Pioneer Energy Services

COMPENSATED DENSITY
COMPENSATED NEUTRON
CALIPER

Company Singletree Resources, Inc.
Well Haley Smith 12-19
Field Amber
County Logan
State Colorado

Company	Singletree Resources, Inc.		
Well	Haley Smith 12-19		
Field	Amber		
County	Logan	State	Colorado

Location: API # : 05075093990000

1900' FNL & 600' FWL
SWNW

SEC 19 TWP 11N RGE 53W

Other Services
Hi. Res.
Induction

Permanent Datum	GL	Elevation	4340
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4352
D.F. 4351
G.L. 4340

Date	August 5, 2012		
Run Number	1		
Depth Driller	5458		
Depth Logger	5453		
Bottom Logged Interval	5433		
Top Log Interval	4140		
Casing Driller	788		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.4 / 75		
pH / Fluid Loss	8.0 / 7.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.75 @ 68° F		
Rmf @ Meas. Temp	2.20 @ 68° F		
Rmc @ Meas. Temp	3.30 @ 68° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.21 @ 155° F		
Time Circulation Stopped	0800		
Time Logger on Bottom	1230		
Maximum Recorded Temperature	155° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Matt Gill		
Witnessed By	Mark Brown	Louise Kiteley	

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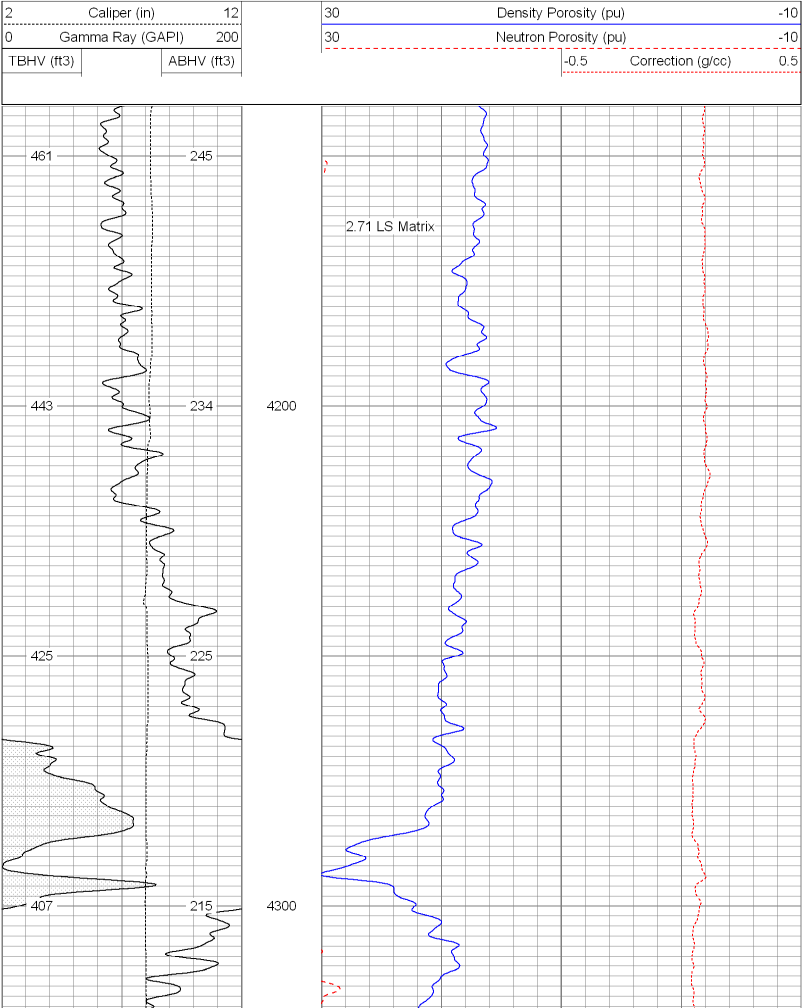
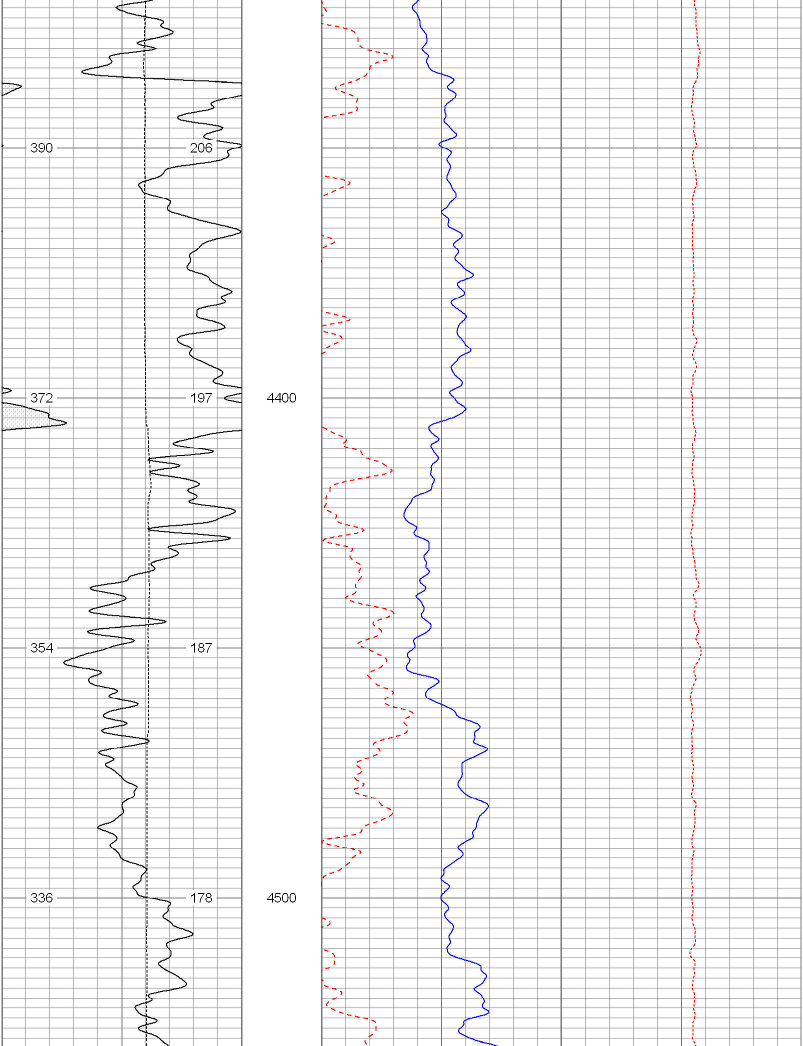
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

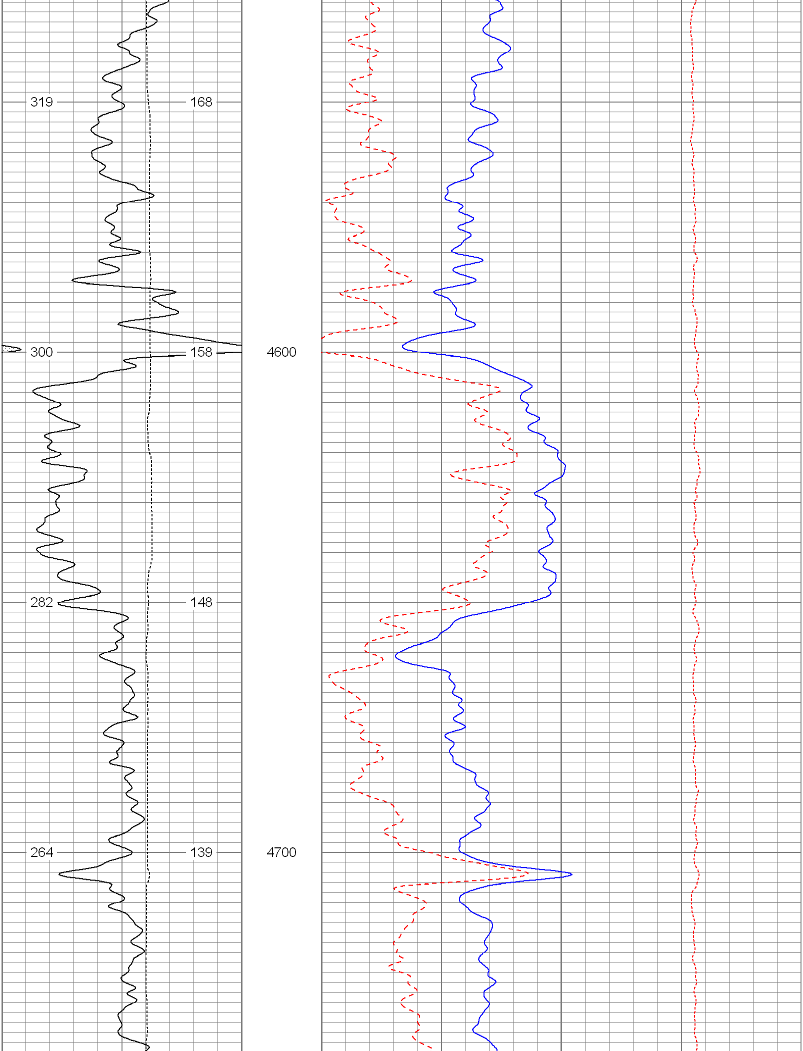
Comments

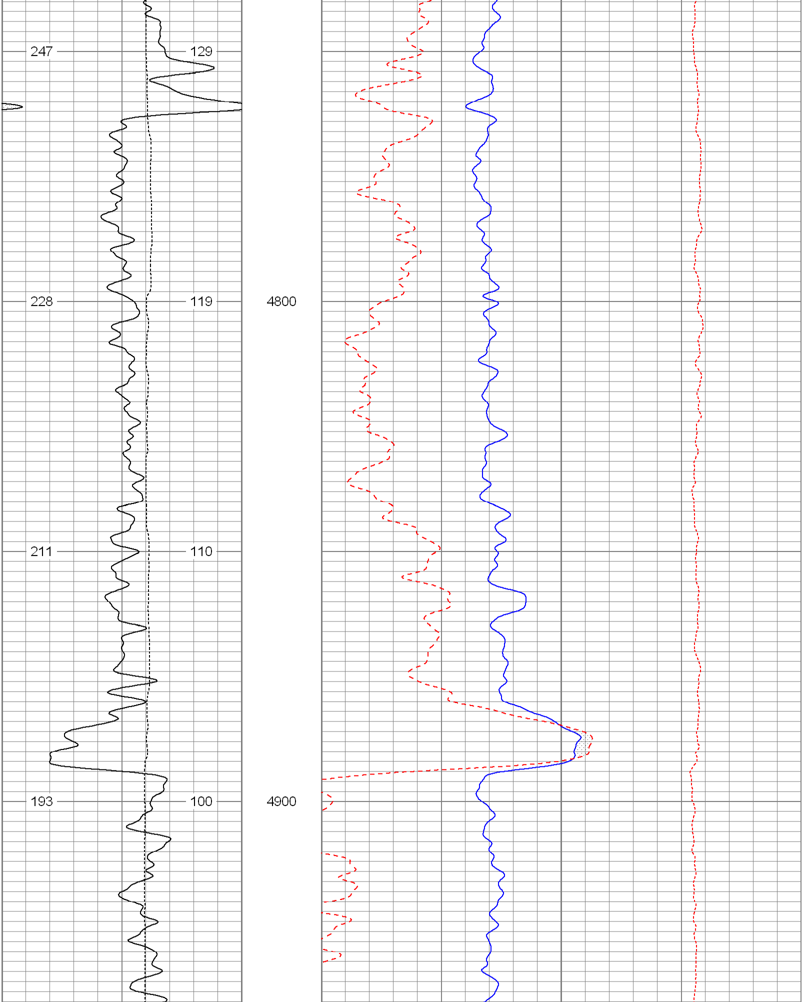
Annular volume calculated for 5.5" casing
Excel Drilling Rig 3
Thank you for using Pioneer Energy Services.

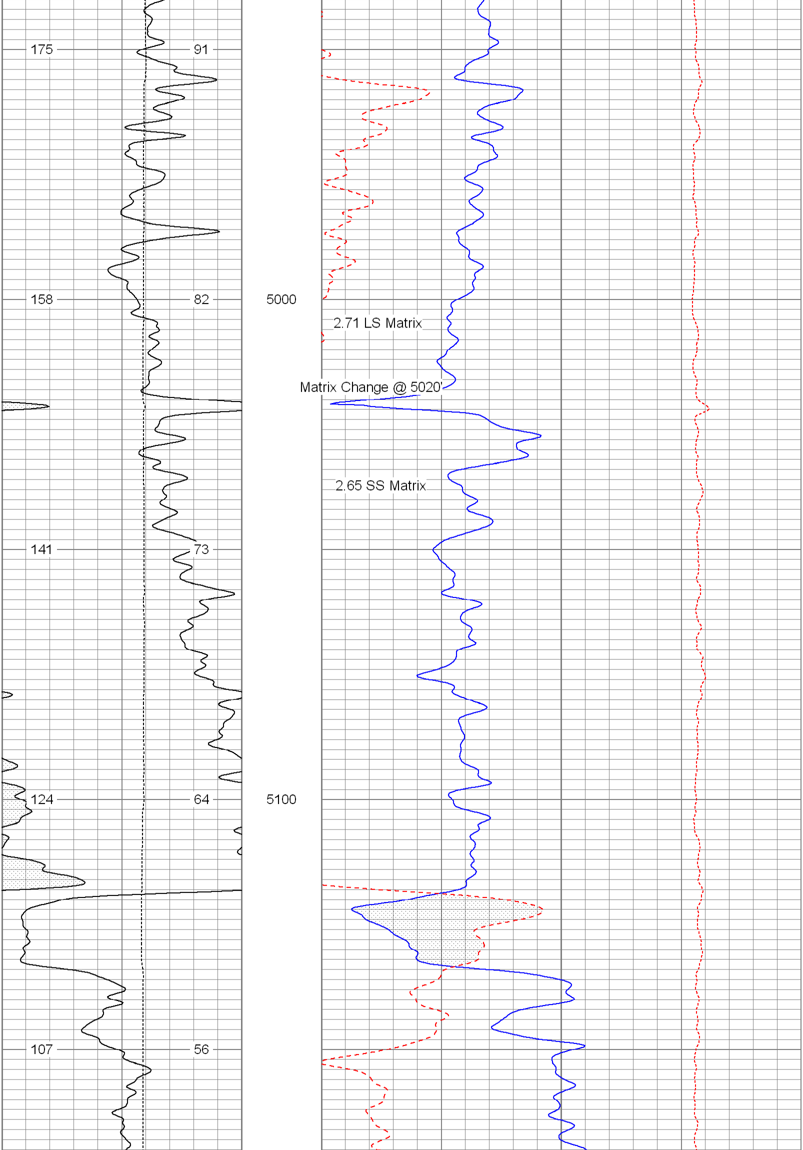
Database File: 13081.db
Dataset Pathname: final
Presentation Format: poro
Dataset Creation: Sun Aug 05 13:33:32 2012
Charted by: Depth in Feet scaled 1:240

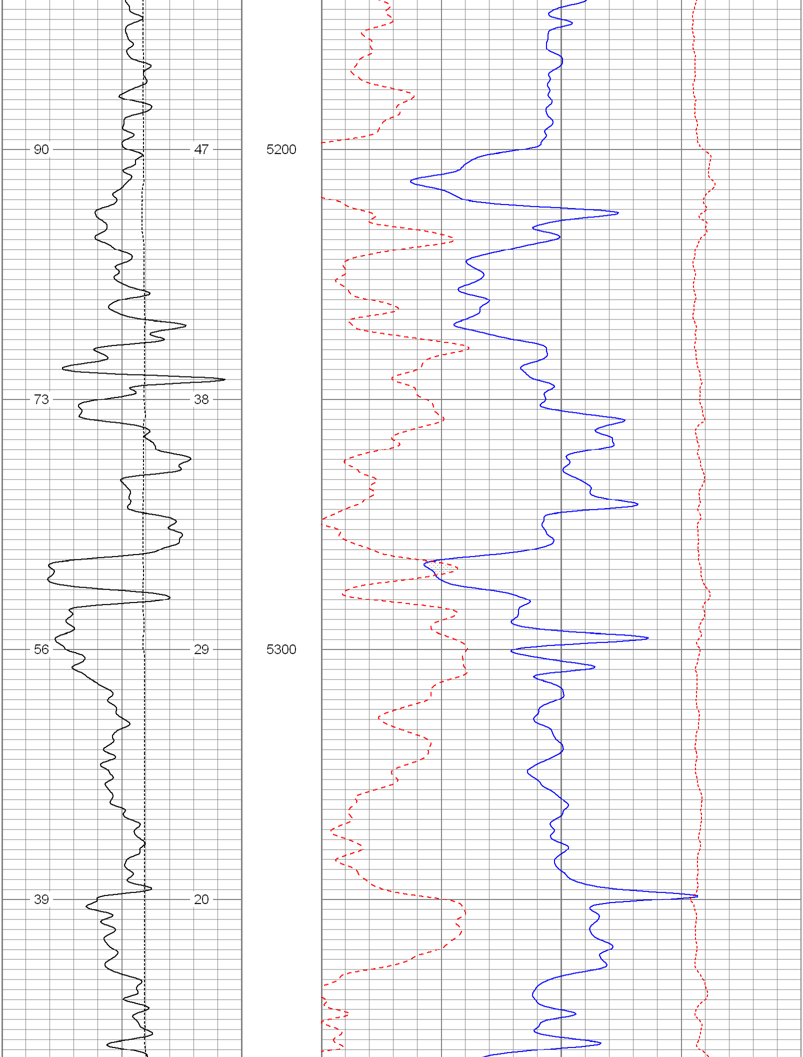


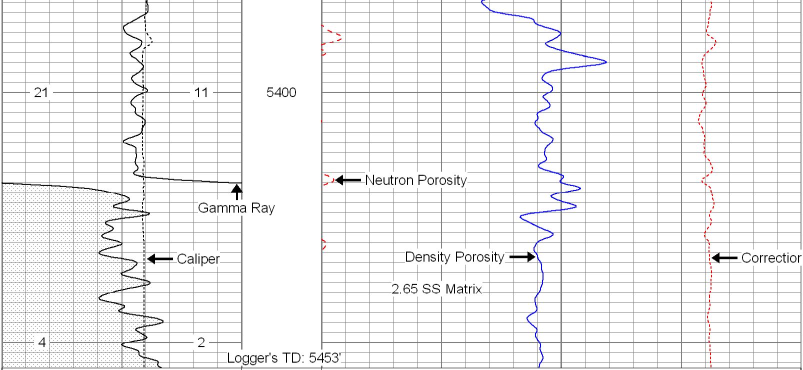






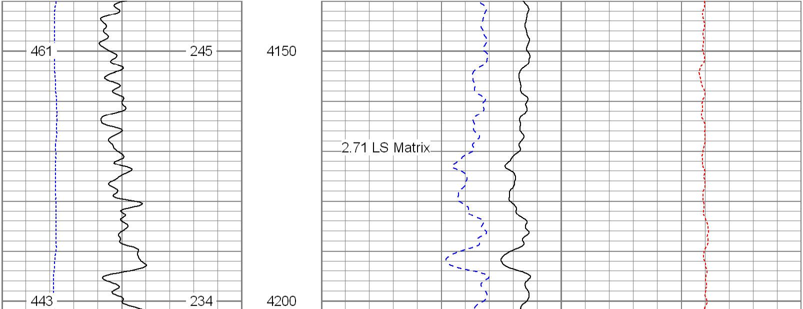
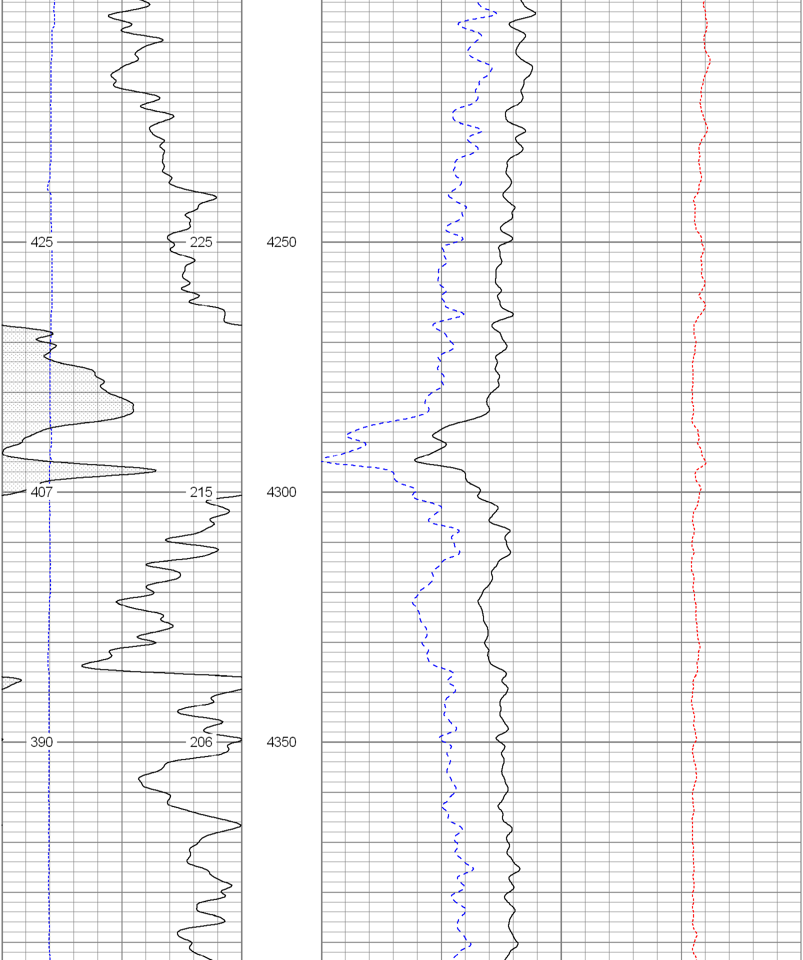
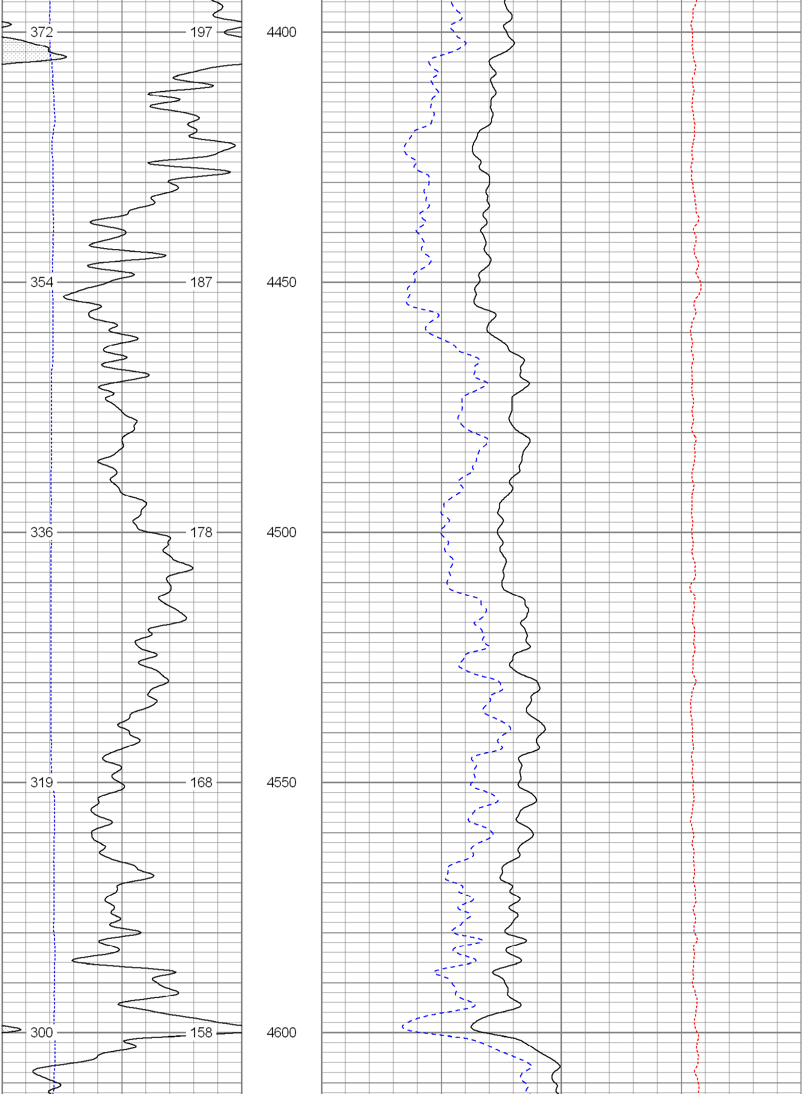
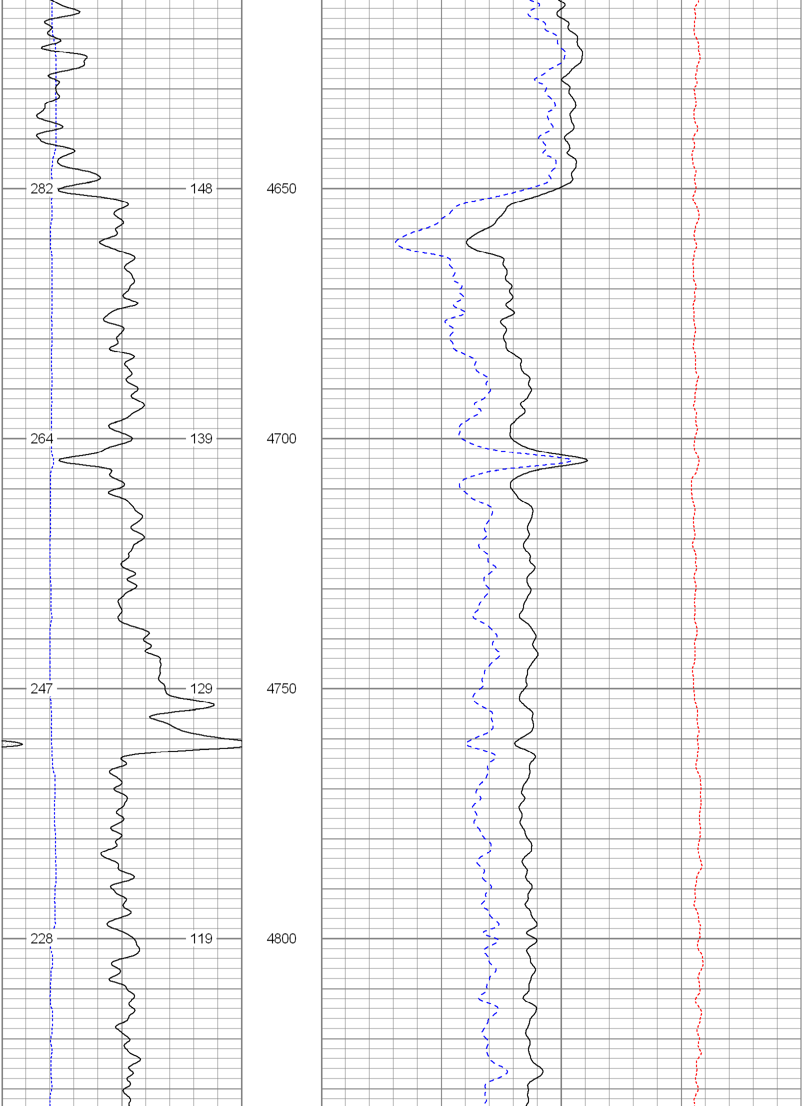
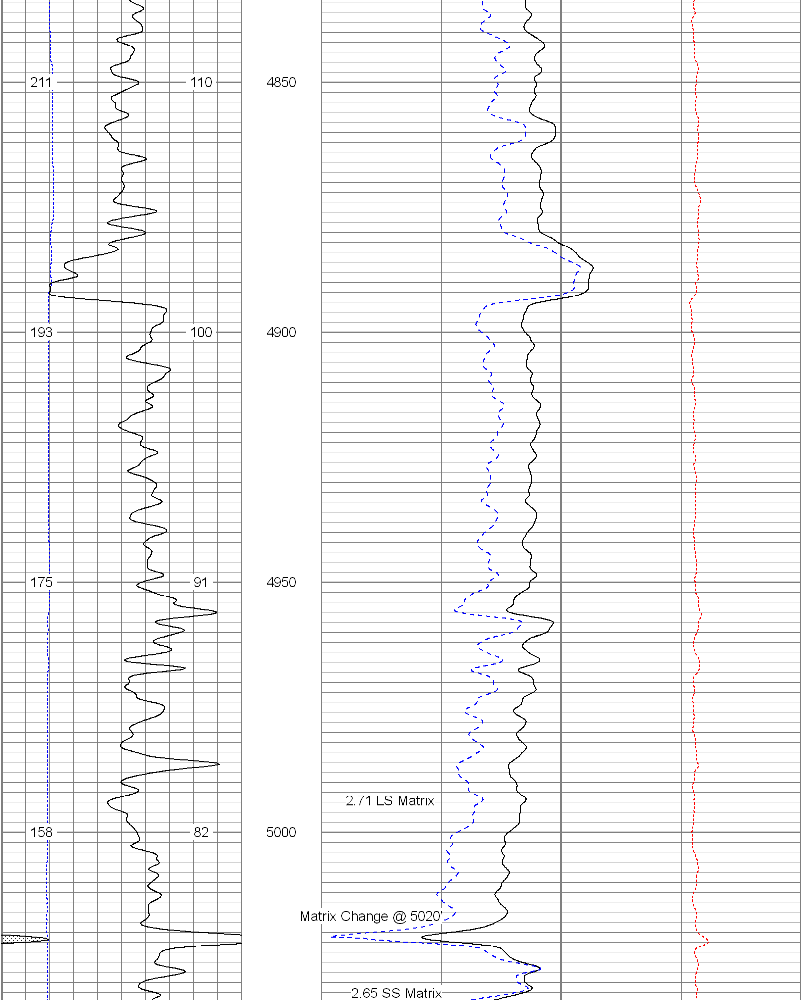
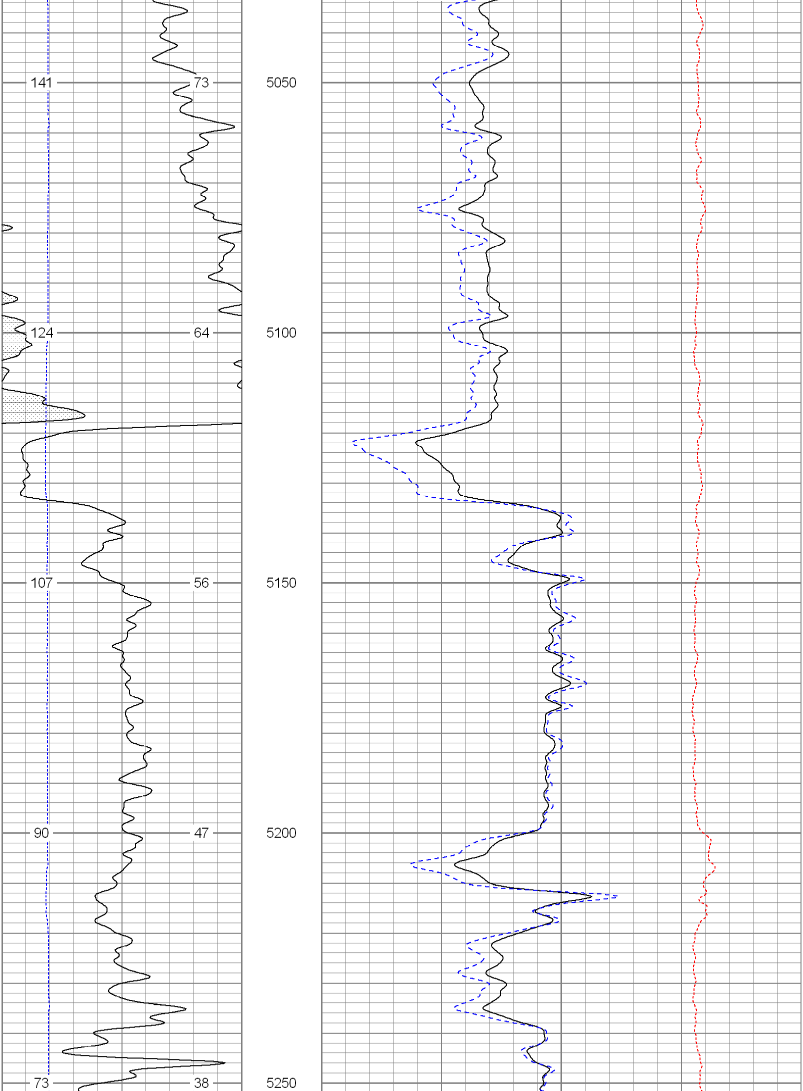
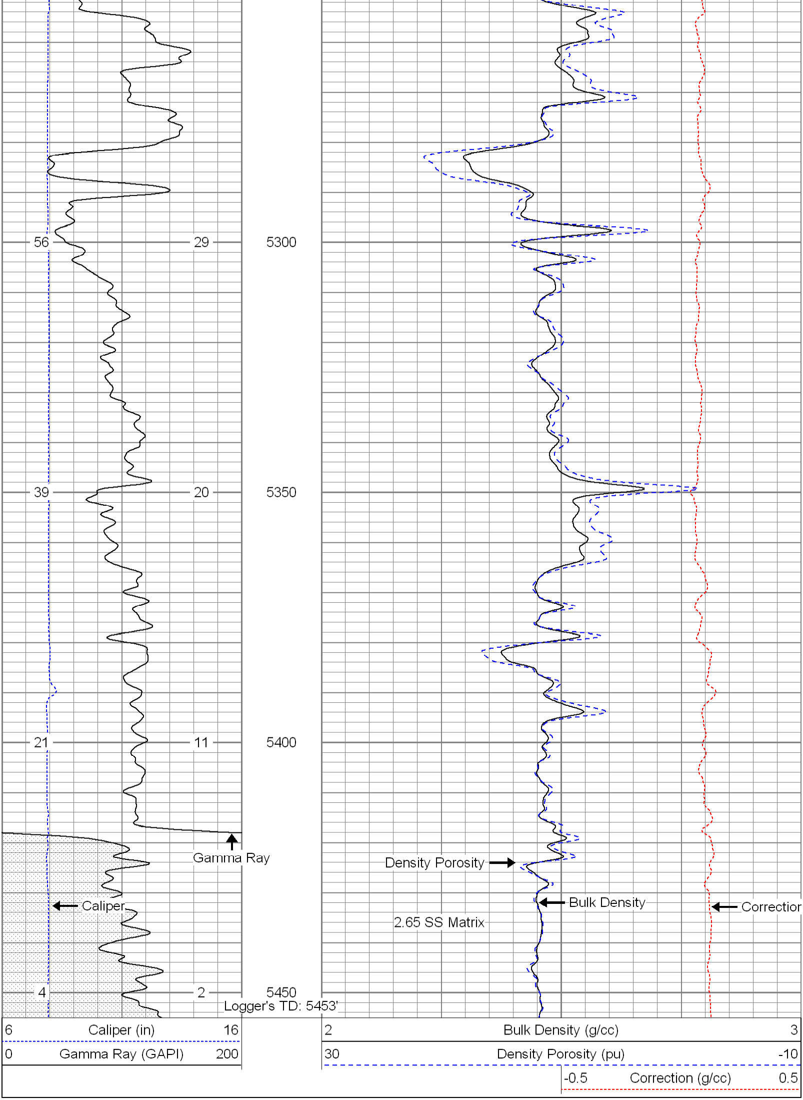






2 Caliper (in) 12		30 Density Porosity (pu) -10	
0 Gamma Ray (GAPI) 200		30 Neutron Porosity (pu) -10	
TBHV (ft3)	ABHV (ft3)		-0.5 Correction (g/cc) 0.5

Database File:	13081.db
Dataset Pathname:	final
Presentation Format:	cdl
Dataset Creation:	Sun Aug 05 13:33:32 2012
Charted by:	Depth in Feet scaled 1:240

6 Caliper (in) 16	2 Bulk Density (g/cc) 3
0 Gamma Ray (GAPI) 200	30 Density Porosity (pu) -10
	-0.5 Correction (g/cc) 0.5