217-22629

# Tucker WIRELINE SERVICES

## COMPENSATED NEUTRON PEL DENSITY LOG

RECEIVED OCT 03 2011 Oil & Gas Council 9/6/12

| | |
|---|---|
| File No | TUL-56781 |
| Company | RUNNING FOXES PETREOLEUM, INC |
| Well | STONER 13-6C-3A |
| Field | BUCHANAN |
| County | VERNON |
| State | MISSOURI |
| Country | USA |
| API No | |

Location: PERMIT # 22629, 550' FSL & 540' FWL, SW SW SW

LSD : Sect : 6 Twp : 36N Rge : 33W

Company RUNNING FOXES PETREOLEUM
Well STONER 13-6A-3A
Field BUCHANAN
County VERNON
State MISSOURI
Country USA
API No.

| | | | |
|---|---|---|---|
| Permanent Datum: | GL | Elevations: | Services: |
| Drilling Measured From: | GL | KB 0.00 Ft | CNT |
| Log Measured From: | GL | DF 0.00 Ft | LDT |
| Above Permanent Datum: | 0.00 Ft | GL 910.00 Ft | PIT |

| | |
|---|---|
| Date | 2011-07-25 |
| Run Number | 1 |
| Depth--Driller | 473.0 Ft |
| Depth--Logger | 472.0 Ft |
| First Reading | 448.0 Ft |
| Last Reading | 20.0 Ft |
| Casing--Driller | 20.0 Ft |
| Casing--Logger | 20.0 Ft |
| Bit Size | 5.625 In |
| Casing Size | 8.625 In |
| Hole Fluid Type | NATIVE |
| Density | 0.0 LBS/GAL |
| Fluid Loss | 0.0 CC |
| PH/Viscosity | 0.0 / 0.0 SEC |
| Sample Source | MEASURED |
| RM@Measured Temp. | 3.000 @ 80 F |
| RMF@Measured Temp | 2.400 @ 80 F |
| RMC@Measured Temp. | 3.600 @ 80 F |
| Source RMF/RMC | CALCULATED / CALCULATED |
| RM@BHT | 3.000 @ 80 F |
| Time Circulation Stopped | 2011-07-25 08:00 |
| Max Recorded Temp. | 90 F |
| Equipment Base | TRK 127 / TULSA |
| Recorded By | B. BAILEY R. AUSTIN |
| Witnessed By | C. COUNTS |

The customer is hereby warned that by providing the log data herein, T. W. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. W. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. W. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. W. S. for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

| Bitsize Intervals | | Casing Strings | | |
|---|---|---|---|---|
| Size (In) | Bottom (Ft) | Size (In) | Weight (Lbs) | Bottom (Ft) |
| 5.625 | 473.00 | 8.625 | 30.00 | 20.00 |

| | |
|---|---|
| Run Number | 1 |
| Date | 2011-07-25 |
| Date/Time On Bottom | 2011-07-25 10:45 |
| Depth to Fluid | 0.0 Ft |
| Salinity | 0.000 PPM |
| RMF@BHT | 2.400 @ 80 F |
| RMC@BHT | 3.600 @ 80 F |

Run Number 1

**Comments**

ALL PRESENTATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON X-Y AXIS.
2.71 G/CC USED TO CALCULATED POROSITY.
ANNULAR HOLE VOLUME CALCULATED UISING 2.825" PRODUCTION CASING.
PHIN, SP, AND SFL CUT OFF AT 90' DUE TO FLUID LEVEL

GRT: GRP.
CNT: PHIN, CLCNIN
LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
PIT: ILD, ILM, SPU, SFLAEC

OPERATORS:

J.TORBERT
J.THOMAS

## Tool String Schematic

Total Tool Length - 43.49 ft.
Maximum Outside diameter - 4.80 in.
Net Weight in Air - 743.00 lbs.

Tool Zero; 3.40 ft.; 12.70 ft.; 22.00 ft.; LWT 43.49 ft.

Tool: GRT-B Length: 3.40 ft. O.D. 3.60 in.
Gamma Ray Controller
Sonde ID :GRT-BA-14

| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---|---|---|---|
| GRP | 2.00 | 2.00 | 41.49 |

Tool: CNT-AA Length: 9.30 ft. O.D. 4.30 in.
Compensated Neutron A Pad on NDT-A
Sonde ID :NDT-CB-152
Source ID :N-1044
Pad ID :CNP-AA-111

| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---|---|---|---|
| CLCN | 6.00 | 9.40 | 34.09 |
| PHIN | 6.80 | 10.20 | 33.29 |

Tool: LDT-DA Length: 9.30 ft. O.D. 4.80 in.
Litho Density D Pad on NDT-A
Sonde ID :PDT-GA-466
Source ID :CSV-587
Pad ID :LDP-DA-02

| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---|---|---|---|
| CLLD | 6.00 | 18.70 | 24.79 |
| PEL | 7.00 | 19.70 | 23.79 |
| PES | 7.40 | 20.10 | 23.39 |
| LDEN | 7.20 | 19.90 | 23.59 |
| LCOR | 7.20 | 19.90 | 23.59 |

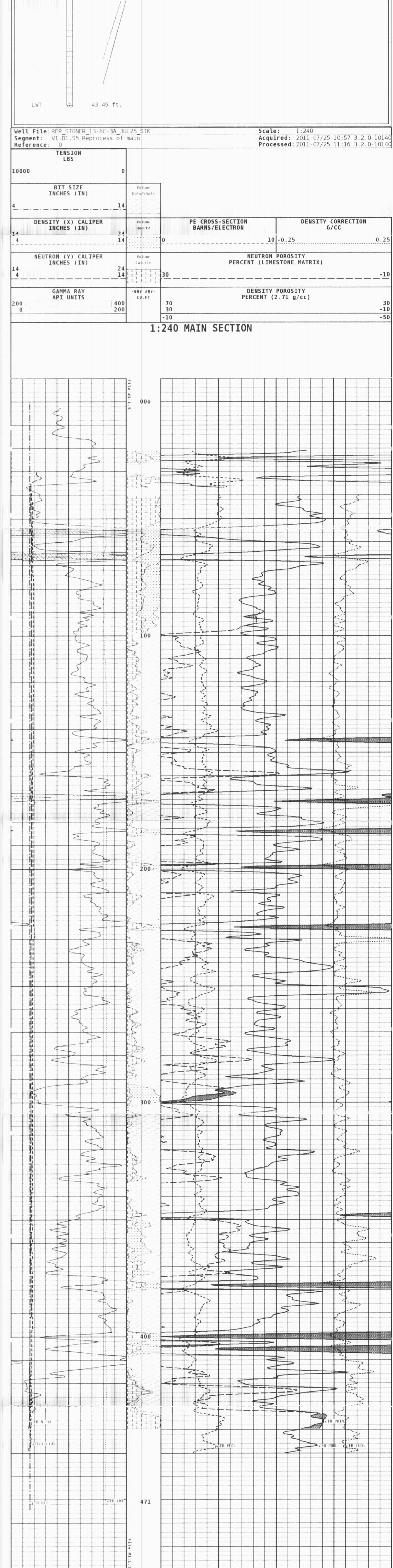
Tool: PIT-CA Length: 21.49 ft. O.D. 3.62 in.
Phased Dual Induction w/ RM & D
Sonde ID :PIT-AC-13

| Measure Point | Tool Offset | Stack Offset | Bottom Offset |
|---|---|---|---|
| ILD | 8.92 | 30.92 | 12.56 |
| ILM | 10.10 | 32.10 | 11.39 |
| SFLU | 17.49 | 39.49 | 4.00 |
| SP | 20.60 | 42.60 | 0.88 |

Well File: RFP_STONER_13-6C-3A_JUL25_STK
Segment: V1.D1.S5 Reprocess of main
Reference: 0
Scale: 1:240
Acquired: 2011-07/25 10:57 3.2.0-10140
Processed: 2011-07/25 11:16 3.2.0-10140

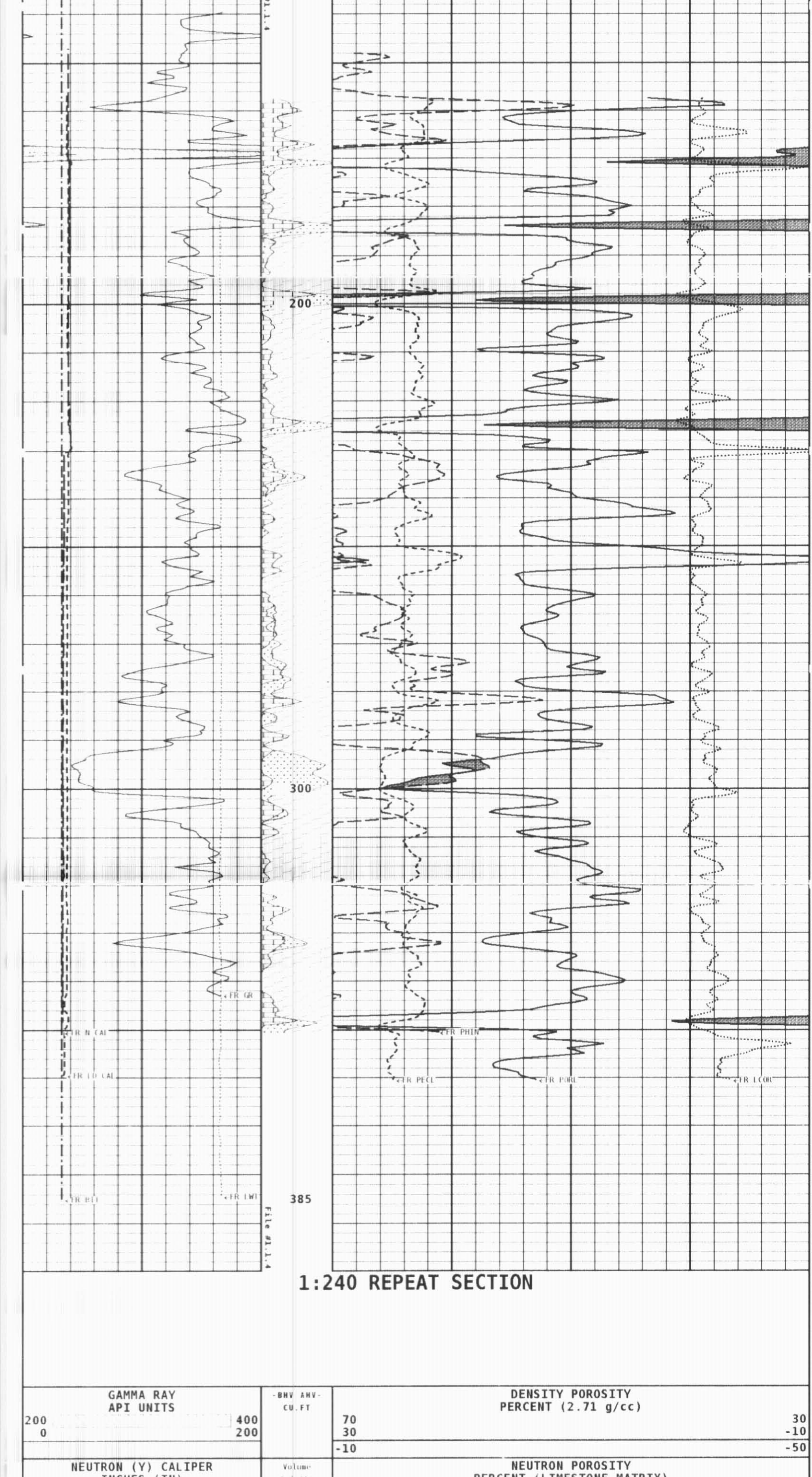
TENSION LBS 10000 0
BIT SIZE INCHES (IN) 4 14
DENSITY (X) CALIPER INCHES (IN) 14 24
PE CROSS-SECTION BARNS/ELECTRON 0 10
DENSITY CORRECTION G/CC -0.25 0.25

### 1:240 MAIN SECTION



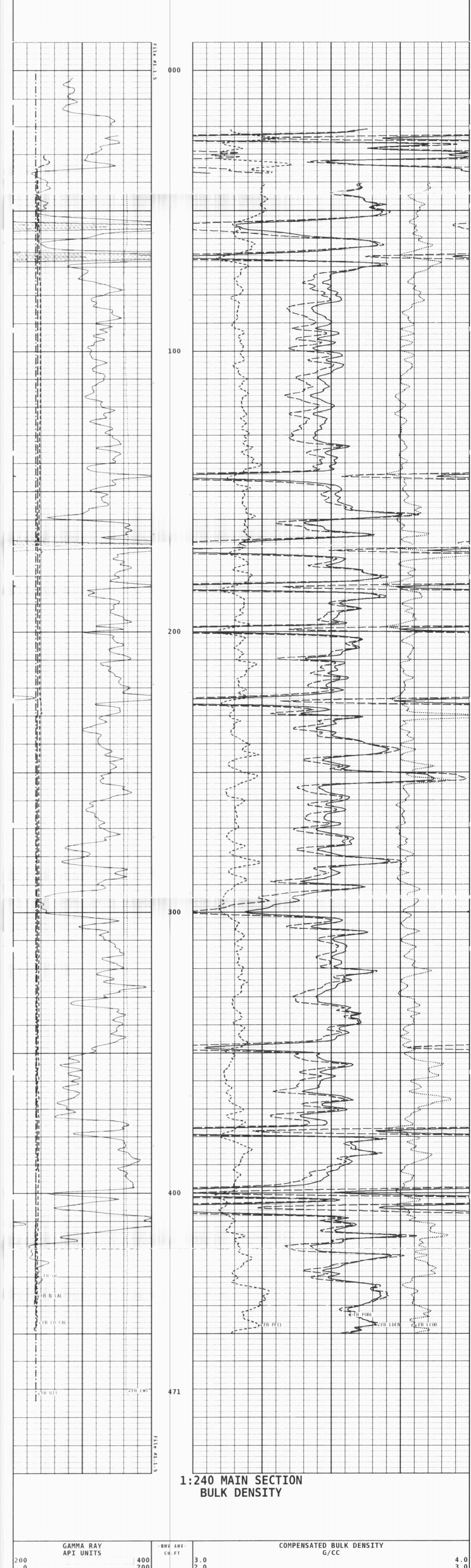
### 1:240 MAIN SECTION

### 1:240 REPEAT SECTION



### 1:240 REPEAT SECTION

### 1:240 MAIN SECTION BULK DENSITY



### 1:240 MAIN SECTION BULK DENSITY

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet

| | |
|---|---|
| Matrix Density | 2.71 g/cc |
| Fluid Density | 1.00 g/cc |
| Formation Matrix | Limestone |
| Drill Bit Size | 5.625 in |
| Casing Diameter | 2.825 in |
| Casing Correction (PHI N) | Disable |

* Calibration Summary *

**Shop Calibration GRT-B**

Performed : 16-MAY-2011 Time : 09:49
Sensor Suite : GR-GR5 ID : GRT-BA-14

| | Background | Measured Jig | Units | Calibrated Jig | Units |
|---|---|---|---|---|---|
| GR | 50 | 361 | CPS | 175 | GRAPI |

**Shop Calibration CNT-AA**

Performed : 00-XXX-0000 Time : 00:00
Sensor Suite : CALI-BCN ID : NDT-CB-152

| | Jig - Measured Ring#1 | Ring#2 | Jig - Calibrated Ring#1 | Ring#2 | Units |
|---|---|---|---|---|---|
| CL # 1 | 8.3 | 14.4 | 6.0 | 12.0 | IN. |

Performed : 13-Jul-2011 Time : 11:43
Sensor Suite : BHC NEUT ID : CNP-AA-111
Source ID : N-1044

| | Tank Measured | Calibrated | Verification Jig | Units |
|---|---|---|---|---|
| N/F | 3.6541 | 3.6893 | 3.7147 | |
| Porosity | 20.0 | 20.5 | 20.9 | % |

**Shop Calibration LDT-DA**

Performed : 10-APR-2011 Time : 19:51
Sensor Suite : CALI-LTH ID : PDT-GA-466

| | Jig - Measured Ring#1 | Ring#2 | Jig - Calibrated Ring#1 | Ring#2 | Units |
|---|---|---|---|---|---|
| CL # 1 | 8.5 | 14.5 | 6.0 | 12.0 | IN. |

Performed : 13-Jul-2011 Time : 12:33
Sensor Suite : BHCPELNG ID : LDP-DA-02
Source ID : CSV-587

Short Space

| | BKGD | Al | Mg | Al+Fe | Units |
|---|---|---|---|---|---|
| LSW1 | 69 | 457 | 734 | 309 | CPS |
| LSW2 | 72 | 554 | 890 | 399 | CPS |
| LSW3 | 283 | 1387 | 2187 | 1182 | CPS |
| LSW4 | 360 | 1337 | 1866 | 1190 | CPS |
| LSW5 | 34 | 44 | 45 | 42 | CPS |
| LSW6 | 94 | 93 | 94 | 94 | CPS |
| LSW7 | 58 | 59 | 58 | 61 | CPS |
| LSW8 | 2 | 3 | 3 | 2 | CPS |
| QS | 0.231 | 0.221 | 0.235 | 0.217 | |
| PES | | | 2.778 | 5.967 | |
| SSDN | | 2.600 | 1.680 | | G/CC |

Long Space

| | BKGD | Al | Mg | Al+Fe | Units |
|---|---|---|---|---|---|
| LLW1 | 105 | 616 | 2516 | 392 | CPS |
| LLW2 | 118 | 1060 | 4343 | 765 | CPS |
| LLW3 | 445 | 2044 | 7510 | 1771 | CPS |
| LLW4 | [illegible] | 1198 | [illegible] | 1104 | CPS |
| LLW5 | 64 | 69 | 83 | 69 | CPS |
| LLW6 | 190 | 185 | 180 | 183 | CPS |
| LLW7 | 119 | 118 | 111 | 117 | CPS |
| LLW8 | 4 | 5 | 10 | 5 | CPS |
| QL | 0.228 | 0.220 | 0.237 | 0.218 | |
| PEL | | | 2.697 | 5.458 | |
| LSDN | | 2.600 | 1.680 | | G/CC |