534.52 | 28.77 | 174.36 | 20.76 | 2441.63 | 351.44 | -347.99 | 49.13 | 351.44 | 171.96 | 0.66 | MWD | None |
| 87 | 2563.83 | 27.68 | 175.01 | 29.31 | 2467.46 | 365.28 | -361.79 | 50.42 | 365.29 | 172.07 | 0.39 | MWD | None |
| 88 | 2591.89 | 27.75 | 175.43 | 28.06 | 2492.30 | 378.31 | -374.80 | 51.50 | 378.32 | 172.18 | 0.07 | MWD | None |
| 89 | 2621.44 | 27.65 | 176.02 | 29.55 | 2518.46 | 392.01 | -388.49 | 52.53 | 392.03 | 172.30 | 0.10 | MWD | None |
| 90 | 2649.26 | 26.55 | 176.15 | 27.82 | 2543.23 | 404.65 | -401.14 | 53.39 | 404.68 | 172.42 | 0.40 | MWD | None |

[(c)2005 IDEAL ID9_1C_01]
SCHLUMBERGER Survey Report

5-Feb-2005 20:30:55

Page 5 of 5

| 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 (m) | At Azim (deg) | DLS (deg/10m) | Srvy tool type | Tool Corr (deg) |
|-------|--------------------|------------------|---------------------|-------------------|---------------|----------------------|-----------------|-----------------|-----------------|---------------|---------------|----------------|-----------------|
| 91 | 2679.64 | 25.96 | 176.64 | 30.38 | 2570.47 | 418.04 | -414.55 | 54.24 | 418.08 | 172.55 | 0.21 | MWD | None |
| 92 | 2709.01 | 25.79 | 176.94 | 29.37 | 2596.90 | 430.81 | -427.35 | 54.96 | 430.87 | 172.67 | 0.07 | MWD | None |
| 93 | 2738.14 | 25.73 | 177.20 | 29.13 | 2623.13 | 443.41 | -439.99 | 55.60 | 443.49 | 172.80 | 0.04 | MWD | None |
| 94 | 2766.75 | 25.60 | 177.87 | 28.61 | 2648.92 | 455.74 | -452.37 | 56.14 | 455.84 | 172.93 | 0.11 | MWD | None |
| 95 | 2795.87 | 25.09 | 178.27 | 29.12 | 2675.24 | 468.13 | -464.83 | 56.56 | 468.26 | 173.06 | 0.18 | MWD | None |
| 96 | 2824.87 | 24.62 | 179.06 | 29.00 | 2701.55 | 480.23 | -477.01 | 56.84 | 480.39 | 173.20 | 0.20 | MWD | None |
| 97 | 2844.77 | 24.22 | 179.64 | 19.90 | 2719.67 | 488.38 | -485.24 | 56.94 | 488.57 | 173.31 | 0.23 | MWD | None |

| | | | | | | | | | | | | | |
|---------------------------|---------|-------|--------|-------|---------|--------|---------|-------|--------|--------|------|------------------|------|
| 98 | 2853.96 | 24.18 | 180.01 | 9.19 | 2728.05 | 492.11 | -489.01 | 56.95 | 492.31 | 173.36 | 0.17 | MWD | None |
| 99 | 2882.63 | 27.57 | 178.74 | 28.67 | 2753.85 | 504.51 | -501.52 | 57.09 | 504.76 | 173.51 | 1.20 | MWD | None |
| 100 | 2911.83 | 32.47 | 177.23 | 29.20 | 2779.12 | 519.03 | -516.11 | 57.62 | 519.32 | 173.63 | 1.70 | MWD | None |
| 101 | 2940.58 | 35.22 | 173.63 | 28.75 | 2803.00 | 535.00 | -532.06 | 58.91 | 535.31 | 173.68 | 1.18 | MWD | None |
| 102 | 2969.76 | 36.72 | 171.96 | 29.18 | 2826.62 | 552.14 | -549.06 | 61.07 | 552.45 | 173.65 | 0.61 | MWD | None |
| 103 | 2998.29 | 36.71 | 172.92 | 28.53 | 2849.49 | 569.19 | -565.97 | 63.31 | 569.50 | 173.62 | 0.20 | MWD | None |
| 104 | 3027.63 | 37.32 | 171.60 | 29.34 | 2872.91 | 586.85 | -583.47 | 65.69 | 587.16 | 173.58 | 0.34 | MWD | None |
| 105 | 3056.67 | 37.50 | 171.93 | 29.04 | 2895.98 | 604.50 | -600.93 | 68.22 | 604.79 | 173.52 | 0.09 | MWD | None |
| 106 | 3086.05 | 37.34 | 171.98 | 29.38 | 2919.31 | 622.35 | -618.61 | 70.72 | 622.64 | 173.48 | 0.06 | MWD | None |
| 107 | 3115.20 | 36.75 | 171.59 | 29.15 | 2942.58 | 639.91 | -635.99 | 73.22 | 640.19 | 173.43 | 0.22 | MWD | None |
| 108 | 3143.56 | 36.84 | 172.02 | 28.36 | 2965.29 | 656.90 | -652.80 | 75.65 | 657.17 | 173.39 | 0.10 | MWD | None |
| 109 | 3173.28 | 36.36 | 171.83 | 29.72 | 2989.15 | 674.62 | -670.35 | 78.13 | 674.89 | 173.35 | 0.17 | MWD | None |
| 110 | 3202.29 | 35.86 | 171.78 | 29.01 | 3012.59 | 691.71 | -687.27 | 80.57 | 691.98 | 173.31 | 0.17 | MWD | None |
| 111 | 3231.67 | 35.66 | 172.64 | 29.38 | 3036.43 | 708.88 | -704.28 | 82.90 | 709.14 | 173.29 | 0.18 | MWD | None |
| 112 | 3259.72 | 35.26 | 172.40 | 28.05 | 3059.28 | 725.15 | -720.41 | 85.02 | 725.41 | 173.27 | 0.15 | MWD | None |
| 113 | 3289.09 | 34.82 | 172.26 | 29.37 | 3083.32 | 742.01 | -737.13 | 87.27 | 742.27 | 173.25 | 0.15 | MWD | None |
| 114 | 3318.30 | 34.25 | 172.36 | 29.21 | 3107.39 | 758.57 | -753.54 | 89.48 | 758.83 | 173.23 | 0.20 | MWD | None |
| 115 | 3343.24 | 33.90 | 172.67 | 24.94 | 3128.04 | 772.54 | -767.39 | 91.30 | 772.80 | 173.21 | 0.16 | MWD | None |
| 116 | 3369.00 | 33.54 | 172.99 | 25.76 | 3149.47 | 786.84 | -781.58 | 93.09 | 787.10 | 173.21 | 0.16 | Projection To TD | |
| [(c)2005 IDEAL ID9_1C_01] | | | | | | | | | | | | | |

Company:

ESSO Australia Pty. Ltd.

Well:

West Moonfish–1

Field:

Moonfish

Rig:

ENSCO 102

State:

Victoria

8.5 in. Section

GeoVISION Resistivity

1:500 Measured Depth

Recorded Mode Log

Schlumberger