

| | | | | | | | | | | | |
|---------------------------|-------------|--------------|--------------|---------------|-----------|----------|--|--|--|--|--|
| Potassium | % | n/a | n/a | | | | | | | | |
| Environmental data | | | | | | | | | | | |
| GR | | | | | | | | | | | |
| Mud weight | ppg | 12.00 | 12.10 | | | | | | | | |
| Bit size | in. | 9.50 | 9.50 | | | | | | | | |
| Resistivity | | | | | | | | | | | |
| Neutron porosity | | | | | | | | | | | |
| Hole Size | in. | 9.50 | 9.50 | | | | | | | | |
| Mud weight | ppg | 12.00 | 12.10 | | | | | | | | |
| Temperature | °C | 90.55 | 86.0 | | | | | | | | |
| Mud salinity | ppk | 63.38 | 63.38 | | | | | | | | |
| Formation salinity | | n/a | n/a | | | | | | | | |
| Recording rate 1 | SEC | 2 (GR, Res) | 2 (GR, Res) | | | | | | | | |
| Recording rate 2 | SEC | 4 (Den, Neu) | 4 (Den, Neu) | | | | | | | | |
| Filtering GR | | 3 pts | 3 pts | | | | | | | | |
| Filtering density | | 3 pts | 3 pts | | | | | | | | |
| Filtering Neutron | | 3 pts | 3 pts | | | | | | | | |
| Company representative | B. Openshaw | R. Rossouw | | | | | | | | | |
| Anadrill personnel | M.Kampen | M. Lu | S.T.D.Aung | P.Sellathurai | P.Dassens | J.Condon | | | | | |

| | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| <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 RUN5 Directional Drilling Directional Surveys Annular Pressure & Temperature Shock & Vibrations | | | | OTHER SERVICES FOR RUN6 Directional Surveys Annular Pressure & Temperature Shock & Vibrations | | | | | | | |
| REMARKS: RUN NUMBER 5 Depth is referenced to Driller's Depth Gamma Ray is corrected for mud weight,tool size and bit size Resistivity is borehole compensated and environmentally corrected Neutron porosity is corrected for the effects of borehole size(bit size),temperature,mud salinity,and much hydrogen index (a factor of mud weight,mud temperature and pressure). Neutron porosity is calculated using a limestone matrix density of 2.71 g/cm3. POOH due to reaching Coring Point . | | | | REMARKS: RUN NUMBER 6 Depth is referenced to Driller's Depth Gamma Ray is corrected for mud weight,tool size and bit size Resistivity is borehole compensated and environmentally corrected Neutron porosity is corrected for the effects of borehole size(bit size),temperature,mud salinity,and much hydrogen index (a factor of mud weight,mud temperature and pressure). Neutron porosity is calculated using a limestone matrix density of 2.71 g/cm3. POOH due to reaching TD for this section. | | | | | | | |

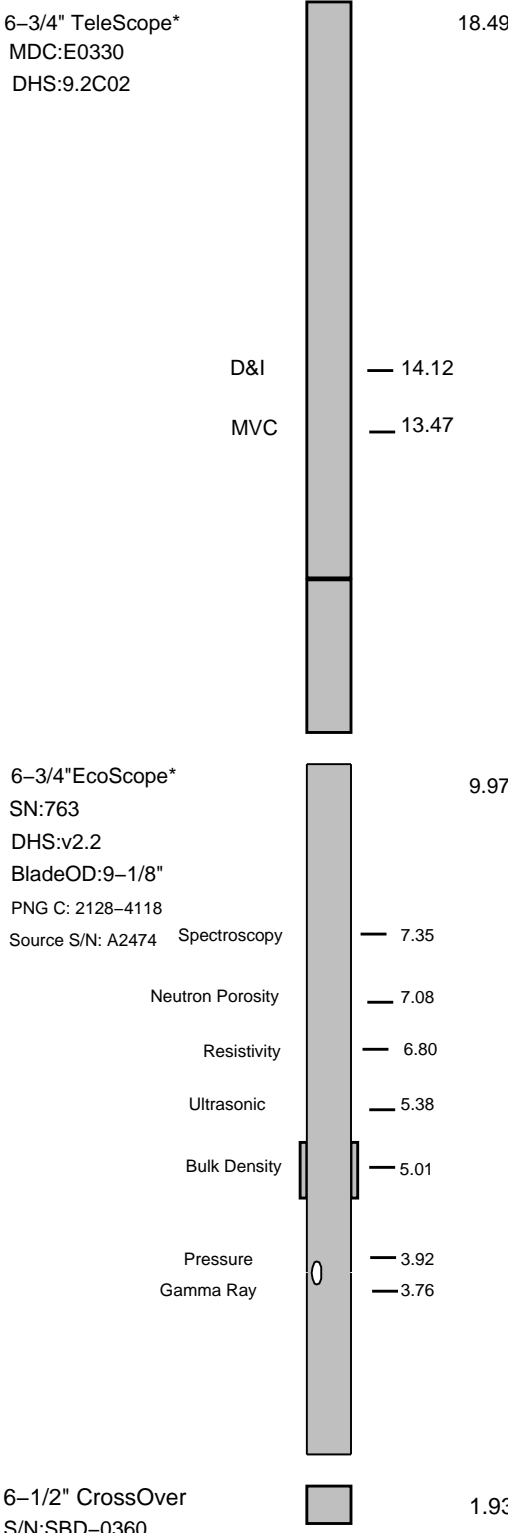
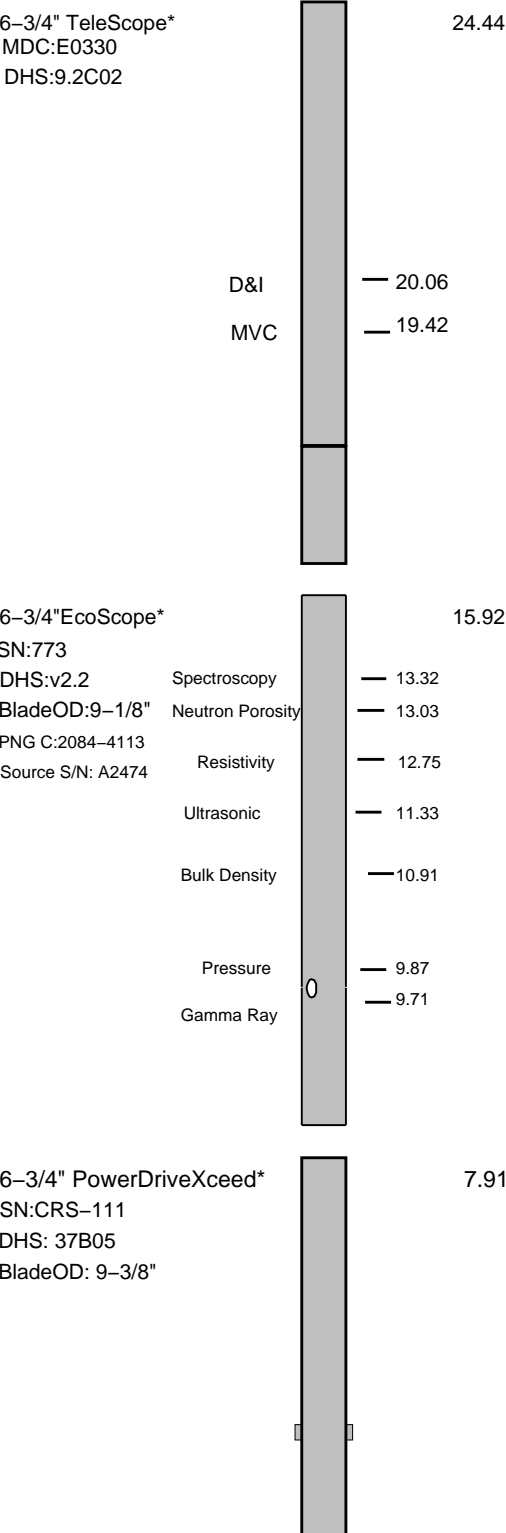
EQUIPMENT DESCRIPTION

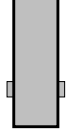
RUN5

RUN6

DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT





6-7/8" FloatSub
S/N: BXNC50B



1.47

OD 6.75

9-1/2" Reed Hycalog PDC Bit
S/N: JY2083

9-1/2" Reed Hycalog PDC Bit
SN:JY2802

Maximum string diameter 9.50 in.
All lengths in Meters

Maximum string diameter 9.50 in.
All lengths in Meters

Variable
Name

Variable
Description

Run Name
& Value

Run Number

5

6

General Information

| | | | | |
|------------|---------------------------------------------------------|------|----------|----------|
| BHT_RM | Bottom Hole Temperature (RM) | DEGC | 90.550 | 86.000 |
| BSAL_RM | Mud Salinity (RM) | PPK | 63.38 | 63.38 |
| BS_RM | Bit Size (RM) | IN | 9.500 | 9.500 |
| COEF_M | User Defined FEXP in Clean Sand | ---- | 1.650 | 1.650 |
| C_WS | Overpressure correction to Sw and M | ---- | 1.000 | 1.000 |
| FEXP | Formation Factor Exponent (RM) | ---- | 2.000 | 2.000 |
| FNUM | Formation Factor Enumerator (RM) | ---- | 1.000 | 1.000 |
| FPHI_RM | Formation Factor Porosity Source (RM) | ---- | XPLOT | XPLOT |
| MST_RM | Mud Sample temperature (RM) | DEGC | 20.000 | 20.000 |
| MW_RM | Mud Weight (RM) | LB/G | 12.200 | 12.000 |
| OBFM_RM | Oil Based Mud (RM) | ---- | YES | YES |
| RHOF_RM | Mud Filtrate Density (RM) | G/C3 | 1.000 | 1.000 |
| RHOM_RM | Matrix density (RM) | G/C3 | 2.710 | 2.710 |
| RMS_RM | Resistivity of Mud Sample (RM) | OHMM | 1000.000 | 1000.000 |
| RWA_COMP_M | Rwa computation model | | | |
| RWA_DEN_AD | Rwa Density Input ADN | | | |
| RWA_DEN_CD | Rwa Density Input CDN | | | |
| RWA_DEN_IN | Rwa Density Input | | | |
| RWA_FORM_M | Rwa computation formation model | | | |
| RWA_RES_IN | Rwa computation resistivity input | | | |
| RWS_RM | Resistivity of Connate Water (RM) | OHMM | 1.000 | 1.000 |
| SHT_RM | Ground Level Temperature (Mud-Line When Offshore) (RM) | DEGC | 10.000 | 10.000 |
| TD_RM | Total Measured Depth (RM) | M | 2841.920 | 2987.000 |
| TWS_RM | Temperature of Connate Water (RM) | DEGC | 23.889 | 23.889 |
| VF_ILLI | Fraction of illite in shales | ---- | 0.500 | 0.500 |
| VF_KAOL | Fraction of kaolinite in shales | ---- | 0.500 | 0.500 |
| VF_MONT | Fraction of montmorillonite in shales | ---- | 0.000 | 0.000 |
| XPDM_RM | Cross plot density porosity multiplier | ---- | 0.675 | 0.675 |
| XPNM_RM | Cross plot neutron porosity multiplier | ---- | 0.325 | 0.325 |

DVD

| | | | | |
|----------------|--------------------------------------------------------|-----------------|--------------|--------------|
| ----- | Parameters----- | Parameters----- | -----Sigma | -----Sigma |
| ----- | Parameters----- | Parameters----- | -----Sigma | -----Sigma |
| A12A | ARC Air Cal Attenuation From T1 at 2 MHz | DB | 8.531 | 8.649 |
| A14A | ARC Air Cal Attenuation From T1 at 400 KHz | DB | 8.520 | 8.670 |
| A22A | ARC Air Cal Attenuation From T2 at 2 MHz | DB | 5.907 | 5.776 |
| A24A | ARC Air Cal Attenuation From T2 at 400 KHz | DB | 5.924 | 5.766 |
| A32A | ARC Air Cal Attenuation From T3 at 2 MHz | DB | 5.130 | 5.248 |
| A34A | ARC Air Cal Attenuation From T3 at 400 KHz | DB | 5.109 | 5.273 |
| A42A | ARC Air Cal Attenuation From T4 at 2 MHz | DB | 4.305 | 4.175 |
| A44A | ARC Air Cal Attenuation From T4 at 400 KHz | DB | 4.317 | 4.159 |
| A52A | ARC Air Cal Attenuation From T5 at 2 MHz | DB | 3.684 | 3.810 |
| A54A | ARC Air Cal Attenuation From T5 at 400 KHz | DB | 3.683 | 3.831 |
| ABNT | Abnormal Transmitter Indicator | ---- | No_Tx_Failed | No_Tx_Failed |
| ALPHA_DEN_OPT | Density Enhanced Vertical Resolution Processing Switch | ---- | NO | NO |
| AM2A | ARC Air Cal Amplitude Offset at 2 MHz | ---- | -50000.000 | -50000.000 |
| ANISO_COMPUTE | Anisotropy Computation Option | ---- | YES | YES |
| ATMP_ARC | ARC Select Temperature Channel | ---- | Annulus_Temp | Annulus_Temp |
| AZMF | Formation DIP Azimuth | DEG | 0.000 | 0.000 |
| BH_COMPUTE | Borehole Inversion Computation Option | ---- | YES | YES |
| CDPTH_ARC | Process Start Depth | M | 30.480 | 30.480 |
| CHI_RM | Caliper High Limit from BS (RM) | IN | 10.000 | 10.000 |
| CLO_RM | Caliper Low Limit from BS (RM) | IN | -5.000 | -5.000 |
| DIELEC_COMPUTE | Dielectric Computation Option | ---- | NO | NO |
| DIPF | Formation DIP Angle | DEG | 0.000 | 0.000 |
| DTMUD | Delta-T for Mud (RM) | US/F | 204.102 | 206.800 |
| DTMUD_DH | Delta-T for Mud Downhole (RT) | US/F | 206.000 | 206.800 |
| DVDMDS | DVDM Down Hole Software Version | ---- | Karl 2 | Karl 2 |
| DVDM_DATA_LTB | DVDM: Create An DVDM LTB Data File | ---- | NO | NO |
| DVD_DATA_FIX | DVDM: Create A Corrected DVDM Time Data File | ---- | NO | NO |
| DYN_IMAGE_OPT | Generate Dynamic Normalized Image? | ---- | NO | NO |
| EDPTH | Wizard Process Stop Depth | ---- | 50000 | 50000 |
| EN_WIZARD | Enable ARC Wizard Processing | ---- | NO | NO |
| ERRCT | Percentage Error Cutoff | ---- | 4.500 | 4.500 |
| EVRL | EVR Process averaging number of samples (RM) | ---- | 49 | 49 |
| FWVN | Firmware Version Number | ---- | 2.200 | 2.200 |
| GCSE | Generalized Caliper Selection | ---- | BS | BS |

| | | | | |
|-----------------|--------------------------------------------------------------|------|---------------|---------------|
| GRSH | GR Shale (Invasion Computation Cutoff) | GAPI | 1000.000 | 1000.000 |
| GR_CF | Gamma Ray Correction Factor | ---- | 1.800 | 1.800 |
| GR_O2COR_OPT | Enable Gamma Ray Oxygen Activation Correction | ---- | YES | YES |
| HIGH_BLEND | High Resistivity Threshold for Blending | OHMM | 2.000 | 2.000 |
| IDQT | Image Derived Quality Threshold | ---- | 2.000 | 2.000 |
| IMAGE_MAX_DCRA | Image Density Caliper Right Scale | IN | 8.000 | 8.000 |
| IMAGE_MAX_IDDQ | Image Density Quality Right Scale | ---- | 1.000 | 1.000 |
| IMAGE_MAX_SPEF | Image PEF(Segment) Right Scale | ---- | 6.000 | 6.000 |
| IMAGE_MAX_SRHOB | Image RHOB(Segment) Right Scale | G/C3 | 2.650 | 2.650 |
| IMAGE_MIN_DCRA | Image Density Caliper Left Scale | IN | 2.000 | 2.000 |
| IMAGE_MIN_IDDQ | Image Density Quality Left Scale | ---- | 0.000 | 0.000 |
| IMAGE_MIN_SPEF | Image PEF(Segment) Left Scale | ---- | 2.000 | 2.000 |
| IMAGE_MIN_SRHOB | Image RHOB(Segment) Left Scale | G/C3 | 2.050 | 2.050 |
| INCLIN_B0 | ARC Bias Constant (mg) | ---- | 0.000 | 0.000 |
| INCLIN_B1 | ARC Bias First-order Coefficient (mg/degC) | ---- | 0.000 | 0.000 |
| INCLIN_B2 | ARC Bias Secod-order Coeeficient (mg/degC) | ---- | 0.000 | 0.000 |
| INCLIN_B3 | ARC Bias Third-order Coeeficient (mg/degC) | ---- | 0.000 | 0.000 |
| INCLIN_C0 | ARC Current Scale Factor Constant (mA/g) | ---- | 1.000 | 1.000 |
| INCLIN_C1 | ARC Scale First-order Coeeficient (mA/g/degC) | ---- | 0.000 | 0.000 |
| INCLIN_C2 | ARC Scale Second-order Coeeficient (mA/g/degC) | ---- | 0.000 | 0.000 |
| INCLIN_C3 | ARC Scale Third-order Coeeficient (mA/g/degC) | ---- | 0.000 | 0.000 |
| INVAS_COMPUTE | Invasion Computation Option | ---- | YES | YES |
| JSD | Acquisition start date | ---- | 25-Jul-08 | 28-Jul-08 |
| JSD_ARC | ARC Acquisition start date | ---- | 25-Jul-08 | 28-Jul-08 |
| LOW_BLEND | Low Resistivity Threshold for Blending | OHMM | 1.000 | 1.000 |
| MATR | Rock Matrix for Neutron Porosity Corrections | ---- | LIMESTONE | LIMESTONE |
| MSWS | ARC Wizard Model Switch Window | M | 1.524 | 1.524 |
| MULTIEFFECT_COM | Multi Effect Option | ---- | YES | YES |
| NEU_DCOR_OPT | Density Correction Source for Neutron Processing | ---- | Bottom | Bottom |
| NEU_FTUBE_OPT | Far Thermal Tube Selection | ---- | Both | Both |
| NEU_PRESOR_OPT | Pressure Correction Source for Neutron Processing | ---- | Annulus_Press | Annulus_Press |
| NEU_TEMPCOR_OPT | Temperature Correction Source for Neutron Processing | ---- | Tool_Temp | Tool_Temp |
| NTIK_SEL | Neutron Tick Channel Name | ---- | FAZ1 | FAZ1 |
| OACF | Oxygen Activation Correction Factor (RM) | ---- | 8.000 | 8.000 |
| P11AC_RM | ARC: Air Calibration For Phase T1 to R1 | DEG | -999.250 | -999.250 |
| P12A | ARC Air Cal Phase-Shift From T1 at 2 MHz | DEG | 2.418 | 1.772 |
| P14A | ARC Air Cal Phase-Shift From T1 at 400 KHz | DEG | -0.531 | -0.307 |
| P22A | ARC Air Cal Phase-Shift From T2 at 2 MHz | DEG | -2.506 | -1.850 |
| P24A | ARC Air Cal Phase-Shift From T2 at 400 KHz | DEG | 0.588 | 0.296 |
| P32A | ARC Air Cal Phase-Shift From T3 at 2 MHz | DEG | 2.402 | 1.739 |
| P34A | ARC Air Cal Phase-Shift From T3 at 400 KHz | DEG | -0.525 | -0.429 |
| P42A | ARC Air Cal Phase-Shift From T4 at 2 MHz | DEG | -2.492 | -1.839 |
| P44A | ARC Air Cal Phase-Shift From T4 at 400 KHz | DEG | 0.709 | 0.278 |
| P52A | ARC Air Cal Phase-Shift From T5 at 2 MHz | DEG | 2.413 | 1.769 |
| P54A | ARC Air Cal Phase-Shift From T5 at 400 KHz | DEG | -0.553 | -0.256 |
| PMUD | Potassium Concentration in Mud | ---- | 0.000 | 0.000 |
| PRTD | Preferred Resistivity Log for Rt Display while Multi-Effects | ---- | P34B | P34B |
| PSOF_ADJ_T1 | ARC: User Input Phase offset | DEG | 0.000 | 0.000 |
| RESTIK | ARC resistivity tick source | ---- | Phase | Phase |
| RSD | LWD run start date dd-mmm-yy | ---- | 25-Jul-08 | 28-Jul-08 |
| RUN_DURATION_OP | Run Duration Type ? | ---- | Normal | Normal |
| RWA_COMP_MOD | Rwa computation model | ---- | BASIC | BASIC |
| RWA_DEN_ADN | Rwa Density Input | ---- | RHOB | RHOB |
| RWA_DEN_CDN | Rwa Density Input | ---- | RHOB | RHOB |
| RWA_DEN_INPUT | Rwa Density Input | ---- | RHOB | RHOB |
| RWA_FORM_MOD | Rwa computation formation model | ---- | CLASTIC | CLASTIC |
| RWA_RES_INPUT | Rwa computation resistivity input | ---- | RT | RT |
| SDPTH | Wizard Process Start Depth | ---- | 100 | 100 |
| SIG_PCOR_OPT | Porosity Correction Source for Sigma Processing | ---- | Best | Best |
| SPEC_CSG_DEPTH | Casing Depth for Spectroscopy Processing | M | 30.480 | 30.480 |
| SPEC_K_OPT | Potassium standard used during acquisition? | ---- | NO | YES |
| SPL_CLAY_MODEL | SpectroLith Clay Model | ---- | SUBARKOSE | SUBARKOSE |
| SPL_MG_OPT | Magnesium Flag Switch ? | ---- | OFF | OFF |
| SPL_SULFUR_MIN | SpectroLith Sulfur Mineral Option | ---- | PYRITE | PYRITE |
| STAB_SIZE | Stabilizer Size | IN | 9.125 | 9.125 |
| STOH | Top of Hole Sector | ---- | SECTOR_0 | SECTOR_0 |
| TRNO | Tool Run Number | ---- | 5 | 6 |
| TSIZ_ARC | ARC Tool Size | IN | 6.750 | 6.750 |
| TSNO | Tool Serial Number | ---- | 773 | 763 |
| UNIFORM_COMPUTE | Uniform Rock Option | ---- | YES | YES |
| VERS_ARC | ARC Down hole software version Number | ---- | 2.200 | 2.200 |
| WPPV | Water Phase as Percent of Total Volume in OBM | ---- | 24.000 | 24.000 |
| WPSL | Salinity of the Water Phase Emulsified within the OBM | PPK | 63.380 | 63.380 |
| WRK | to Report Potassium Concentration | ---- | K_by_Wgt_% | K_by_Wgt_% |
| WSDI | Window Size of Dynamic Normalization Image | M | 4.572 | 4.572 |

Schlumberger Drilling & Measurements

ID13 Parameter Insert Header Software version 3.0c

True Vertical Depth Log

Longtom-4 P RM 200TVD

ECO6 id13_0c_02

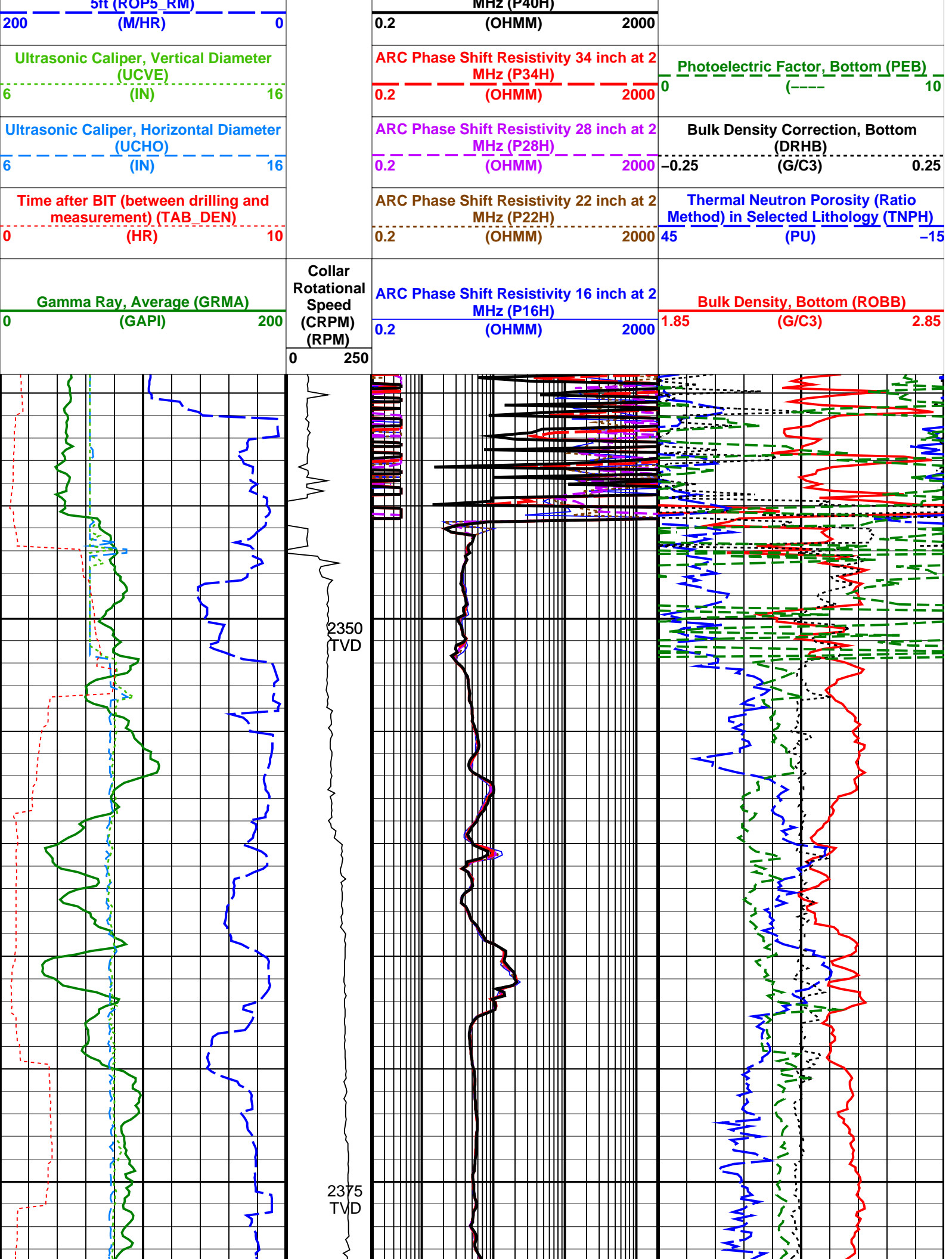
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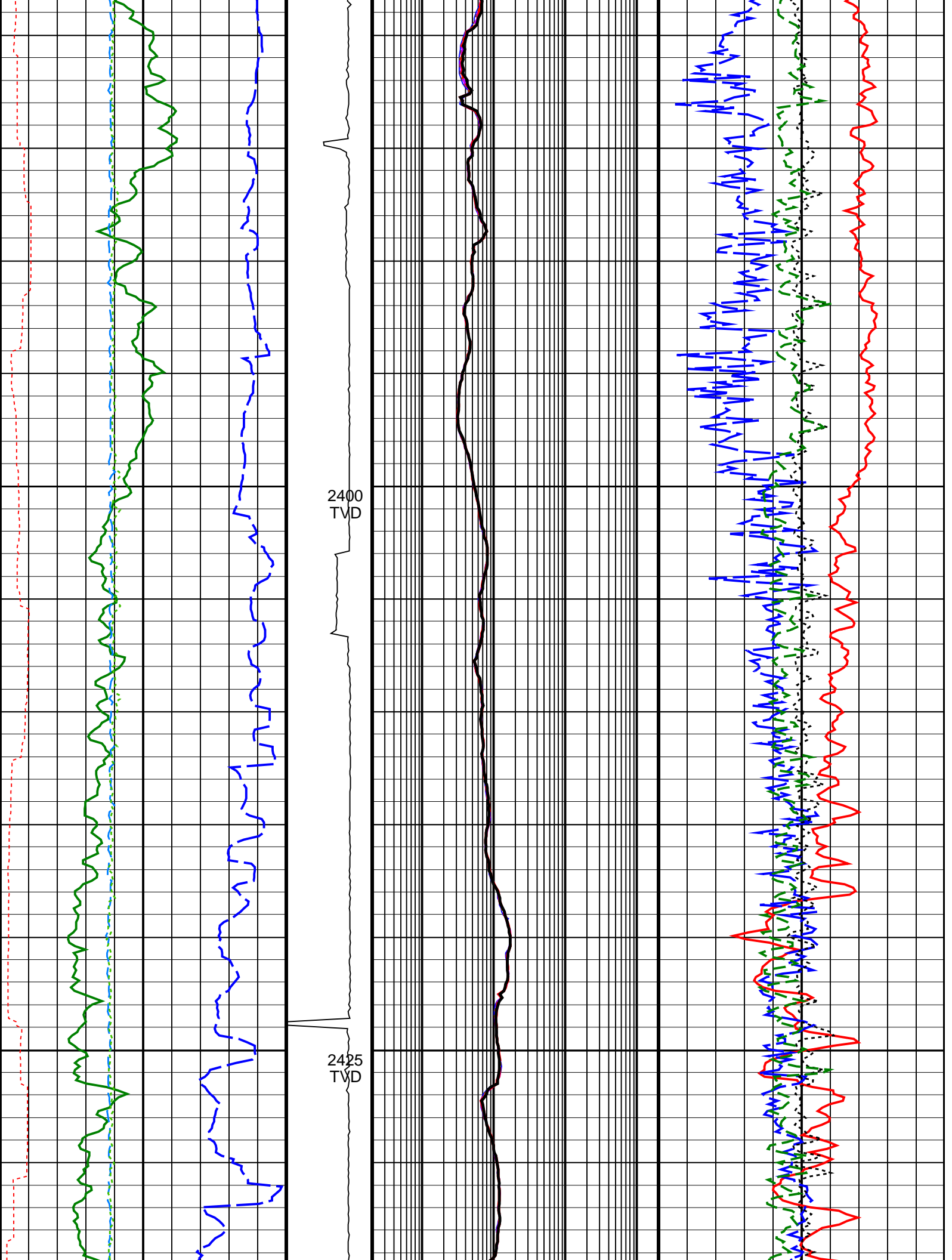
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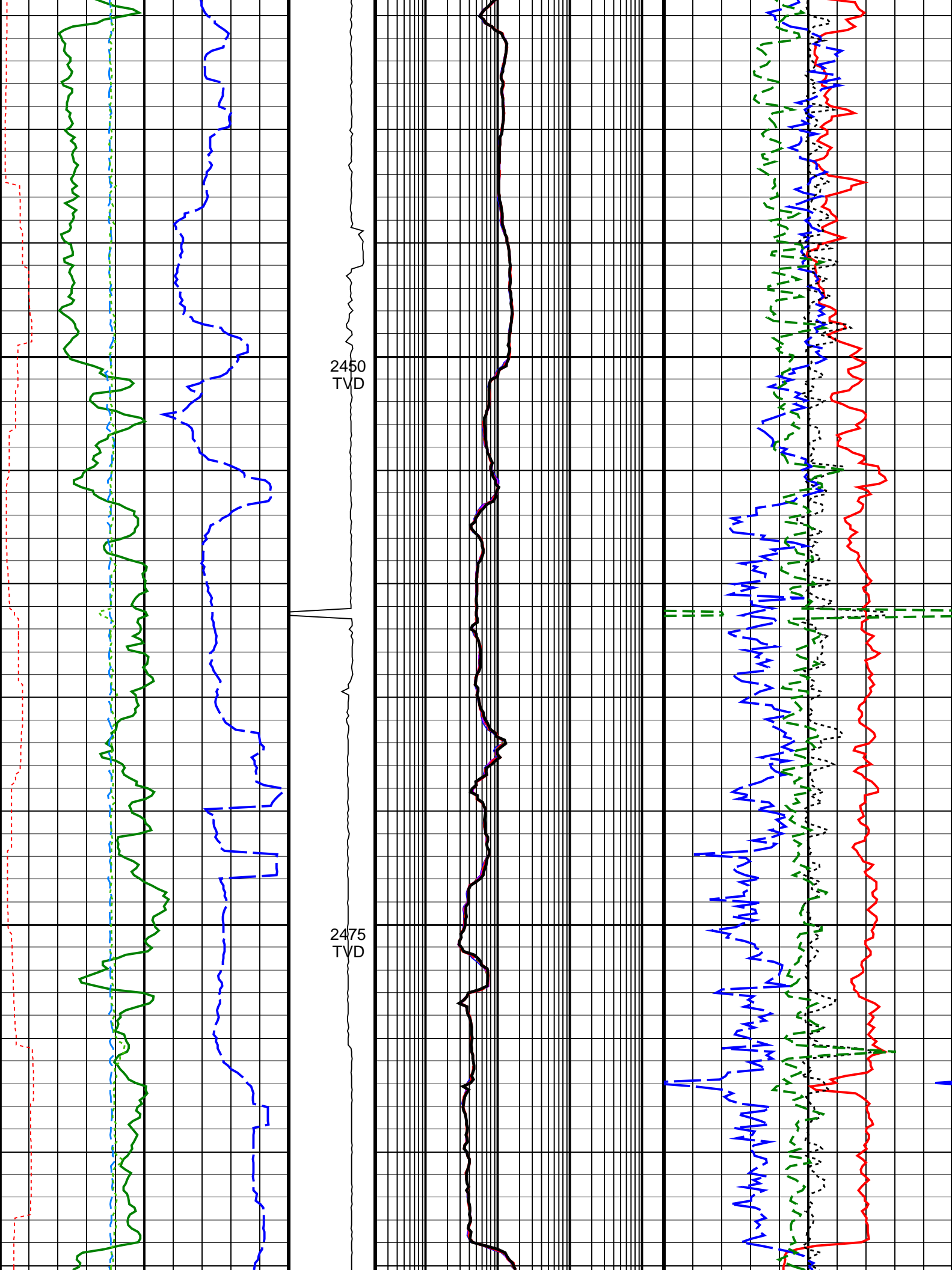
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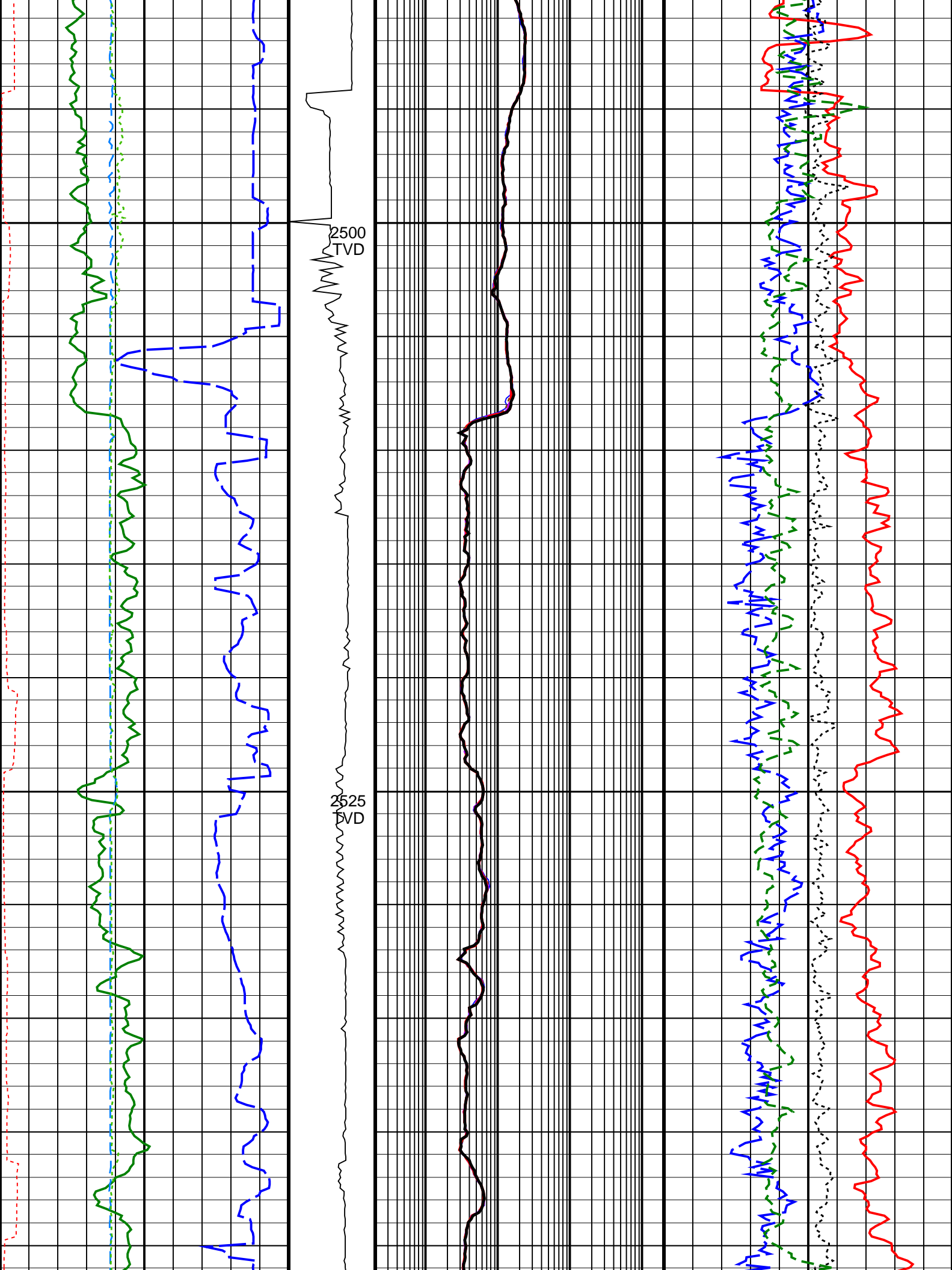
Rate of Penetration, Averaged over Last

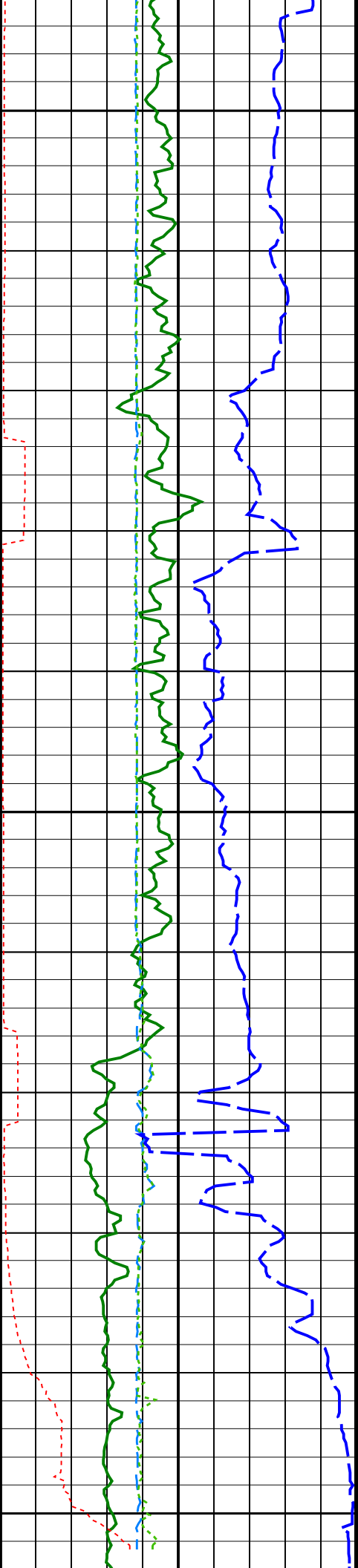
ARC Phase Shift Resistivity 40 inch at 2







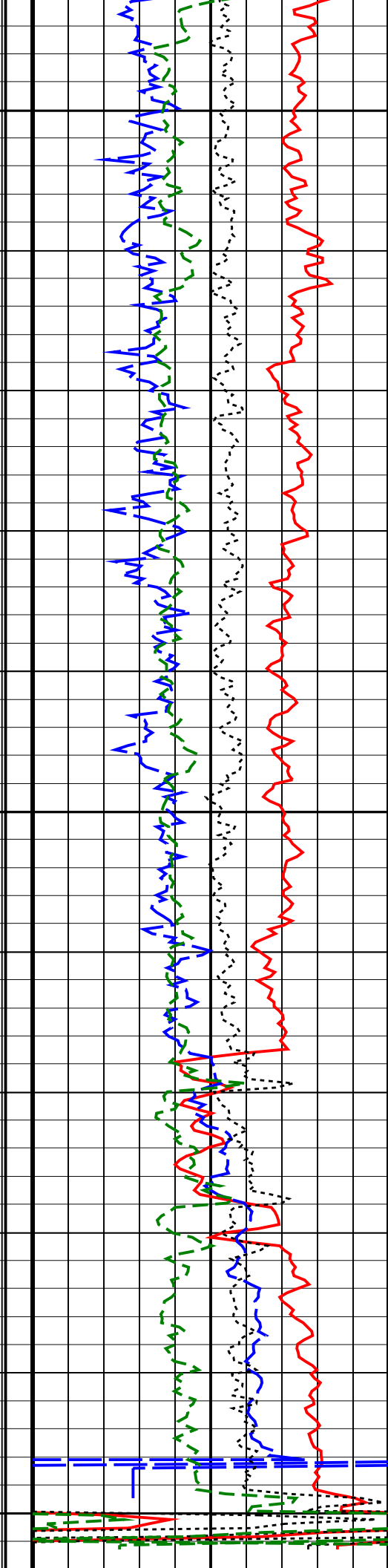
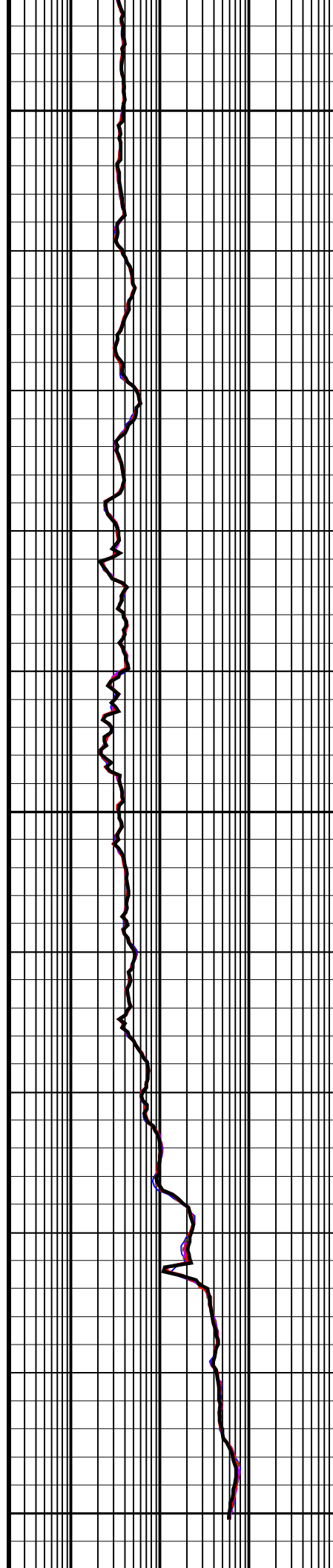




2550
TVD

2575
TVD

2600
TVD







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
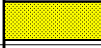


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


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


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


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|----------------------------------------------------------------------------------------|------------|-----------|
| EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch / Equipment Identification | | |
| Primary Equipment: | | |
| Tool Name and Serial Number | ECO – 675 | 773 |
| Calibration Status | Valid | |
| Neutron Logging Source | PNG – C | 2084–4113 |
| Density Logging Source | GSR – J/Z | A2474 |
| Stabilizer Size | 9.13 – in. | |




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| Master: 4–Jul–2008 22:25 | | | | | |
| EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch Calibration | | | | | |
| SSn LSn : Water Tank | | | | | |
| Phase | SSn Gain ---- | Value | Phase | SSn Offset ---- | Value |
| Master |  | 1.066 | Master |  | 0 |
| | 0.6000 (Minimum) 1.000 (Nominal) 1.400 (Maximum) | | | -3.000 (Minimum) 0 (Nominal) 3.000 (Maximum) | |
| Phase | LSn Gain ---- | Value | Phase | LSn Offset ---- | Value |
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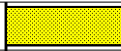
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|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|--------|---------------------------------------------------------------------------------------|-------|
| Master: 4–Jul–2008 22:25 | | | | | |
| EcoScope Integrated Logging–While–Drilling Tool – 6.75 inch Calibration | | | | | |
| Neutron: Water Tank | | | | | |
| Phase | Far 2 Gain ---- | Value | Phase | Far 2 Offset ---- | Value |
| Master |  | 0.9366 | Master |  | 1.245 |
| | 0.7000 (Minimum) 1.000 (Nominal) 1.300 (Maximum) | | | -3.000 (Minimum) 0 (Nominal) 3.000 (Maximum) | |
| Phase | Far 1 Gain ---- | Value | Phase | Far 1 Offset ---- | Value |
| Master |  | 0.9181 | Master |  | 2.440 |
| | 0.7000 (Minimum) 1.000 (Nominal) 1.300 (Maximum) | | | -3.000 (Minimum) 0 (Nominal) 3.000 (Maximum) | |
| Phase | Thermal Near gain ---- | Value | Phase | Thermal Near offset ---- | Value |

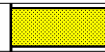
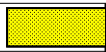
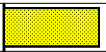
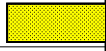
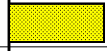





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|---------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|-------------------------------------------------------------------------------------|------------------------------|----------------|--------------------|--------------------|
| Master |  | 1.005 | Master |  | 121.4 | | | |
| 0.7000 (Minimum) | | 1.000 (Nominal) | 1.300 (Maximum) | | -500.0 (Minimum) | 0 (Nominal) | 500.0 (Maximum) | |
| Phase | Epithermal Near gain ----- | | Value | Phase | Epithermal Near offset ----- | | Value | |
| Master |  | 1.048 | Master |  | 83.95 | | | |
| 0.7000 (Minimum) | | 1.000 (Nominal) | 1.300 (Maximum) | | -300.0 (Minimum) | | 0 (Nominal) | 300.0 (Maximum) |




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|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------|--------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------|--------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------|
| Master: 5-Jul-2008 1:00 | | | | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | | | | |
| Gamma 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 |  | | | 2473 | Master |  | | | 5964 | Master |  | | | 13600 |
| | 1000 (Minimum) | 2000 (Nominal) | 3000 (Maximum) | | | 2500 (Minimum) | 5250 (Nominal) | 8000 (Maximum) | | | 6000 (Minimum) | 12000 (Nominal) | 18000 (Maximum) | |











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|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|-------|--------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------|--------|-------------------------------------------------------------------------------------|-------------------|--------------------|-------|
| Master: 5-Jul-2008 1:00 | | | | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | | | | |
| Gamma 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 |  | | | 459.0 | Master |  | | | 3188 | Master |  | | | 10170 |
| | 200.0 (Minimum) | 400.0 (Nominal) | 600.0 (Maximum) | | | 1500 (Minimum) | 3000 (Nominal) | 4500 (Maximum) | | | 4000 (Minimum) | 8500 (Nominal) | 13000 (Maximum) | |

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|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|-------|--------|-----------------------------------------------------------------------------------|--------------------|--------------------|-------|--------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------|
| Master: 5-Jul-2008 1:00 | | | | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | | | | |
| Gamma Density: Background | | | | | | | | | | | | | | |
| Phase | LS window 3 – Background | | CPS | Value | Phase | SS window 1 – Background | | CPS | Value | Phase | SS window 3 – Background | | CPS | Value |
| Master |  | | | 59.59 | Master |  | | | 80.24 | Master |  | | | 383.2 |
| | 50.00 (Minimum) | 70.00 (Nominal) | 90.00 (Maximum) | | | 50.00 (Minimum) | 75.00 (Nominal) | 100.0 (Maximum) | | | 270.0 (Minimum) | 370.0 (Nominal) | 470.0 (Maximum) | |

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|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|--|--------------------|---------------------|---------------------------------------------------------------------------------------|--------------------|--|--------------------|
| Master: 5-Jul-2008 1:00 | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | |
| Gamma Density: Water Block Check | | | | | | | | | |
| Phase | Long spacing water density G/C3 | | | Value | Phase | Short spacing water density G/C3 | | | Value |
| Master |  | | | 1.030 | Master |  | | | 1.295 |
| 0.9000 (Minimum) | | 1.150 (Nominal) | | 1.400 (Maximum) | 0.9000 (Minimum) | | 1.150 (Nominal) | | 1.400 (Maximum) |

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|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|--|--------------------|---------------------|-------------------------------------------------------------------------------------|----------------|--|--------------------|---------------------|---------------------------------------------------------------------------------------|----------------|--|--------------------|
| Master: 3-Jul-2008 12:01 | | | | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | | | | |
| Resistivity: Air | | | | | | | | | | | | | | |
| Phase | Phase-Shift T1 | | | Value | Phase | Phase-Shift T2 | | | Value | Phase | Phase-Shift T3 | | | Value |
| Master |  | | | 2.418 | Master |  | | | -2.506 | Master |  | | | 2.402 |
| -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) | -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) | -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) |
| Phase | Phase-Shift T4 | | | Value | Phase | Phase-Shift T5 | | | Value | Phase | Phase-Shift T1 at 400KHz | | | Value |
| Master |  | | | -2.492 | Master |  | | | 2.413 | Master |  | | | -0.5313 |
| -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) | -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) | -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) |
| Phase | Phase-Shift T2 at 400KHz | | | Value | Phase | Phase-Shift T3 at 400KHz | | | Value | Phase | Phase-Shift T4 at 400KHz | | | Value |
| Master |  | | | 0.5878 | Master |  | | | -0.5255 | Master |  | | | 0.7088 |
| -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) | -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) | -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) |
| Phase | Phase-Shift T5 at 400KHz | | | Value | | | | | | | | | | |
| Master |  | | | -0.5532 | | | | | | | | | | |
| -4.000 (Minimum) | | 0 (Nominal) | | 4.000 (Maximum) | | | | | | | | | | |

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|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|---------------------|-------------------------------------------------------------------------------------|----------------|---------------------|---------------------------------------------------------------------------------------|----------------|
| Master: 3-Jul-2008 12:01 | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | |
| Resistivity: Air | | | | | | | | |
| Phase | Attenuation T1 | Value | Phase | Attenuation T2 | Value | Phase | Attenuation T3 | Value |
| Master |  | 8.531 | Master |  | 5.997 | Master |  | 5.120 |
| -4.000 (Minimum) | | 0 (Nominal) | -4.000 (Minimum) | | 0 (Nominal) | -4.000 (Minimum) | | 0 (Nominal) |

| | | | | | | | | | | | |
|--------|-----------------------------------------------------------------------------------|--------------------|--------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------------------|--------------------|
| Master |  | 6.331 | Master |  | 5.907 | Master |  | 5.130 | | | |
| | 7.000 (Minimum) | 9.000 (Nominal) | 11.00 (Maximum) | | 4.000 (Minimum) | 6.000 (Nominal) | 8.000 (Maximum) | | 3.500 (Minimum) | 5.500 (Nominal) | 7.500 (Maximum) |
| Phase | Attenuation T4 | | Value | Phase | Attenuation T5 | | Value | Phase | Attenuation T1 at 400KHz | | Value |
| Master |  | | 4.305 | Master |  | | 3.684 | Master |  | | 8.520 |
| | 2.500 (Minimum) | 4.500 (Nominal) | 6.500 (Maximum) | | 2.000 (Minimum) | 4.000 (Nominal) | 6.000 (Maximum) | | 7.000 (Minimum) | 9.000 (Nominal) | 11.00 (Maximum) |
| Phase | Attenuation T2 at 400KHz | | Value | Phase | Attenuation T3 at 400KHz | | Value | Phase | Attenuation T4 at 400KHz | | Value |
| Master |  | | 5.924 | Master |  | | 5.109 | Master |  | | 4.317 |
| | 4.000 (Minimum) | 6.000 (Nominal) | 8.000 (Maximum) | | 3.500 (Minimum) | 5.500 (Nominal) | 7.500 (Maximum) | | 2.500 (Minimum) | 4.500 (Nominal) | 6.500 (Maximum) |
| Phase | Attenuation T5 at 400KHz | | Value | | | | | | | | |
| Master |  | | 3.683 | | | | | | | | |
| | 2.000 (Minimum) | 4.000 (Nominal) | 6.000 (Maximum) | | | | | | | | |

EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch / Equipment Identification

Primary Equipment:

Tool Name and Serial Number

Calibration Status

Neutron Logging Source

Density Logging Source

Stabilizer Size

ECO – 675

763

Valid





PNG – C









2128–4118




GSR – J/Z



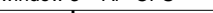
A2382




9.13 – in.



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|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------|--------|---------------------------------------------------------------------------------------|----------------|--------------------|-------|--|--|
| Master: 5–Jul–2008 14:42 | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | |
| SSn LSn : Water Tank | | | | | | | | | | | |
| Phase | SSn Gain ---- | | | Value | Phase | SSn Offset ---- | | | Value | | |
| Master |  | | | 1.131 | Master |  | | | 0 | | |
| | 0.6000 (Minimum) | 1.000 (Nominal) | 1.400 (Maximum) | | | -3.000 (Minimum) | 0 (Nominal) | 3.000 (Maximum) | | | |
| Phase | LSn Gain ---- | | | Value | Phase | LSn Offset ---- | | | Value | | |
| Master |  | | | 1.090 | Master |  | | | 0 | | |
| | 0.6000 (Minimum) | 1.000 (Nominal) | 1.400 (Maximum) | | | -3.000 (Minimum) | 0 (Nominal) | 3.000 (Maximum) | | | |











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|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------|--------|---------------------------------------------------------------------------------------|----------------|--------------------|-------|--|--|
| Master: 5–Jul–2008 14:42 | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | |
| Neutron: Water Tank | | | | | | | | | | | |
| Phase | Far 2 Gain ---- | | | Value | Phase | Far 2 Offset ---- | | | Value | | |
| Master |  | | | 1.013 | Master |  | | | 1.077 | | |
| | 0.7000 (Minimum) | 1.000 (Nominal) | 1.300 (Maximum) | | | -3.000 (Minimum) | 0 (Nominal) | 3.000 (Maximum) | | | |
| Phase | Far 1 Gain ---- | | | Value | Phase | Far 1 Offset ---- | | | Value | | |
| Master |  | | | 1.017 | Master |  | | | 1.371 | | |
| | 0.7000 (Minimum) | 1.000 (Nominal) | 1.300 (Maximum) | | | -3.000 (Minimum) | 0 (Nominal) | 3.000 (Maximum) | | | |
| Phase | Thermal Near gain ---- | | | Value | Phase | Thermal Near offset ---- | | | Value | | |
| Master |  | | | 1.061 | Master |  | | | 58.62 | | |
| | 0.7000 (Minimum) | 1.000 (Nominal) | 1.300 (Maximum) | | | -500.0 (Minimum) | 0 (Nominal) | 500.0 (Maximum) | | | |
| Phase | Epithermal Near gain ---- | | | Value | Phase | Epithermal Near offset ---- | | | Value | | |
| Master |  | | | 1.114 | Master |  | | | 68.37 | | |
| | 0.7000 (Minimum) | 1.000 (Nominal) | 1.300 (Maximum) | | | -300.0 (Minimum) | 0 (Nominal) | 300.0 (Maximum) | | | |











| | | | | | | | | | | | |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------|--------|-------------------------------------------------------------------------------------|-------------------|-------------------|--------|---------------------------------------------------------------------------------------|--------------------|--------------------|
| Master: 5–Jul–2008 16:42 | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | |
| Gamma 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 |  | | 2359 | Master |  | | 5337 | Master |  | | 11930 |
| | 1000 (Minimum) | 2000 (Nominal) | 3000 (Maximum) | | 2500 (Minimum) | 5250 (Nominal) | 8000 (Maximum) | | 6000 (Minimum) | 12000 (Nominal) | 18000 (Maximum) |

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|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|--------|-----------------------------------------------------------------------------------|-------------------|-------------------|--------|-------------------------------------------------------------------------------------|-------------------|--------------------|
| Master: 5-Jul-2008 16:42 | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | |
| Gamma Density: Aluminum Block | | | | | | | | | | | |
| Phase | LS window 3 – AI CPS | | Value | Phase | SS window 1 – AI CPS | | Value | Phase | SS window 3 – AI CPS | | Value |
| Master |  | | 446.9 | Master |  | | 2824 | Master |  | | 8854 |
| | 200.0 (Minimum) | 400.0 (Nominal) | 600.0 (Maximum) | | 1500 (Minimum) | 3000 (Nominal) | 4500 (Maximum) | | 4000 (Minimum) | 8500 (Nominal) | 13000 (Maximum) |

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|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|--------|-----------------------------------------------------------------------------------|--------------------|--------------------|--------|-------------------------------------------------------------------------------------|--------------------|--------------------|
| Master: 5-Jul-2008 16:42 | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | |
| Gamma Density: Background | | | | | | | | | | | |
| Phase | LS window 3 – Background | CPS | Value | Phase | SS window 1 – Background | CPS | Value | Phase | SS window 3 – Background | CPS | Value |
| Master |  | | 63.05 | Master |  | | 76.04 | Master |  | | 360.9 |
| | 50.00 (Minimum) | 70.00 (Nominal) | 90.00 (Maximum) | | 50.00 (Minimum) | 75.00 (Nominal) | 100.0 (Maximum) | | 270.0 (Minimum) | 370.0 (Nominal) | 470.0 (Maximum) |

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|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|-------|--------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------|
| Master: 5-Jul-2008 16:42 | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | |
| Gamma Density: Water Block Check | | | | | | | | | |
| Phase | Long spacing water density G/C3 | | | Value | Phase | Short spacing water density G/C3 | | | Value |
| Master |  | | | 1.024 | Master |  | | | 1.283 |
| | 0.9000 (Minimum) | 1.150 (Nominal) | 1.400 (Maximum) | | | 0.9000 (Minimum) | 1.150 (Nominal) | 1.400 (Maximum) | |

| Master: 1-Jul-2008 14:50 | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|--------------------|---------|--------|-------------------------------------------------------------------------------------|----------------|--------------------|---------|--------|---------------------------------------------------------------------------------------|----------------|--------------------|---------|
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | | | | |
| Resistivity: Air | | | | | | | | | | | | | | |
| Phase | Phase-Shift T1 | | | Value | Phase | Phase-Shift T2 | | | Value | Phase | Phase-Shift T3 | | | Value |
| Master |  | | | 1.772 | Master |  | | | -1.850 | Master |  | | | 1.739 |
| | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | | | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | | | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | |
| Phase | Phase-Shift T4 | | | Value | Phase | Phase-Shift T5 | | | Value | Phase | Phase-Shift T1 at 400KHz | | | Value |
| Master |  | | | -1.839 | Master |  | | | 1.769 | Master |  | | | -0.3070 |
| | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | | | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | | | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | |
| Phase | Phase-Shift T2 at 400KHz | | | Value | Phase | Phase-Shift T3 at 400KHz | | | Value | Phase | Phase-Shift T4 at 400KHz | | | Value |
| Master |  | | | 0.2960 | Master |  | | | -0.4290 | Master |  | | | 0.2780 |
| | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | | | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | | | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | |
| Phase | Phase-Shift T5 at 400KHz | | | Value | | | | | | | | | | |
| Master |  | | | -0.2560 | | | | | | | | | | |
| | -4.000 (Minimum) | 0 (Nominal) | 4.000 (Maximum) | | | | | | | | | | | |

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|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|--------------------|--------------------|-------------------------------------------------------------------------------------|--|--|-------|--------------------|---------------------------------------------------------------------------------------|--------------------|--------------------|-------|--|--------------------|--------------------|
| Master: 1-Jul-2008 14:50 | | | | | | | | | | | | | | | | | |
| EcoScope Integrated Logging-While-Drilling Tool – 6.75 inch Calibration | | | | | | | | | | | | | | | | | |
| Resistivity: Air | | | | | | | | | | | | | | | | | |
| Phase | Attenuation T1 | | | Value | Phase | Attenuation T2 | | | Value | Phase | Attenuation T3 | | | Value | | | |
| Master |  | | | 8.649 | Master |  | | | 5.776 | Master |  | | | 5.248 | | | |
| 7.000 (Minimum) | | | | 9.000 (Nominal) | 11.00 (Maximum) | 4.000 (Minimum) | | | | 6.000 (Nominal) | 8.000 (Maximum) | 3.500 (Minimum) | | | | 5.500 (Nominal) | 7.500 (Maximum) |
| Phase | Attenuation T4 | | | Value | Phase | Attenuation T5 | | | Value | Phase | Attenuation T1 at 400KHz | | | Value | | | |
| Master |  | | | 4.175 | Master |  | | | 3.810 | Master |  | | | 8.670 | | | |
| 2.500 (Minimum) | | | | 4.500 (Nominal) | 6.500 (Maximum) | 2.000 (Minimum) | | | | 4.000 (Nominal) | 6.000 (Maximum) | 7.000 (Minimum) | | | | 9.000 (Nominal) | 11.00 (Maximum) |
| Phase | Attenuation T2 at 400KHz | | | Value | Phase | Attenuation T3 at 400KHz | | | Value | Phase | Attenuation T4 at 400KHz | | | Value | | | |
| Master |  | | | 5.766 | Master |  | | | 5.273 | Master |  | | | 4.159 | | | |
| 4.000 (Minimum) | | | | 6.000 (Nominal) | 8.000 (Maximum) | 3.500 (Minimum) | | | | 5.500 (Nominal) | 7.500 (Maximum) | 2.500 (Minimum) | | | | 4.500 (Nominal) | 6.500 (Maximum) |
| Phase | Attenuation T5 at 400KHz | | | Value | | | | | | | | | | | | | |
| Master |  | | | 3.831 | | | | | | | | | | | | | |
| 2.000 (Minimum) | | | | 4.000 (Nominal) | | | | | | | | | 6.000 (Maximum) | | | | |

SCHLUMBERGER

Survey report

31-Jul-2008 03:29:00

Client..... Nexus Energy Ltd
Field..... Longtom

Well..... Longtom-4 P
Service Order number..... 08ASQ0007
Engineer..... MVK/MLU/STA

n/a..... West Triton
n/a..... Victoria

Spud date..... 21-Jun-08
Last survey date..... 31-Jul-08
Total accepted surveys.... 89
MD of first survey..... 0.00 m
MD of last survey..... 2987.00 m

----- Survey calculation methods-----

Method for positions..... Minimum curvature
Method for DLS..... Mason & Taylor

----- Depth reference -----

Permanent datum..... Least Astronomical Tide
Depth reference..... Driller's Depth
GL above permanent..... -55.96 m
KB above permanent..... Top Drive
DF above permanent..... 41.06 m

----- Vertical section origin-----

Latitude (+N/S-)..... 0.00 m
Departure (+E/W-)..... 0.00 m

----- Platform reference point-----

Latitude (+N/S-).....
Departure (+E/W-).....

Azimuth from Vsect Origin to target: 183.55 degrees

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

Magnetic model..... BGGM version 2007
Magnetic date..... 29-Jun-2008
Magnetic field strength... 1195.93 HCNT
Magnetic dec (+E/W-)..... 13.10 degrees
Magnetic dip..... -68.59 degrees

----- MWD survey Reference Criteria -----

Reference G..... 1000.02 mGal
Reference H..... 1195.93 HCNT
Reference Dip..... -68.59 degrees
Tolerance of G..... (+/-) 2.50 mGal
Tolerance of H..... (+/-) 6.00 HCNT
Tolerance of Dip..... (+/-) 0.45 degrees

----- Corrections -----

Magnetic dec (+E/W-)..... 13.10 degrees
Grid convergence (+E/W-).. -0.82 degrees
Total az corr (+E/W-)..... 13.92 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)2008 IDEAL ID13_OC_08]
SCHLUMBERGER Survey Report

31-Jul-2008 03:29:00

| 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/ D/M) | 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 | 97.03 | 0.00 | 0.00 | 97.03 | 97.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | MWD | None |
| 3 | 116.15 | 0.69 | 328.34 | 19.12 | 116.15 | -0.09 | 0.10 | -0.06 | 0.12 | 328.34 | 0.04 | MWD | None |
| 4 | 124.06 | 0.56 | 358.29 | 7.91 | 124.06 | -0.17 | 0.18 | -0.09 | 0.20 | 333.96 | 0.04 | MWD | None |
| 5 | 147.44 | 0.36 | 43.93 | 23.38 | 147.44 | -0.34 | 0.34 | -0.04 | 0.35 | 353.53 | 0.02 | MWD | None |
| 6 | 204.75 | 0.52 | 335.69 | 57.31 | 204.75 | -0.71 | 0.71 | -0.02 | 0.71 | 358.29 | 0.01 | MWD | None |
| 7 | 324.05 | 0.78 | 189.14 | 119.30 | 324.04 | -0.38 | 0.40 | -0.37 | 0.55 | 317.18 | 0.01 | MWD | None |
| 8 | 382.91 | 0.23 | 326.57 | 58.86 | 382.90 | -0.07 | 0.11 | -0.50 | 0.51 | 281.89 | 0.02 | MWD | None |
| 9 | 412.77 | 0.34 | 250.06 | 29.86 | 412.76 | -0.09 | 0.13 | -0.62 | 0.63 | 281.47 | 0.01 | MWD | None |
| 10 | 442.90 | 0.19 | 118.87 | 30.13 | 442.89 | -0.03 | 0.07 | -0.66 | 0.66 | 276.14 | 0.02 | MWD | None |
| 11 | 531.83 | 0.85 | 328.15 | 88.93 | 531.82 | -0.50 | 0.56 | -0.88 | 1.04 | 302.55 | 0.01 | MWD | None |
| 12 | 563.30 | 0.97 | 289.41 | 31.47 | 563.29 | -0.77 | 0.85 | -1.25 | 1.51 | 304.08 | 0.02 | MWD | None |
| 13 | 651.66 | 0.44 | 355.43 | 88.36 | 651.64 | -1.31 | 1.43 | -1.98 | 2.45 | 305.85 | 0.01 | MWD | None |
| 14 | 741.14 | 0.59 | 334.49 | 89.48 | 741.12 | -2.05 | 2.19 | -2.21 | 3.11 | 314.76 | 0.00 | MWD | None |
| 15 | 750.39 | 0.71 | 327.45 | 9.25 | 750.37 | -2.14 | 2.28 | -2.26 | 3.21 | 315.27 | 0.02 | MWD | None |
| 16 | 783.28 | 0.52 | 304.12 | 32.89 | 783.25 | -2.38 | 2.54 | -2.49 | 3.56 | 315.50 | 0.01 | PUP | None |
| 17 | 812.94 | 2.32 | 203.29 | 29.66 | 812.91 | -1.88 | 2.06 | -2.84 | 3.51 | 305.96 | 0.08 | PUP | None |
| 18 | 842.62 | 5.16 | 197.90 | 29.68 | 842.52 | -0.02 | 0.24 | -3.49 | 3.50 | 273.94 | 0.10 | PUP | None |
| 19 | 872.25 | 7.16 | 192.11 | 29.63 | 871.98 | 3.09 | -2.83 | -4.29 | 5.14 | 236.55 | 0.07 | PUP | None |
| 20 | 901.94 | 8.22 | 183.91 | 29.69 | 901.40 | 7.05 | -6.76 | -4.82 | 8.30 | 215.50 | 0.05 | PUP | None |
| 21 | 931.42 | 10.19 | 179.91 | 29.48 | 930.50 | 11.76 | -11.47 | -4.96 | 12.50 | 203.39 | 0.07 | PUP | None |
| 22 | 960.94 | 13.95 | 179.75 | 29.52 | 959.36 | 17.91 | -17.64 | -4.94 | 18.32 | 195.65 | 0.13 | PUP | None |
| 23 | 990.68 | 17.52 | 178.95 | 29.74 | 987.98 | 25.96 | -25.71 | -4.84 | 26.16 | 190.67 | 0.12 | PUP | None |
| 24 | 1020.40 | 20.88 | 177.48 | 29.72 | 1016.05 | 35.68 | -35.47 | -4.53 | 35.76 | 187.28 | 0.11 | PUP | None |
| 25 | 1050.08 | 24.28 | 176.64 | 29.68 | 1043.45 | 47.01 | -46.85 | -3.94 | 47.02 | 184.80 | 0.12 | PUP | None |
| 26 | 1078.64 | 25.70 | 178.42 | 28.56 | 1069.33 | 59.00 | -58.90 | -3.42 | 59.00 | 183.33 | 0.06 | PUP | None |
| 27 | 1108.28 | 26.85 | 180.79 | 29.64 | 1095.91 | 72.09 | -72.02 | -3.34 | 72.10 | 182.65 | 0.05 | PUP | None |
| 28 | 1137.39 | 27.64 | 182.43 | 29.11 | 1121.79 | 85.41 | -85.34 | -3.72 | 85.42 | 182.49 | 0.04 | PUP | None |
| 29 | 1166.97 | 28.48 | 183.83 | 29.58 | 1147.89 | 99.32 | -99.23 | -4.48 | 99.34 | 182.58 | 0.04 | PUP | None |
| 30 | 1196.40 | 29.46 | 184.58 | 29.43 | 1173.64 | 113.57 | -113.45 | -5.52 | 113.58 | 182.79 | 0.04 | PUP | None |

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SCHLUMBERGER Survey Report

31-Jul-2008 03:29:00

| 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/ D/M) | Srvy tool type | Tool Corr (deg) |
|----------|--------------------------|------------------------|---------------------------|-------------------------|---------------------|----------------------------|-----------------------|-----------------------|-----------------------|---------------------|----------------------|----------------------|-----------------------|
| 31 | 1225.95 | 30.16 | 185.46 | 29.55 | 1199.28 | 128.26 | -128.08 | -6.81 | 128.26 | 183.04 | 0.03 | PUP | None |
| 32 | 1255.99 | 29.83 | 185.82 | 30.04 | 1225.30 | 143.27 | -143.03 | -8.29 | 143.27 | 183.32 | 0.01 | PUP | None |
| 33 | 1285.37 | 30.03 | 186.70 | 29.38 | 1250.76 | 157.91 | -157.60 | -9.88 | 157.91 | 183.59 | 0.02 | PUP | None |
| 34 | 1315.16 | 31.09 | 187.90 | 29.79 | 1276.41 | 173.02 | -172.62 | -11.81 | 173.03 | 183.91 | 0.04 | PUP | None |
| 35 | 1344.99 | 31.21 | 187.53 | 29.83 | 1301.94 | 188.41 | -187.91 | -13.88 | 188.42 | 184.23 | 0.01 | PUP | None |

| 36 | 1374.68 | 30.42 | 184.92 | 29.69 | 1327.44 | 203.60 | -203.03 | -15.54 | 203.62 | 184.38 | 0.05 | PUP | None |
|----------------------------|--------------------|------------------|---------------------|-------------------|---------------|----------------------|-----------------|-----------------|-----------------|---------------|----------------|----------------|------------------|
| 37 | 1404.59 | 30.04 | 183.00 | 29.91 | 1353.28 | 218.66 | -218.05 | -16.58 | 218.68 | 184.35 | 0.03 | PUP | None |
| 38 | 1433.94 | 31.67 | 182.29 | 29.35 | 1378.48 | 233.71 | -233.09 | -17.27 | 233.72 | 184.24 | 0.06 | PUP | None |
| 39 | 1463.79 | 30.65 | 181.20 | 29.85 | 1404.02 | 249.14 | -248.52 | -17.74 | 249.16 | 184.08 | 0.04 | PUP | None |
| 40 | 1493.62 | 30.04 | 180.72 | 29.83 | 1429.76 | 264.20 | -263.59 | -18.00 | 264.20 | 183.91 | 0.02 | PUP | None |
| 41 | 1523.35 | 30.08 | 180.58 | 29.73 | 1455.50 | 279.07 | -278.48 | -18.16 | 279.07 | 183.73 | 0.00 | PUP | None |
| 42 | 1553.11 | 30.38 | 181.81 | 29.76 | 1481.21 | 294.04 | -293.46 | -18.48 | 294.04 | 183.60 | 0.02 | PUP | None |
| 43 | 1583.05 | 30.31 | 183.44 | 29.94 | 1507.05 | 309.16 | -308.57 | -19.17 | 309.16 | 183.55 | 0.03 | PUP | None |
| 44 | 1612.84 | 30.34 | 184.08 | 29.79 | 1532.76 | 324.21 | -323.58 | -20.16 | 324.21 | 183.56 | 0.01 | PUP | None |
| 45 | 1642.12 | 30.48 | 183.53 | 29.28 | 1558.01 | 339.03 | -338.37 | -21.14 | 339.03 | 183.57 | 0.01 | PUP | None |
| 46 | 1671.81 | 30.16 | 182.75 | 29.69 | 1583.64 | 354.01 | -353.33 | -21.96 | 354.01 | 183.56 | 0.02 | PUP | None |
| 47 | 1701.38 | 29.96 | 181.97 | 29.57 | 1609.24 | 368.82 | -368.13 | -22.57 | 368.82 | 183.51 | 0.01 | PUP | None |
| 48 | 1730.84 | 30.49 | 182.20 | 29.46 | 1634.69 | 383.65 | -382.95 | -23.11 | 383.65 | 183.45 | 0.02 | PUP | None |
| 49 | 1760.64 | 30.44 | 183.16 | 29.80 | 1660.38 | 398.75 | -398.04 | -23.82 | 398.76 | 183.42 | 0.02 | PUP | None |
| 50 | 1790.34 | 29.76 | 183.49 | 29.70 | 1686.07 | 413.65 | -412.91 | -24.68 | 413.65 | 183.42 | 0.02 | PUP | None |
| 51 | 1820.04 | 29.12 | 183.26 | 29.70 | 1711.94 | 428.25 | -427.49 | -25.54 | 428.25 | 183.42 | 0.02 | PUP | None |
| 52 | 1849.86 | 28.05 | 182.80 | 29.82 | 1738.12 | 442.51 | -441.73 | -26.30 | 442.51 | 183.41 | 0.04 | PUP | None |
| 53 | 1879.39 | 28.44 | 182.54 | 29.53 | 1764.14 | 456.49 | -455.69 | -26.95 | 456.49 | 183.38 | 0.01 | PUP | None |
| 54 | 1909.08 | 29.18 | 181.91 | 29.69 | 1790.15 | 470.79 | -469.99 | -27.50 | 470.79 | 183.35 | 0.03 | PUP | None |
| 55 | 1938.97 | 29.25 | 182.37 | 29.89 | 1816.24 | 485.37 | -484.57 | -28.05 | 485.38 | 183.31 | 0.01 | PUP | None |
| 56 | 1968.51 | 27.81 | 181.63 | 29.54 | 1842.19 | 499.48 | -498.67 | -28.54 | 499.48 | 183.28 | 0.05 | PUP | None |
| 57 | 1998.05 | 27.26 | 181.66 | 29.54 | 1868.38 | 513.13 | -512.32 | -28.93 | 513.13 | 183.23 | 0.02 | PUP | None |
| 58 | 2028.03 | 26.98 | 181.70 | 29.98 | 1895.07 | 526.79 | -525.98 | -29.33 | 526.80 | 183.19 | 0.01 | PUP | None |
| 59 | 2057.68 | 29.01 | 184.81 | 29.65 | 1921.25 | 540.70 | -539.87 | -30.14 | 540.71 | 183.19 | 0.08 | PUP | None |
| 60 | 2087.27 | 29.58 | 188.03 | 29.59 | 1947.06 | 555.15 | -554.25 | -31.76 | 555.16 | 183.28 | 0.06 | PUP | None |
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| SCHLUMBERGER Survey Report | | | | | | | | | | | | | |
| 31-Jul-2008 03:29:00 | | | | | | | | | | | | | |
| 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/ D/M) | Srvy tool type | Tool Corr (deg) |
| 61 | 2116.78 | 29.55 | 188.02 | 29.51 | 1972.72 | 569.67 | -568.67 | -33.79 | 569.67 | 183.40 | 0.00 | PUP | None |
| 62 | 2146.82 | 30.97 | 187.12 | 30.04 | 1998.67 | 584.77 | -583.67 | -35.78 | 584.77 | 183.51 | 0.05 | PUP | None |
| 63 | 2176.36 | 31.76 | 185.57 | 29.54 | 2023.89 | 600.13 | -598.95 | -37.48 | 600.13 | 183.58 | 0.04 | PUP | None |
| 64 | 2206.21 | 31.48 | 183.82 | 29.85 | 2049.31 | 615.77 | -614.55 | -38.76 | 615.77 | 183.61 | 0.03 | PUP | None |
| 65 | 2235.88 | 31.35 | 183.41 | 29.67 | 2074.63 | 631.24 | -629.98 | -39.74 | 631.24 | 183.61 | 0.01 | PUP | None |
| 66 | 2265.38 | 32.11 | 184.62 | 29.50 | 2099.72 | 646.75 | -645.46 | -40.82 | 646.75 | 183.62 | 0.03 | PUP | None |
| 67 | 2295.13 | 31.69 | 185.04 | 29.75 | 2124.98 | 662.47 | -661.12 | -42.15 | 662.47 | 183.65 | 0.02 | PUP | None |
| 68 | 2325.11 | 33.21 | 184.84 | 29.98 | 2150.28 | 678.55 | -677.15 | -43.53 | 678.55 | 183.68 | 0.05 | PUP | None |
| 69 | 2355.31 | 35.92 | 185.28 | 30.20 | 2175.15 | 695.67 | -694.22 | -45.04 | 695.68 | 183.71 | 0.09 | PUP | None |
| 70 | 2385.09 | 36.82 | 184.07 | 29.78 | 2199.13 | 713.33 | -711.82 | -46.48 | 713.33 | 183.74 | 0.04 | PUP | None |
| 71 | 2413.59 | 37.70 | 183.21 | 28.50 | 2221.81 | 730.58 | -729.03 | -47.58 | 730.59 | 183.73 | 0.04 | PUP | None |
| 72 | 2472.44 | 42.55 | 182.99 | 58.85 | 2266.79 | 768.50 | -766.89 | -49.62 | 768.50 | 183.70 | 0.08 | PUP | None |
| 73 | 2502.19 | 45.34 | 182.77 | 29.75 | 2288.21 | 789.14 | -787.51 | -50.66 | 789.14 | 183.68 | 0.09 | PUP | None |
| 74 | 2531.76 | 48.61 | 183.24 | 29.57 | 2308.39 | 810.75 | -809.10 | -51.79 | 810.75 | 183.66 | 0.11 | PUP | None |
| 75 | 2561.19 | 50.89 | 182.57 | 29.43 | 2327.40 | 833.21 | -831.53 | -52.93 | 833.21 | 183.64 | 0.08 | PUP | None |
| 76 | 2578.22 | 52.52 | 183.03 | 17.03 | 2337.95 | 846.57 | -844.88 | -53.58 | 846.57 | 183.63 | 0.10 | PUP | None |
| 77 | 2621.57 | 53.72 | 182.84 | 43.35 | 2363.97 | 881.25 | -879.51 | -55.36 | 881.25 | 183.60 | 0.03 | PUP | None |
| 78 | 2651.30 | 53.37 | 183.55 | 29.73 | 2381.63 | 905.16 | -903.38 | -56.69 | 905.16 | 183.59 | 0.02 | PUP | None |
| 79 | 2681.00 | 52.50 | 184.22 | 29.70 | 2399.54 | 928.86 | -927.03 | -58.30 | 928.86 | 183.60 | 0.03 | PUP | None |
| 80 | 2711.02 | 51.43 | 184.51 | 30.02 | 2418.03 | 952.50 | -950.60 | -60.10 | 952.50 | 183.62 | 0.04 | PUP | None |
| 81 | 2740.27 | 50.60 | 184.48 | 29.25 | 2436.43 | 975.23 | -973.27 | -61.88 | 975.23 | 183.64 | 0.03 | PUP | None |
| 82 | 2770.05 | 50.01 | 184.85 | 29.78 | 2455.45 | 998.14 | -996.11 | -63.74 | 998.14 | 183.66 | 0.02 | PUP | None |
| 83 | 2798.55 | 47.70 | 183.57 | 28.50 | 2474.20 | 1019.60 | -1017.51 | -65.32 | 1019.60 | 183.67 | 0.09 | PUP | None |
| 84 | 2857.04 | 46.14 | 183.13 | 58.49 | 2514.15 | 1062.32 | -1060.15 | -67.82 | 1062.32 | 183.66 | 0.03 | PUP | None |
| 85 | 2886.94 | 46.56 | 182.91 | 29.90 | 2534.79 | 1083.95 | -1081.76 | -68.96 | 1083.95 | 183.65 | 0.02 | PUP | None |
| 86 | 2916.37 | 46.19 | 183.31 | 29.43 | 2555.10 | 1105.26 | -1103.03 | -70.11 | 1105.26 | 183.64 | 0.02 | PUP | None |
| 87 | 2946.06 | 45.04 | 184.18 | 29.69 | 2575.86 | 1126.47 | -1124.20 | -71.50 | 1126.47 | 183.64 | 0.04 | PUP | None |
| 88 | 2970.49 | 45.14 | 184.59 | 24.43 | 2593.11 | 1143.77 | -1141.45 | -72.82 | 1143.77 | 183.65 | 0.01 | PUP | None |
| 89 | 2987.00 | 45.14 | 184.59 | 16.51 | 2604.76 | 1155.47 | -1153.12 | -73.76 | 1155.48 | 183.66 | 0.00 | PUP | Projection to TD |
| [[c)2008 IDEAL ID13_OC_08] | | | | | | | | | | | | | |

Company:
Nexus Energy Ltd

Well:
Longtom–4 P

Field:
Longtom

Rig:
West Triton

State:
Victoria

EcoScope* Service
1:200 True Vertical Depth
Recorded Mode Log

9.5 in Section

Schlumberger

