Company EnCana Oil & Gas (USA) Inc
Well Breakneck Properties 21-6
Field Wattenberg
County Weld
State Colorado

PIONEER
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BHC SONIC
GAMMA RAY
CALIPER

Company EnCana Oil & Gas (USA) Inc
Well Breakneck Properties 21-6
Field Wattenberg
County Weld State Colorado

Location: API # : 05123368230000
SHL: 469' FNL & 2026' FEL NWNE
BHL: 560' FNL & 1980' FWL NENW
SEC 6 TWP 3N RGE 68W

Other Services
CDL/CNL
DIL

Permanent Datum GL Elevation 5082
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 5095
D.F. 5094
G.L. 5082

Date	April 29, 2013			
Run Number	1			
Depth Driller	8010			
Depth Logger	8007			
Bottom Logged Interval	8007			
Top Log Interval	Casing			
Casing Driller	881			
Casing Logger	881			
Bit Size	7-7/8"			
Type Fluid in Hole	Chem Gel			
Density / Viscosity	9.8 / 55			
pH / Fluid Loss	8.0 / 10.4			
Source of Sample	Flowline			
Rm @ Meas. Temp	3.36 @ 60 F			
Rmf @ Meas. Temp	2.69 @ 60 F			
Rmc @ Meas. Temp	4.03 @ 60 F			
Source of Rmf / Rmc	Measure / Calc			
Rm @ BHT	0.90 @ 224 F			
Time Circulation Stopped	2100 4/28/2013			
Time Logger on Bottom	0530			
Maximum Recorded Temperature	224 F			
Equipment Number	50			
Location	Brighton, CO			
Recorded By	Kelly Keever			
Witnessed By	Carl Rayas			

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, 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

Annular volume calculated for 4-1/2" casing
Ensign Drilling Rig 122
Thank you for using Pioneer Energy Services.

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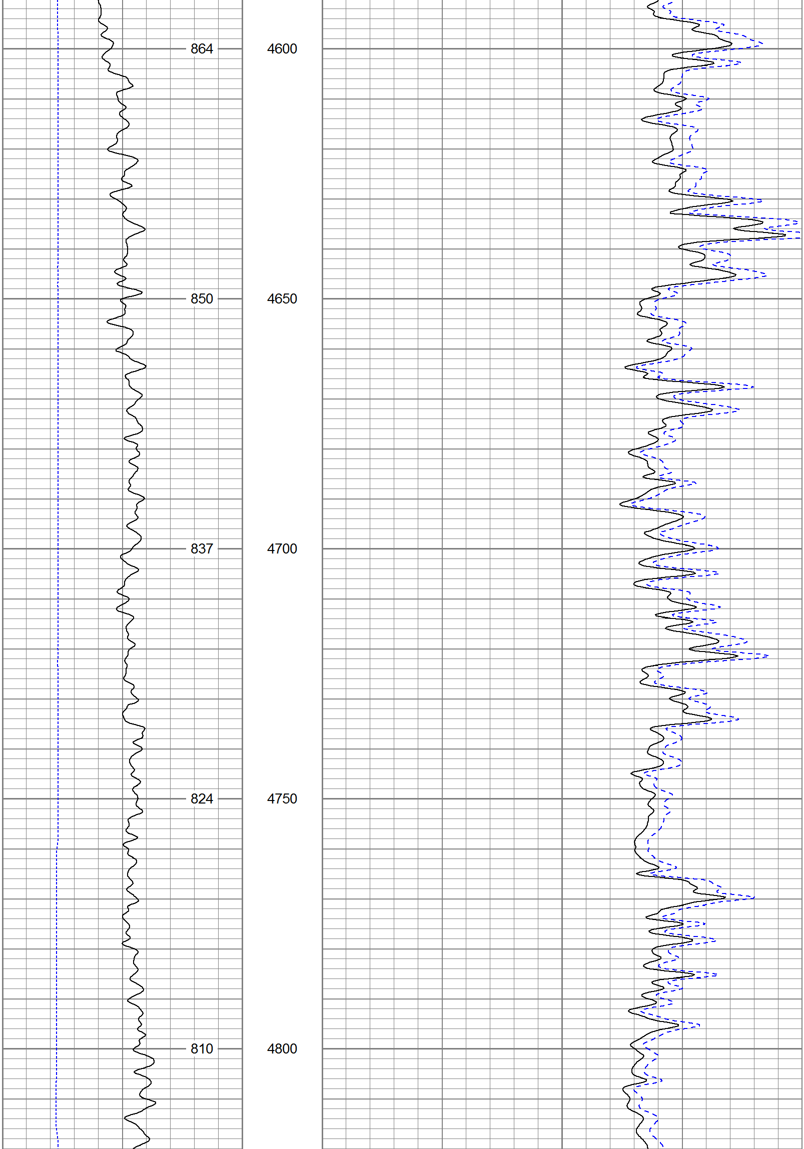
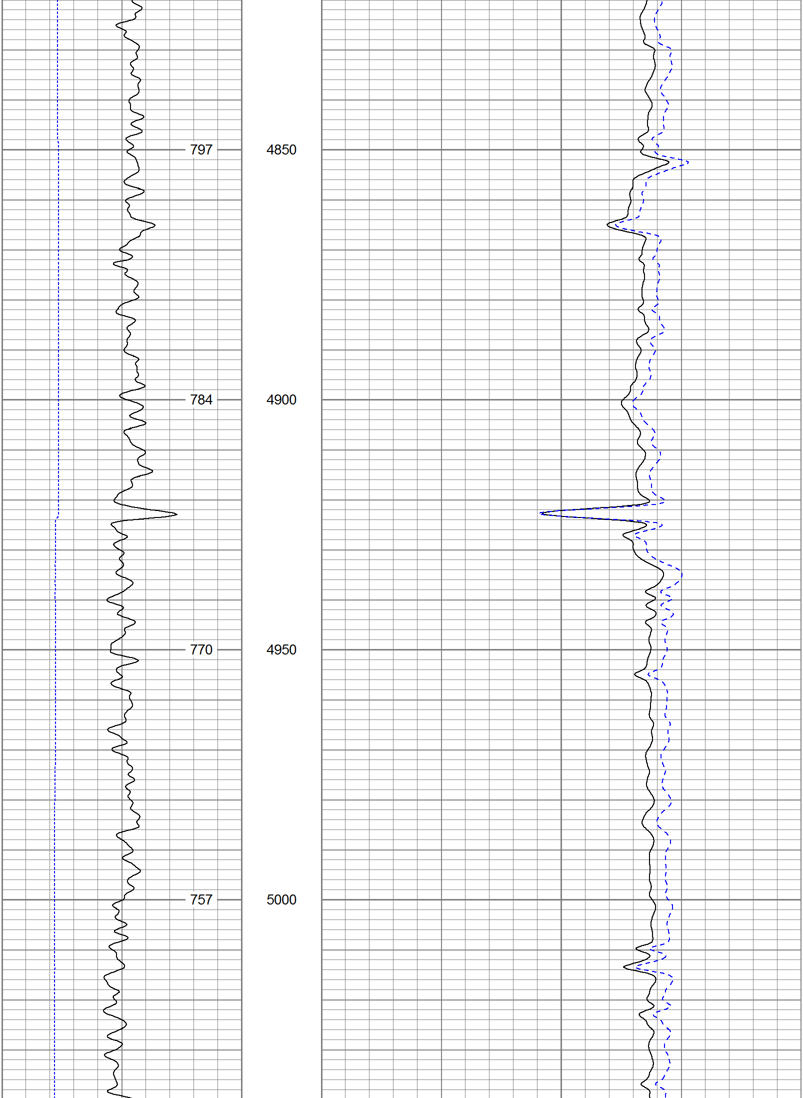
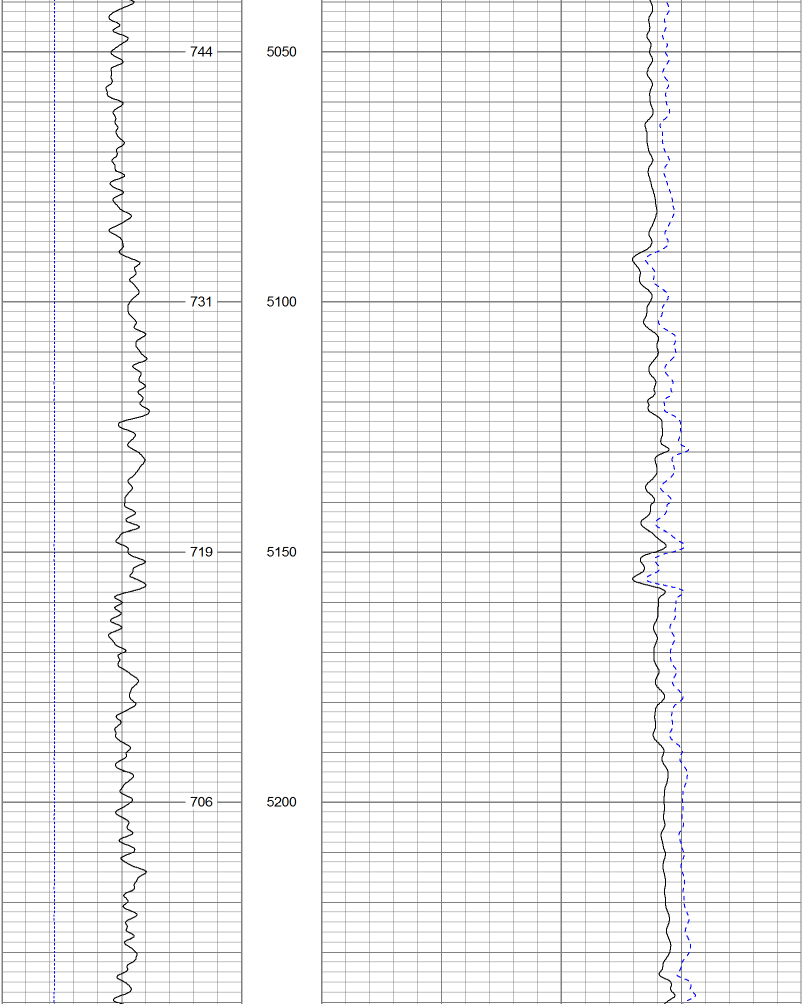
MAIN PASS

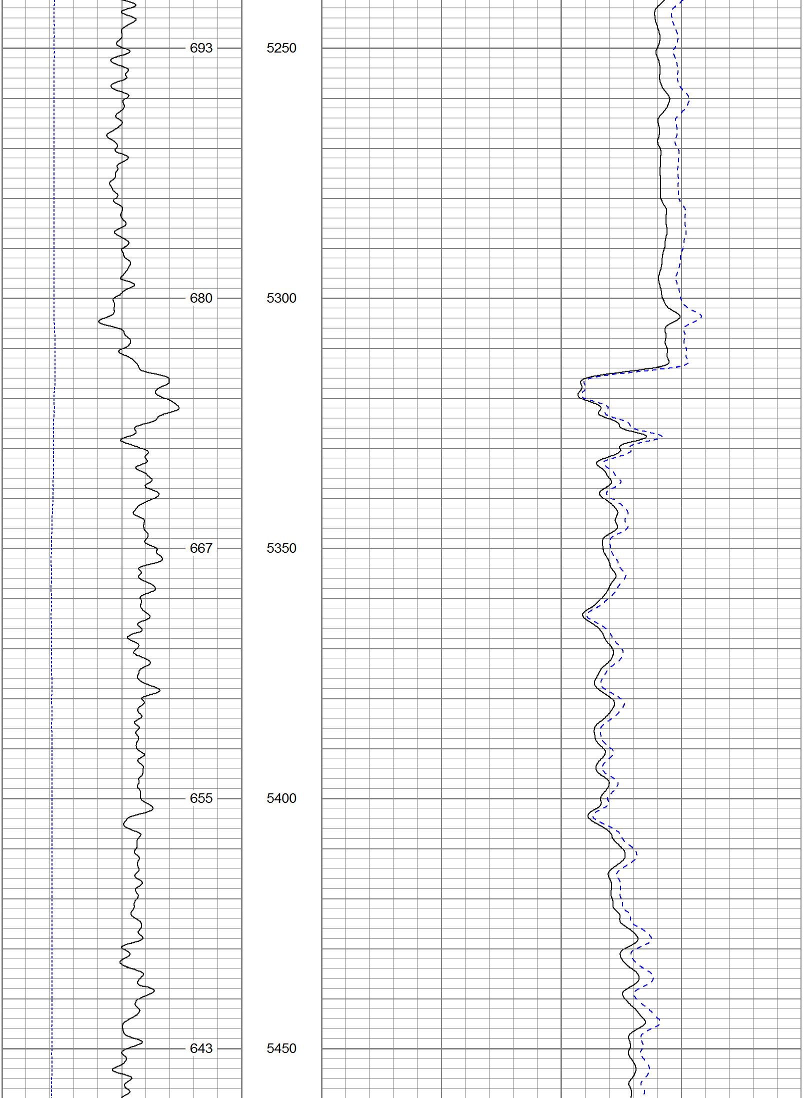
Database File: 12755-56.db
Dataset Pathname: final
Presentation Format: sonic
Dataset Creation: Mon Apr 29 08:09:47 2013
Charted by: Depth in Feet scaled 1:240

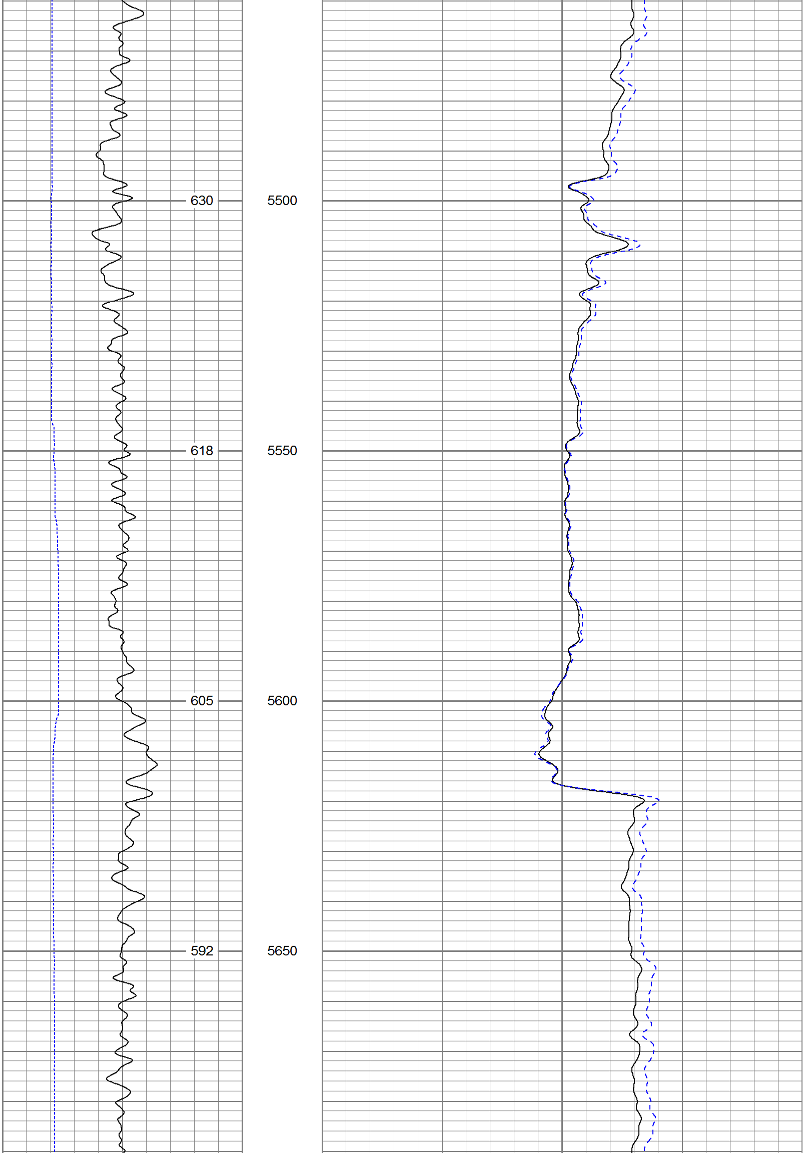
0 Gamma Ray (GAPI) 200		140 Travel Time (usec/ft) 40
6 Caliper (in) 16		60 Sonic Porosity (pu) 0
ABHV (ft3)		

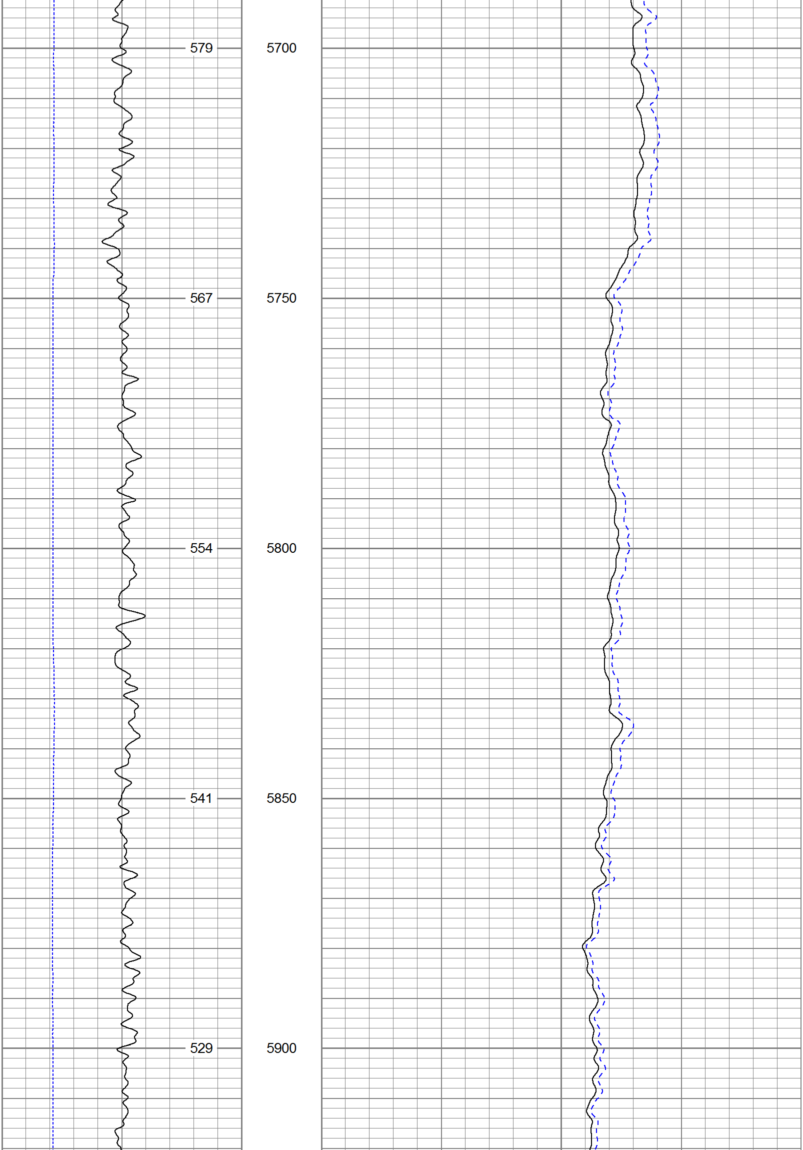


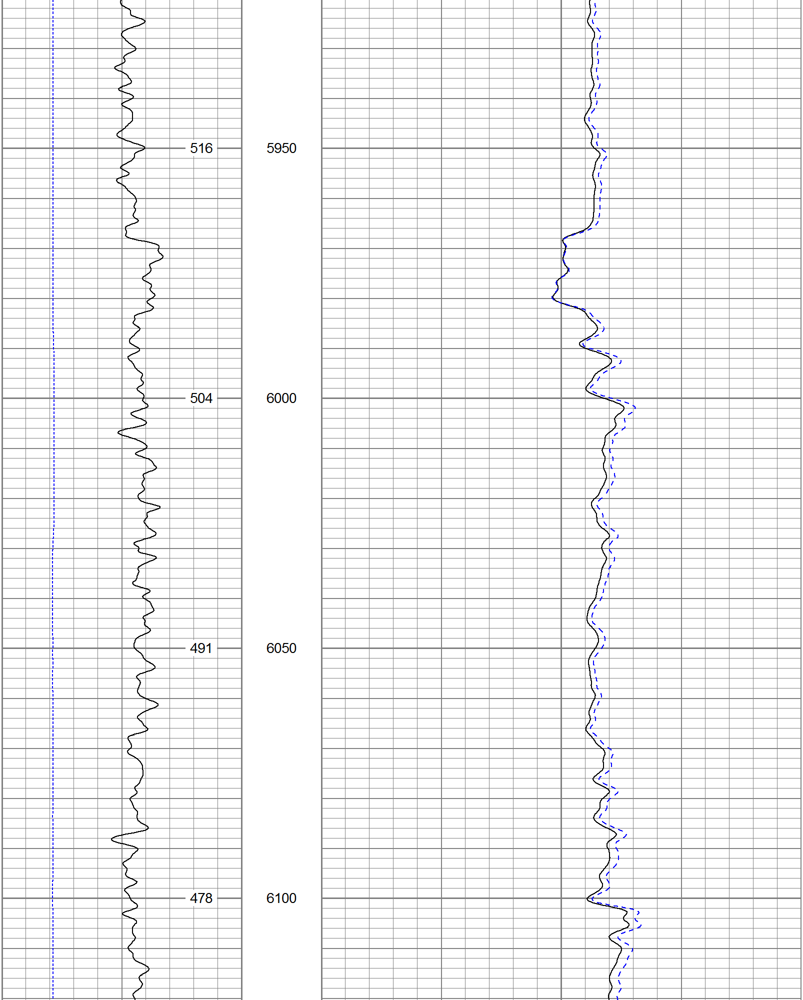


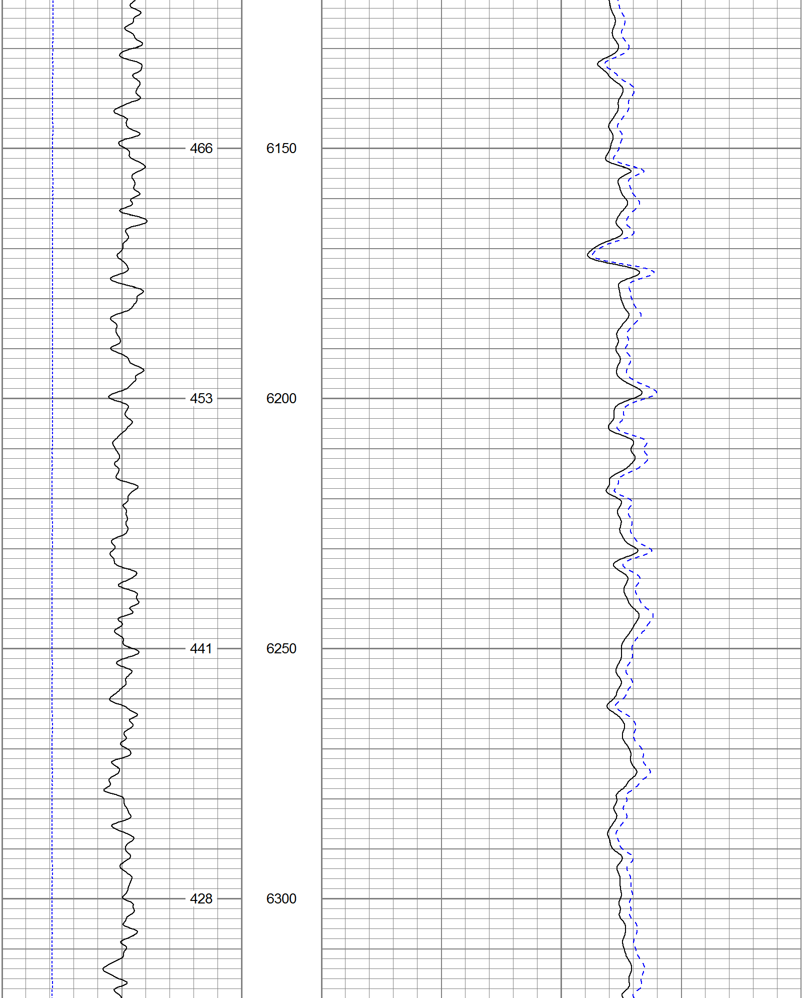


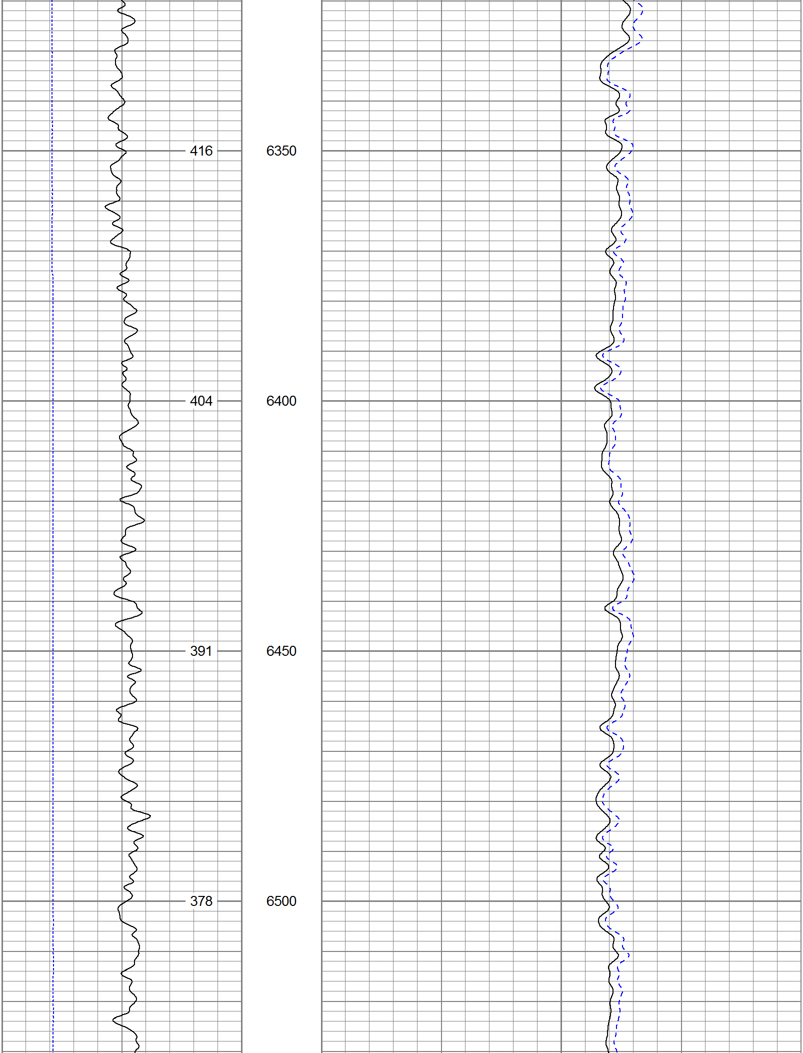


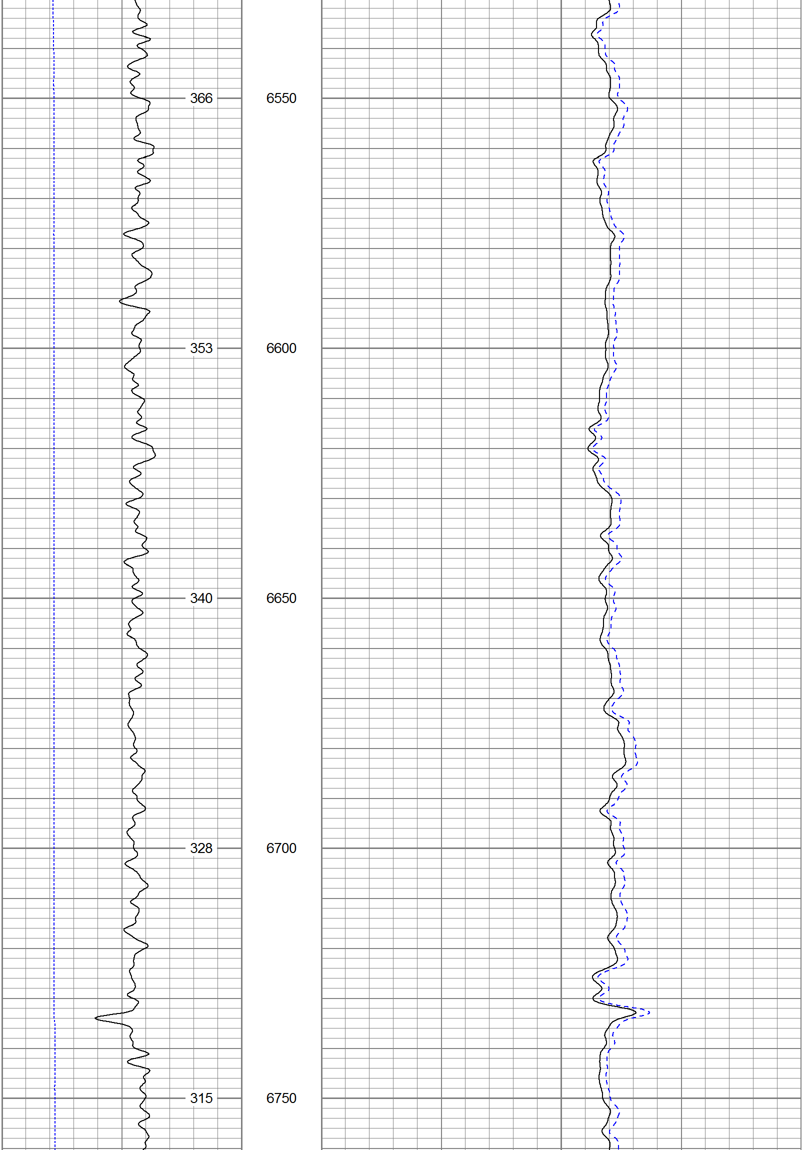


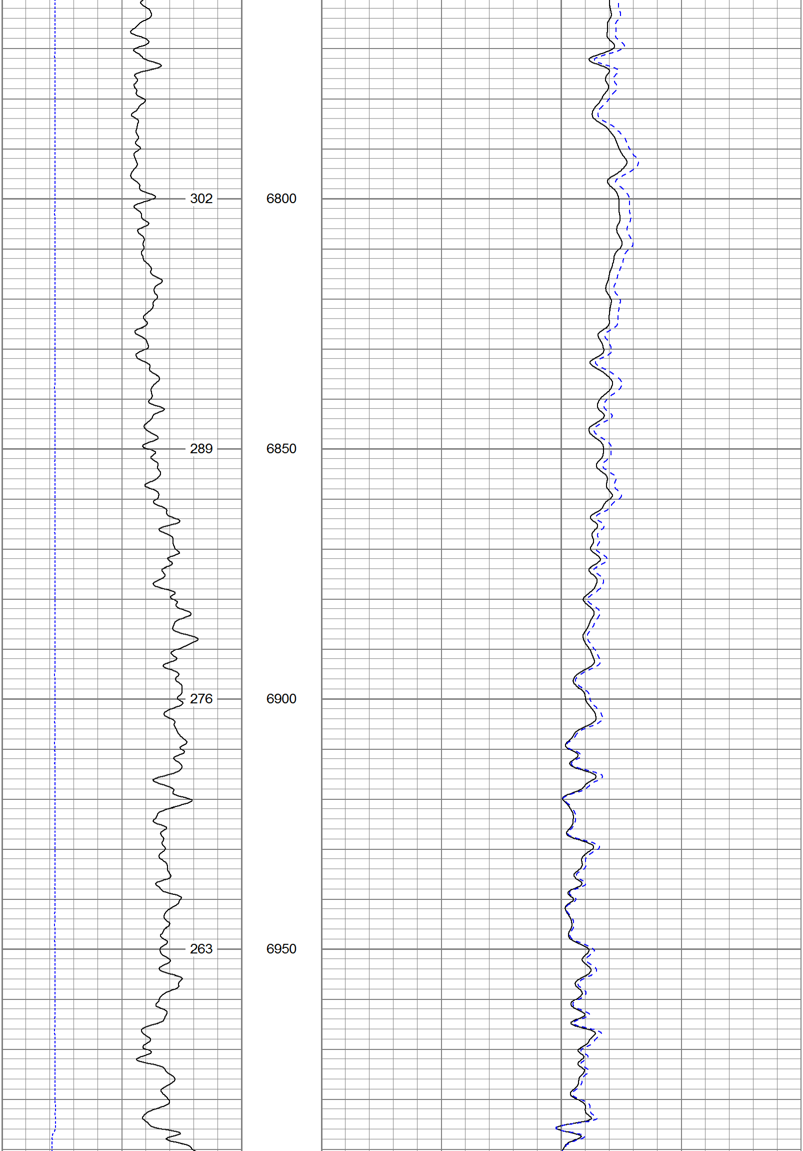


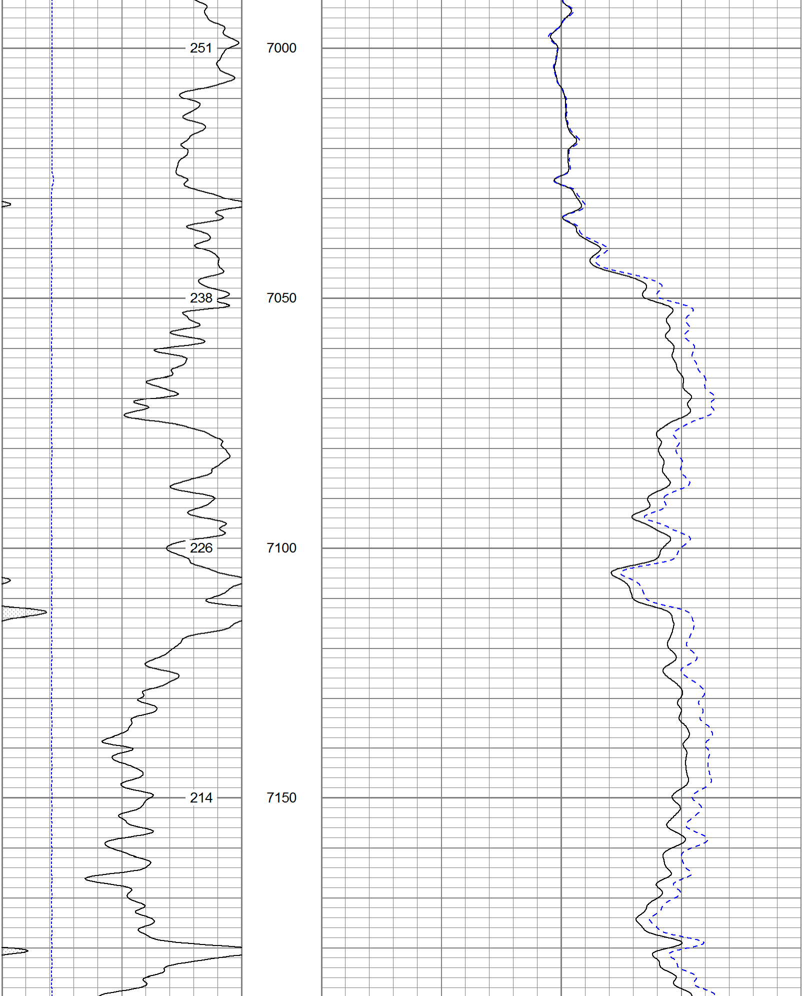


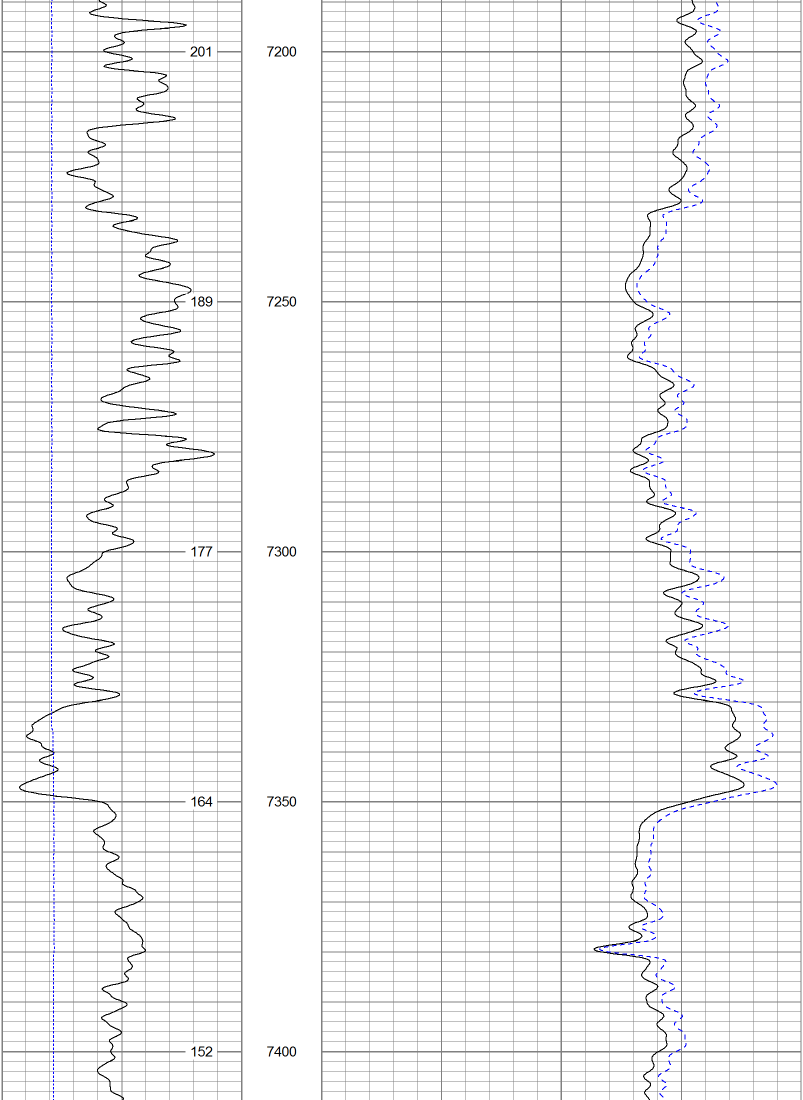


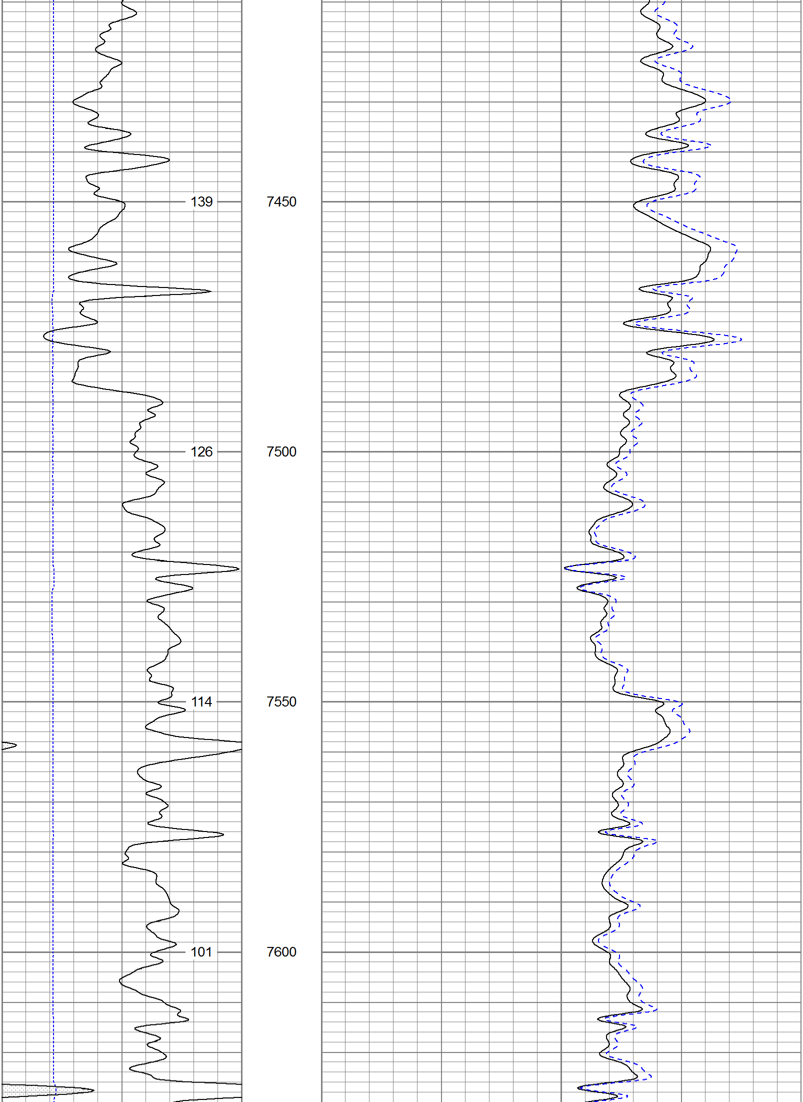


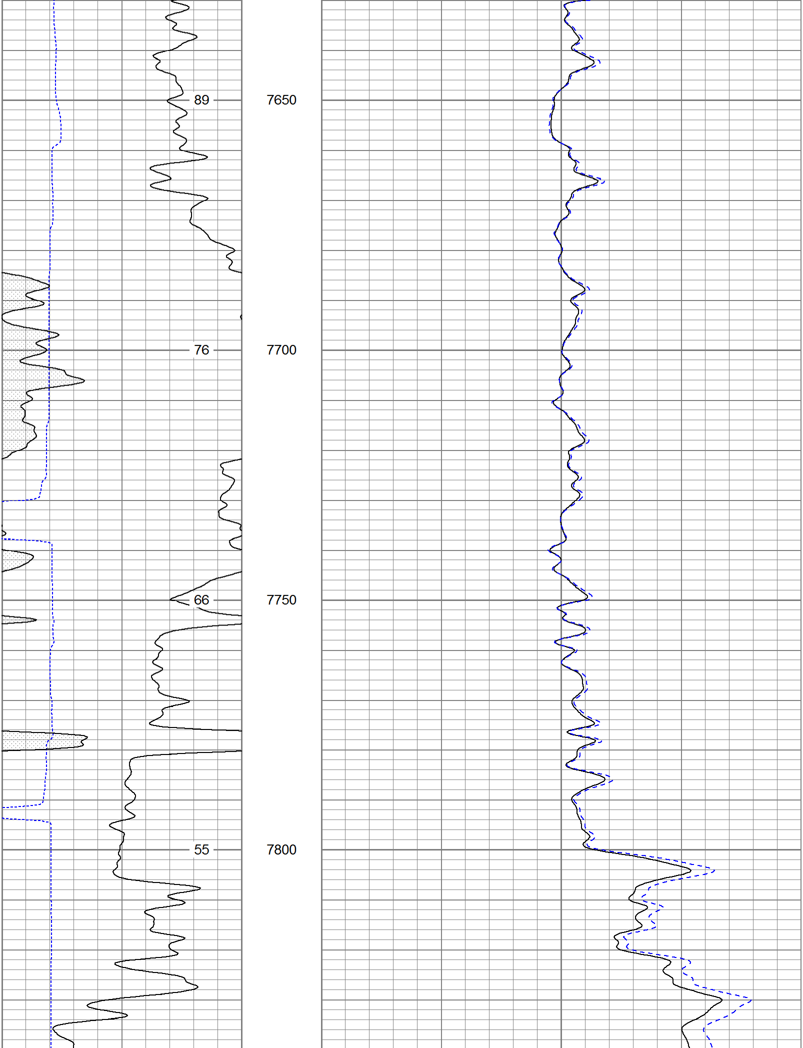


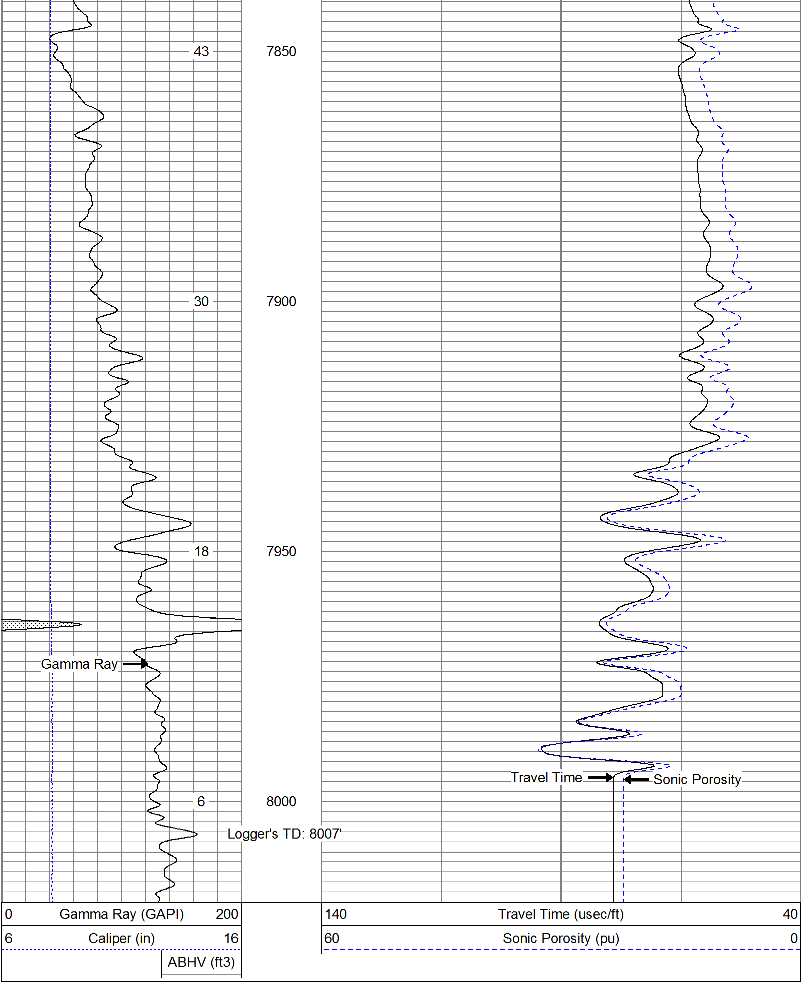












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MAIN PASS

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REPEAT PASS

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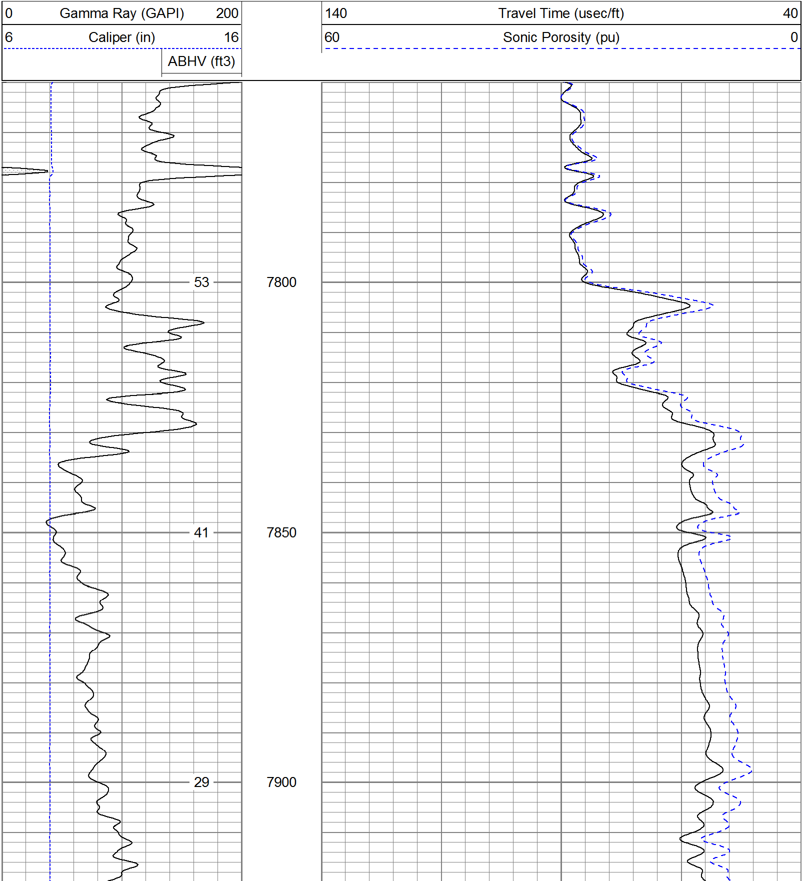
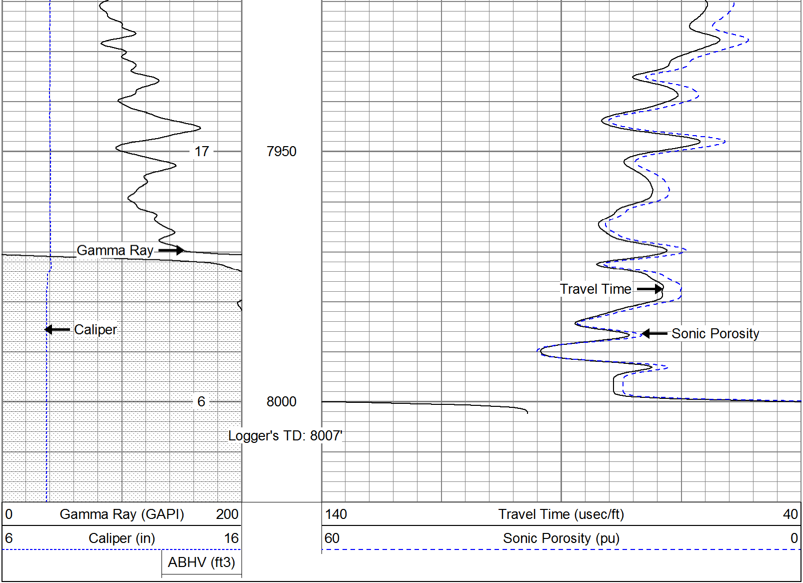
Presentation Format:	sonic
Dataset Creation:	Mon Apr 29 10:28:38 2013
Charted by:	Depth in Feet scaled 1:240





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REPEAT PASS