

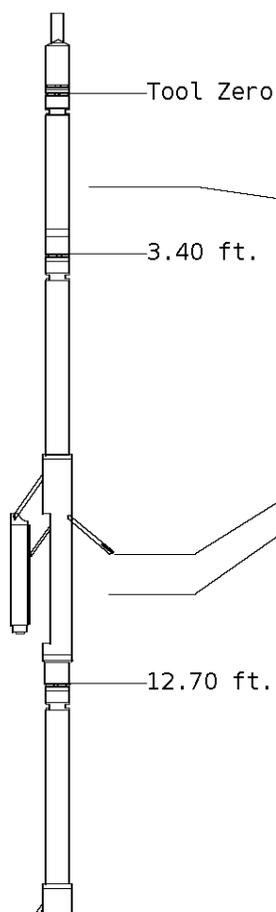
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, MLT, CST, AND PIT RUN IN COMBINATION
 CALIPERS ORIENTED ON X-Y AXIS
 2.71 G/CC USED TO CALCULATE POROSITY
 ANNULAR HOLE VOLUME CALCULATED USING 5.50" PRODUCTION CASING
 PHIN IS CALIPER CORRECTED

GRT: GRP.
 CNT: PHIN, CLCNIN.
 LDT: PORL, LCORN, PECLN, LDENN, CLLDIN.
 CST: PORS, ITT, CDTF, TT1, TT2, TT3, TT4.
 PIT : ILD,ILM,SPU,SFLAEC,CIRD,RXO/RT

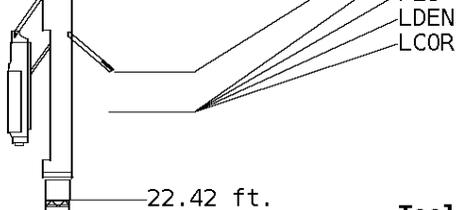
OPERATORS:
 D.RAGSDALE
 J.VAUGH
 D.LEGLEITER

Tool String Schematic

Total Tool Length - 67.37 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 1171.00 lbs.



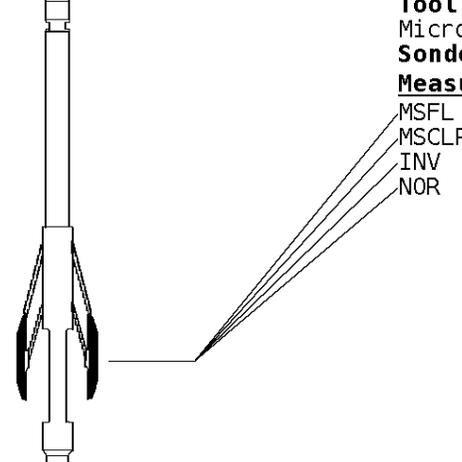
| | | | | | |
|------------------------------------|--------------------|---------------------|----------------------|-------------|----------|
| Tool: GRT-B | | Length: | 3.40 ft. | O.D. | 3.60 in. |
| Gamma Ray Controller | | | | | |
| Sonde ID | | :GRT-BC-038 | | | |
| Measure Point | Tool Offset | Stack Offset | Bottom Offset | | |
| GRP | 2.00 | 2.00 | 65.37 | | |
| Tool: CNT-AA | | Length: | 9.30 ft. | O.D. | 4.36 in. |
| Compensated Neutron A Pad on NDT-A | | | | | |
| Sonde ID | | :NDT-AF-104 | | | |
| Source ID | | :N-1104 | | | |
| Pad ID | | :CNP-AE-41 | | | |
| Measure Point | Tool Offset | Stack Offset | Bottom Offset | | |
| CLCN | 6.00 | 9.40 | 57.97 | | |
| PHIN | 6.80 | 10.20 | 57.17 | | |
| Tool: LDT-DF | | Length: | 9.72 ft. | O.D. | 4.80 in. |
| Litho Density D Pad on NDT-F | | | | | |
| Sonde ID | | :NDT-FA-404 | | | |
| Source ID | | :1637GW | | | |
| Pad ID | | :LDP-DA-062 | | | |
| Measure Point | Tool Offset | Stack Offset | Bottom Offset | | |
| CLLD | 6.42 | 19.12 | 48.25 | | |
| PEL | 7.42 | 20.12 | 47.25 | | |
| PES | 7.82 | 20.52 | 46.85 | | |



7.62 20.32 47.05
 7.62 20.32 47.05

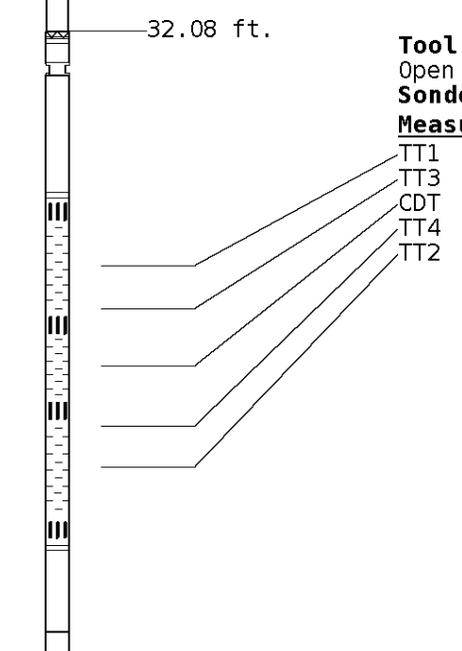
Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
 Micro Spherically Focused (IC,D)
Sonde ID :MST-DA-13

| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---------------|-------------|--------------|---------------|
| MSFL | 7.60 | 30.02 | 37.35 |
| MSCLP | 7.60 | 30.02 | 37.35 |
| INV | 7.60 | 30.02 | 37.35 |
| NOR | 7.60 | 30.02 | 37.35 |



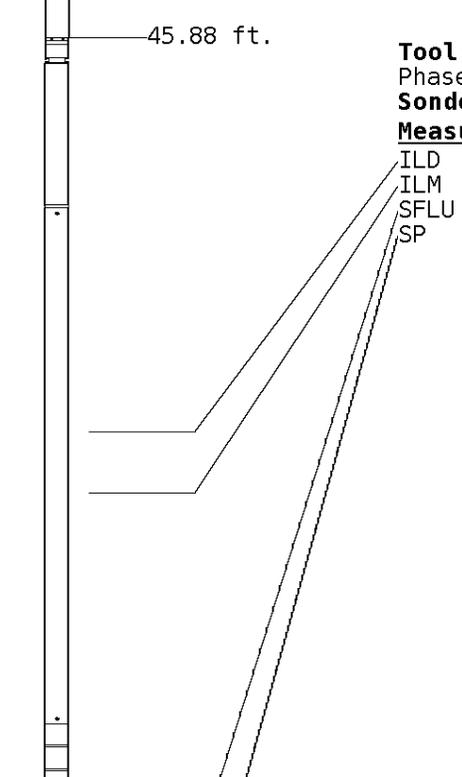
Tool: CST-AD **Length:** 13.80 ft. **O.D.** 3.60 in.
 Open Hole Sonic
Sonde ID :CST-AD-043

| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---------------|-------------|--------------|---------------|
| TT1 | 4.80 | 36.88 | 30.49 |
| TT3 | 5.80 | 37.88 | 29.49 |
| CDT | 7.30 | 39.38 | 27.99 |
| TT4 | 8.80 | 40.88 | 26.49 |
| TT2 | 9.80 | 41.88 | 25.49 |



Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-AC-043

| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---------------|-------------|--------------|---------------|
| ILD | 8.92 | 54.80 | 12.56 |
| ILM | 10.10 | 55.98 | 11.39 |
| SFLU | 17.49 | 63.37 | 4.00 |
| SP | 20.60 | 66.48 | 0.88 |



LWT 67.37 ft.

Well File: BEREXCO-HINES-26X_NOV20-QST

Scale: 1:240

Format: COMSAT

Segment: V1.D2.S8 Reprocess MAIN

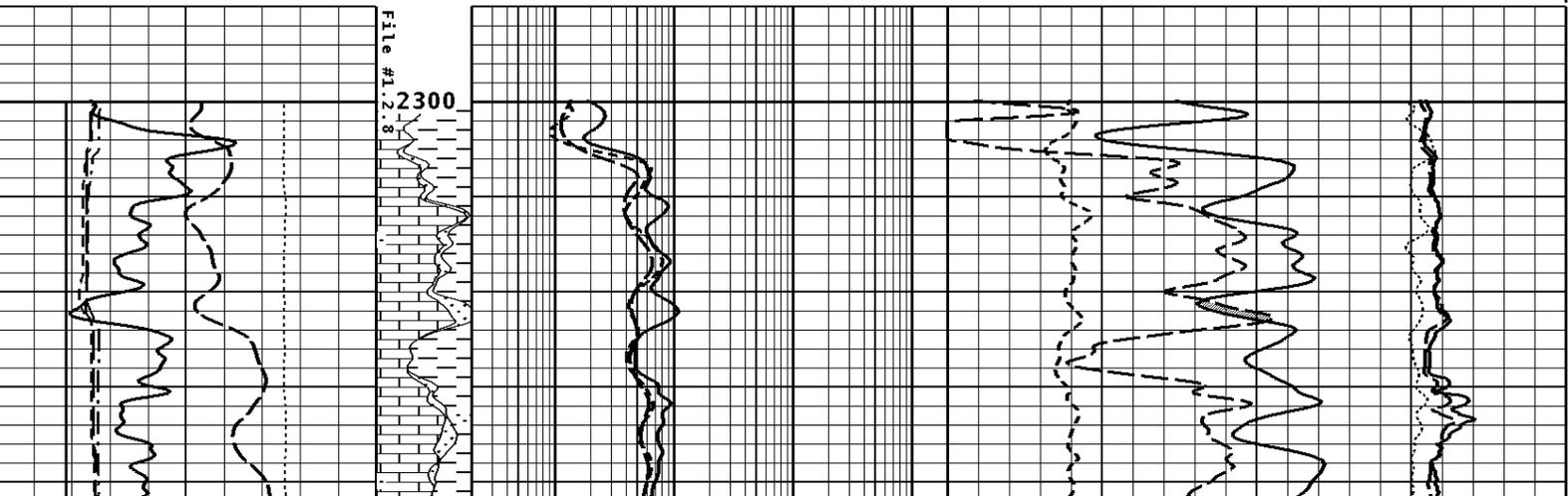
Acquired: 2019-11/20 16:48 3.4.1-13972

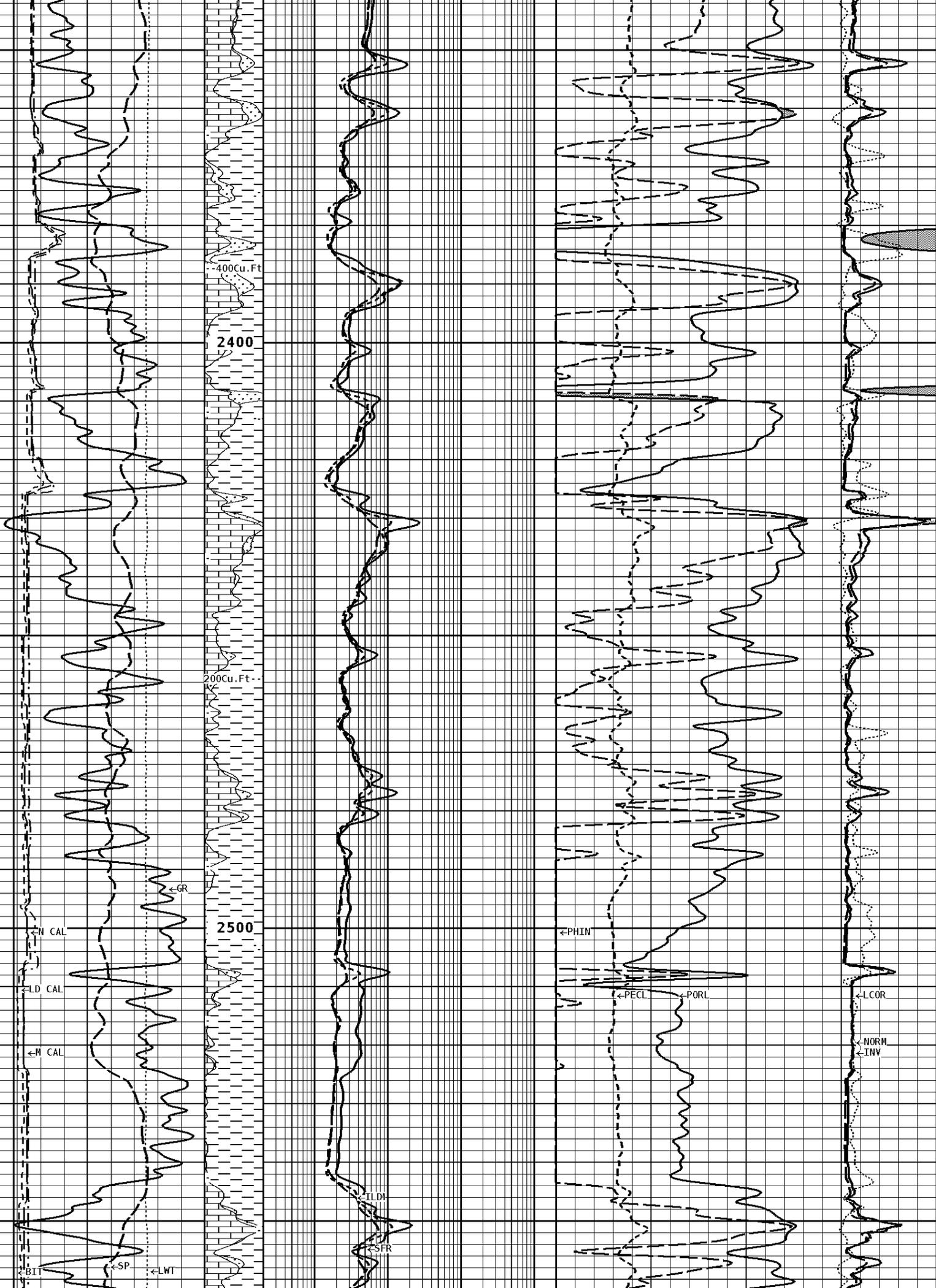
Reference: 0

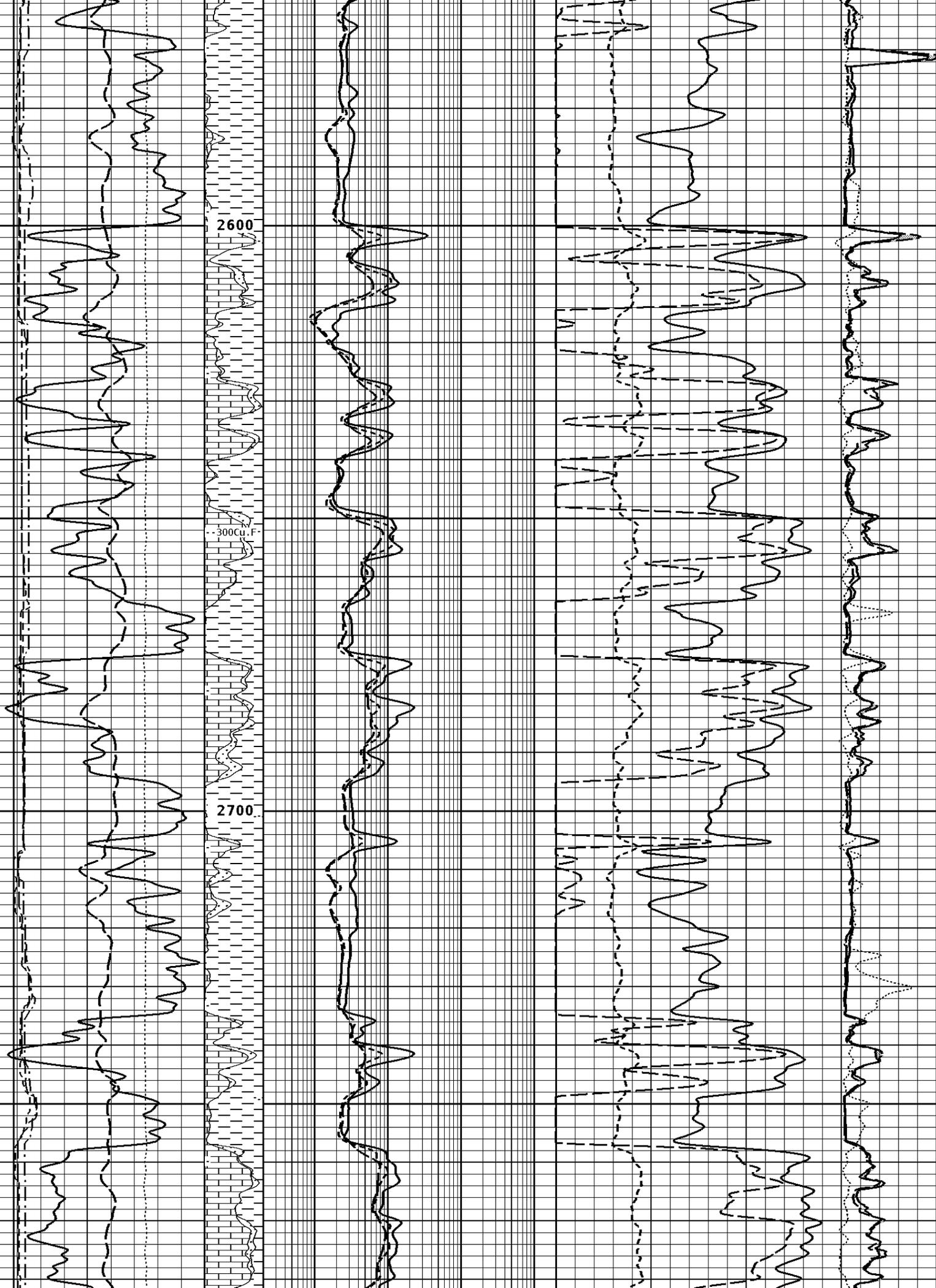
Processed: 2019-11/20 18:43 3.4.1-13972

| | | | | | |
|---|--|--|---|-----------------------------|--|
| CALIPER MICRO INCHES (IN) 16 26 6 16 | | | | | |
| BIT SIZE INCHES (IN) 6 16 | | | | NORMAL OHMM 0 40 | |
| NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16 | | | | INVERSE OHMM 0 40 | |
| DENSITY (X) CALIPER INCHES (IN) 16 26 6 16 | | Volume Quartz  | DENSITY CORRECTION G/CC -0.75 0.25 | | |
| TENSION LBS 10000 0 | | Volume Calcite  | SHALLOW FOCUSED RESISTIVITY OHMM 0.2 2000.0 0 | | PE CROSS-SECTION BARNS/ELECTRON 20 |
| SPONTANEOUS POTENTIAL mV → ← 20 | | Volume Dolo/Shale  | DEEP INDUCTION OHMM 0.2 2000.0 | | DENSITY POROSITY (2.71g/cc) PERCENT 70 30 30 -10 -10 -50 |
| GAMMA RAY API UNITS 150 300 0 150 | | BHV AHV CU. FT | MEDIUM INDUCTION OHMM 0.2 2000.0 30 | | NEUTRON POROSITY (LIMESTONE) PERCENT -10 |

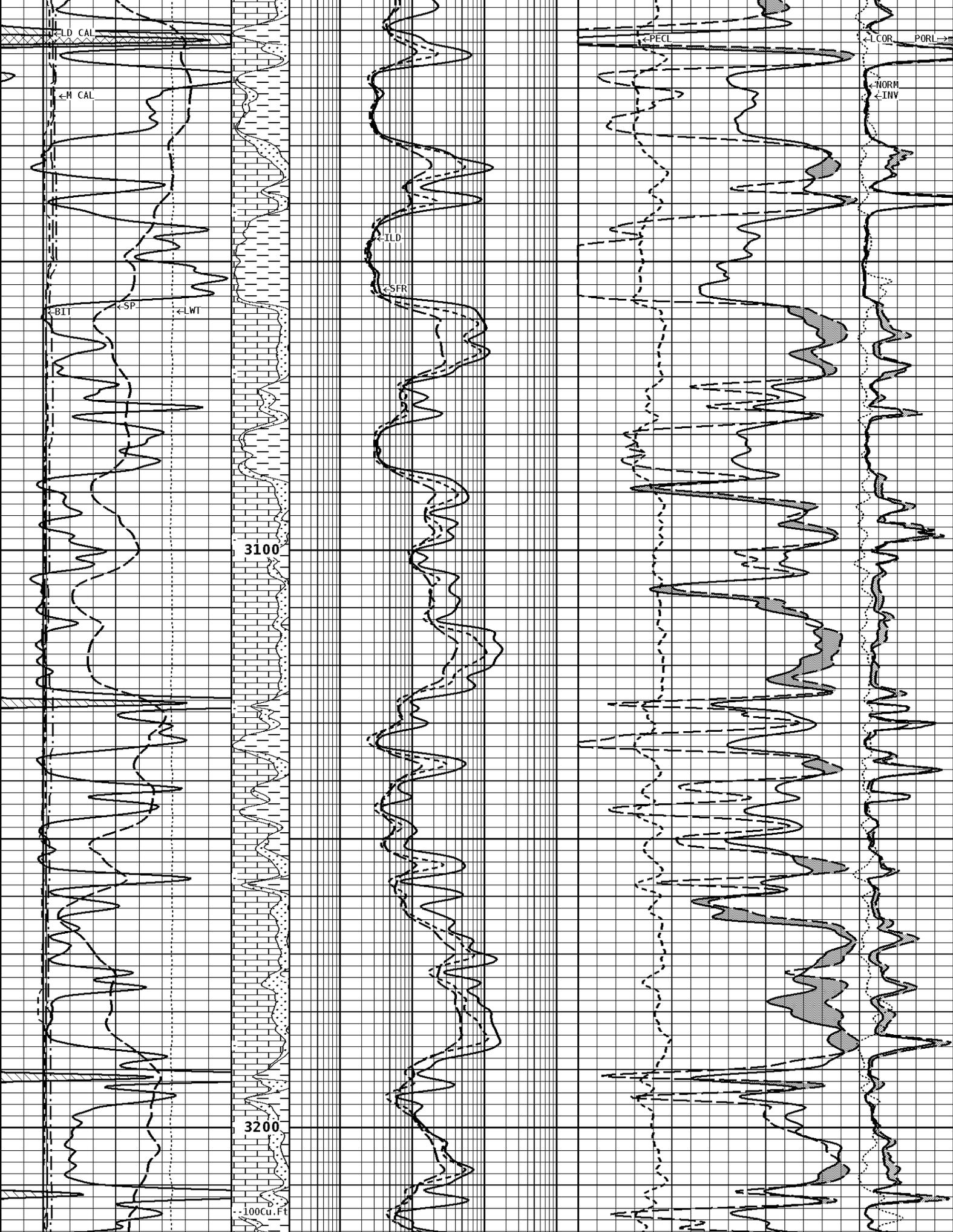
1:240 MAIN SECTION

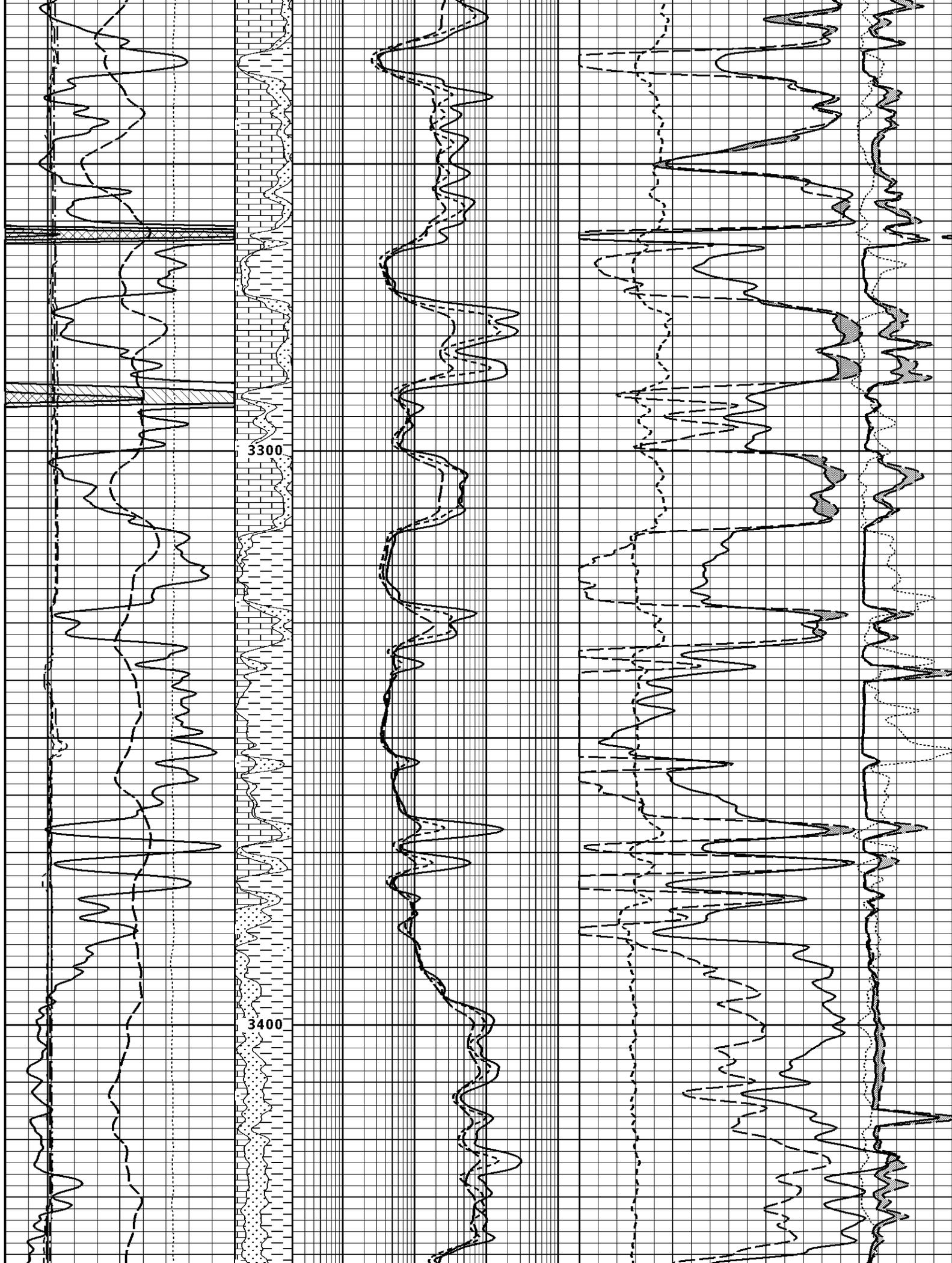


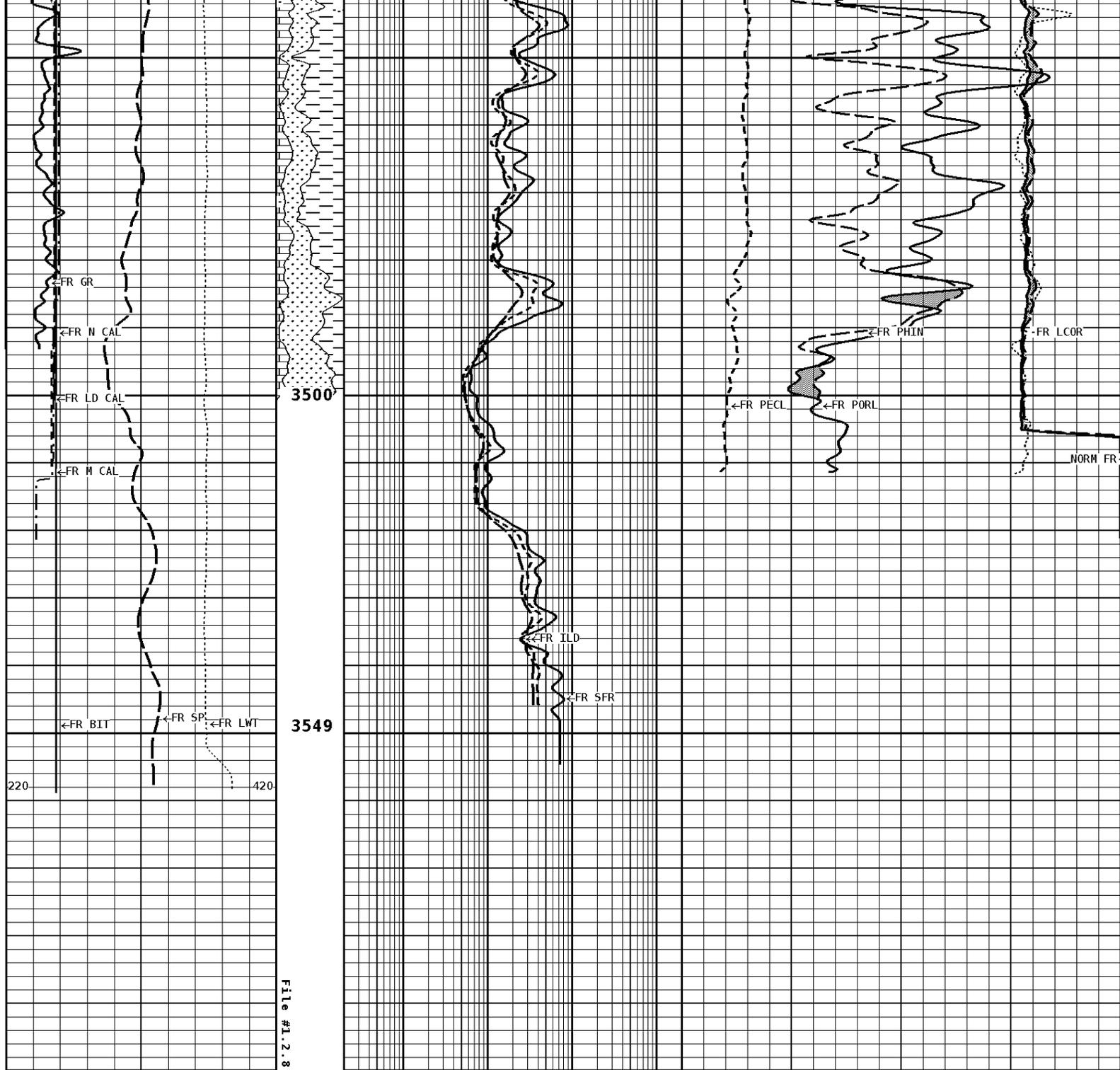












1:240 MAIN SECTION

| | | | |
|---|----------------------|---|---|
| GAMMA RAY API UNITS 150 0 300 150 | BHV AHV CU. FT | MEDIUM INDUCTION OHMM 0.2 2000.0 30 | NEUTRON POROSITY (LIMESTONE) PERCENT -10 |
| SPONTANEOUS POTENTIAL mV → ← 20 | Volume Dolo/Shale | DEEP INDUCTION OHMM 0.2 2000.0 30 | DENSITY POROSITY (2.71g/cc) PERCENT 70 30 -10 -50 |
| TENSION LBS 10000 0 | Volume Calcite | SHALLOW FOCUSED RESISTIVITY OHMM 0.2 2000.0 0 | PE CROSS-SECTION BARNS/ELECTRON 20 |

File #1.2.8

| | | |
|--|----------|--|
| DENSITY (X) CALIPER INCHES (IN) | | Volume Quartz |
| 16 6 | 26 16 |  |
| NEUTRON (Y) CALIPER INCHES (IN) | | |
| 16 6 | 26 16 | |
| BIT SIZE INCHES (IN) | | |
| 6 | 16 | |
| CALIPER MICRO INCHES (IN) | | |
| 16 6 | 26 16 | |

| | |
|--------------------------------|------|
| DENSITY CORRECTION G/CC | |
| -0.75 | 0.25 |
| INVERSE OHMM | |
| 0 | 40 |
| NORMAL OHMM | |
| 0 | 40 |

*** Borehole Zone Factors ***

| | | |
|-----------------------------------|-----------|-------|
| Zone 1 99999.0 to 0.0 Feet | | |
| Matrix Density | 2.71 | g/cc |
| Fluid Density | 1.00 | g/cc |
| Matrix Transit Time | 47.5 | us/ft |
| Fluid Transit Time | 189.0 | us/ft |
| Formation Matrix | Limestone | |
| Drill Bit Size | 7.875 | in |
| Casing Diameter | 5.500 | in |
| Casing Thickness | 0.250 | in |
| Casing Correction (PHI N) | Disable | |
| Hole Substance | Fluid | |
| BHT Depth | 3550.000 | ft |
| Borehole Temperature | 95.0 | degF |
| Temperature Gradient | 1.00 | DFHF |
| Resistivity Of Mud | 1.500 | ohmm |
| MSTNG Normal Correction | 0.00 | ohmm |
| MSTNG Inverse Correction | 0.50 | ohmm |

| | | |
|---|--|-----------------------|
| Well File: BEREXCO-HINES-26X NOV20-QST | Scale: 1:240 | Format: COMSAT |
| Segment: V1.D2.S6 Reprocess REPEAT | Acquired: 2019-11/20 16:30 3.4.1-13972 | |
| Reference: 0 | Processed: 2019-11/20 18:40 3.4.1-13972 | |

| | | | |
|--|---|---|--|
| CALIPER MICRO INCHES (IN) | | | |
| 16 6 | 26 16 | | |
| BIT SIZE INCHES (IN) | | | |
| 6 | 16 | | |
| NEUTRON (Y) CALIPER INCHES (IN) | | | |
| 16 6 | 26 16 | | |
| DENSITY (X) CALIPER INCHES (IN) | | Volume Quartz | DENSITY CORRECTION G/CC |
| 16 6 | 26 16 |  | -0.75 0.25 |
| TENSION LBS | Volume Calcite | SHALLOW FOCUSED RESISTIVITY OHMM | PE CROSS-SECTION BARNs/ELECTRON |
| 10000 0 |  | 0.2 2000.0 0 | 20 |
| SPONTANEOUS POTENTIAL mV | Volume Dolo/Shale | DEEP INDUCTION OHMM | DENSITY POROSITY (2.71g/cc) PERCENT |
| → ← 20 |  | 0.2 2000.0 | 70 30 -10 -50 |

GAMMA RAY
API UNITS



BHV AHV
CU. FT

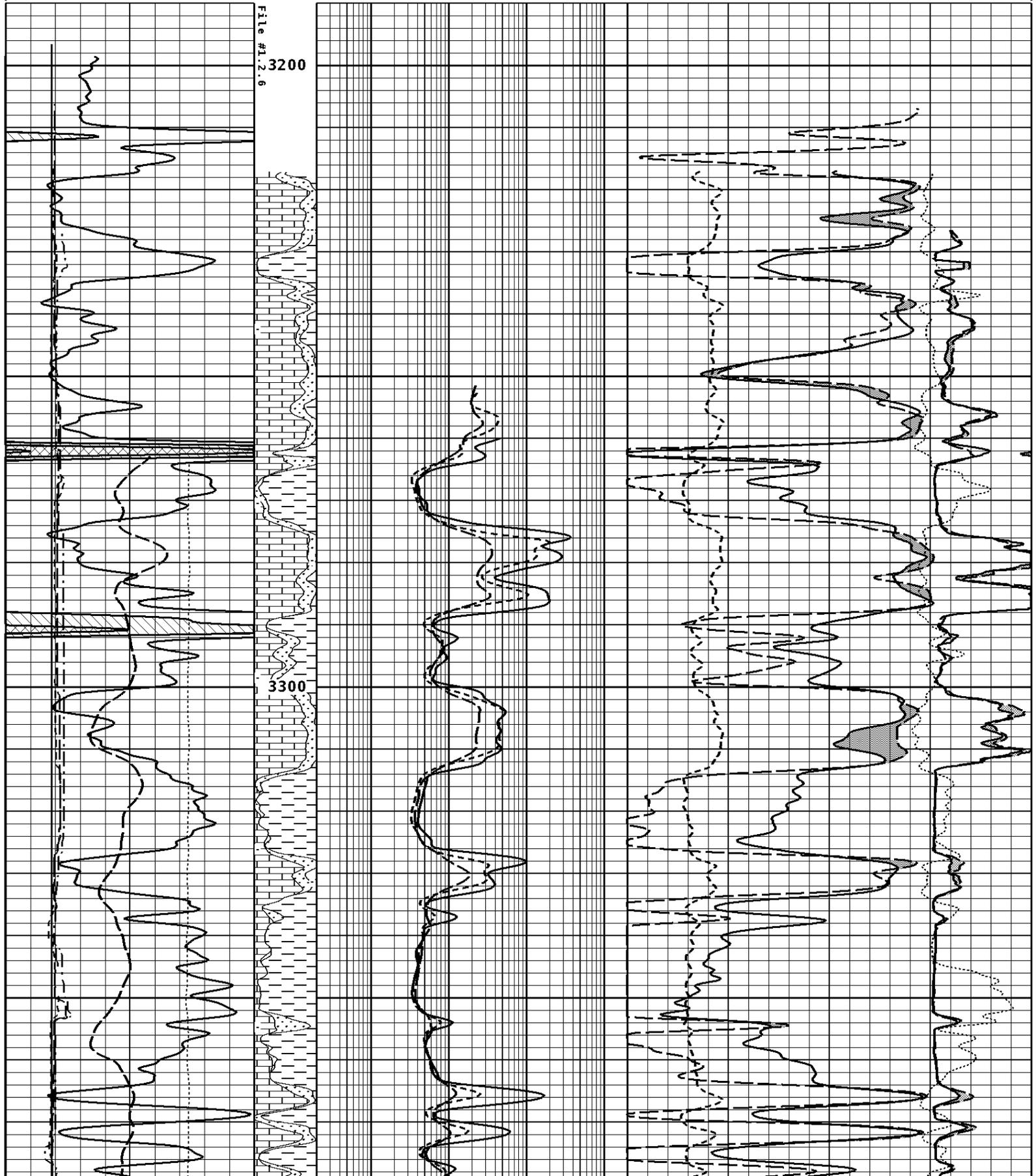
MEDIUM INDUCTION
OHMM

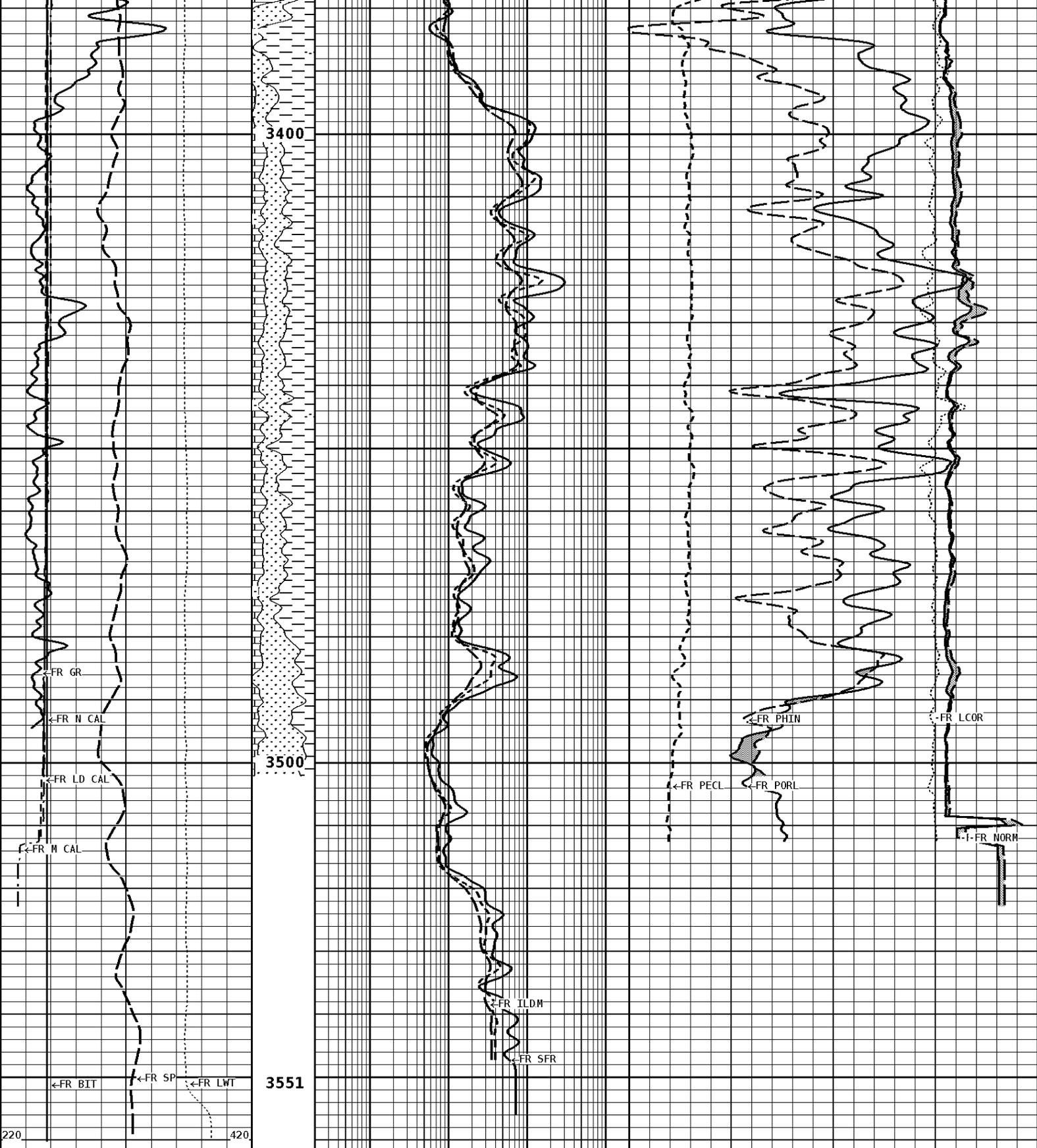
NEUTRON POROSITY (LIMESTONE)
PERCENT

0.2 2000.0 30

-10

1:240 REPEAT SECTION





File #1.2.

1:240 REPEAT SECTION

| | | | |
|--|----------------------|---|--|
| GAMMA RAY API UNITS  | BHV AHV CU. FT | MEDIUM INDUCTION OHMM 0.2 ----- 2000.0 | NEUTRON POROSITY (LIMESTONE) PERCENT 30 ----- -10 |
| SPONTANEOUS POTENTIAL mV → ← 20 | Volume Dolo/Shale | DEEP INDUCTION OHMM 0.2 ----- 2000.0 | DENSITY POROSITY (2.71g/cc) PERCENT 70 ----- 30 -10 ----- -50 |
| TENSION LBS 10000 ----- 0 | Volume Calcite | SHALLOW FOCUSED RESISTIVITY OHMM 0.2 ----- 2000.0 | PE CROSS-SECTION BARNS/ELECTRON 0 ----- 20 |
| DENSITY (X) CALIPER INCHES (IN) 16 ----- 6 6 ----- 16 | Volume Quartz | | DENSITY CORRECTION G/CC -0.75 ----- 0.25 |
| NEUTRON (Y) CALIPER INCHES (IN) 16 ----- 6 6 ----- 16 | | | INVERSE OHMM 0 ----- 40 |
| BIT SIZE INCHES (IN) 6 ----- 16 | | | NORMAL OHMM 0 ----- 40 |
| CALIPER MICRO INCHES (IN) 16 ----- 6 6 ----- 16 | | | |

* Borehole Zone Factors *

| Zone 1 99999.0 to 0.0 Feet | | |
|----------------------------|----------|-----------|
| Matrix Density | 2.71 | g/cc |
| Fluid Density | 1.00 | g/cc |
| Matrix Transit Time | 47.5 | us/ft |
| Fluid Transit Time | 189.0 | us/ft |
| Formation Matrix | | Limestone |
| Drill Bit Size | 7.875 | in |
| Casing Diameter | 5.500 | in |
| Casing Thickness | -0.650 | in |
| Casing Correction (PHI N) | | Disable |
| Hole Substance | | Fluid |
| BHT Depth | 3550.000 | ft |
| Borehole Temperature | 95.0 | degF |
| Temperature Gradient | 1.00 | DFHF |
| Resistivity Of Mud | 1.500 | ohmm |
| MSTNG Normal Correction | 0.00 | ohmm |
| MSTNG Inverse Correction | 0.00 | ohmm |

* Calibration Summary *

| Shop Calibration | | | | | |
|-------------------------|------------|-------|-----------------|-------|--|
| GRT-B | | | | | |
| Performed : 24-JUN-2019 | | | Time : 12:20 | | |
| Sensor Suite : GR-GR5 | | | ID : GRT-BC-038 | | |
| | Measured | Units | Calibrated | Units | |
| GR | Background | Jig | Jig | GRAPI | |
| | 36 | 266 | 160 | | |
| | | CPS | | | |

| Shop Calibration | | | | | |
|------------------|--|--|--|--|--|
| CNT-AA | | | | | |

Performed : 03-Jun-2019 Time : 11:06
 Sensor Suite : CALI-BCN ID : NDT-AF-104

| CL # | Jig - Measured | | Jig - Calibrated | | Units |
|------|----------------|--------|------------------|--------|-------|
| | Ring#1 | Ring#2 | Ring#1 | Ring#2 | |
| 1 | 8.3 | 13.2 | 6.0 | 12.0 | IN. |

Performed : 18-SEP-2019 Time : 16:10
 Sensor Suite : BHC NEUT ID : CNP-AE-41
 Source ID : N-1104

| N/F | Tank | | Verification | Units |
|----------|----------|------------|--------------|-------|
| | Measured | Calibrated | Jig | |
| Porosity | 3.7537 | 3.6893 | 3.6964 | % |
| | 21.5 | 20.5 | 20.6 | |

**Shop Calibration
LDT-DF**

Performed : 03-Jun-2019 Time : 14:53
 Sensor Suite : CALI-LTH ID : NDT-FA-404

| CL # | Jig - Measured | | Jig - Calibrated | | Units |
|------|----------------|--------|------------------|--------|-------|
| | Ring#1 | Ring#2 | Ring#1 | Ring#2 | |
| 1 | 8.3 | 13.2 | 6.0 | 12.0 | IN. |

Performed : 18-SEP-2019 Time : 12:05
 Sensor Suite : BHCPELNG ID : LDP-DA-062
 Source ID : 1637GW

| Short Space | | | | | |
|-------------|-------|-------|-------|-------|-------|
| | BKGD | Al | Mg | Al+Fe | Units |
| LSW1 | 65 | 1048 | 1693 | 671 | CPS |
| LSW2 | 68 | 1209 | 1923 | 869 | CPS |
| LSW3 | 248 | 2723 | 4386 | 2317 | CPS |
| LSW4 | 304 | 2339 | 3355 | 2060 | CPS |
| LSW5 | 27 | 46 | 51 | 43 | CPS |
| LSW6 | 87 | 88 | 86 | 86 | CPS |
| LSW7 | 51 | 56 | 57 | 57 | CPS |
| LSW8 | 1 | 3 | 4 | 3 | CPS |
| QS | 0.261 | 0.222 | 0.203 | 0.205 | |
| PES | | | 2.778 | 5.967 | |
| SSDN | | 2.600 | 1.680 | | G/CC |

| Long Space | | | | | |
|------------|-------|-------|-------|-------|-------|
| | BKGD | Al | Mg | Al+Fe | Units |
| LLW1 | 96 | 1171 | 4837 | 704 | CPS |
| LLW2 | 106 | 2047 | 8062 | 1488 | CPS |
| LLW3 | 404 | 3698 | 14047 | 3196 | CPS |
| LLW4 | 517 | 1760 | 5509 | 1595 | CPS |
| LLW5 | 59 | 67 | 114 | 66 | CPS |
| LLW6 | 161 | 160 | 148 | 159 | CPS |
| LLW7 | 108 | 104 | 99 | 106 | CPS |
| LLW8 | 4 | 7 | 17 | 6 | CPS |
| QL | 0.195 | 0.215 | 0.198 | 0.198 | |
| PEL | | | 2.697 | 5.458 | |
| LSDN | | 2.600 | 1.680 | | G/CC |

**Shop Calibration
MST-DA**

Performed : 22-OCT-2014 Time : 09:27
 Sensor Suite : CALI-MSN ID : MST-DA-13

| CL # | Jig - Measured | | Jig - Calibrated | | Units |
|------|----------------|--------|------------------|--------|-------|
| | Ring#1 | Ring#2 | Ring#1 | Ring#2 | |
| 1 | 6.6 | 11.6 | 6.0 | 12.0 | IN. |

Performed : 22-OCT-2014 Time : 09:20
 Sensor Suite : MSTDA-NI ID : MST-DA-13

| | Internal | | | | | |
|-------|----------|-----------|-------|------------|-----------|-------|
| | Measured | | | Calibrated | | |
| | Zero | Reference | Units | Zero | Reference | Units |
| INV-V | 0.0 | 29663.4 | | 0.00 | 1846.00 | MV |
| NOR-V | 5.5 | 29968.6 | | 0.00 | 1346.00 | MV |
| IN-C | 0.0 | 60262.5 | | 0.00 | 15.46 | UA |
| INV-R | | | | | 32.34 | OHMM |
| NOR-R | | | | | 55.11 | OHMM |

**Shop Calibration
CST-AD**

Performed : 28-DEC-2018 Time : 10:32
 Sensor Suite : SON-ANA ID : CST-AD-043

Transit Time

| T/R Pair | Measured | Calibrated | Units |
|-----------|----------|------------|-------|
| T1R1 | 208.5 | 208.5 | uS |
| T2R2 | 208.5 | 208.5 | uS |
| T1R2 | 322.5 | 322.5 | uS |
| T2R1 | 322.5 | 322.5 | uS |
| Amplitude | | | |
| T/R Pair | Measured | Calibrated | Units |
| T1R1 | 90.00 | 90.00 | mV |
| T2R2 | 90.00 | 90.00 | mV |
| T1R2 | 78.00 | 78.00 | mV |
| T2R1 | 78.00 | 78.00 | mV |

**Shop Calibration
PIT-CA**

Performed : 10-MAY-2019 Time : 11:27
Sensor Suite : P-IND-T ID : PIT-AC-043

Medium

| | Measured | | Calibrated | | Units |
|-------------|----------|--------|------------|--------|-------|
| | R | X | R | X | |
| Air | 131492 | 129685 | 0.0 | 0.0 | MMHOS |
| Zero | 131066 | 131062 | -18.1 | 59.6 | MMHOS |
| Reference | 244915 | 244454 | 4981.9 | 5059.6 | MMHOS |
| Loop | 130404 | 210498 | 3515.7 | 3611.2 | MMHOS |
| Sonde Error | | | -0.5 | -1.7 | MMHOS |
| Cond | | | 4981.9 | 5059.6 | MMHOS |

Deep

| | Measured | | Calibrated | | Units |
|-------------|----------|--------|------------|--------|-------|
| | R | X | R | X | |
| Air | 131939 | 129230 | 0.0 | -0.0 | MMHOS |
| Zero | 131079 | 131067 | -15.6 | 35.3 | MMHOS |
| Reference | 220620 | 224092 | 1984.4 | 2035.3 | MMHOS |
| Loop | 129308 | 206166 | 1595.4 | 1712.8 | MMHOS |
| Sonde Error | | | -0.6 | -7.8 | MMHOS |
| Cond | | | 1984.4 | 2035.3 | MMHOS |

Temperature

| | Measured | | Calibrated | | Units |
|--|----------|---------|------------|-------|-------|
| | Low | High | Low | High | |
| | 16980.0 | 56920.0 | 70.0 | 350.0 | DEGF |

Performed : 10-May-2019 Time : 14:03
Sensor Suite : SFL ID : PIT-AC-043

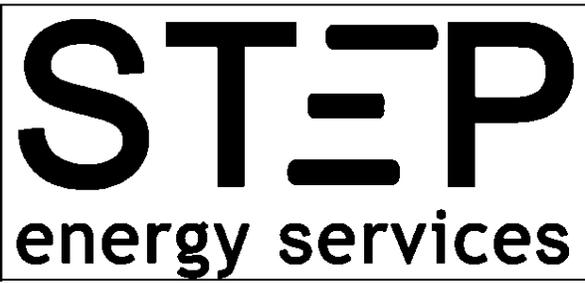
Internal

| | Measured | | Calibrated | | Units |
|----------------|----------|-----------|------------|-----------|-------|
| | Zero | Reference | Zero | Reference | |
| Im | 32732.6 | 48929.1 | 0.0 | 7028.0 | uA |
| Ib | 32768.6 | 49680.1 | 0.0 | 1750.0 | mA |
| MOM1 | 32722.0 | 56290.6 | 0.0 | 175.0 | mV |
| Equivalent SFL | | | | 43.97 | OHMM |

Performed : 10-MAY-2019 Time : 11:16
Sensor Suite : P-SP ID : PIT-AC-043

Internal

| | Measured | | Calibrated | | Units |
|--|----------|-----------|------------|-----------|-------|
| | Zero | Reference | Zero | Reference | |
| | 32774.5 | 58935.9 | 0.0 | 1000.0 | mV |



Company: BEREXCO, LLC
Well: HINES UNIT #26X
Location: 200' FNL & 440' FWL
Logged: 11-20-2019
K.B. Elev: 1942.0 Ft