**J-W WIRELINE COMPANY**

# CEMENT BOND
# GAMMA RAY
# COLLAR CORRELATION LOG

Company BONANZA CREEK OPERATING CO. LLC
Well ANTELOP 43-18
Field WATTENBERG
County WELD
State COLORADO

| | |
|---|---|
| Company | BONANZA CREEK OPERATING CO. LLC |
| Well | ANTELOP 43-18 |
| Field | WATTENBERG |
| County | WELD |
| State | COLORADO |

Location: API # : 05-123-31856-00
SHL: 1376' FSL & 764' FEL NE SE
BHL: 1987' FSL & 682' FEL NE SE
SEC 18, T5N, R62W
SEC TWP RGE

Other Services
PERF

| | | | |
|---|---|---|---|
| Permanent Datum | GROUND LEVEL | Elevation | 4639 |
| Log Measured From | KELLY BUSHING | | |
| Drilling Measured From | KELLY BUSHING | | |

Elevation
K.B. 4649
D.F. 4648
G.L. 4639

| | | | |
|---|---|---|---|
| Date | DECEMBER 12, 2010 | | |
| Run Number | 1 | | |
| Depth Driller | 6710 | | |
| Depth Logger | 6682 | | |
| Bottom Logged Interval | 6679 | | |
| Top Log Interval | 3100 | | |
| Open Hole Size | 7-7/8 | | |
| Type Fluid | WATER | | |
| Density / Viscosity | --- | | |
| Max. Recorded Temp. | 220 F | | |
| Estimated Cement Top | 3280 | | |
| Time Well Ready | ROA | | |
| Time Logger on Bottom | -- | | |
| Equipment Number | 2337/CR30/26 | | |
| Location | BRIGHTON, CO | | |
| Recorded By | BRADY DILKA | | |
| Witnessed By | MR. KURT DODGE | | |

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

| Casing Record | Size | Wgt/Ft | Top | Bottom |
|---|---|---|---|---|
| Surface String | 7 | | SURFACE | 458 OPEN HOLE |
| Prot. String | | | | |
| Production String | 4.5 | 11.6 | SURFACE | 6682 LOGGER |
| Liner | | | | |
| | | | | |

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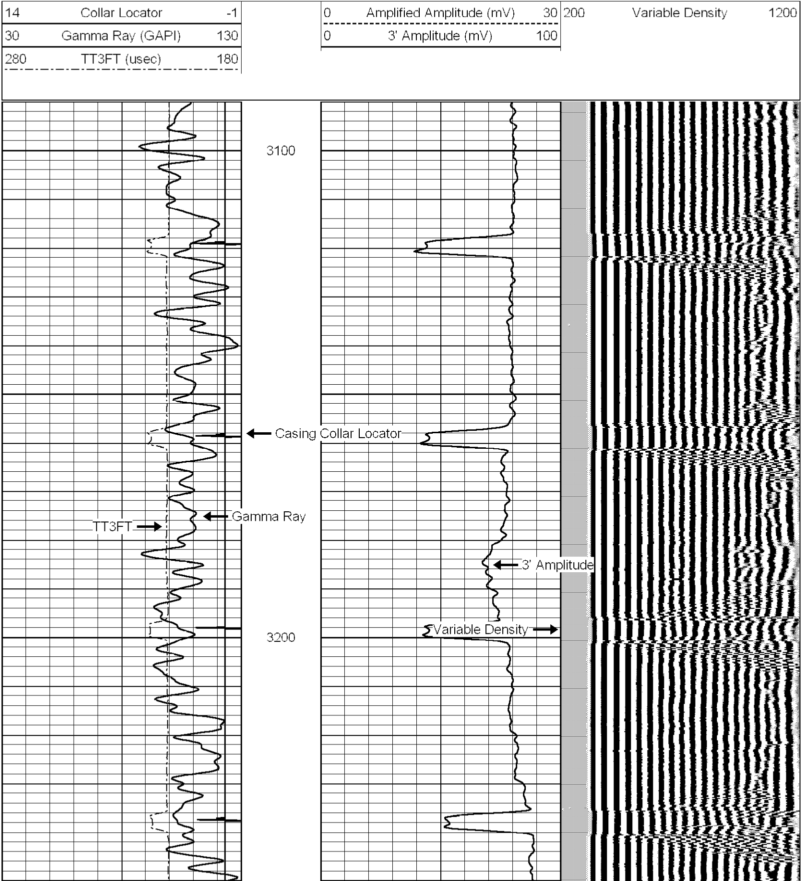
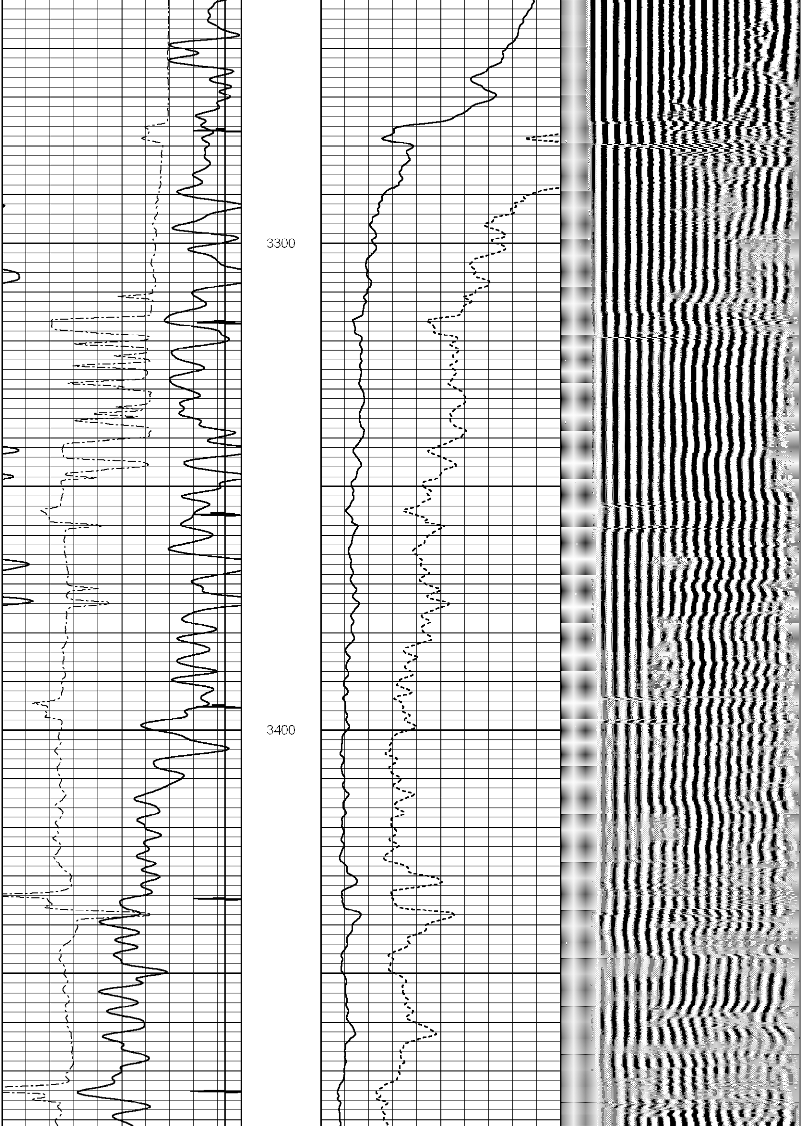
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

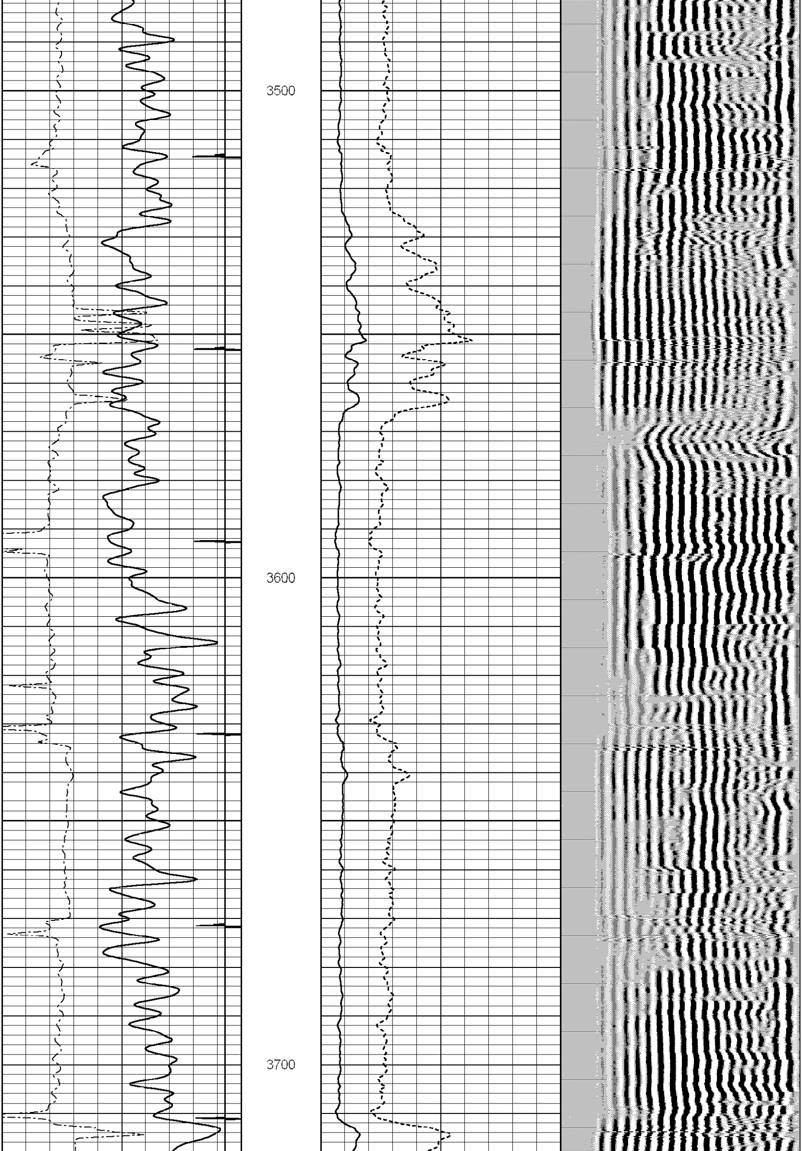
## Comments

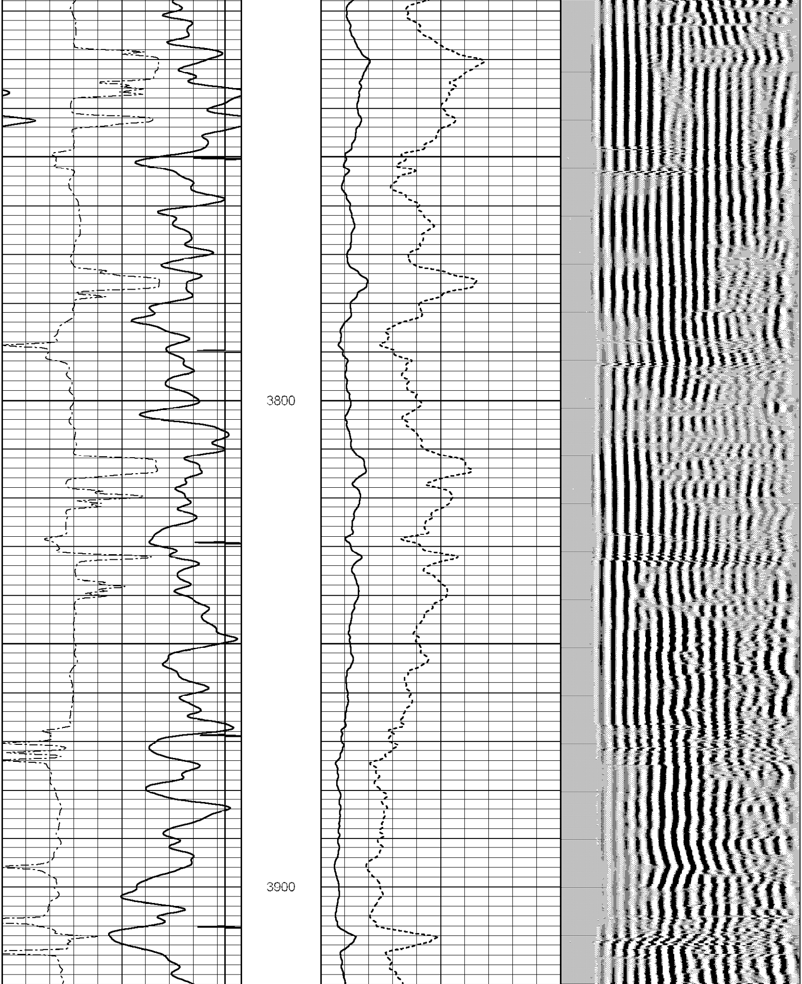
THANK YOU FOR CHOOSING JW WIRELINE
DEPTH REFERENCE TO CDCN DI DATED NOV. 13, 2010
PERF INTERVAL 6548-6558 10' 4 SPF

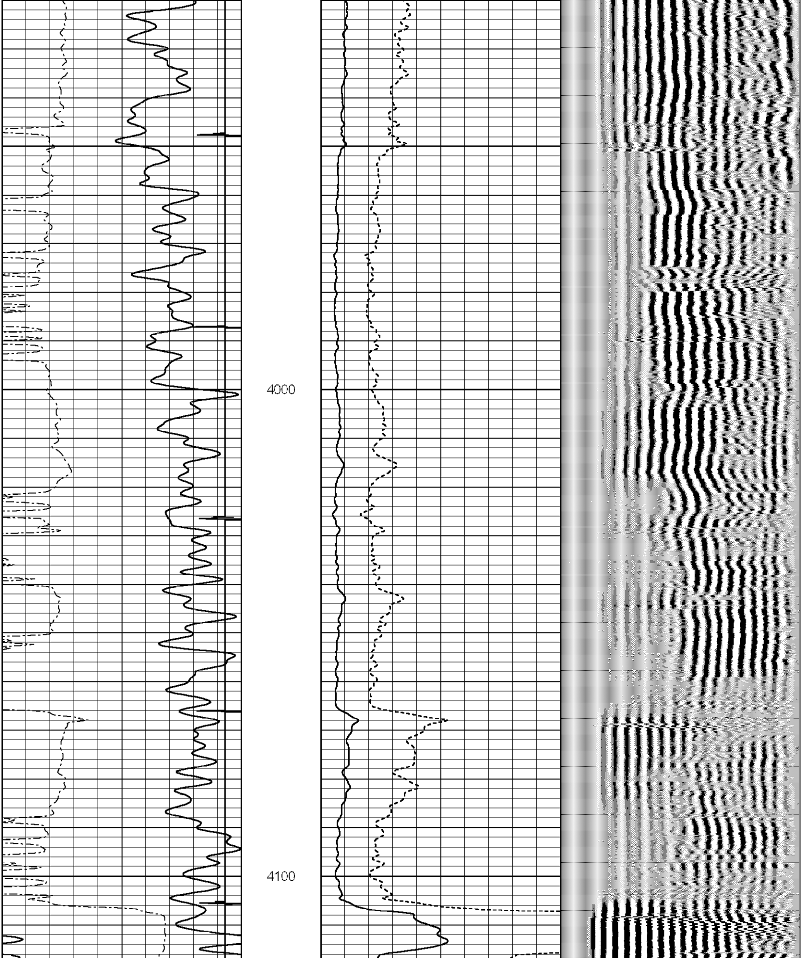
Database File: antelope 43-18.db
Dataset Pathname: pass4
Presentation Format: scbl_dr
Dataset Creation: Thu Dec 02 08:00:20 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

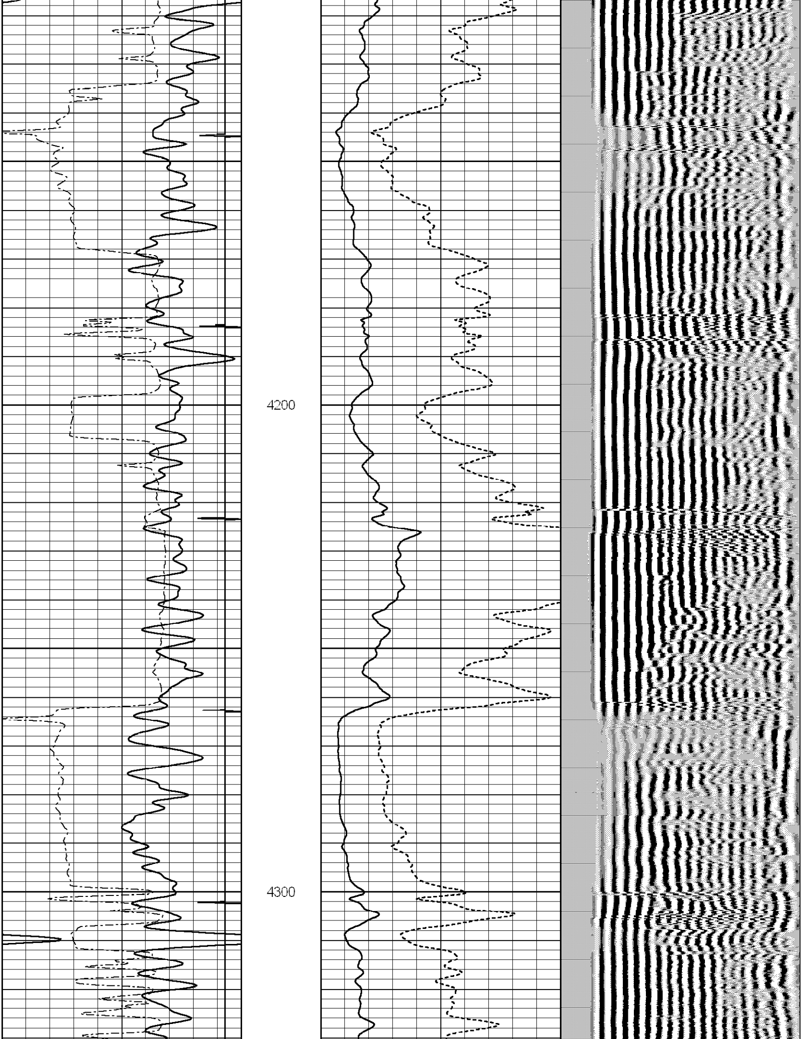


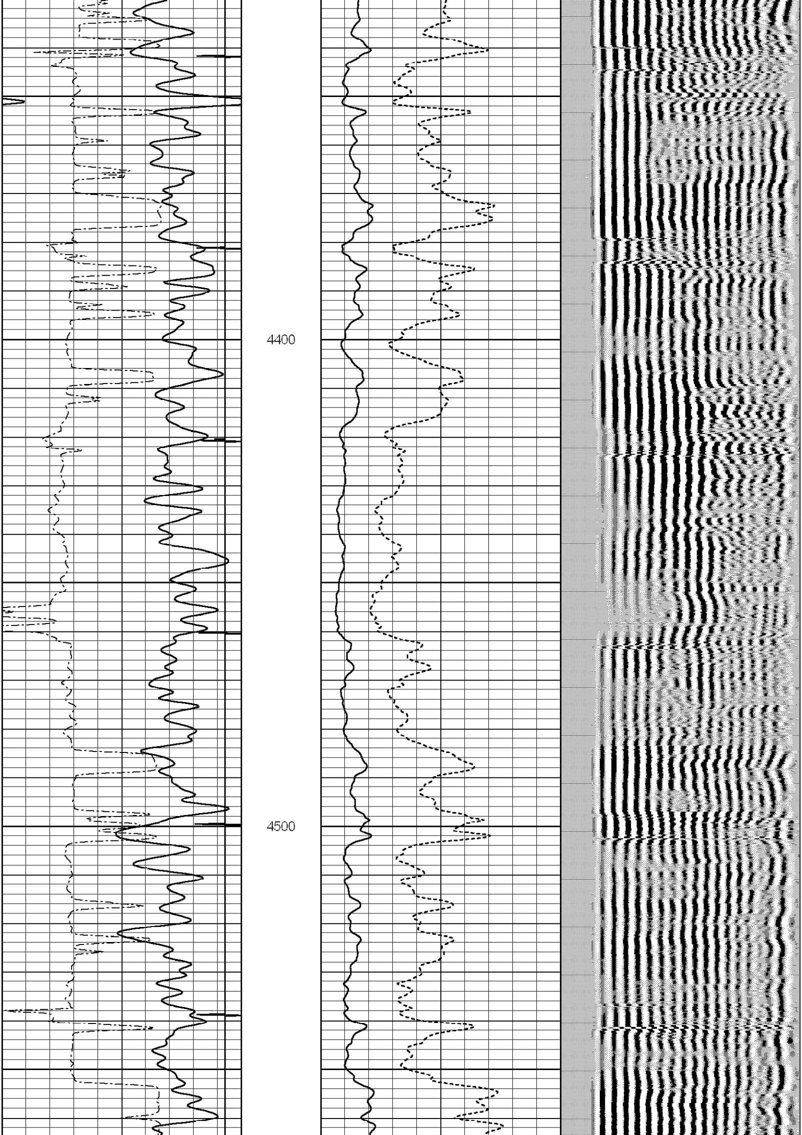


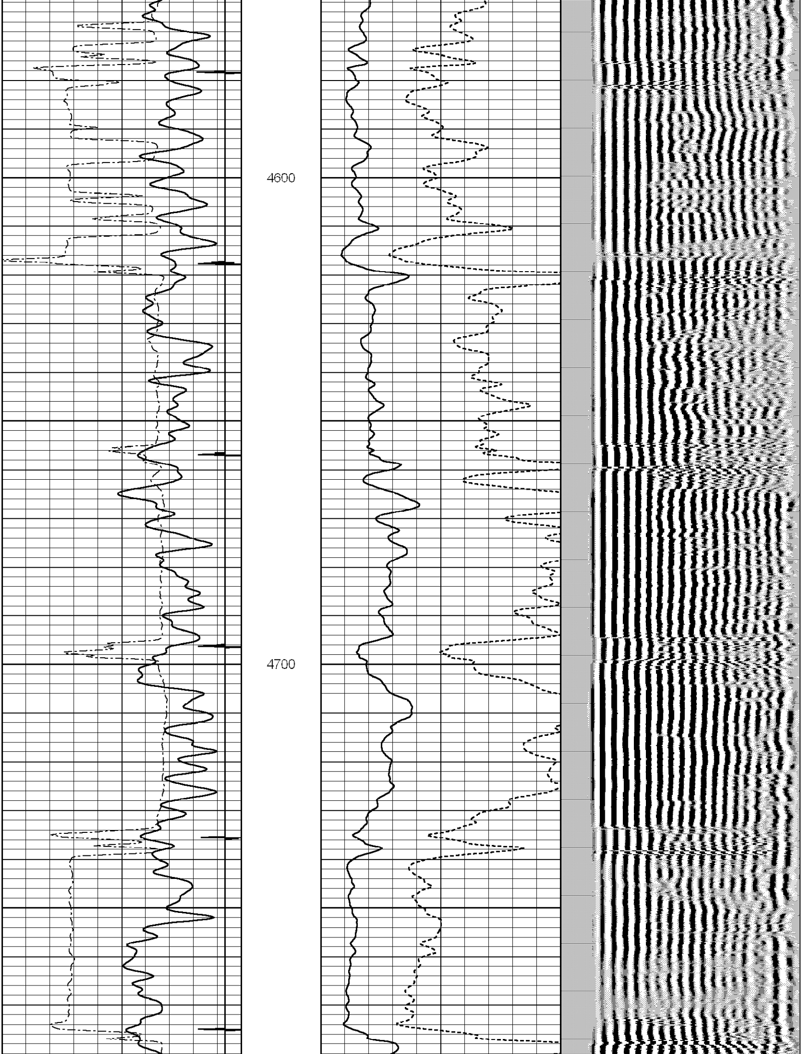


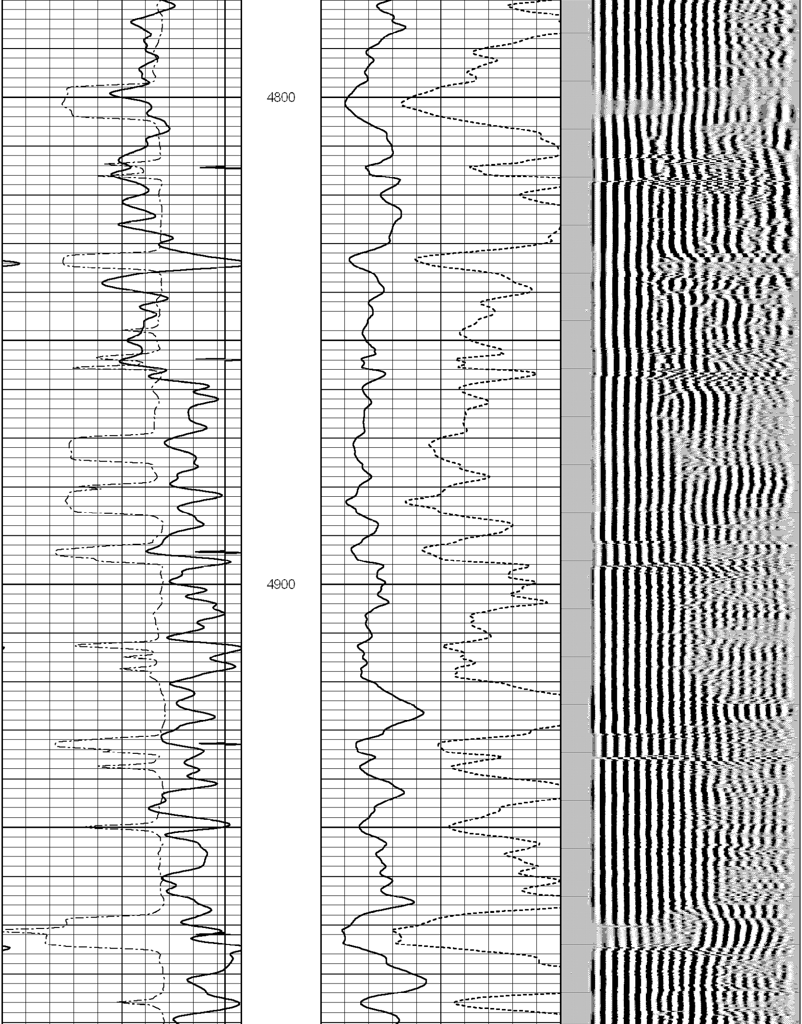


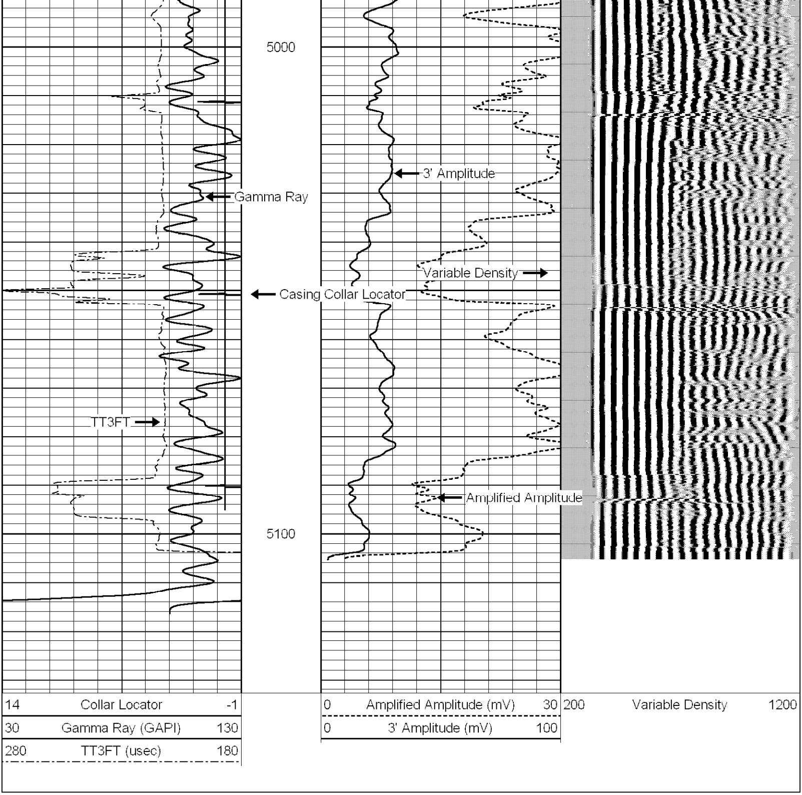












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|---|---|
| Database File: | antelope 43-18.db |
| Dataset Pathname: | pass3 |
| Presentation Format: | scbl_dr |
| Dataset Creation: | Thu Dec 02 07:32:10 2010 by Log Std Casedhole 08121 |
| Charted by: | Depth in Feet scaled 1:240 |

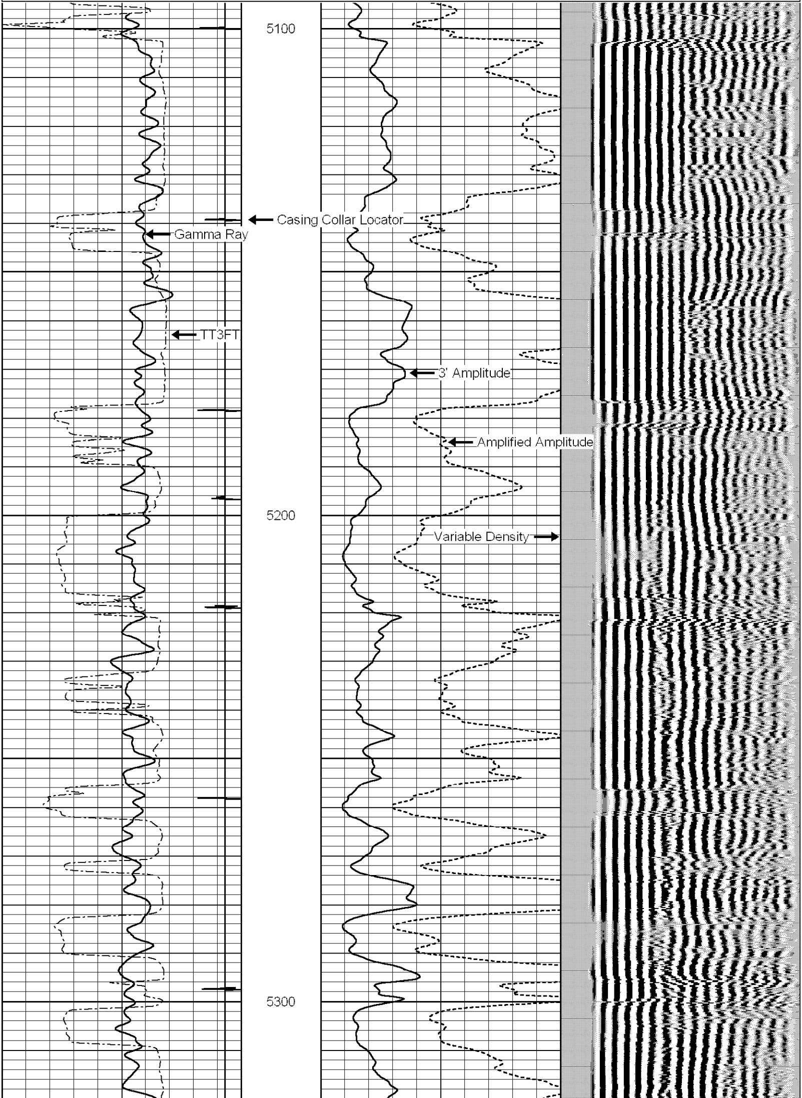
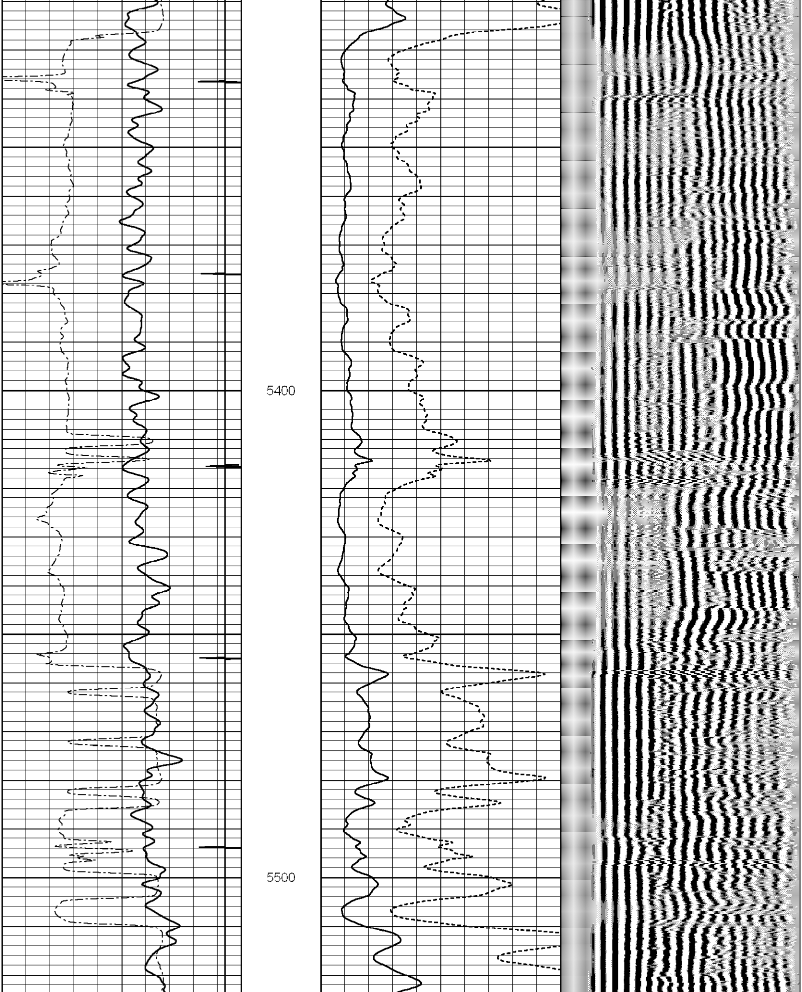
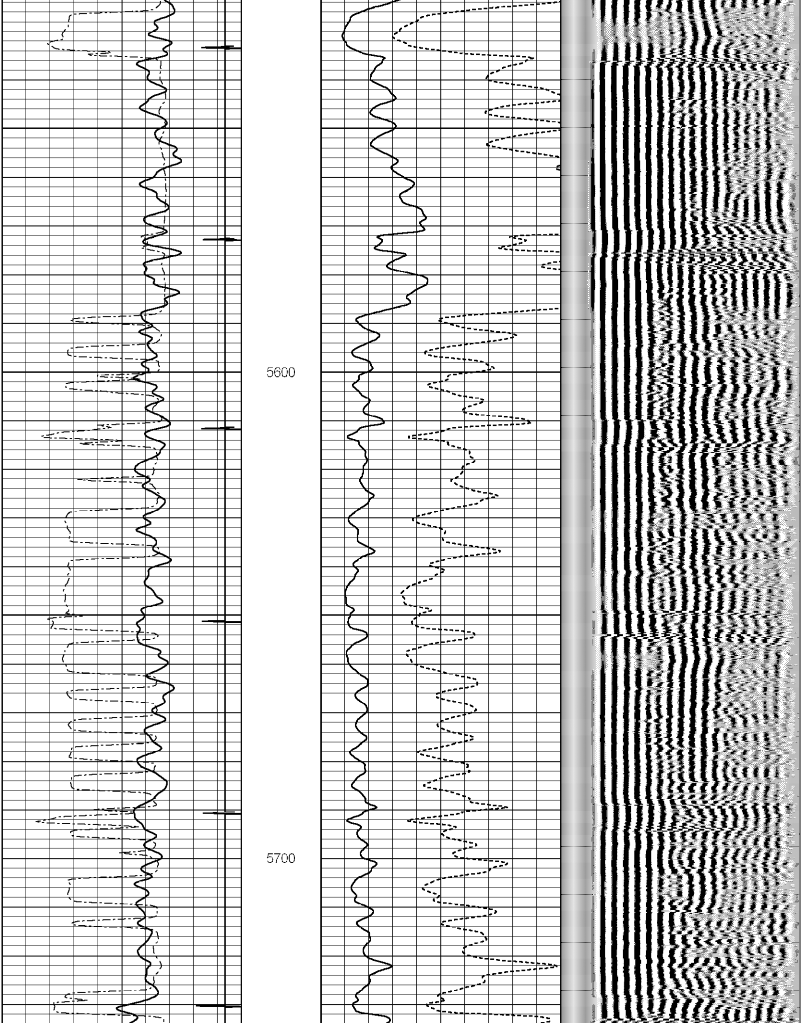
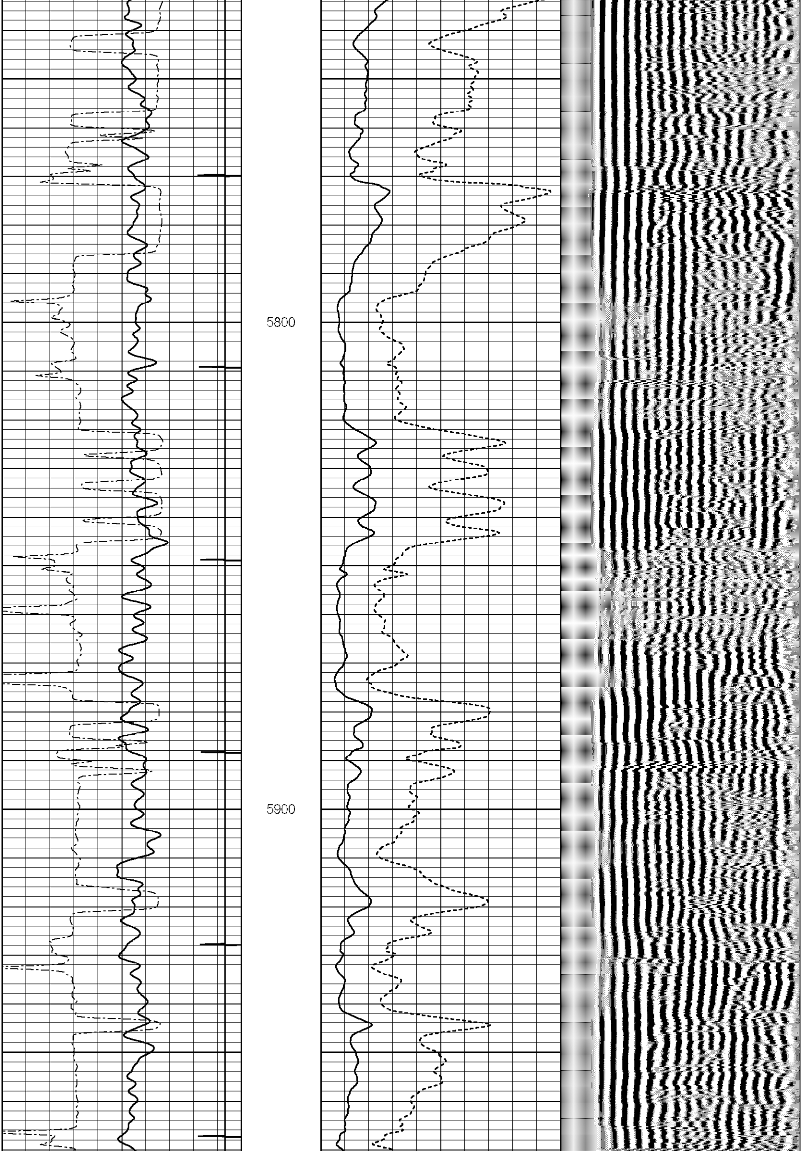
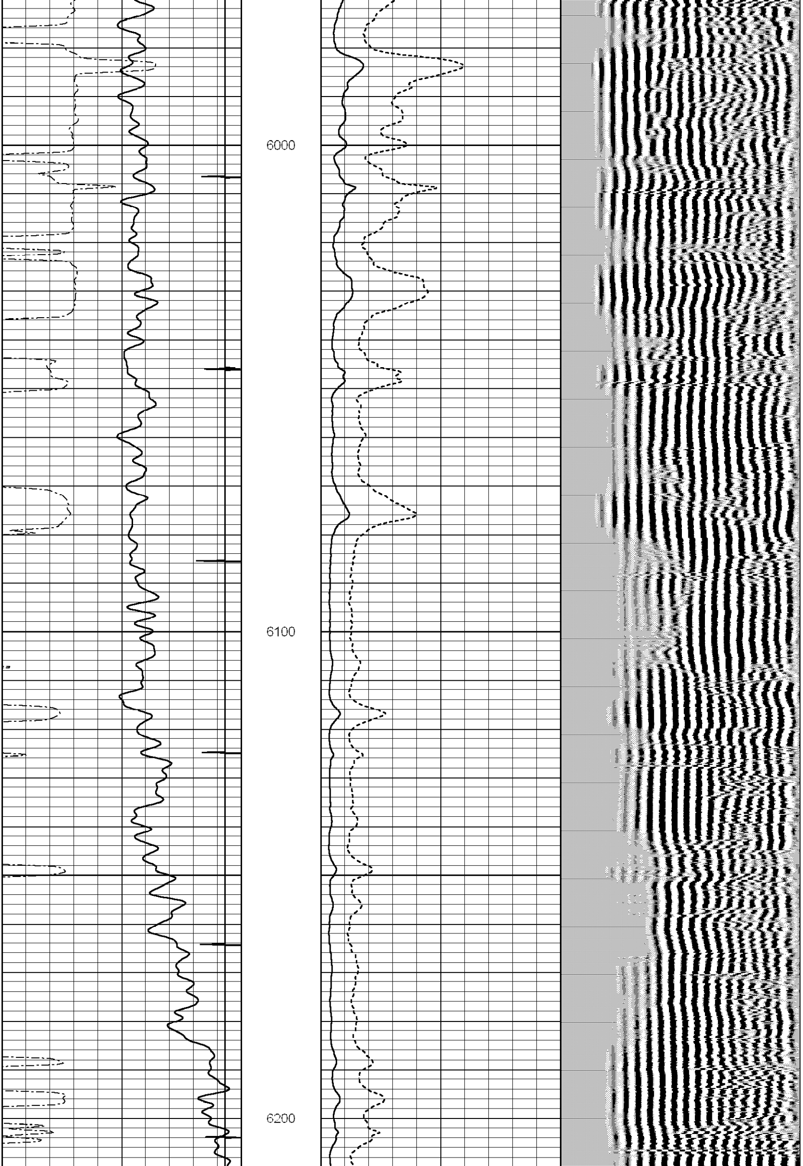
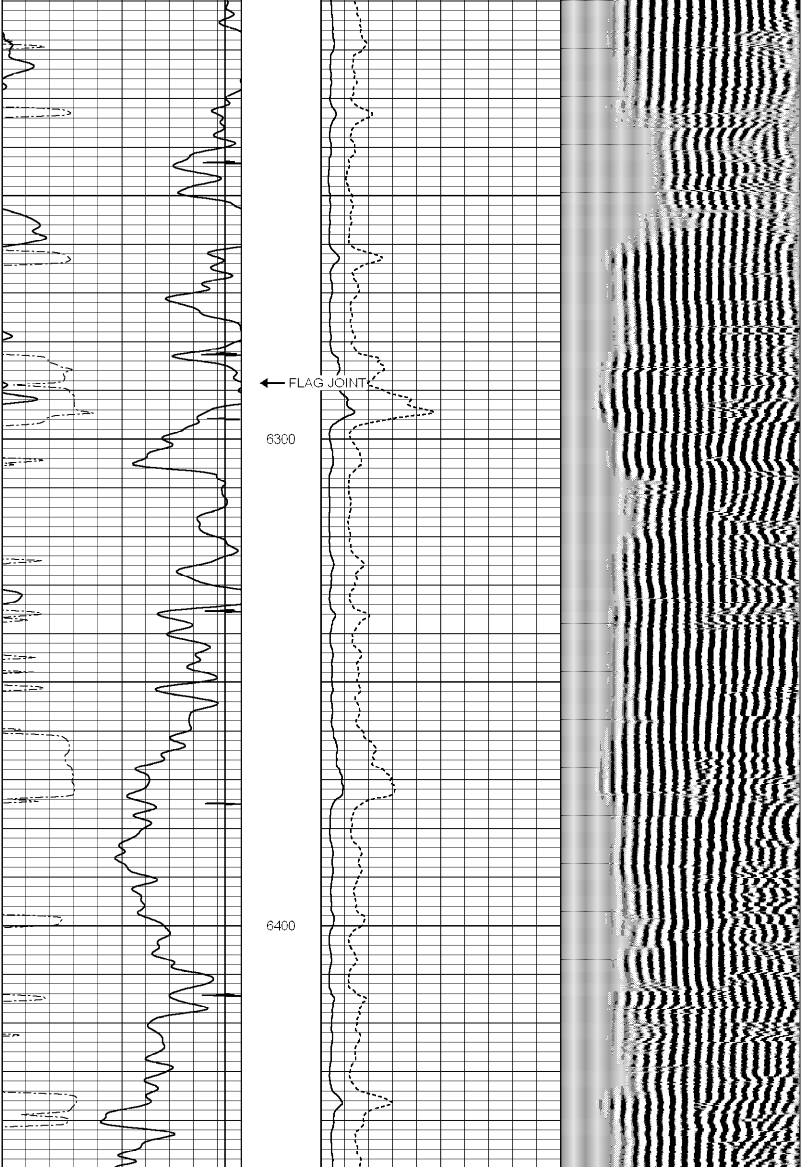
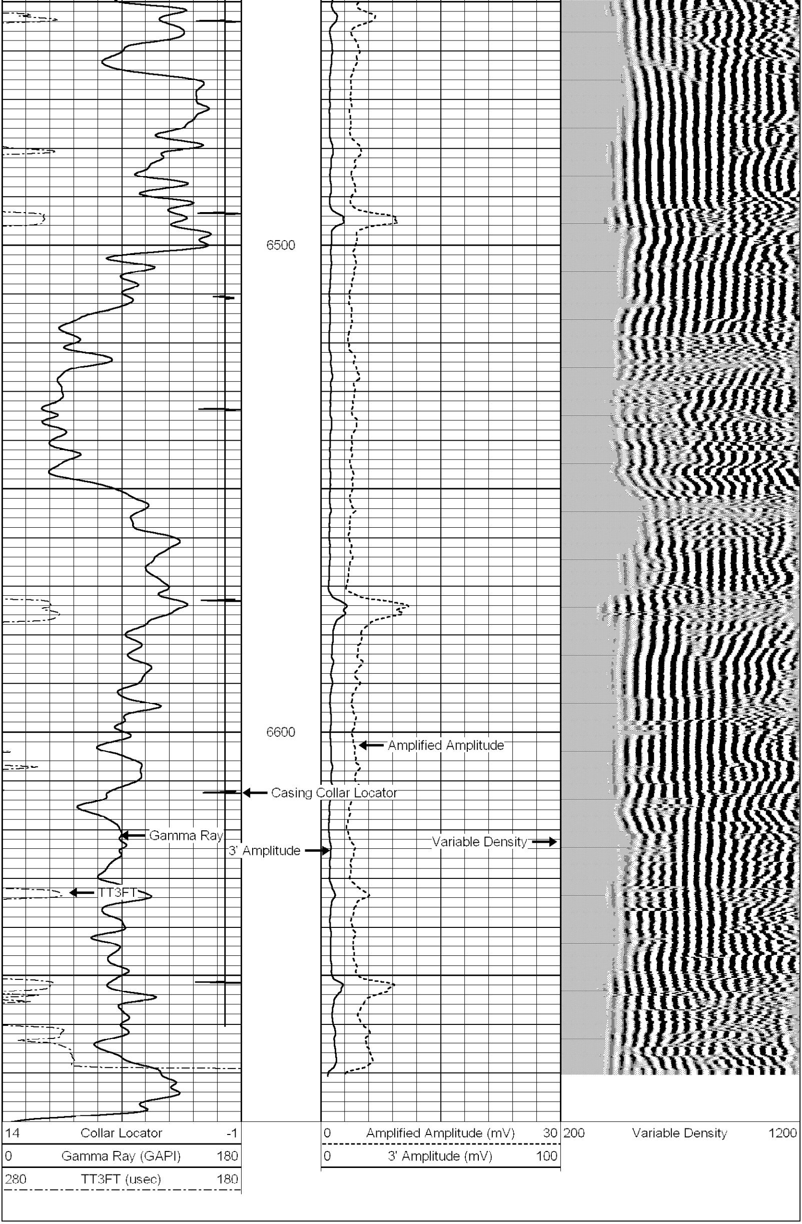
14 Collar Locator -1

0 Gamma Ray (GAPI) 180

280 TT3FT (usec) 180

0 Amplified Amplitude (mV) 30

0 3' Amplitude (mV) 100

200 Variable Density 1200