PIONEER

Pioneer Energy Services

Dual Induction Log

API No.
15-101-22,497-00-00

Company **Larson Engineering, Inc.**
Well **Louise #1-20**
Field **Wildcat**
County **Lane** State **Kansas**

Location
NW SW SE NW
2,025' FNL & 1,602' FWL
Sec: 20 Twp: 18S Rge: 28W

Other Services
CNL/CDL
MEL

Elevation
K.B. 2762
D.F.
G.L. 2755

Permanent Datum Ground Level Elevation 2755
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	3/3/2014		
Run Number	One		
Depth Driller	4660		
Depth Logger	4661		
Bottom Logged Interval	4660		
Top Log Interval	250		
Casing Driller	8.625 @ 264		
Casing Logger	261		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	1800		
Density / Viscosity	9.2 / 54		
pH / Fluid Loss	10.5 / 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	.85 @ 68		
Rmf @ Meas. Temp	.64 @ 68		
Rmc @ Meas. Temp	1.15 @ 68		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.47 @ 123		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	123		
Equipment Number	108		
Location	Hays		
Recorded By	J. Long		
Witnessed By	Vern Schrag		

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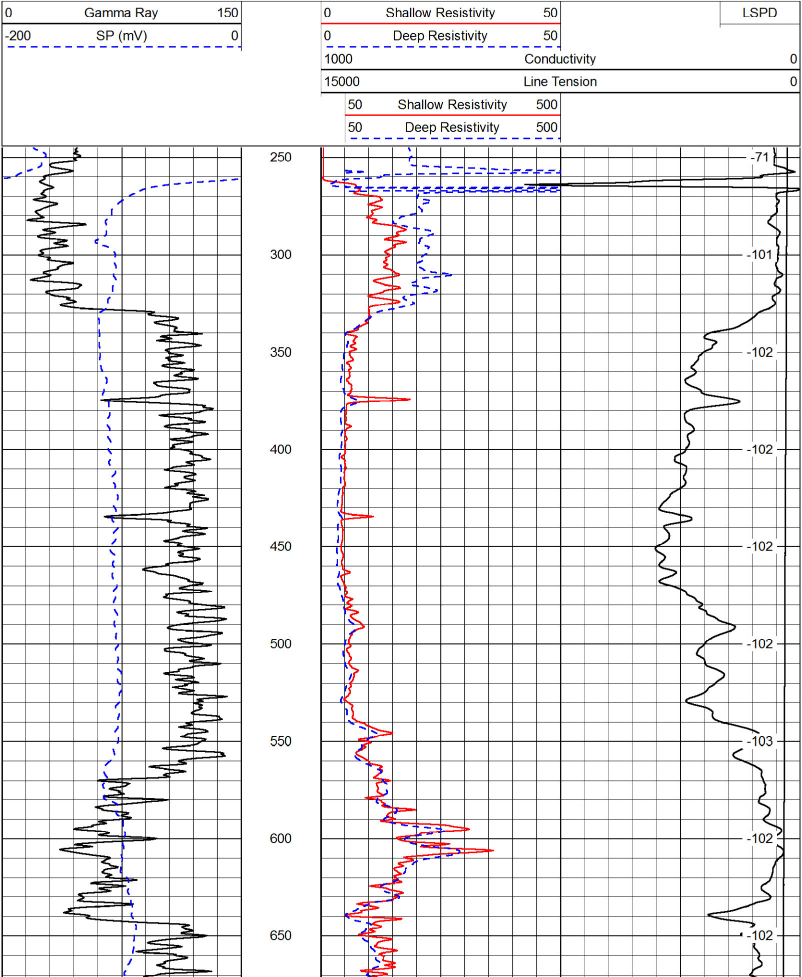
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

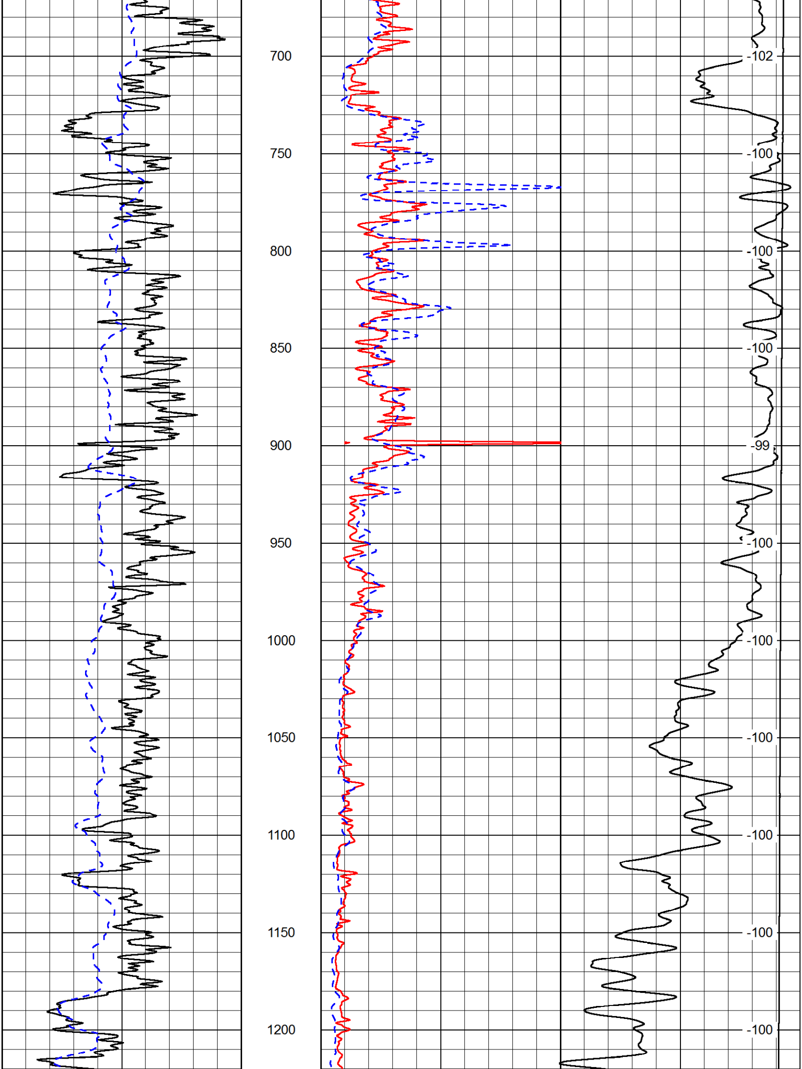
Comments

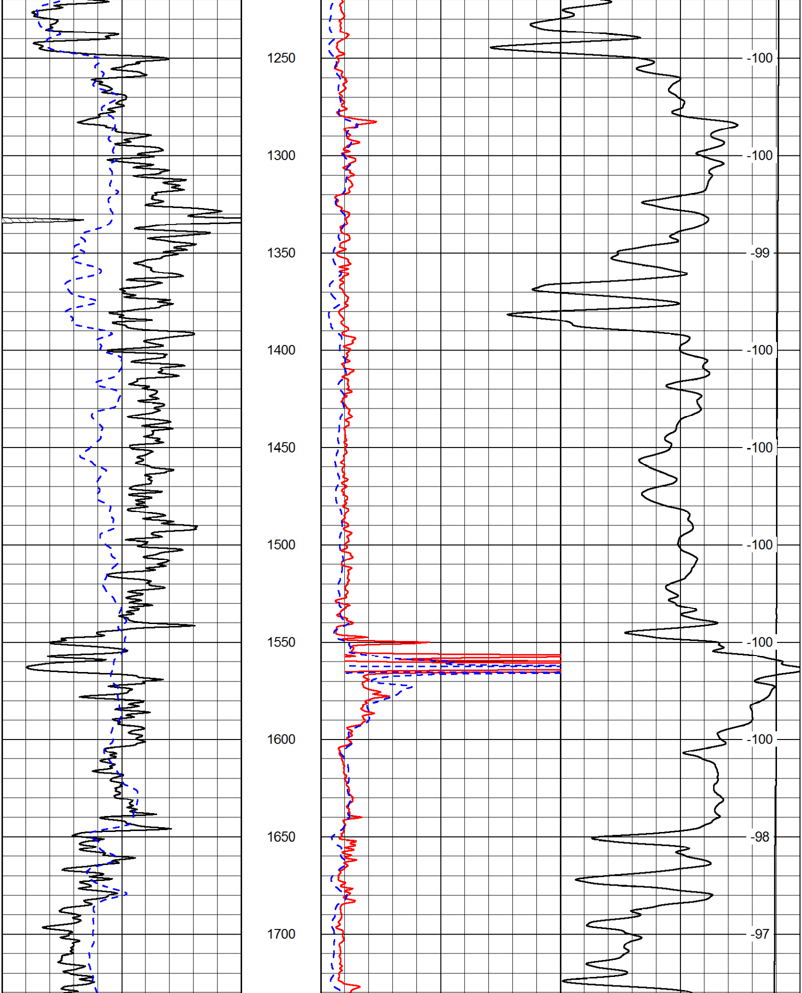
Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

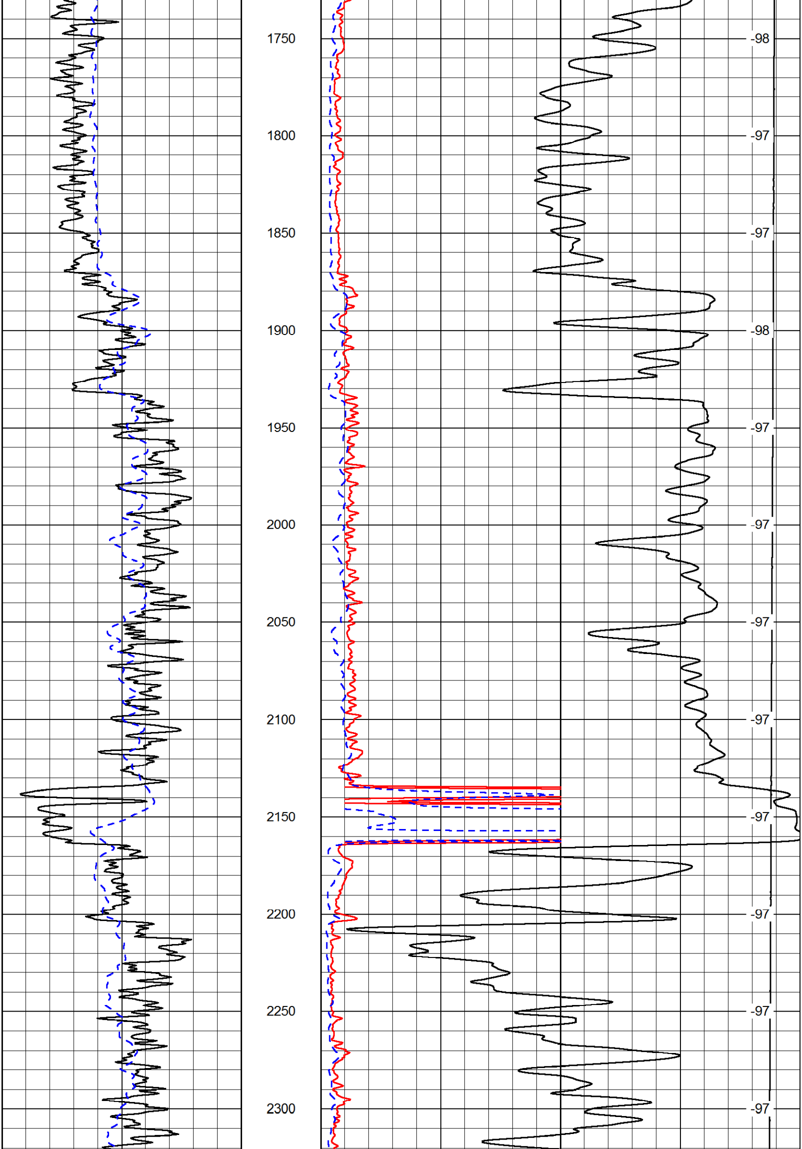
Dighton, 1 East to Longhorn Road, 1/2 South, East Into

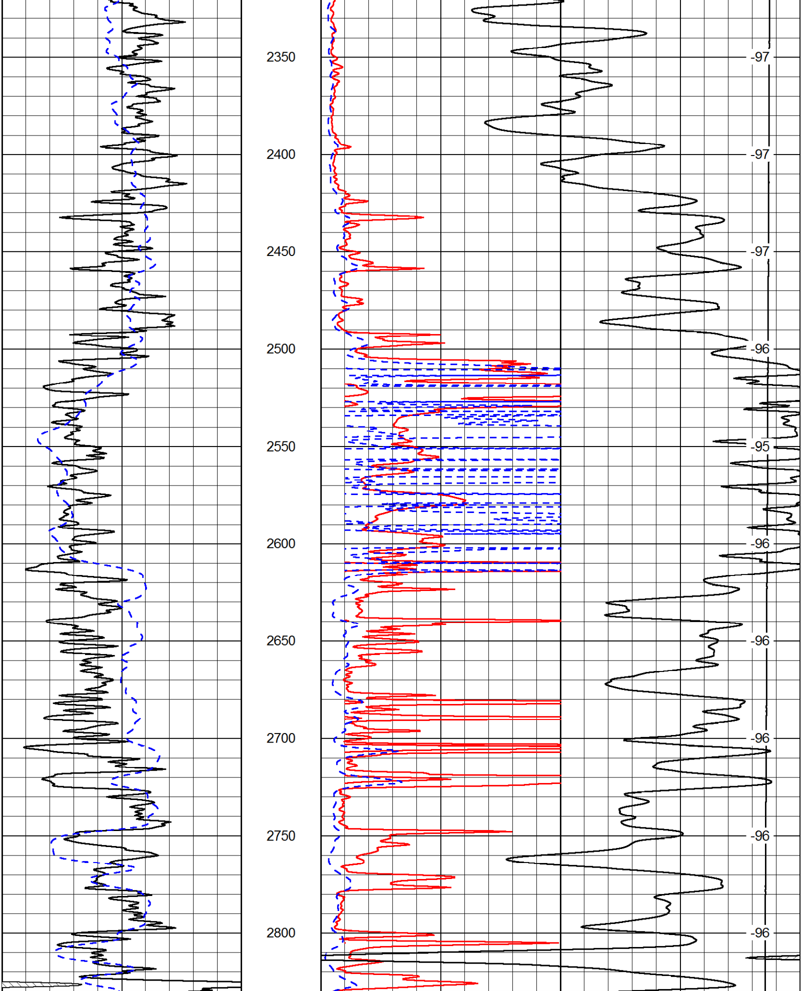
Database File: c:\warrior\data\larson_louise #1-20\larson_louise_1-20hd.db
Dataset Pathname: dil/larsstck
Presentation Format: dil2in
Dataset Creation: Mon Mar 03 22:11:25 2014
Charted by: Depth in Feet scaled 1:600

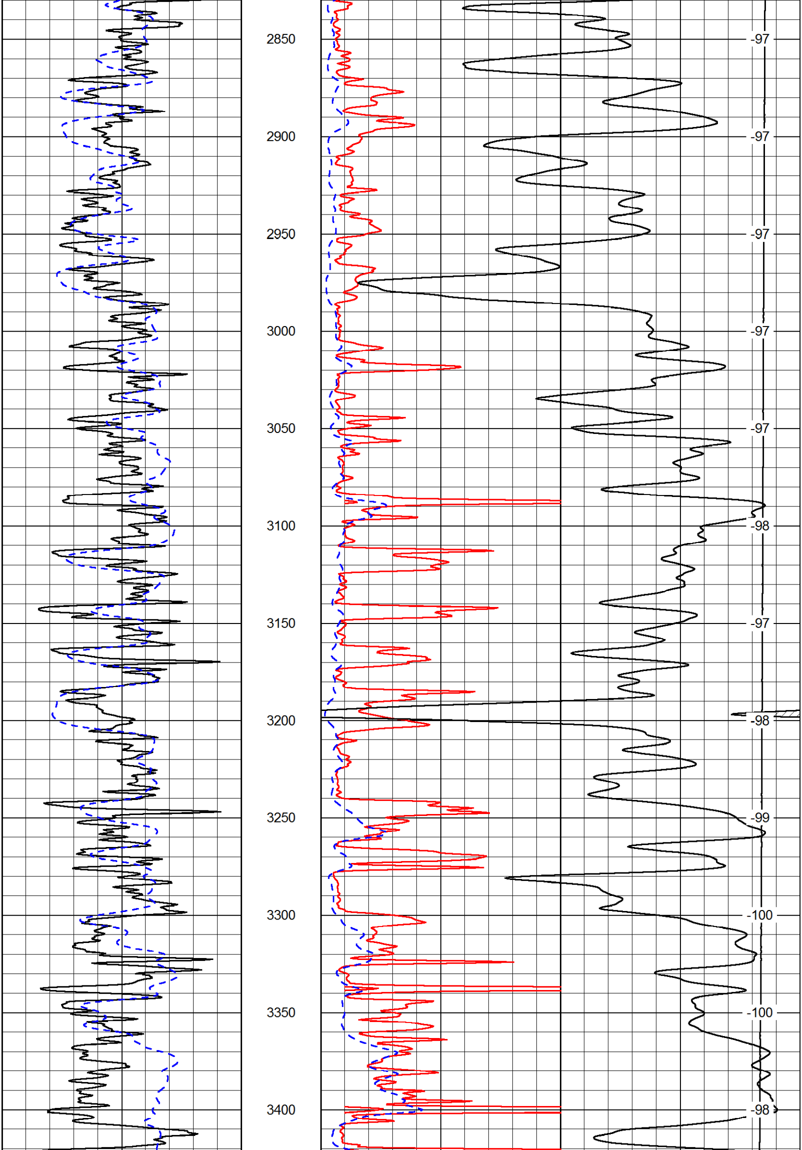


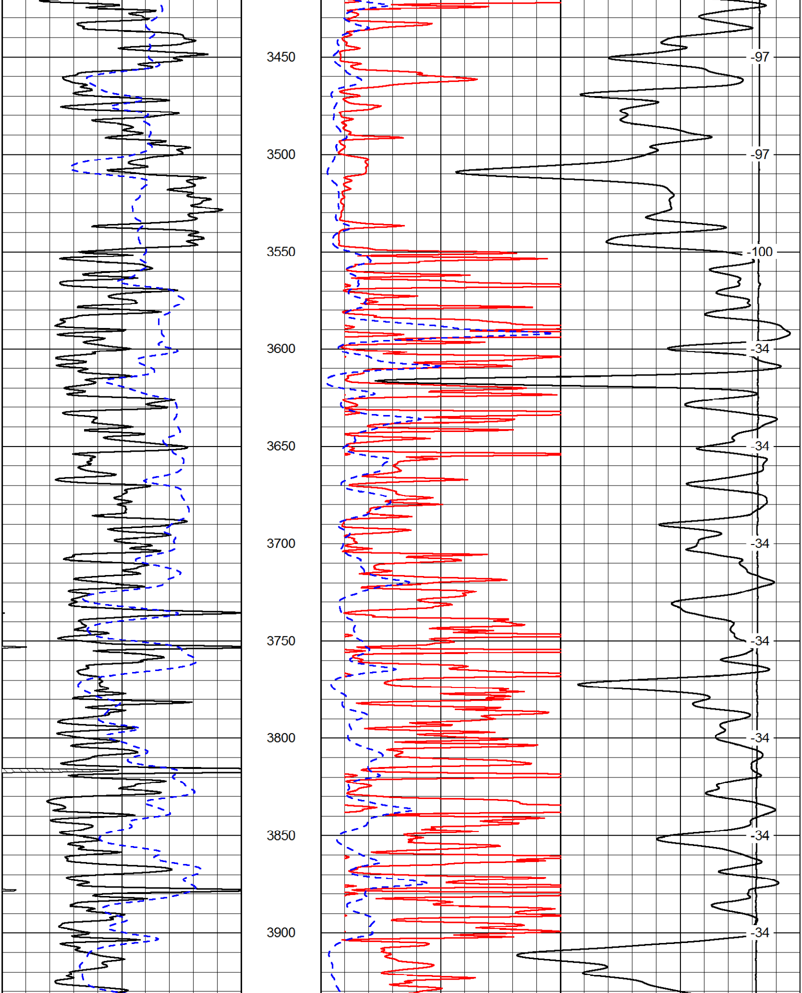


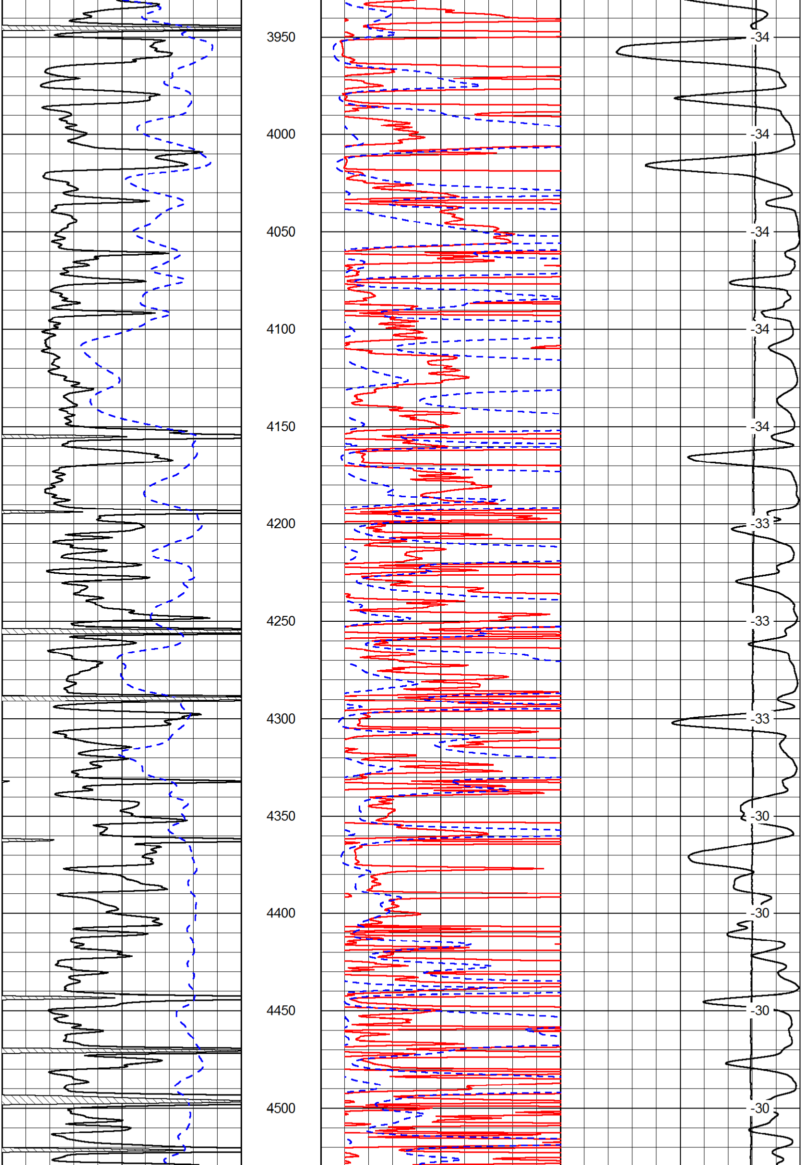


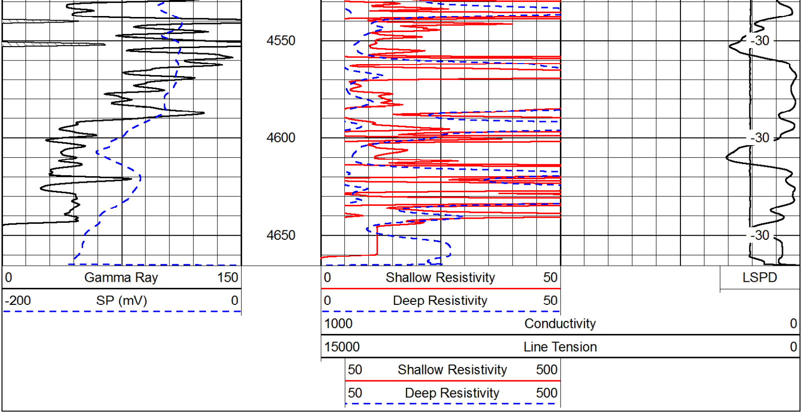












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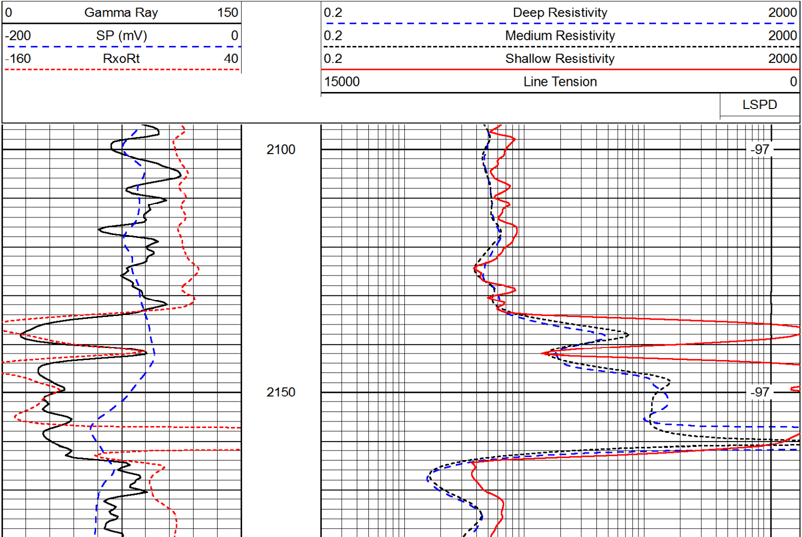
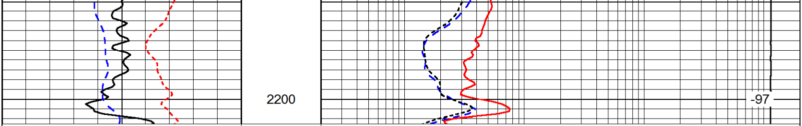
Presentation Format: dil
Dataset Creation: Mon Mar 03 22:11:25 2014
Charted by: Depth in Feet scaled 1:240





0 Gamma Ray 150

-200 SP (mV) 0

-160 RxoRt 40

0.2 Deep Resistivity 2000

0.2 Medium Resistivity 2000

0.2 Shallow Resistivity 2000

15000 Line Tension 0

LSPD

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Charted by:	Depth in Feet scaled 1:240

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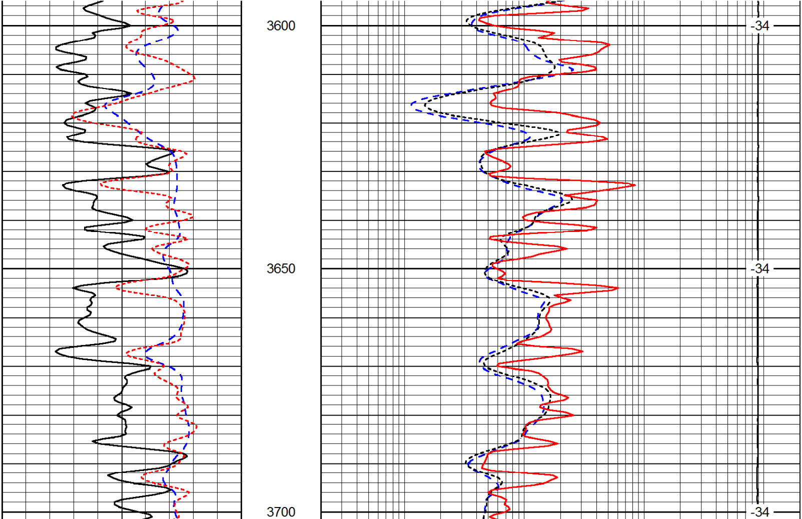
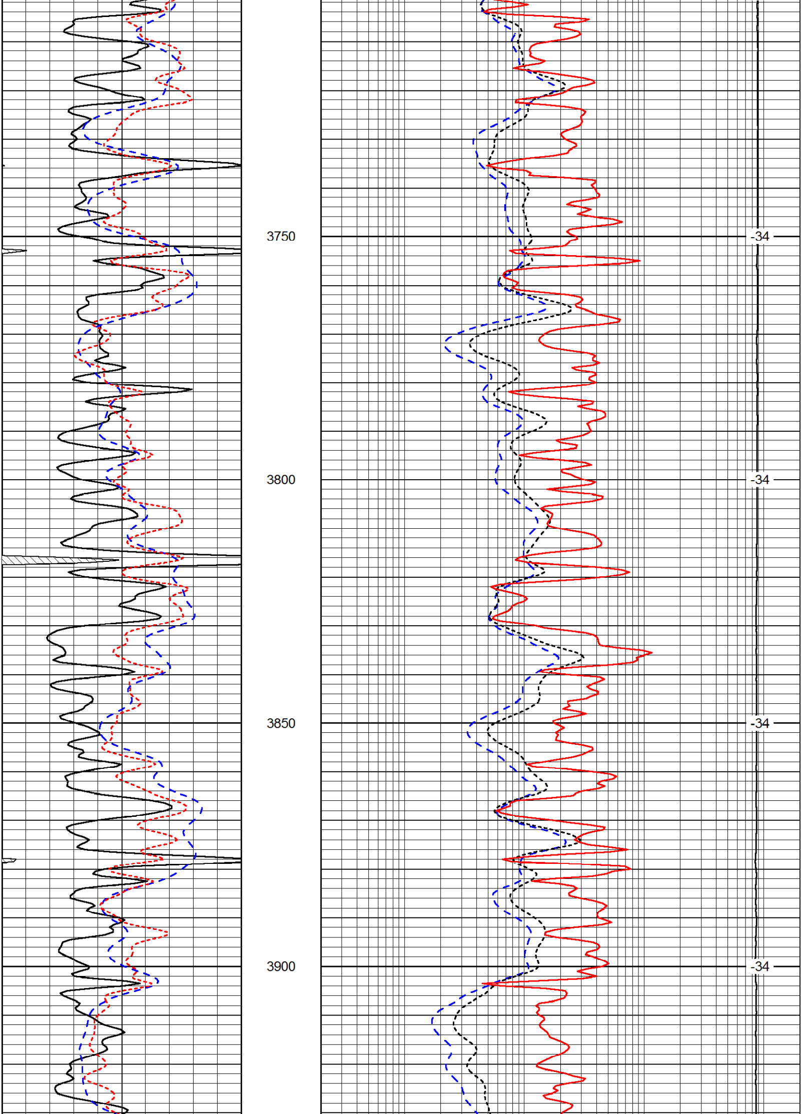
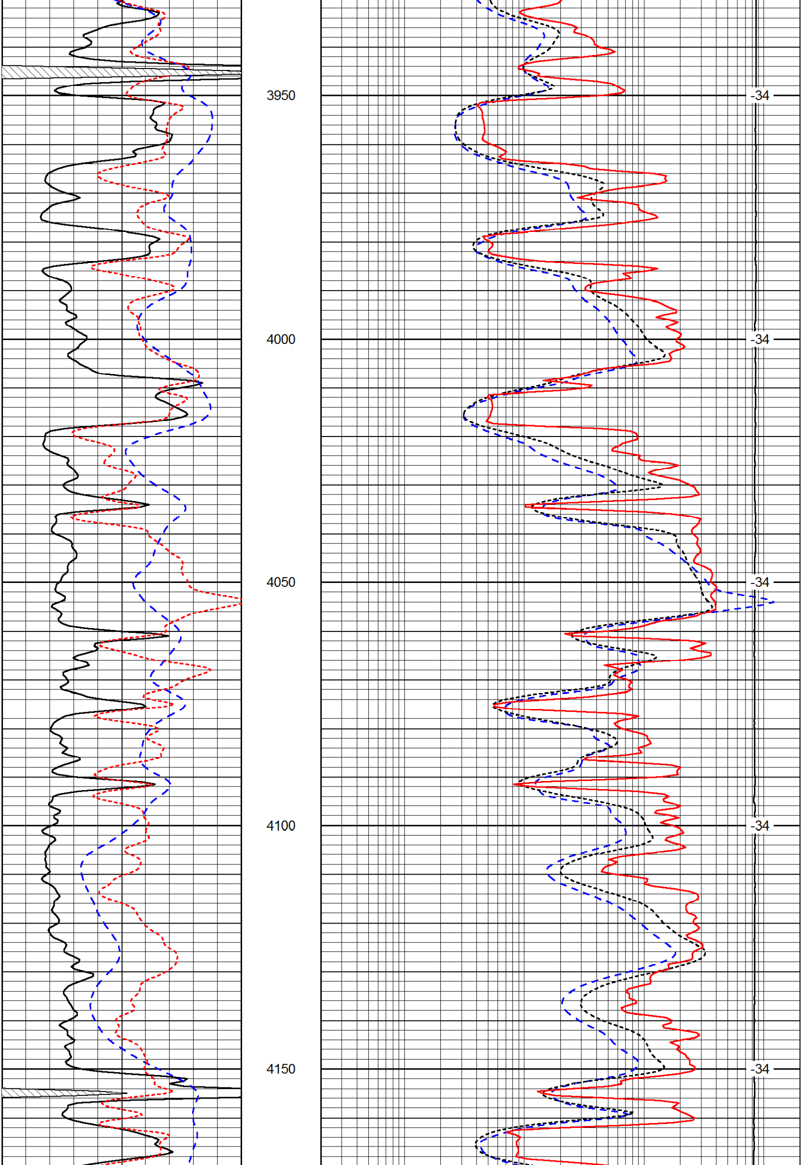
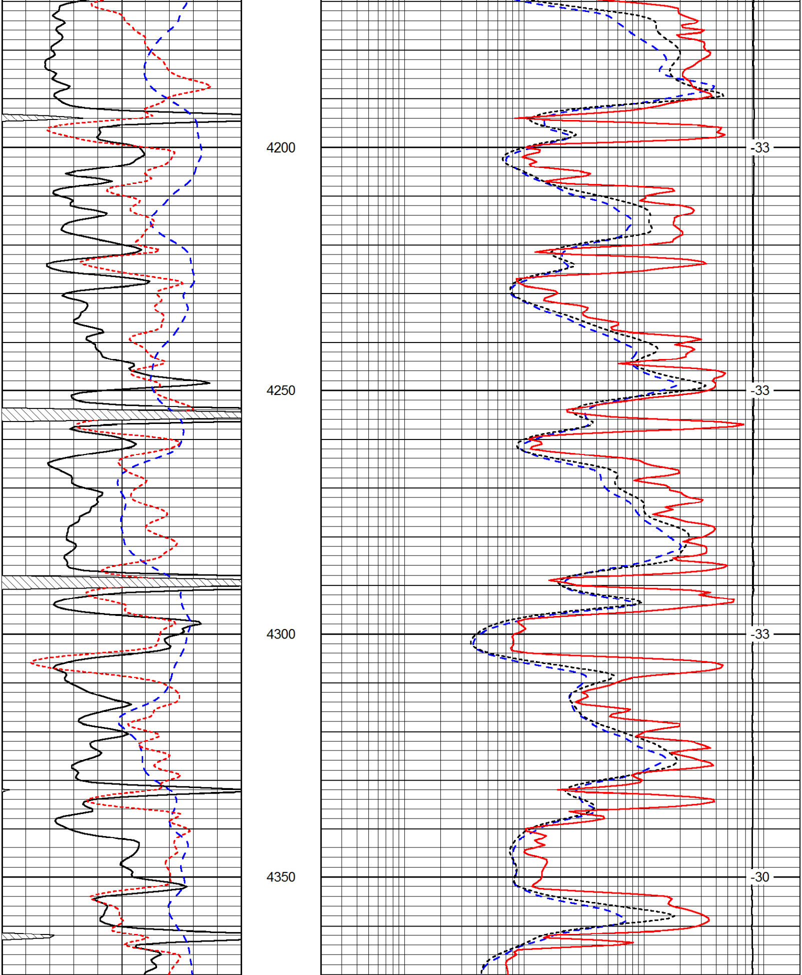
15000 Line Tension 0

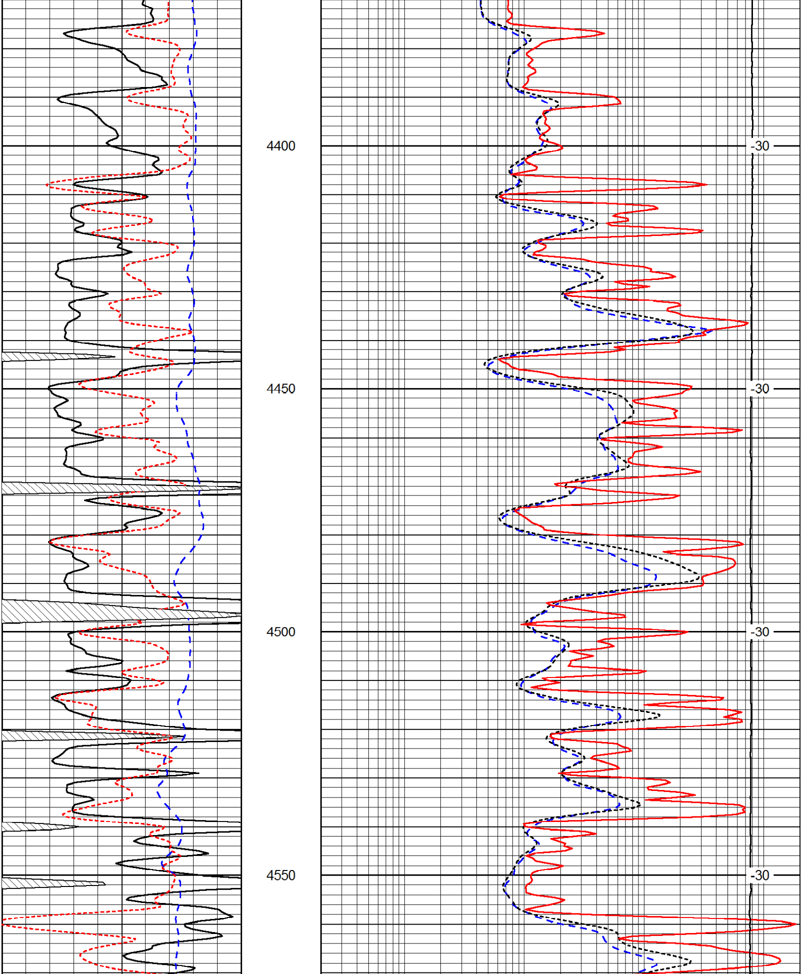
LSPD

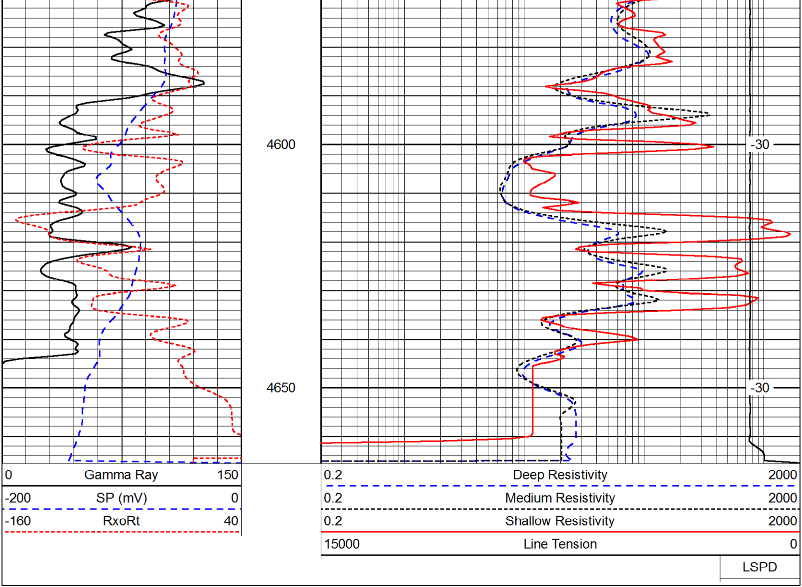











4600
4650
-30
-30
0 Gamma Ray 150
-200 SP (mV) 0
-160 RxoRt 40
0.2 Deep Resistivity 2000
0.2 Medium Resistivity 2000
0.2 Shallow Resistivity 2000
15000 Line Tension 0
LSPD