**J-W WIRELINE COMPANY**

# CEMENT BOND
# GAMMA RAY VDL
# COLLAR CORRELATION LOG

Company BLACK RAVEN ENERGY INC.
Well GLENN B I-1
Field ADENA
County MORGAN
State COLORADO

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Location: API # : 05-087-05584-0000

SE SE SE

SEC 30 TWP 2N RGE 57W

Other Services
NONE

Permanent Datum GL Elevation 3322
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4431
D.F. 4430
G.L. 4422

| | | | |
|---|---|---|---|
| Date | AUGUST 12, 2014 | | |
| Run Number | ONE | | |
| Depth Driller | 5640 | | |
| Depth Logger | 5544 | | |
| Bottom Logged Interval | 5543 | | |
| Top Log Interval | 3050 | | |
| Open Hole Size | 7 7/8" | | |
| Type Fluid | WATER | | |
| Density / Viscosity | --- | | |
| Max. Recorded Temp. | 150 F | | |
| Estimated Cement Top | | | |
| Time Well Ready | --- | | |
| Time Logger on Bottom | --- | | |
| Equipment Number | 2400 | | |
| Location | STERLING CO. | | |
| Recorded By | PHIL LOPEZ | | |
| Witnessed By | BILLY HATAWAY | | |

| Borehole Record | | | | Tubing Record | | | |
|---|---|---|---|---|---|---|---|
| Run Number | Bit | From | To | Size | Weight | From | To |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

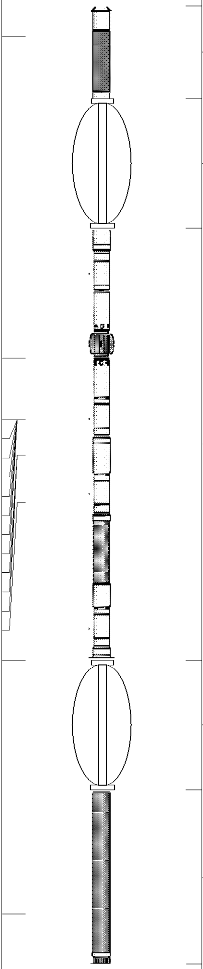
| Casing Record | Size | Wgt/Ft | Top | Bottom |
|---|---|---|---|---|
| Surface String | | | | |
| Prot. String | | | | |
| Production String | | | | |
| Liner | 4.50 | 11.6 | SURFACE | 5427 |
| | | | | |

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

## Comments

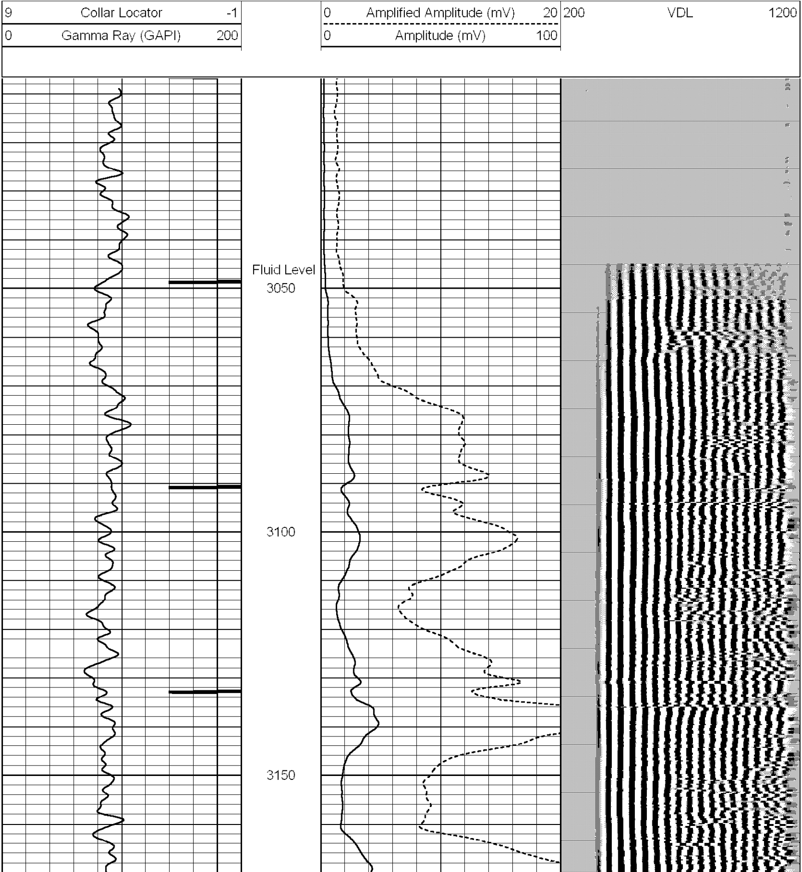
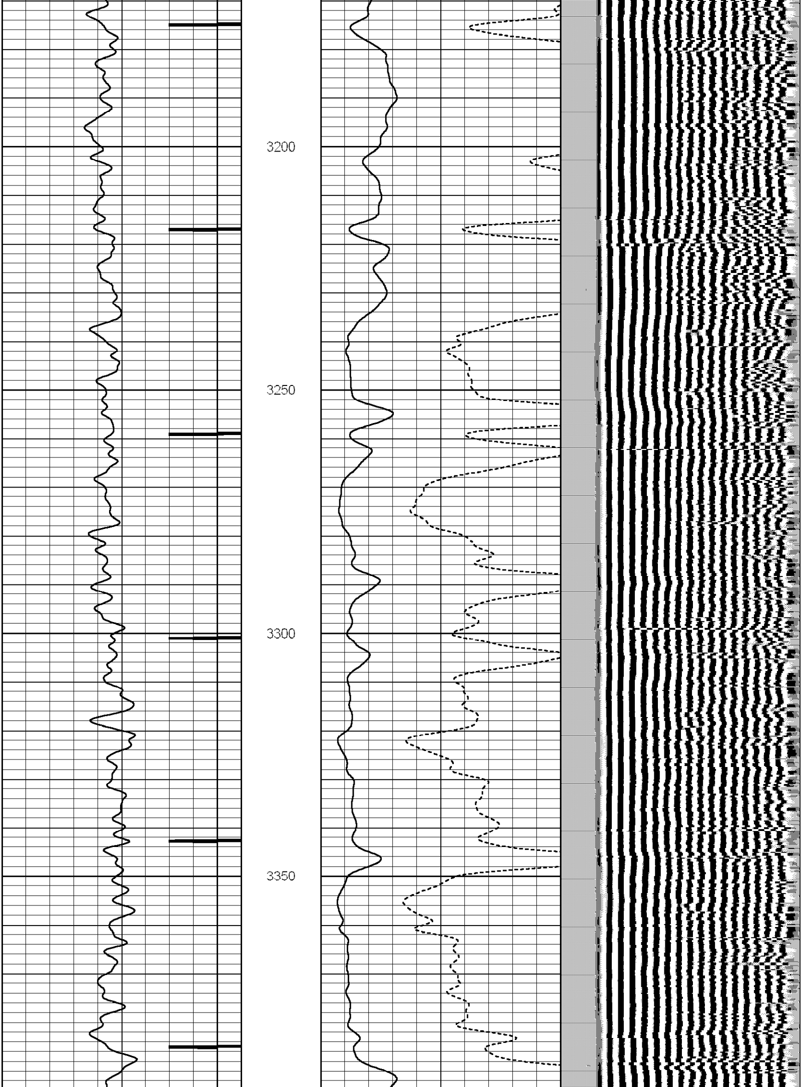
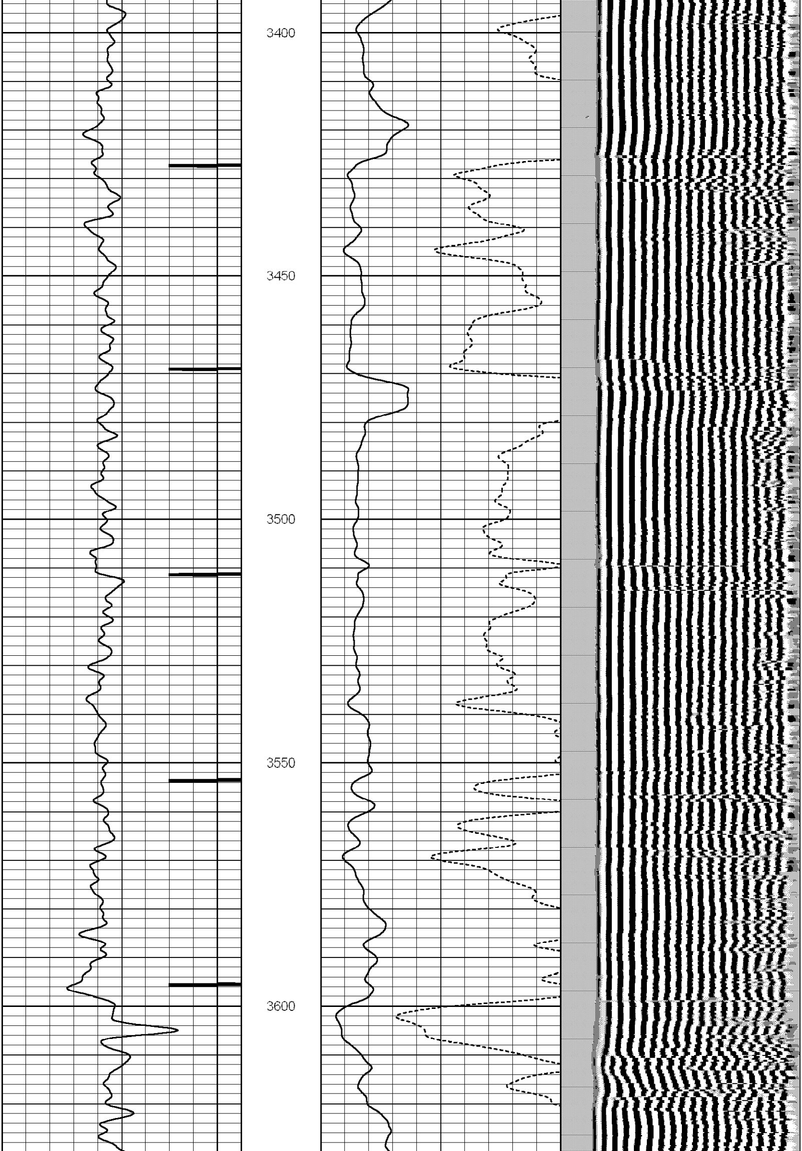
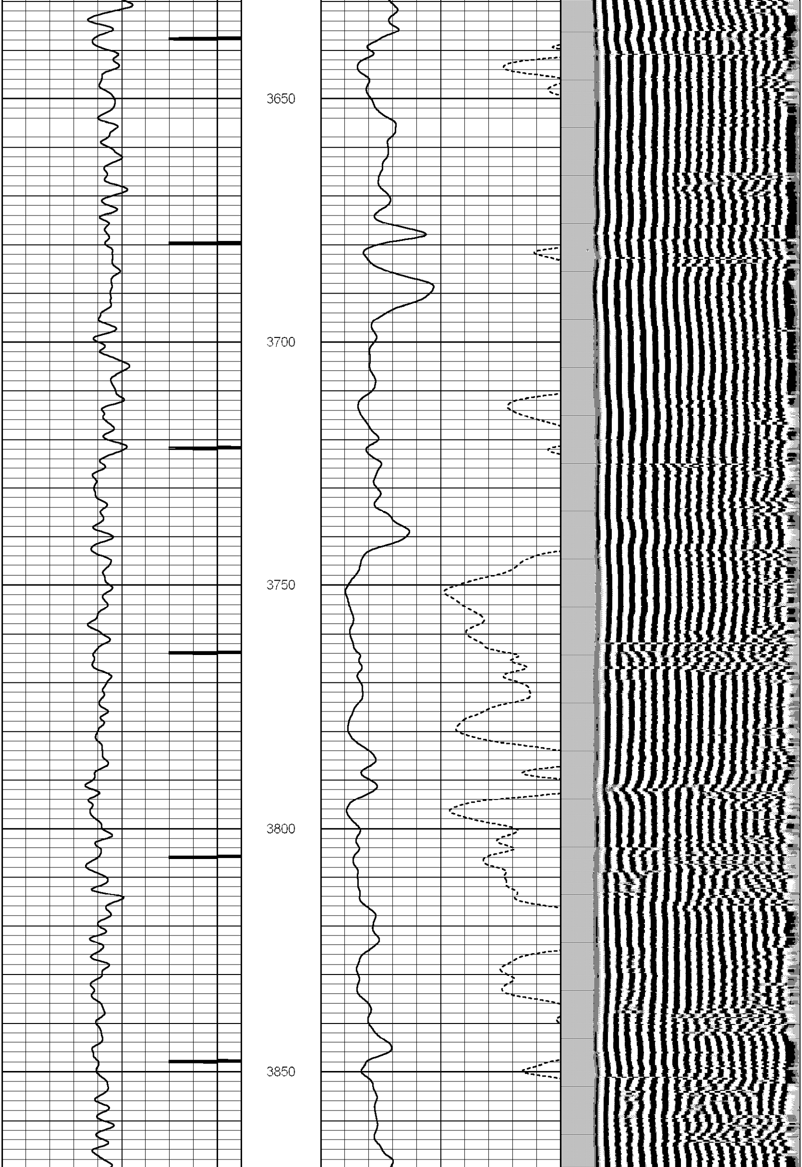
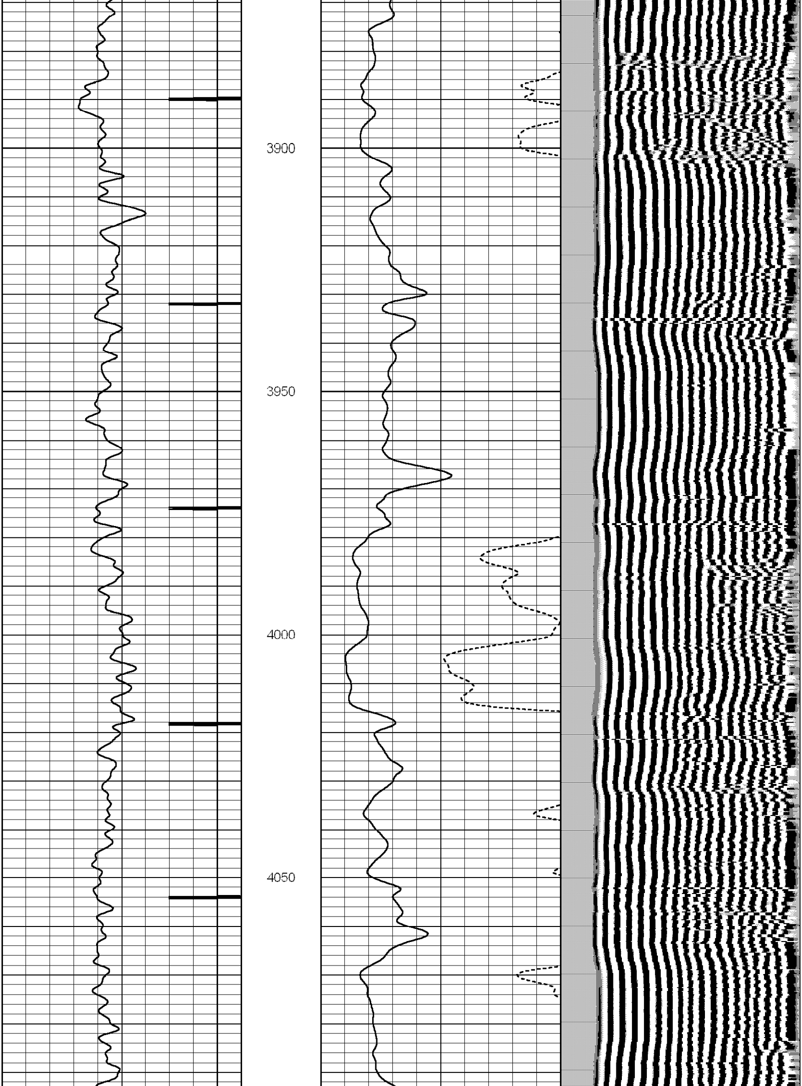
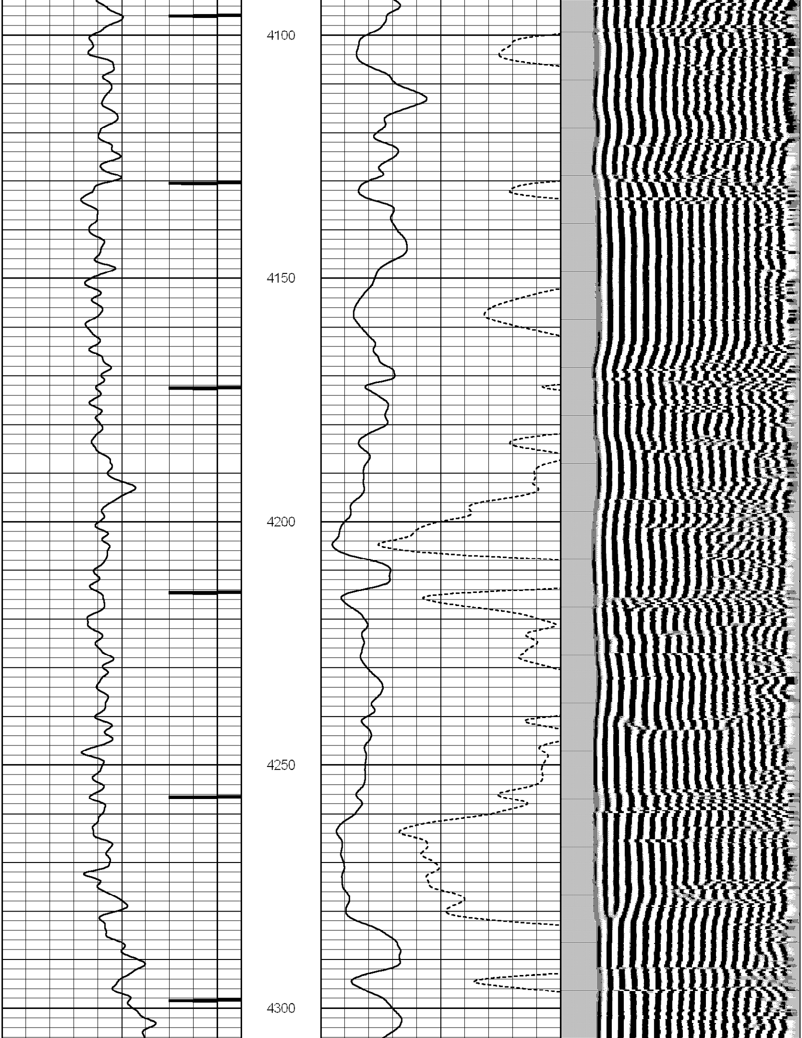
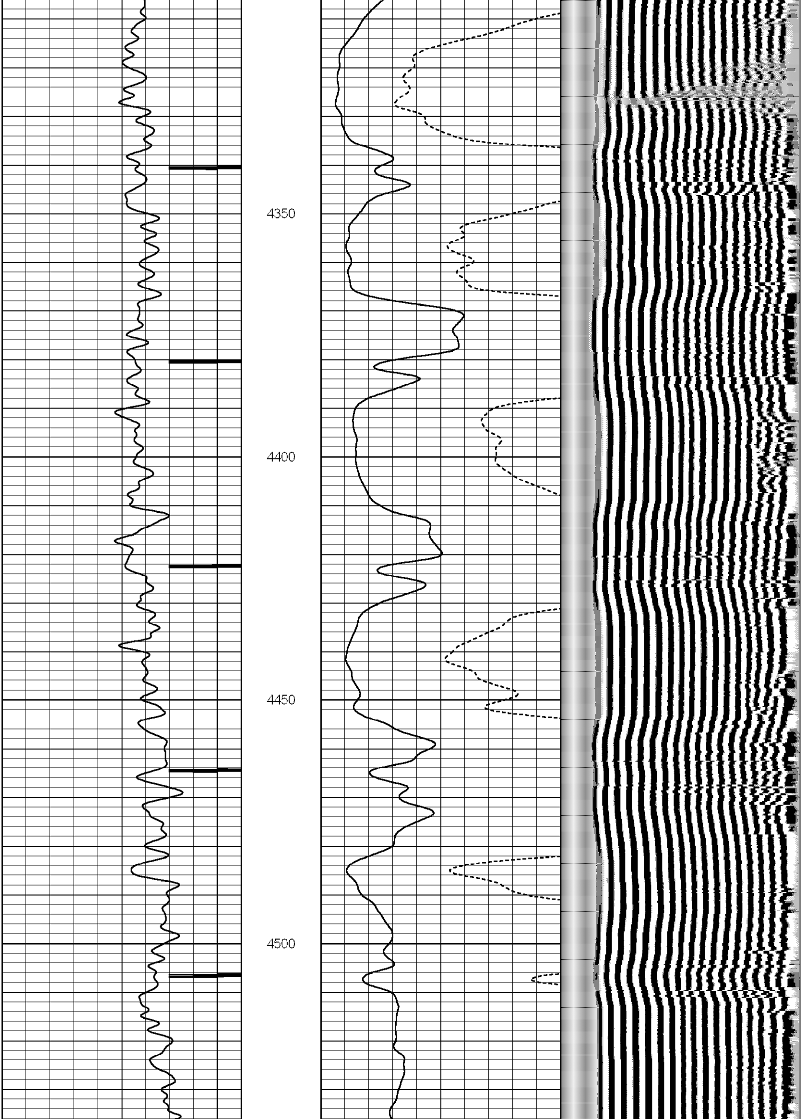
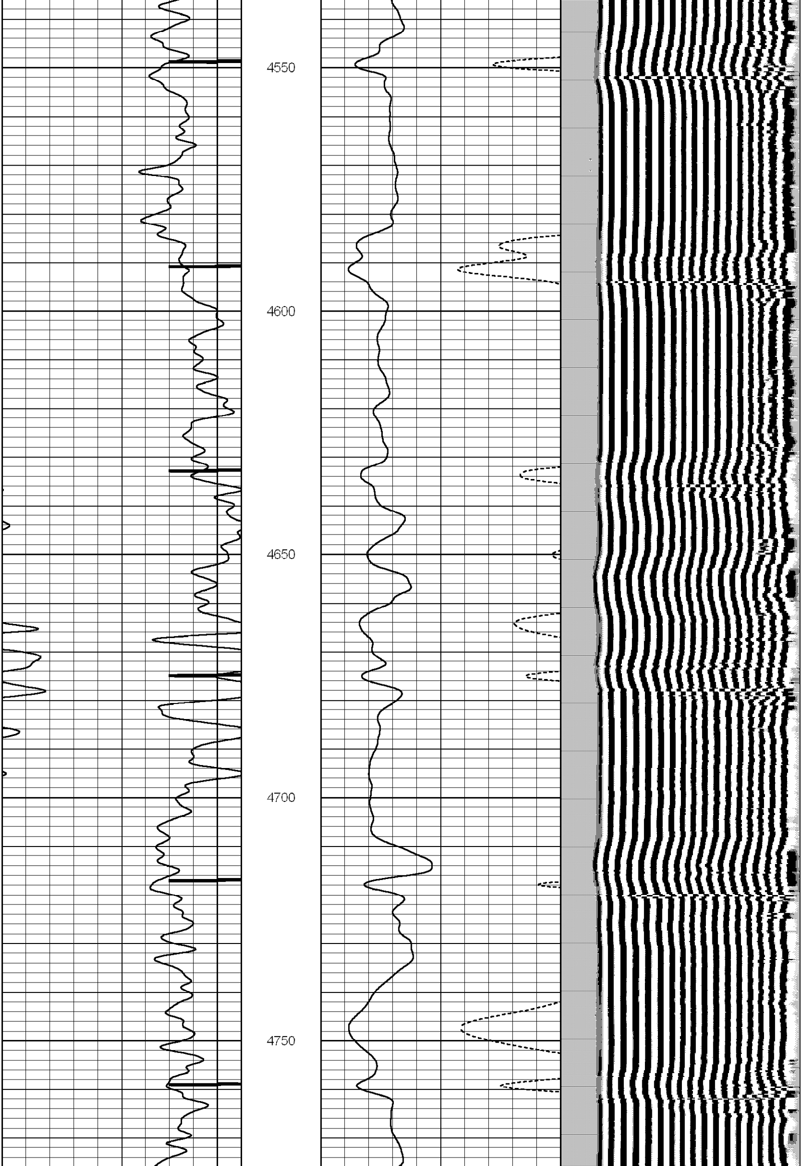
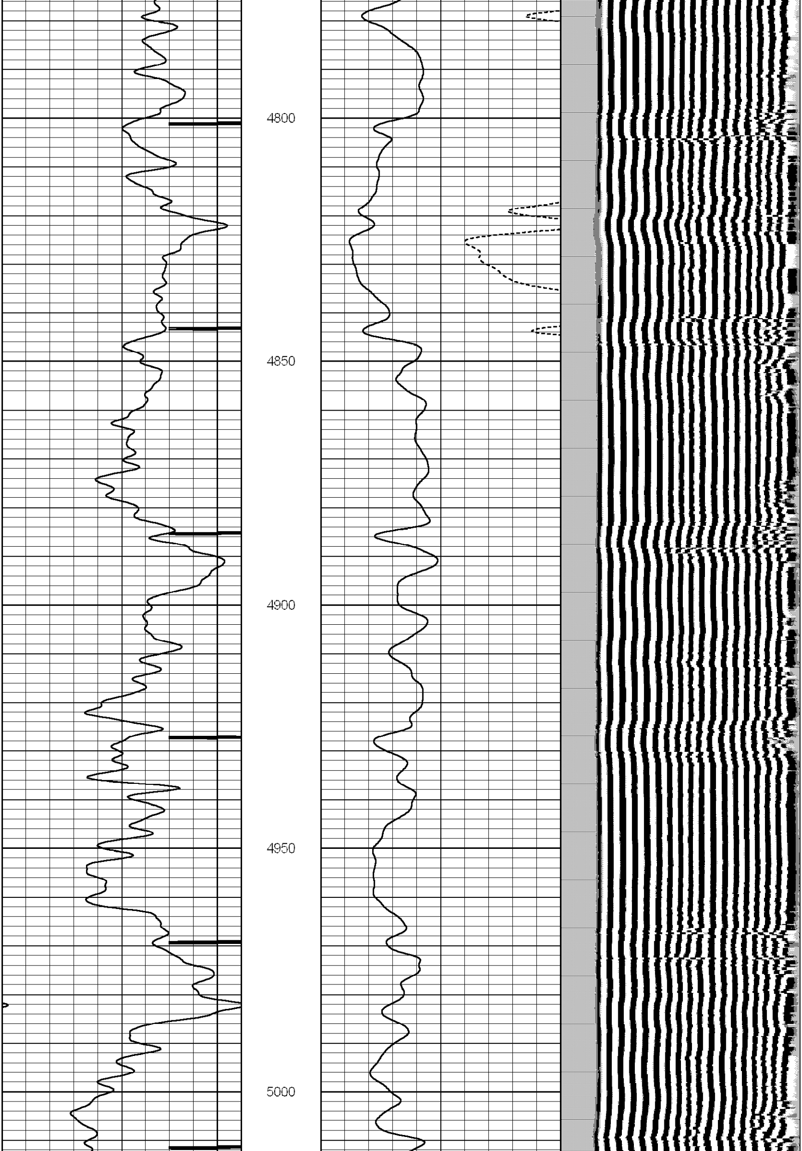
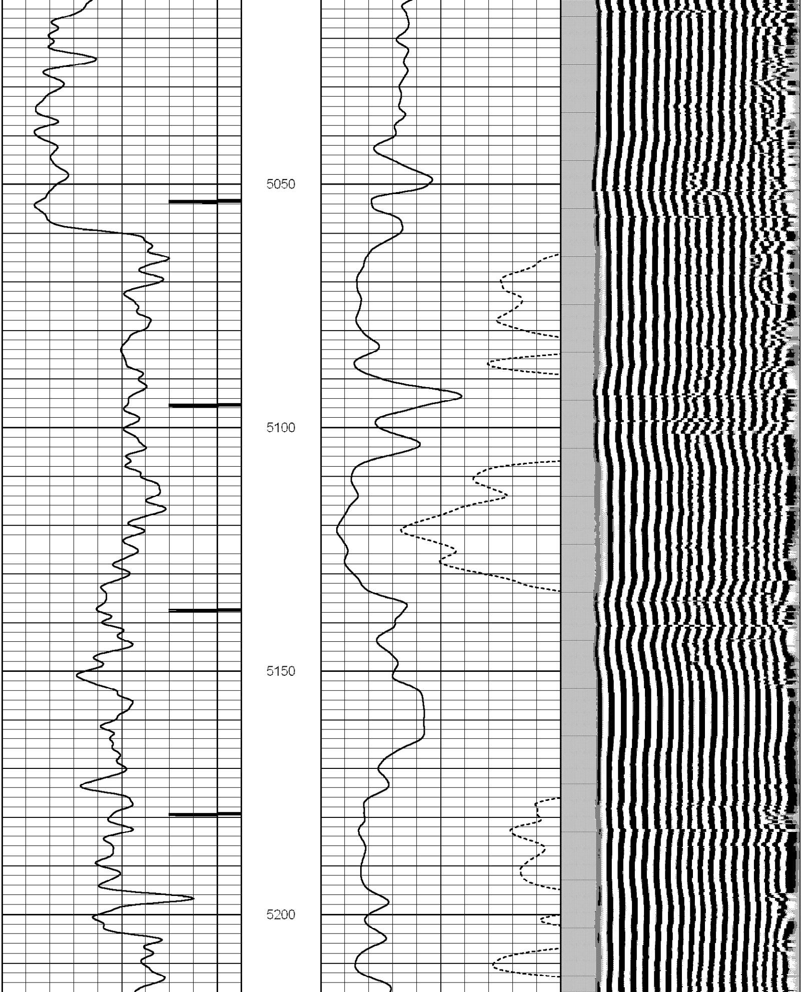
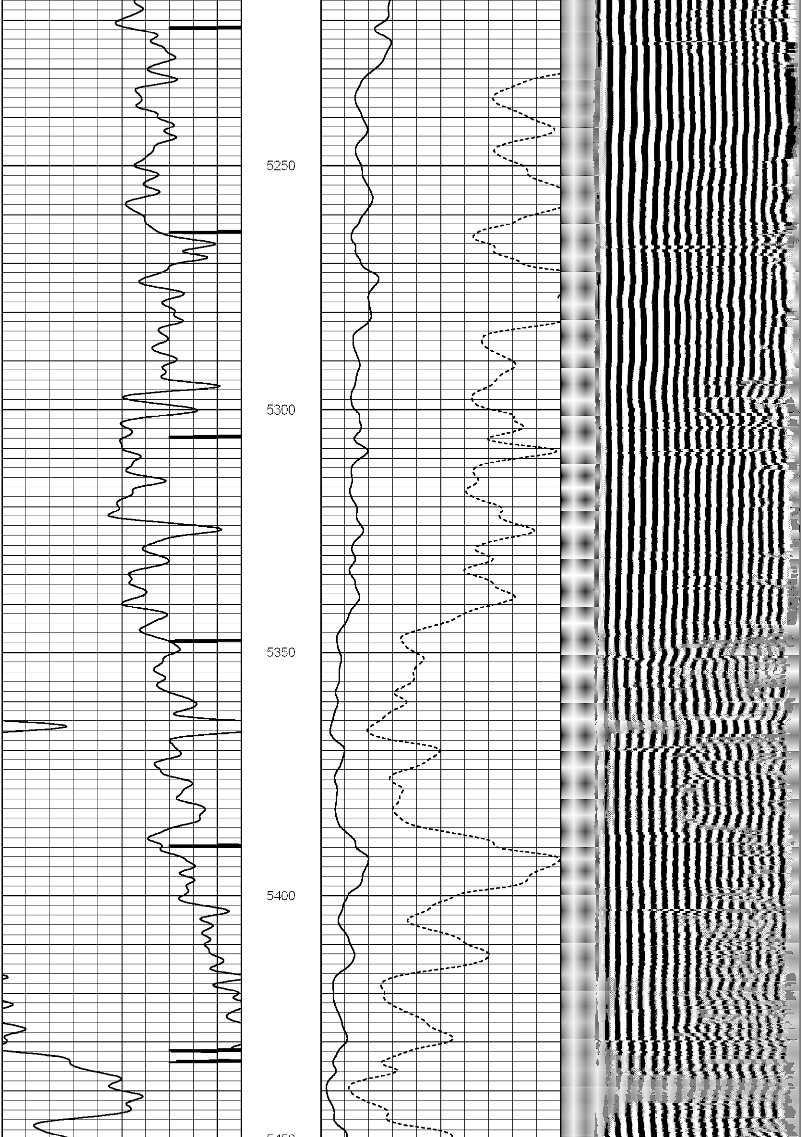
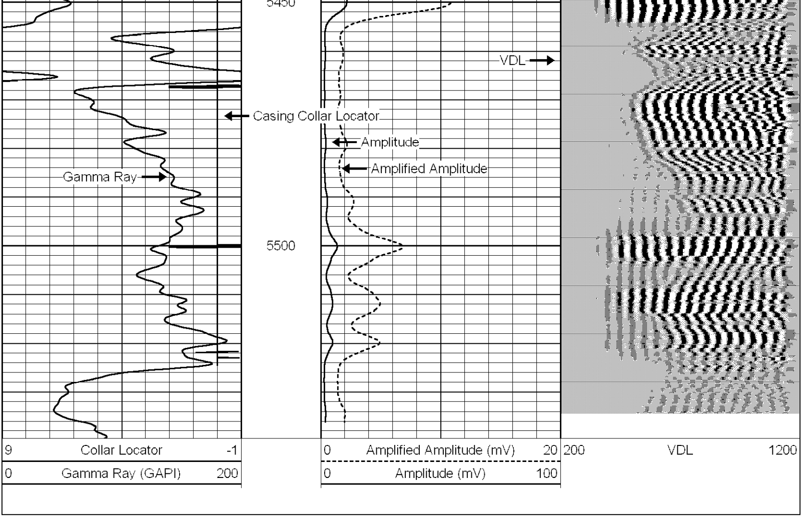
THANK YOU FOR CHOOSING J-W WIRELINE
DEPTH REFERENCE TO E-LOG DATED 3-7-1954



| Sensor | Offset (ft) |
|---|---|
| CCL | 19.57 |
| TEMP | 12.78 |
| WVFS1 | 11.49 |
| WVFS2 | 11.49 |
| WVFS3 | 11.49 |
| WVFS4 | 11.49 |
| WVFS5 | 11.49 |
| WVFS6 | 11.49 |
| WVFS7 | 11.49 |
| WVFS8 | 11.49 |
| WVF3FT | 10.74 |
| WVFCAL | 10.74 |
| WVFSYNC | 10.74 |
| WVF5FT | 9.74 |
| WVFTEMP | 6.41 |
| GR | 1.06 |

| Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|
| CCL-275tekco (2.75TEKCO)<br>2 3/4 TEK CCL Earth Mag | 1.96 | 2.75 | 20.00 |
| CENT-TEKCO (101) | 2.73 | 2.75 | 10.00 |
| 275CTEKSECWTWSLCANS-275RIB (123<br>2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB SIGNALS 400 DEG "F" @20K PSI With Sliding Cans For Pressure Ballance | 9.13 | 2.75 | 102.00 |
| CENT-TEKCO (101) | 2.73 | 2.75 | 10.00 |
| GR-TEKCO (101sgr) | 3.68 | 2.75 | 30.00 |

Dataset: glenn i 1.db: field/well/run1/pass2
Total Length: 20.22 ft
Total Weight: 172.00 lb
O.D. 2.75 in

Database File: glenn i 1.db
Dataset Pathname: pass2
Presentation Format: scbl_sr
Dataset Creation: Tue Aug 12 12:08:19 2014 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240