



MIDWEST WIRELINE

GAMMA RAY / CALIPER LOG

Company Carmen Schmitt, Inc.
Well Four Boys #2-28
Field PIANALTO
County Cheyenne **State** Kansas

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Location: API #: 15-023-21569-00-00
 1005 FSL & 2047 FWL
 SEC 28 TWP 4S RGE 37W
Permanent Datum Ground Level Elevation 3407
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services CNL/CDL DIL/MEL
Elevation 3412
K.B. D.F. G.L. 3407

| | | | | | | | |
|------------------------|-----------|---------------|-----|-------|------|------|-----|
| Date | 4/28/2022 | | | | | | |
| Run Number | One | | | | | | |
| Type Log | BHV | | | | | | |
| Depth Driller | 5040 | | | | | | |
| Depth Logger | 5038 | | | | | | |
| Bottom Logged Interval | 5009 | | | | | | |
| Top Logged Interval | 3900 | | | | | | |
| Type Fluid In Hole | Chemical | | | | | | |
| Salinity, PPM CL | 2,000 | | | | | | |
| Density | 9.4 | | | | | | |
| Level | Full | | | | | | |
| Max. Rec. Temp. F | 126 | | | | | | |
| Operating Rig Time | 3 Hours | | | | | | |
| Equipment -- Location | P-24 Hays | | | | | | |
| Recorded By | D Schmidt | | | | | | |
| Witnessed By | Brad Rine | | | | | | |
| Borehole Record | | Casing Record | | | | | |
| Run No. | Bit | From | To | Size | Wgt. | From | To |
| One | 12.25 | 0 | 390 | 8.625 | 23 | 0 | 390 |
| Two | 7.875 | 390 | TD | | | | |

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Bird City,
 East to 31 Rd, South to H Rd, 1/2 East,
 North into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
 785-625-3858

| | |
|--|--|
| Your Midwest Wireline Crew | This Log Record Was Witnessed By |
| Engineer: D Schmidt Operator: Operator: Operator: | Primary Witness: Brad Rine Secondary Witness: Secondary Witness: Secondary Witness: |

| | | | | | | |
|----------|-------------|-----------|-------------|-------------|-----------|-------------|
| Case No. | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|----------|-------------|-----------|-------------|-------------|-----------|-------------|

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|--------------------|-------------------------|---|------------------|-------------|-----------|-------------|
| GR | 40.33 |  | GR-M&W (101) | 3.00 | 3.50 | 50.00 |
| CNLSC CNSSC | 37.23 36.48 | | CNT-M&W (207-MW) | 5.00 | 3.50 | 100.00 |
| LSD DCAL SSD | 28.18 28.17 27.68 | | CDL-M&W (305-05) | 8.50 | 4.00 | 250.00 |
| MCAL MI MN | 19.58 19.58 19.58 | | ML-PSIML (402) | 7.58 | 4.00 | 65.00 |
| RLL3F RLL3 | 15.50 15.50 | | | | | |
| CILD | 8.33 | | DIL-M&W (501 HT) | 18.25 | 3.50 | 220.00 |
| CILM | 4.50 | | | | | |
| SP | 0.20 | | | | | |

Dataset: carmen schmitt_four boys 2028.db: field/well/stkml/pass3.14
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



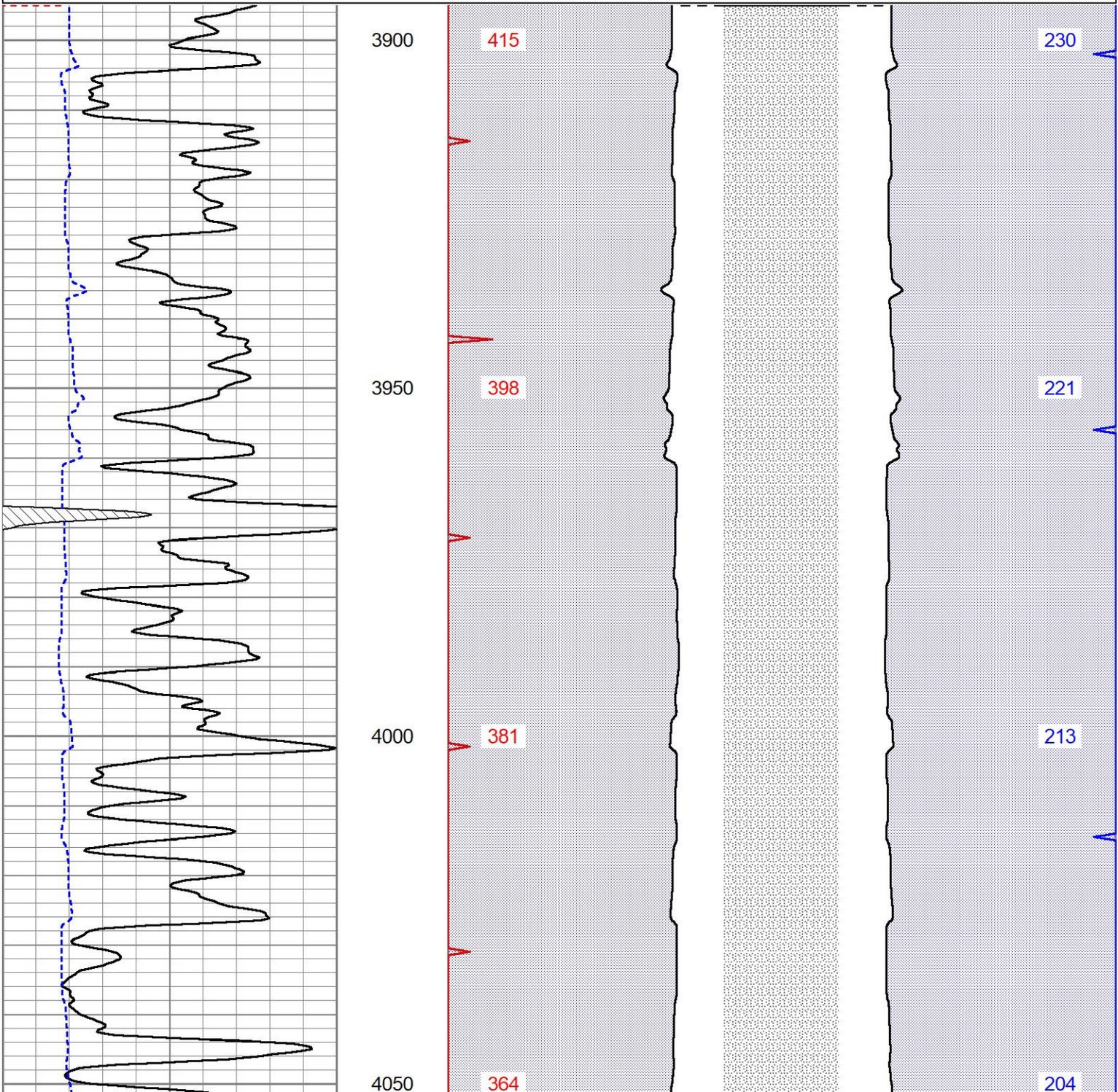
DETAIL SECTION

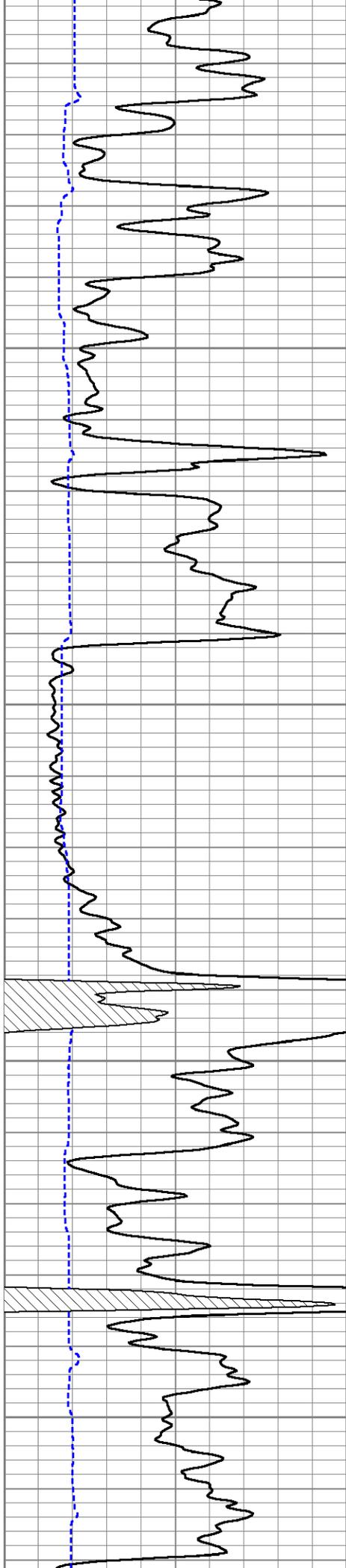
MAIN PASS

Database File carmen schmitt_four boys 2028.db
 Dataset Pathname stkml/pass3.1
 Presentation Format bhv5half
 Dataset Creation Thu Apr 28 11:46:47 2022
 Charted by Depth in Feet scaled 1:240

| | | |
|-----|------------------|-----|
| 0 | Gamma Ray (GAPI) | 150 |
| 150 | GR (GAPI) | 300 |
| 6 | DCAL (in) | 16 |
| 6 | BOREID (in) | 16 |

| DCAL | DCAL |
|-----------------------|----------------------|
| BOREID | BOREID |
| Borehole Volume (ft3) | Annular Volume (ft3) |





4100

347

4150

330

4200

314

4250

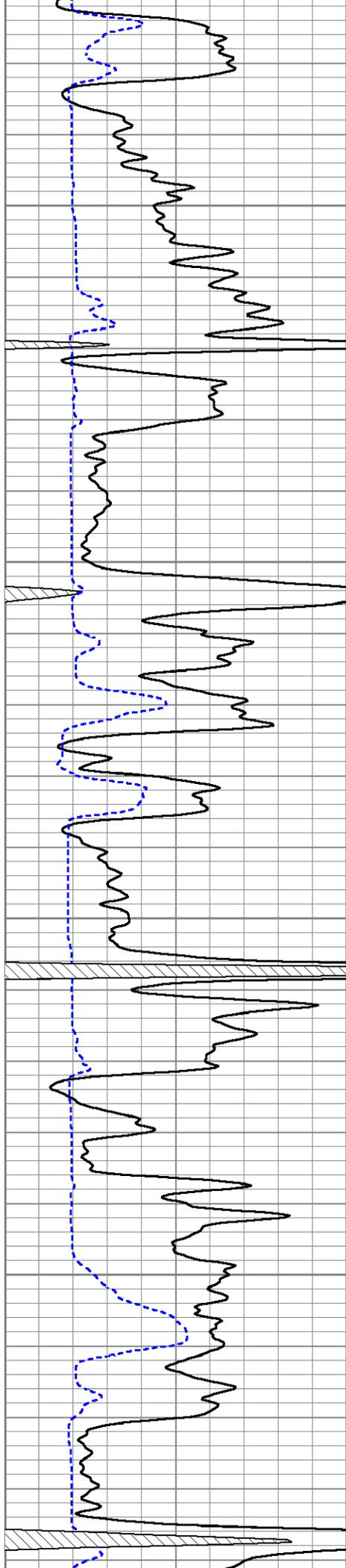
297

195

187

179

170



4300

278

160

4350

261

150

4400

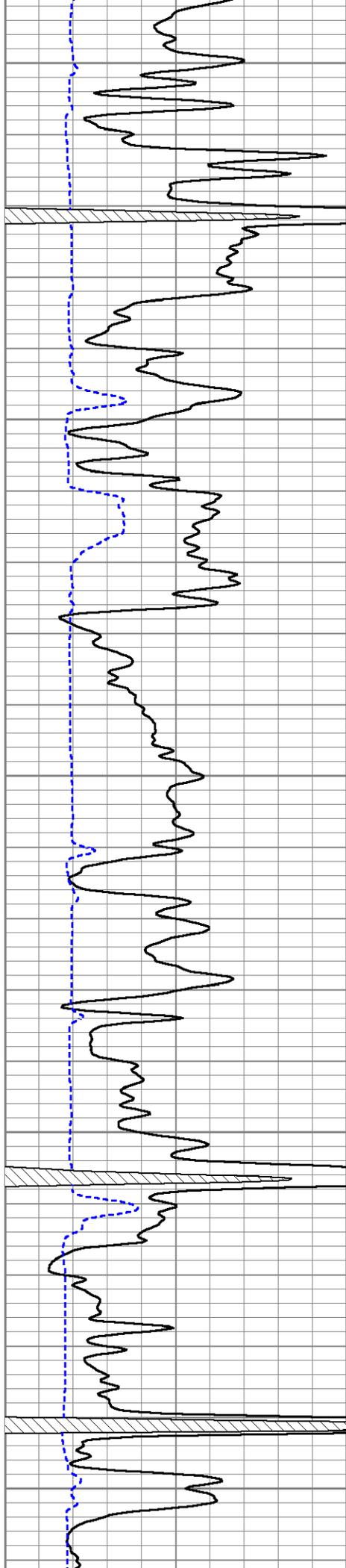
241

139

4450

224

130



4500

204

118

4550

186

109

4600

168

99

4650

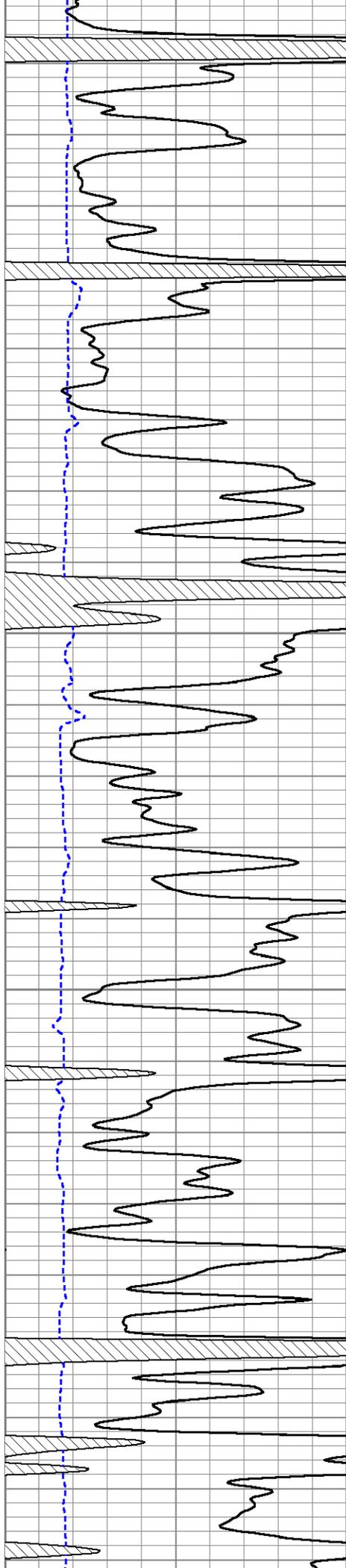
151

90

4700

134

81



4750

117

73

4800

100

64

4850

84

56

4900

68

48

| | Readings | | References | | Results | | |
|---------|----------|--------|------------|---------|---------|------------|-----------|
| | Zero | Cal | Zero | Cal | | m | b |
| Normal | 0.0000 | 1.0000 | 0.0000 | 1.0000 | Ohm-m | 28000.0000 | -0.8000 |
| Inverse | 0.0000 | 1.0000 | 0.0000 | 1.0000 | Ohm-m | 25000.0000 | 0.0000 |
| Caliper | 1.0052 | 1.0858 | 5.0000 | 16.5000 | in | 125.0000 | -122.2000 |

Compensated Density Calibration Report

Serial-Model: 305-05-M&W
Source #: 20762B
Master Calibration Performed: Fri Apr 22 07:18:08 2022

Master Calibration

| | Density | | Far Detector | Near Detector | |
|---------------------|---------|------|-----------------------------|---------------|-----|
| Magnesium | 1.755 | g/cc | 8862.47 | 9339.96 | cps |
| Aluminum | 2.600 | g/cc | 1556.73 | 5707.29 | cps |
| Spine Angle = 74.19 | | | Density/Spine Ratio = 0.467 | | |
| | Size | | Reading | | |
| Small Ring | 4.00 | in | 1.74 | | |
| Large Ring | 14.00 | in | 1.38 | | |

Compensated Neutron Calibration Report

Serial-Model: 207-MW-M&W
Source #: 100046B
Master Calibration Performed: Mon Nov 29 15:06:24 2021

Master Calibration

| Detector | Readings | Target | Normalization |
|-------------|-------------|-------------|---------------|
| Short Space | 6240.00 cps | 1000.00 cps | 1.6025 |
| Long Space | 460.00 cps | 1000.00 cps | 1.9500 |

Gamma Ray Calibration Report

Serial Number: 101
Tool Model: M&W
Performed: Mon Jan 24 19:14:46 2022

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
Calibrator Reading: 637.0 cps

Sensitivity: 0.5500 GAPI/cps



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