HIGH RESOLUTION COMPENSATED DENSITY SIDEWALL NEUTRON LOG

Company	BRATCO OPERATING COMPANY
Well	VERNON # 1
Field	CANEY WEST
County	CHAUTAUQUA
State	KANSAS

Company BRATCO OPERATING COMPANY

Well VERNON # 1

Field CANEY WEST

County CHAUTAUQUA **State** KANSAS

Location: API # : 15-019-27356-0000

NW NE
990' FNL & 2090' FEL

SEC 15 TWP 35S RGE 13E

Other Services
DIL

Permanent Datum	GL	Elevation	799' est
Log Measured From	GL		
Drilling Measured From	GL		

Elevation
K.B. ---
D.F. ---
G.L. 799' est

Date	10-23-2013		
Run Number	ONE		
Depth Driller	2005'		
Depth Logger	2005'		
Bottom Logged Interval	2003'		
Top Log Interval	SURFACE		
Casing Driller	8 5/8" @ 556'		
Casing Logger	8 5/8" @ 556'		
Bit Size	7 7/8"		
Type Fluid in Hole	WATER		
Density / Viscosity			
pH / Fluid Loss			
Source of Sample			
Rm @ Meas. Temp			
Rmf @ Meas. Temp			
Rmc @ Meas. Temp			
Source of Rmf / Rmc			
Rm @ BHT			
Time Circulation Stopped			
Time Logger on Bottom			
Maximum Recorded Temperature			
Equipment Number	OW2		
Location	HOMINY ,OK		
Recorded By	LOWERY		
Witnessed By	MR. ROUNTREE		

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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

OW2-8471
MATRIX LIMESTONE 2.71 G/CC
ABHV COMPUTED WITH 5 1/2" CASING

CREW : KIDD

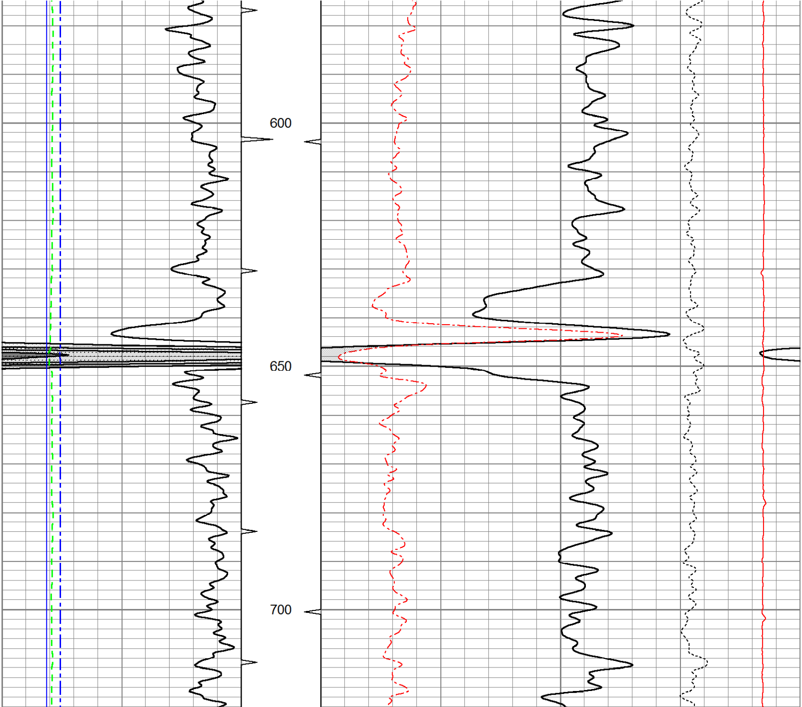
5" CDL/SWN SECTION

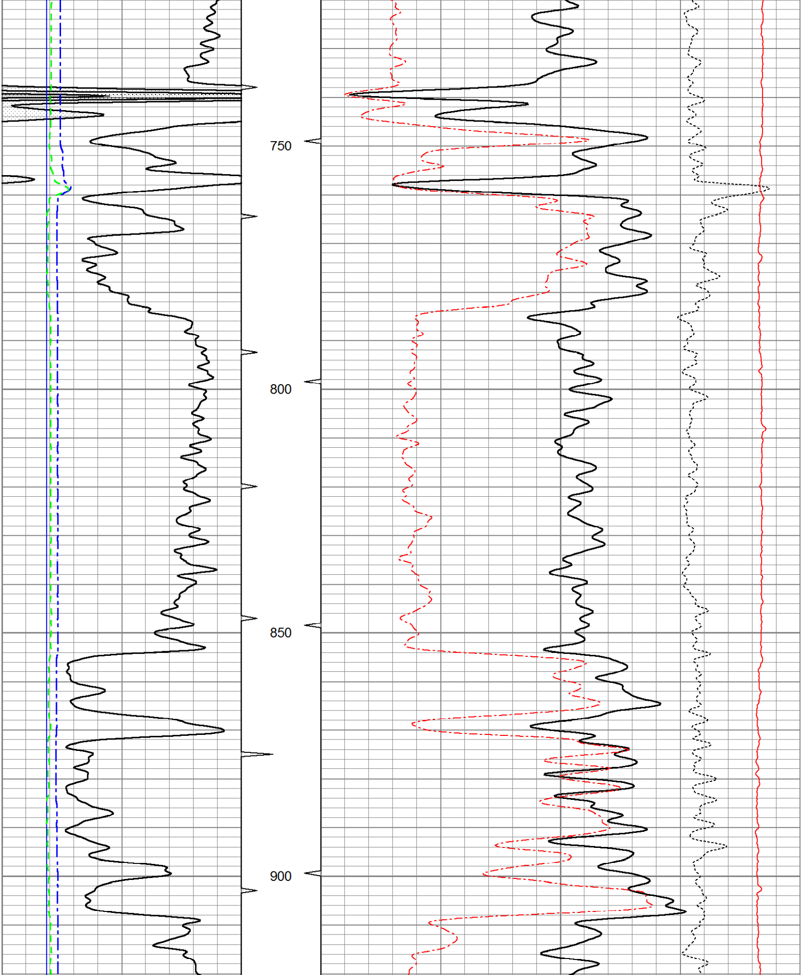
Database File:	ow2-8471 bratco operating.db
Dataset Pathname:	CDL/merge2
Presentation Format:	_neu6
Dataset Creation:	Wed Oct 23 20:37:56 2013
Charted by:	Depth in Feet scaled 1:240

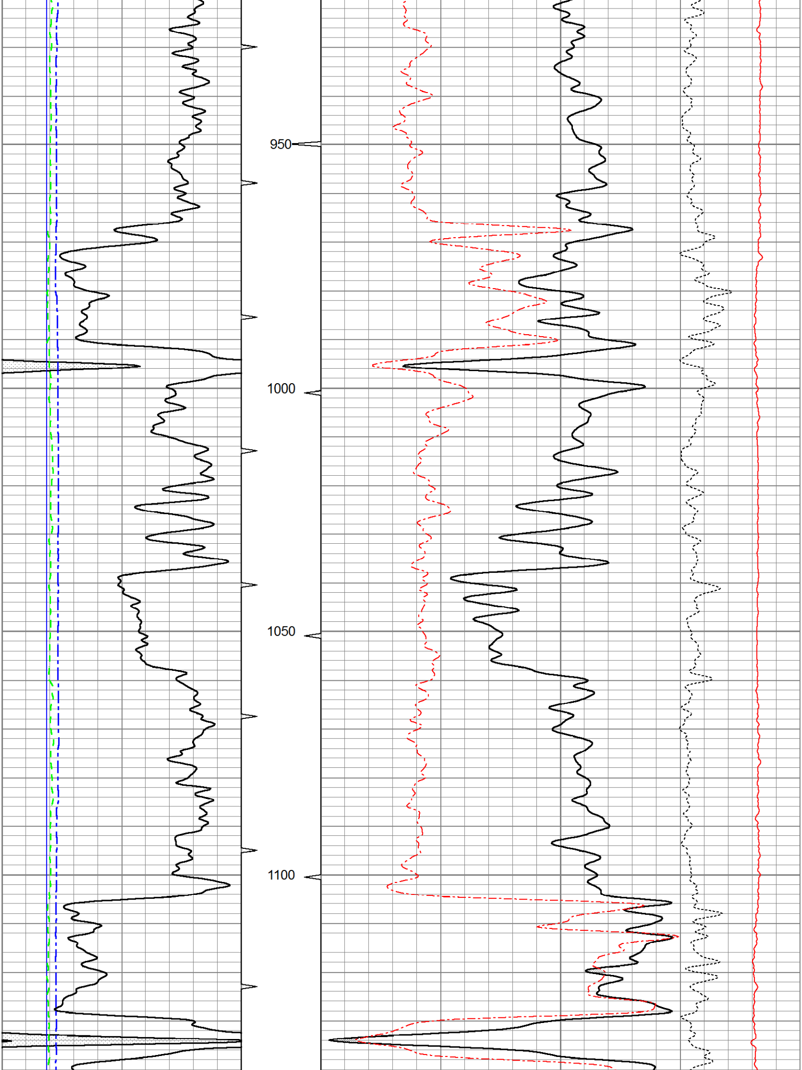
0 Gamma Ray (GAPI) 150
6 Bit size (in) 16
6 Density Caliper (in) 16
6 Neutron Caliper (in) 16

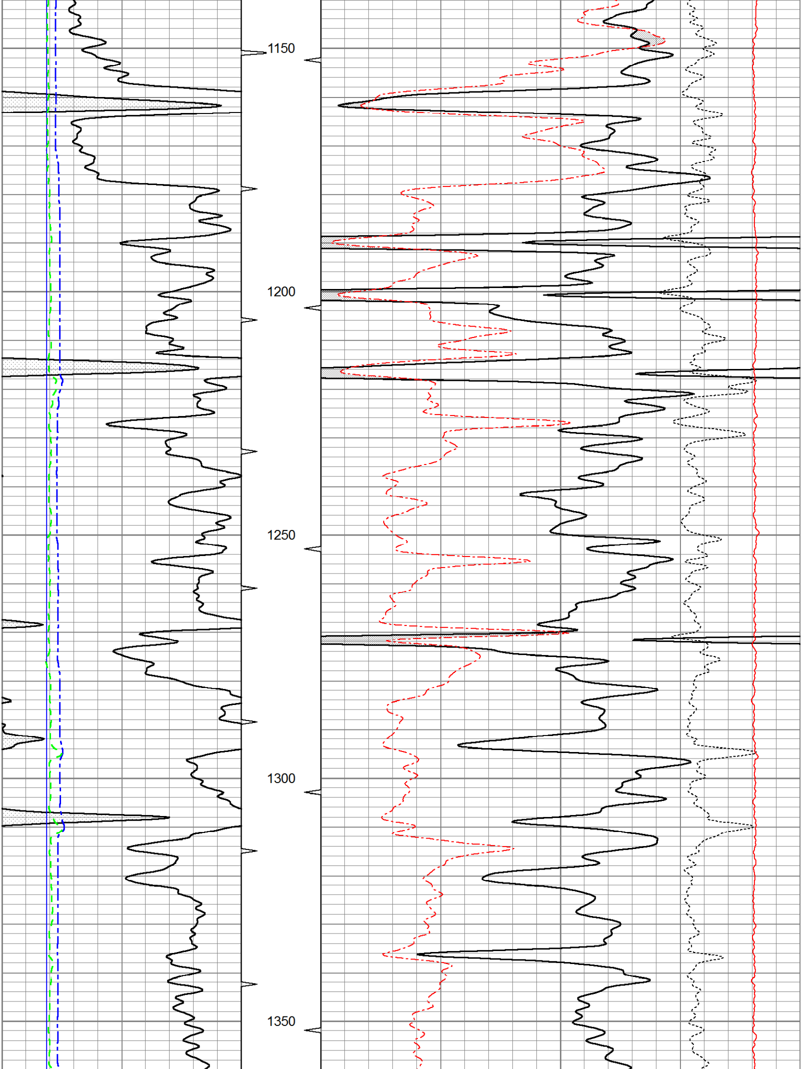
TBHV
ABHV

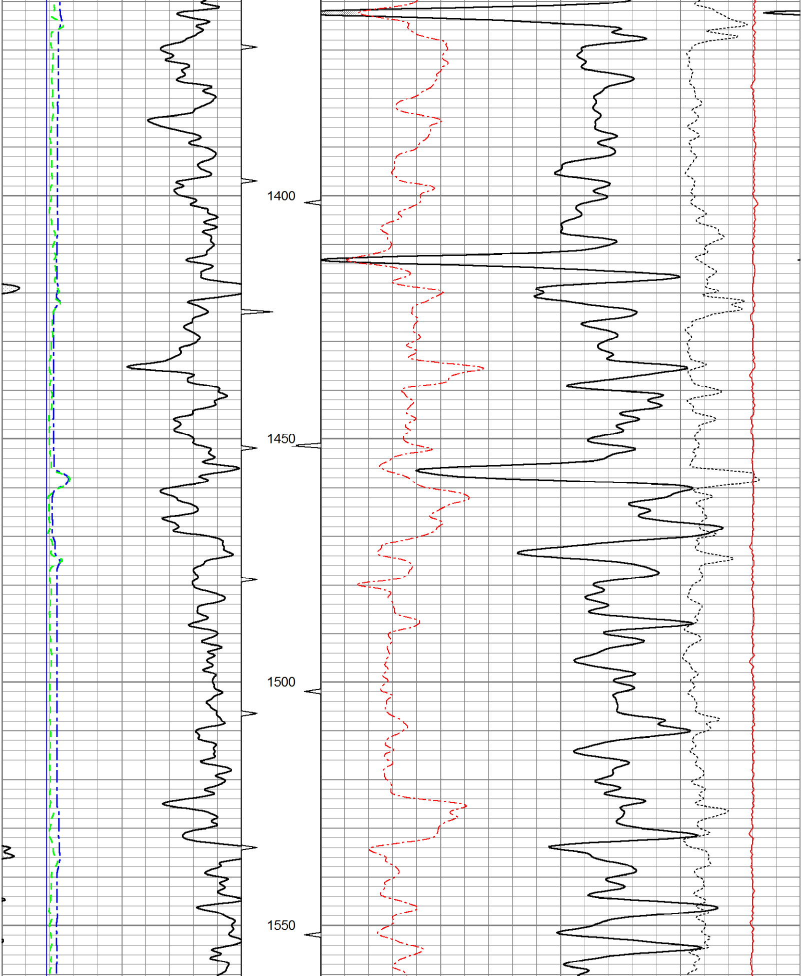
30 Density Porosity (pu) -10
30 Neutron Porosity (pu) -10
-0.5 Correction (g/cc) 0.5
5000 Line Tension (lb) 0

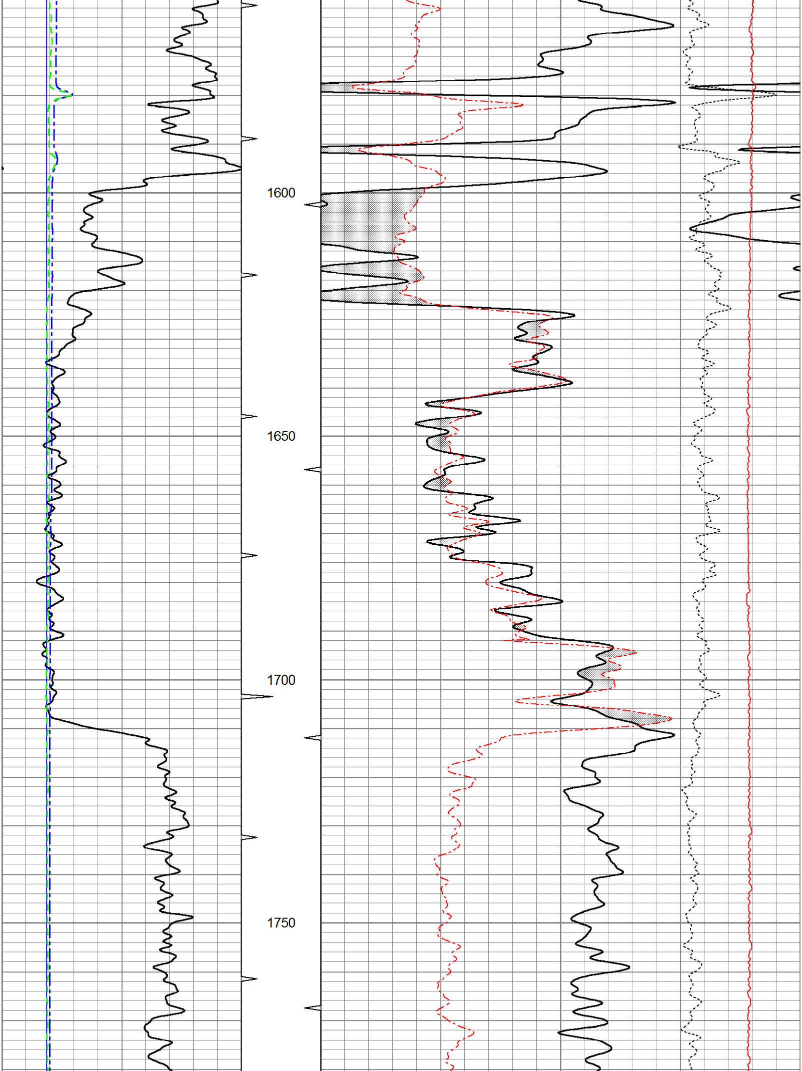


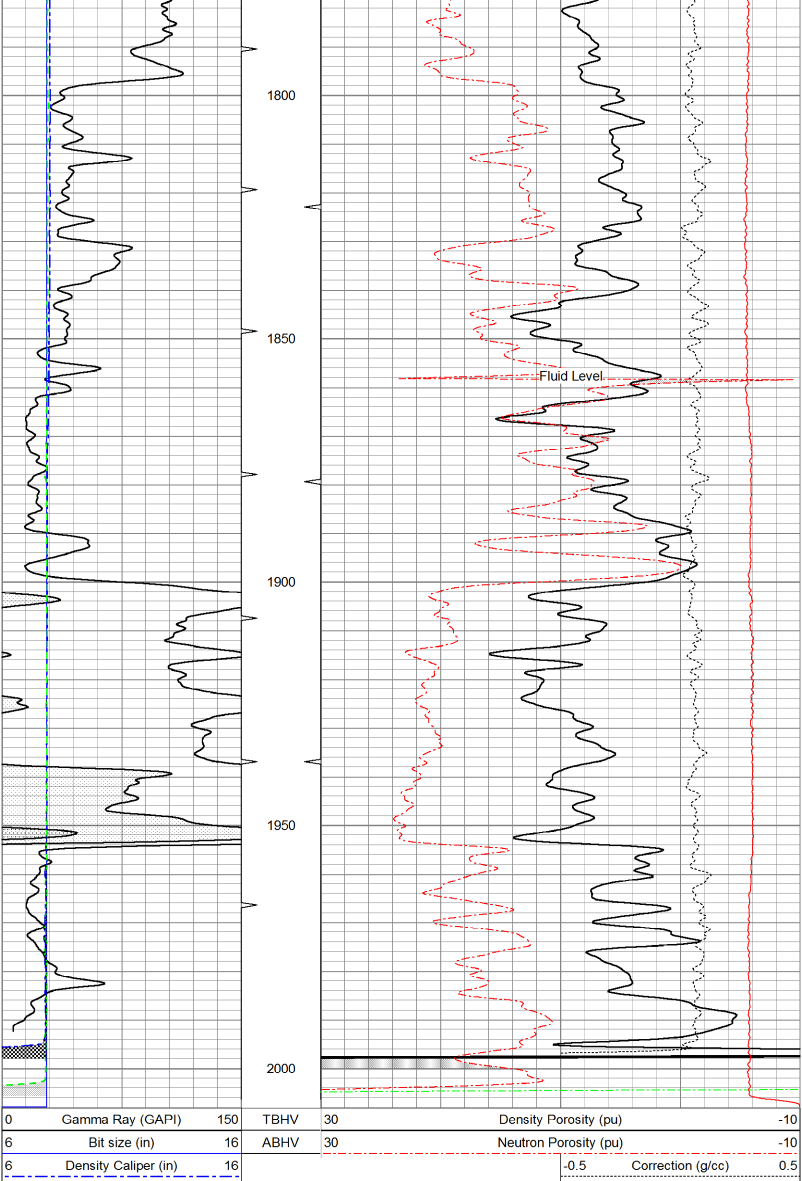












6 Neutron Caliper (in) 16

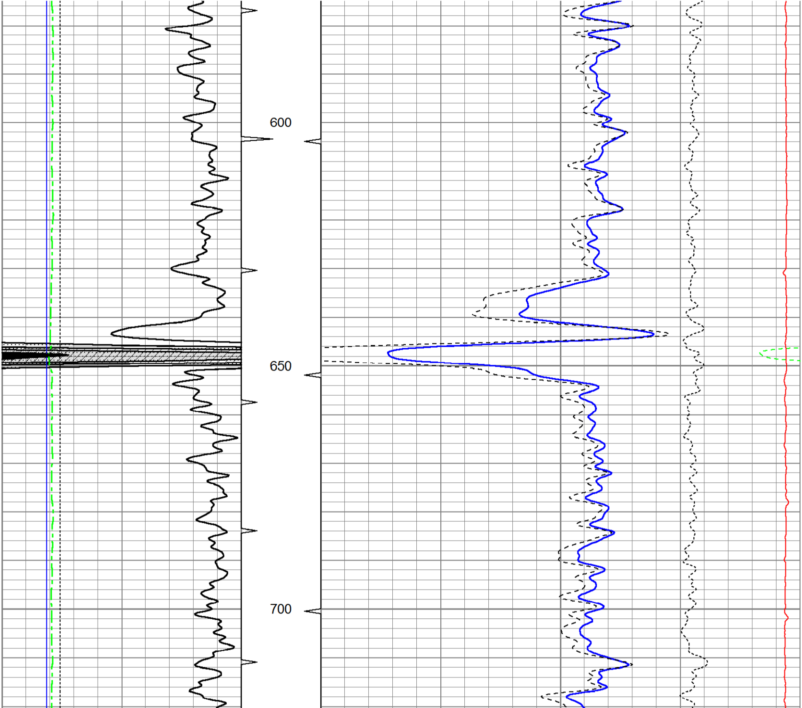
5000 Line Tension (lb) 0

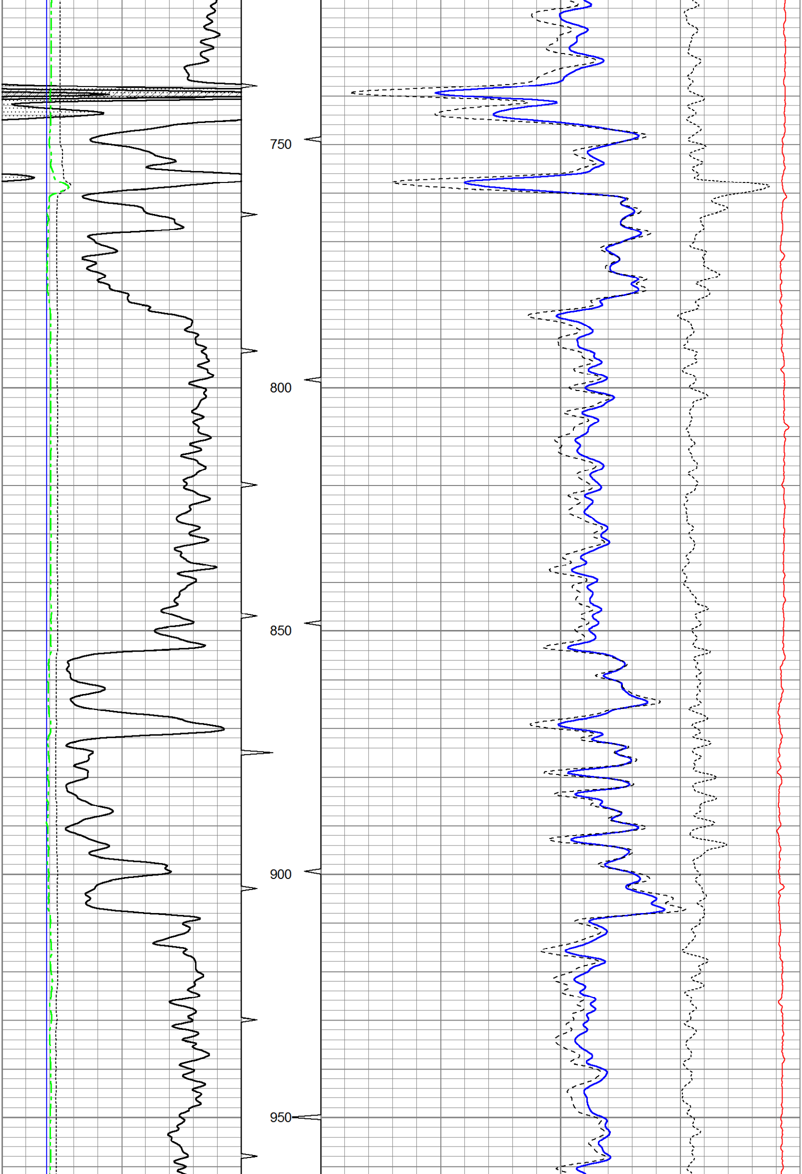
OSAGE WIRELINE

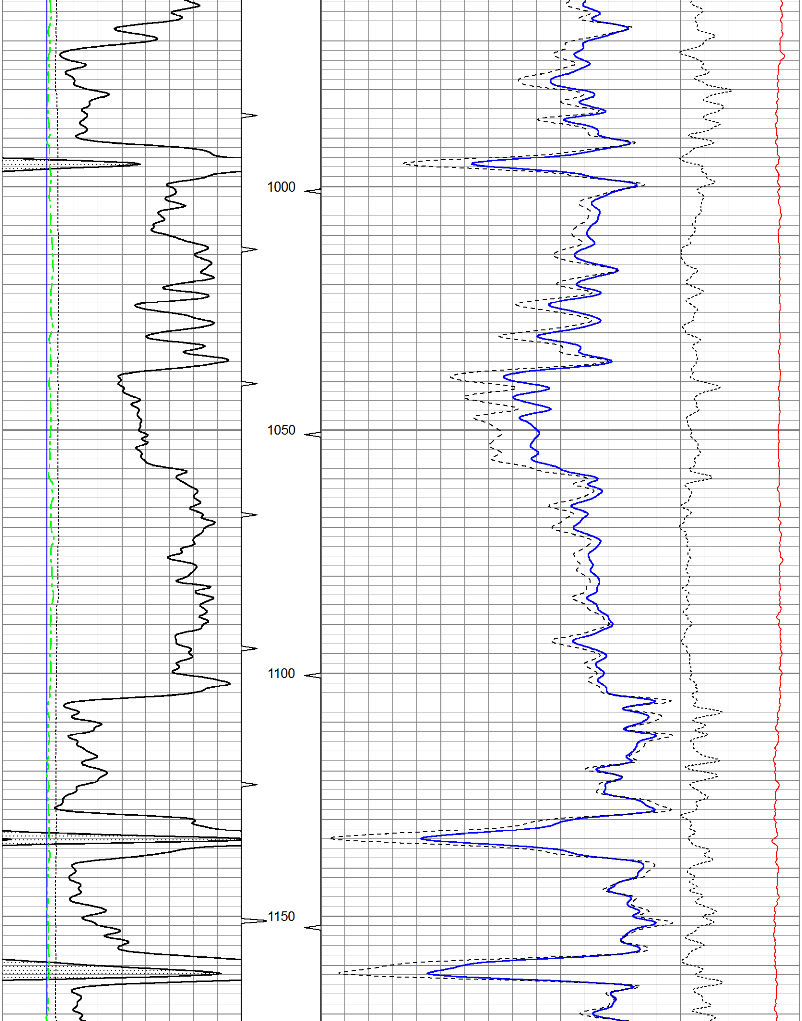
5" CDL SECTION

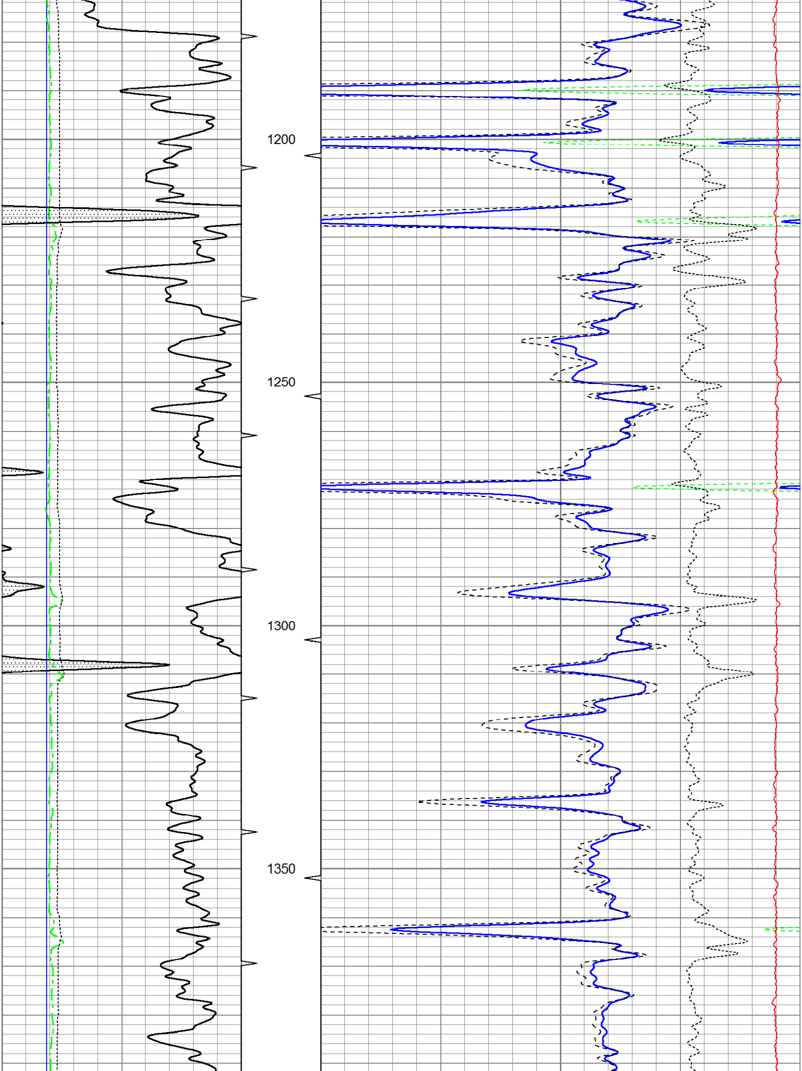
Database File:	ow2-8471 bratco operating.db
Dataset Pathname:	CDL/merge1
Presentation Format:	bulk6
Dataset Creation:	Wed Oct 23 20:37:52 2013
Charted by:	Depth in Feet scaled 1:240

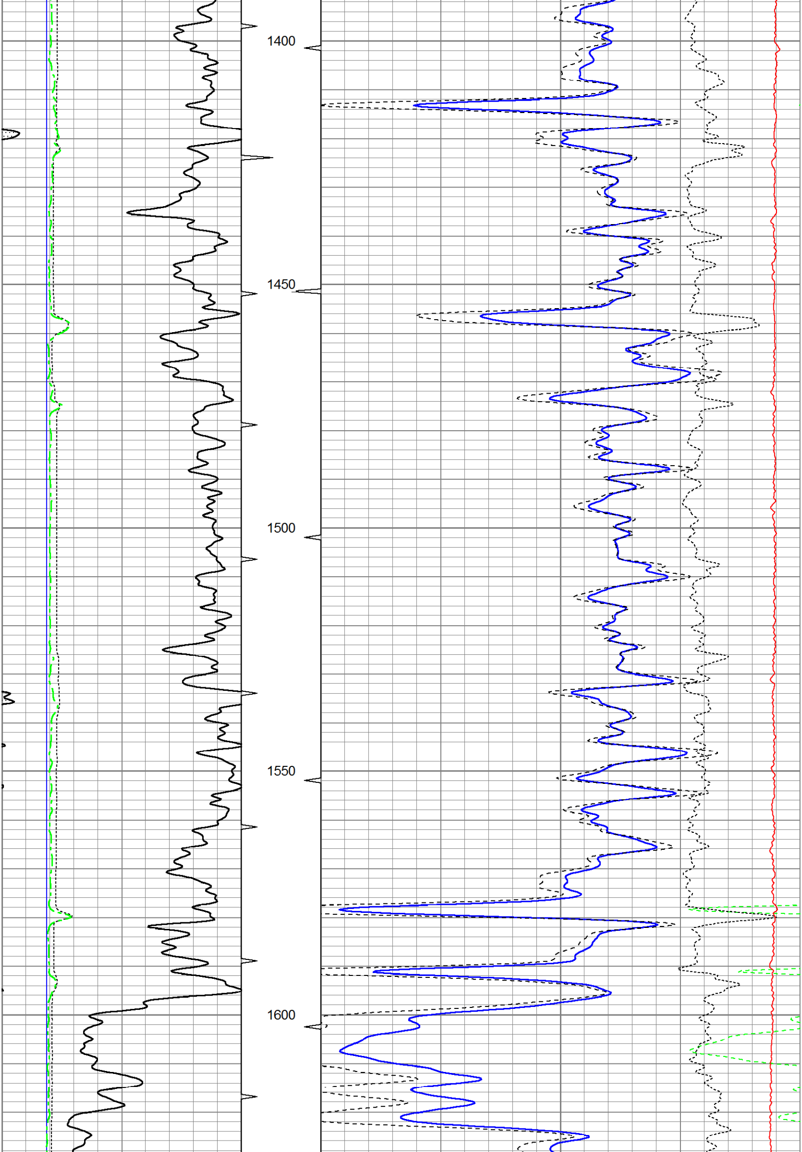
0 Gamma Ray (GAPI) 150	TBHV	2 Bulk Density (g/cc) 3
6 Bit size (in) 16	ABHV	30 Density porosity (pu) -10
6 Density Caliper (in) 16		-0.5 Correction (g/cc) 0.5
6 Neutron Caliper (in) 16		5000 Line Tension (lb) 500

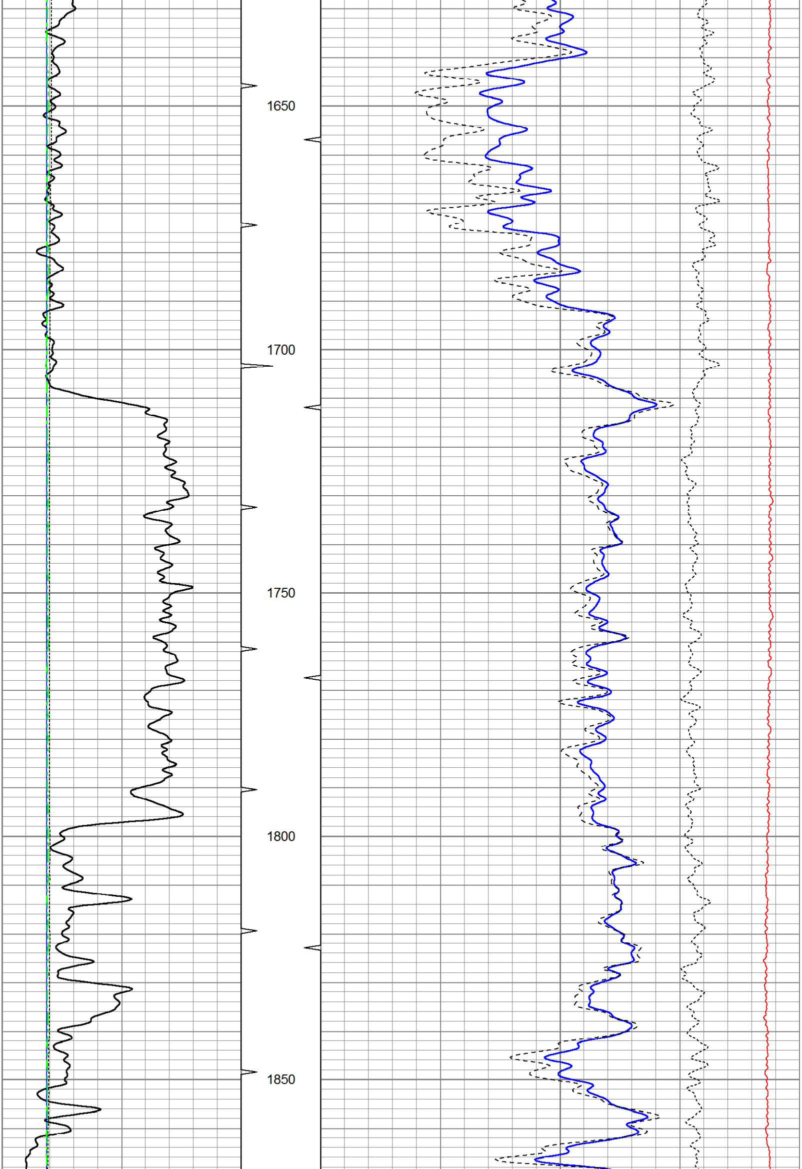


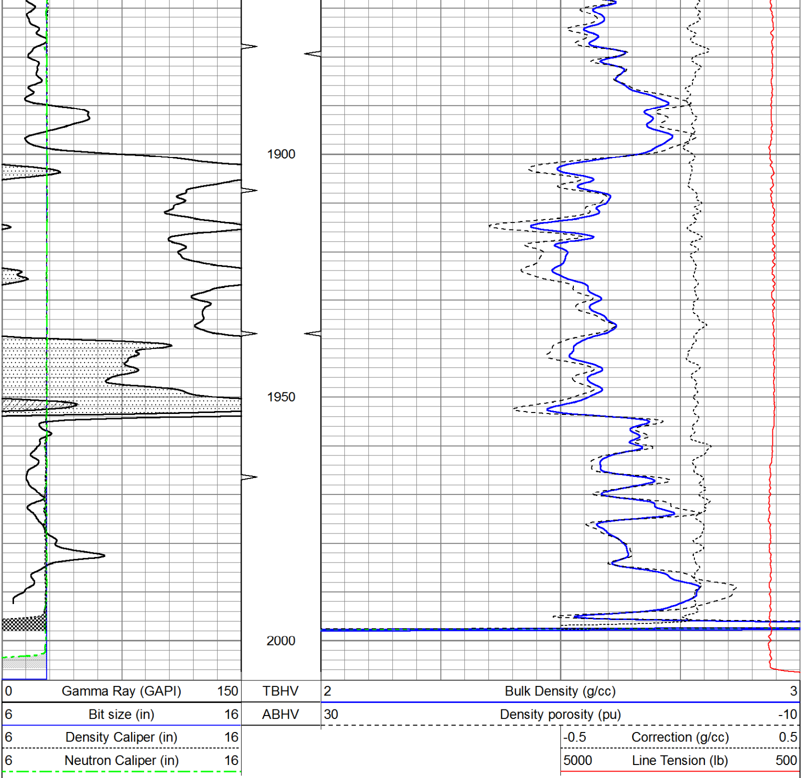






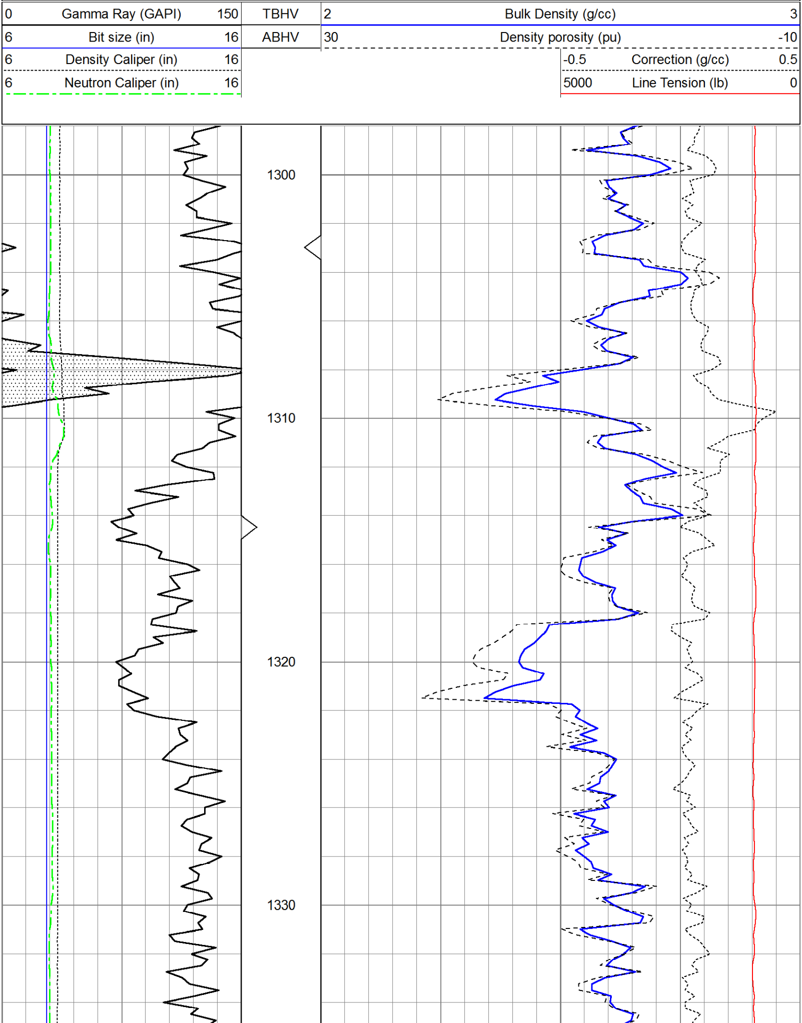


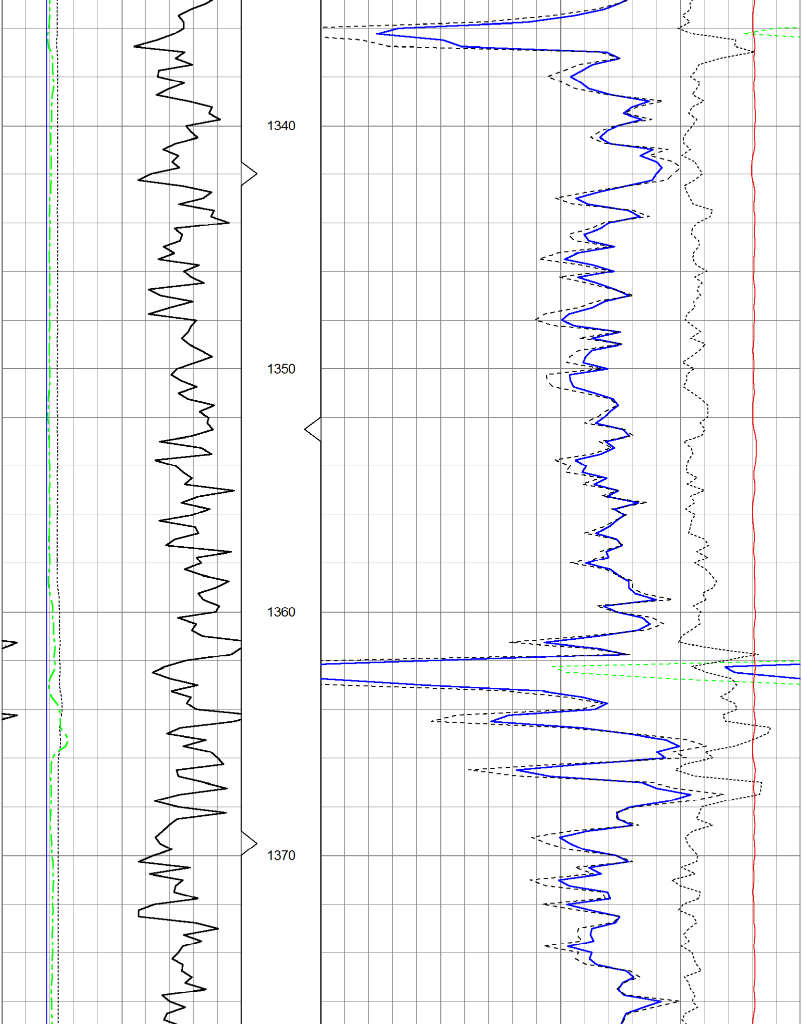


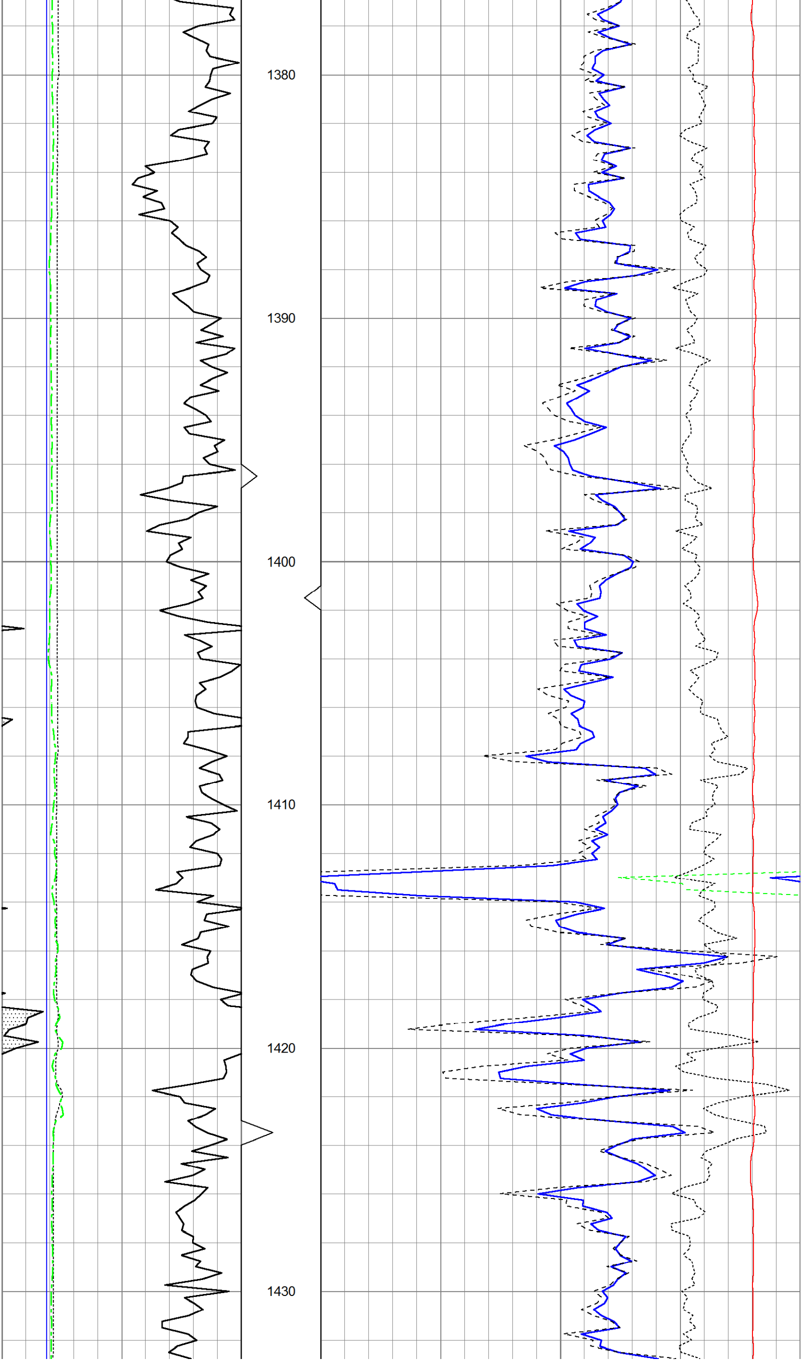


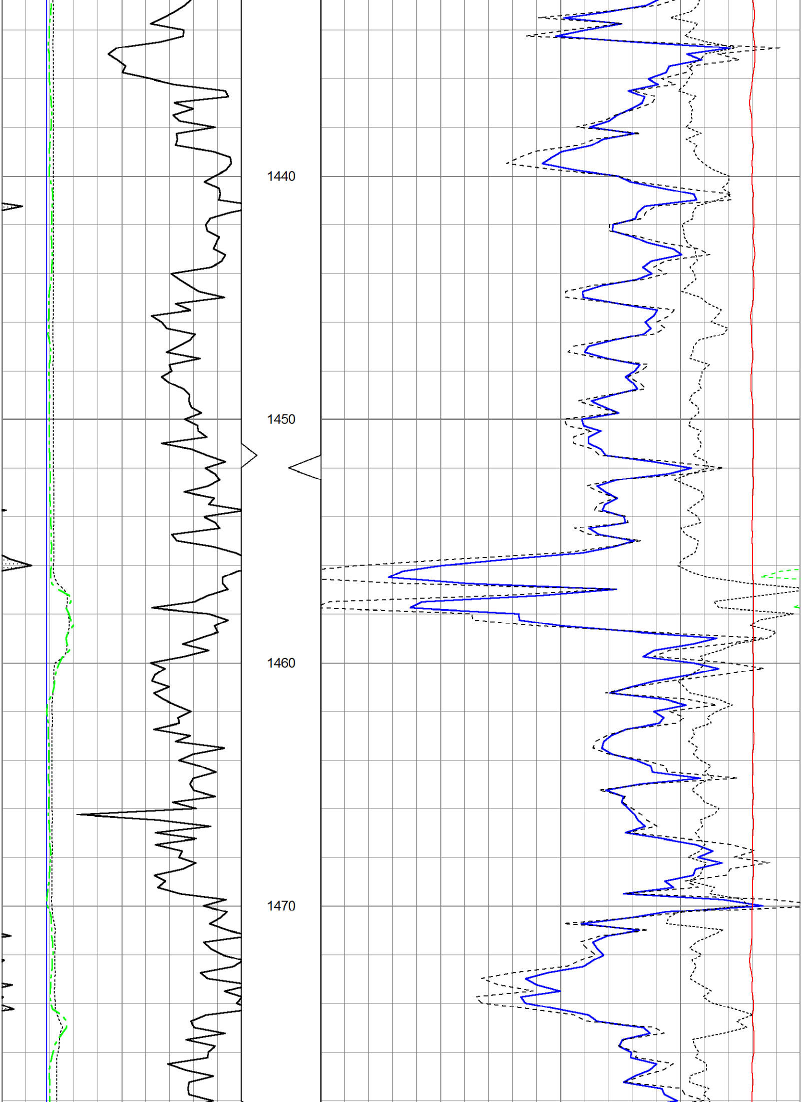
25" HR CDL SECTION

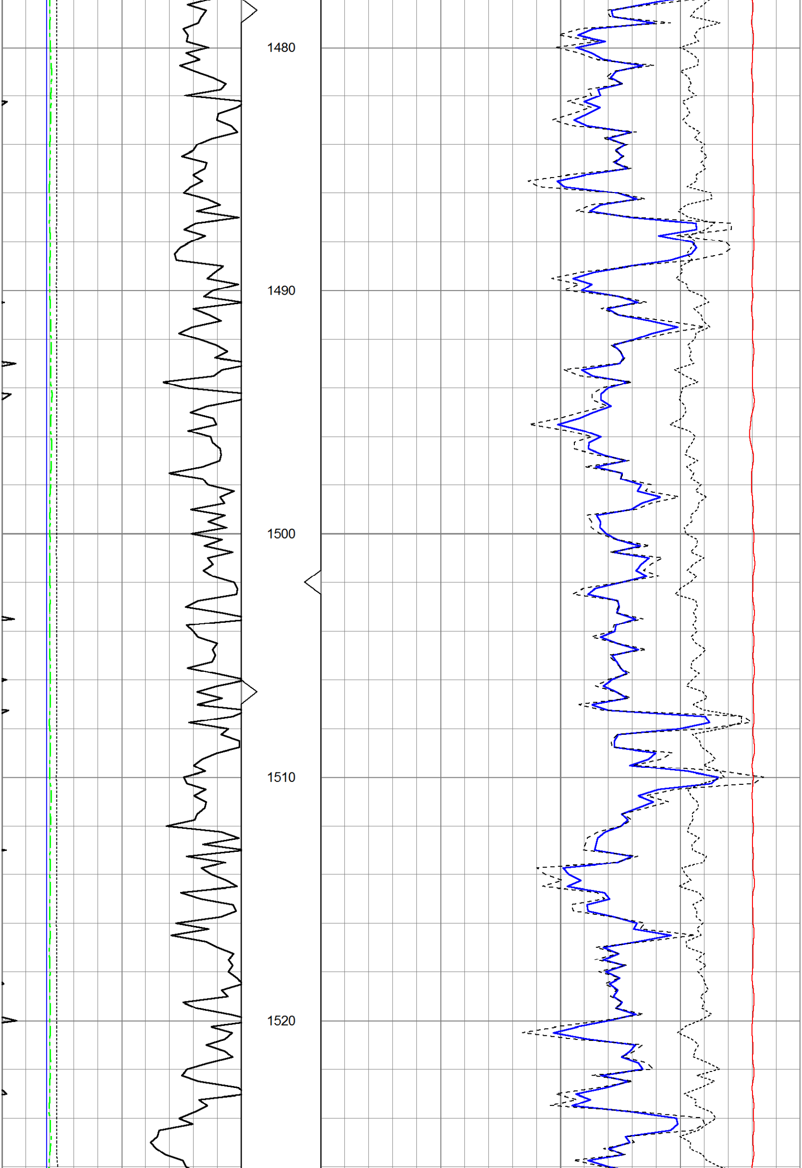
Database File: ow2-8471 bratco operating.db
Dataset Pathname: CDL/pass2.4
Presentation Format: bulk6hr
Dataset Creation: Wed Oct 23 20:38:20 2013 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:48

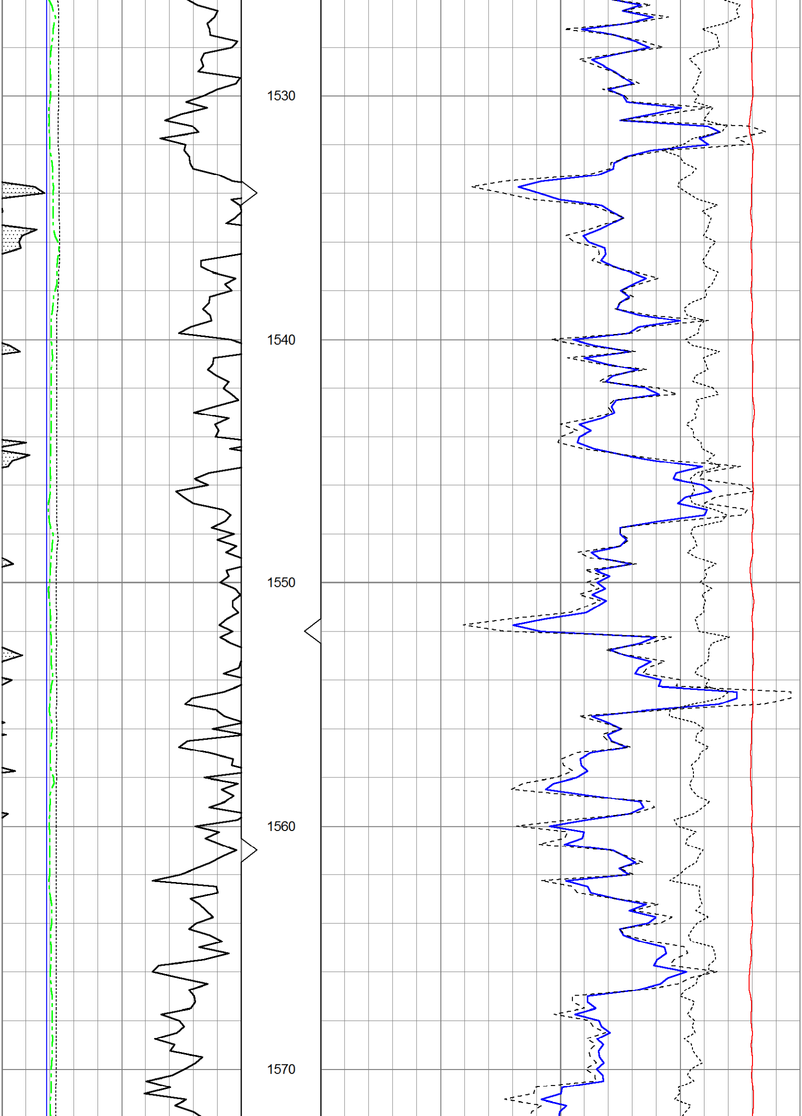


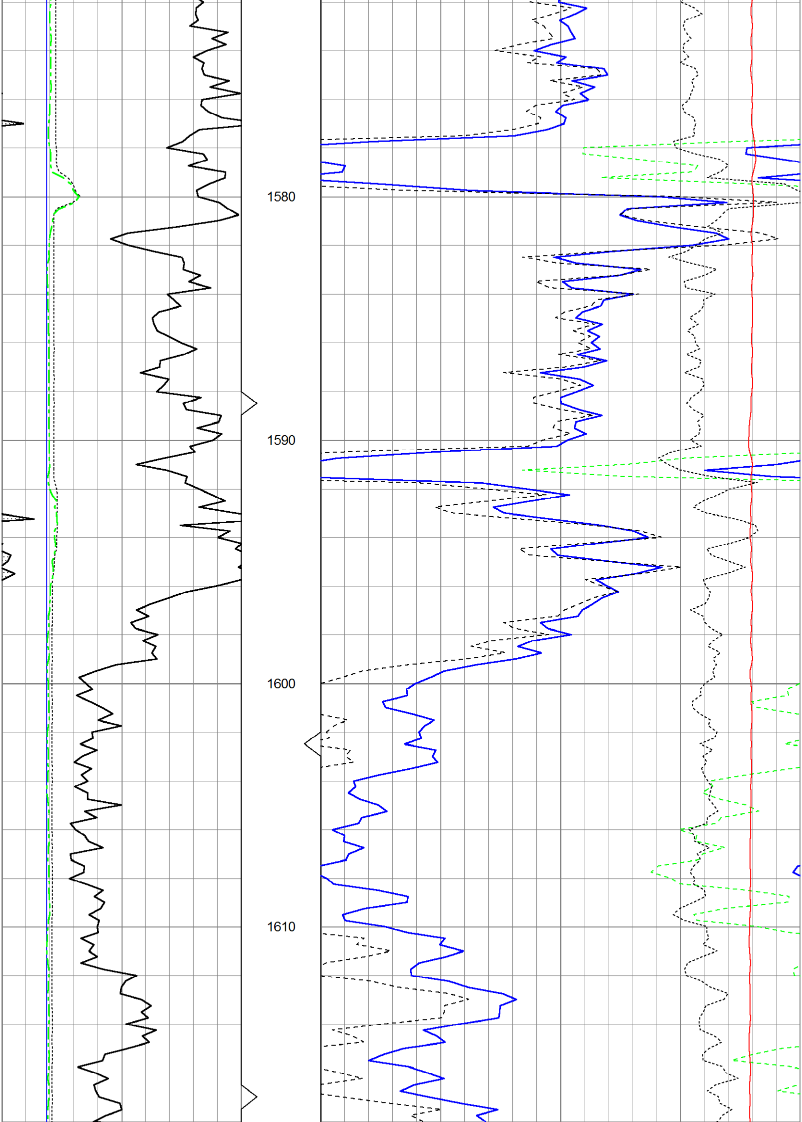


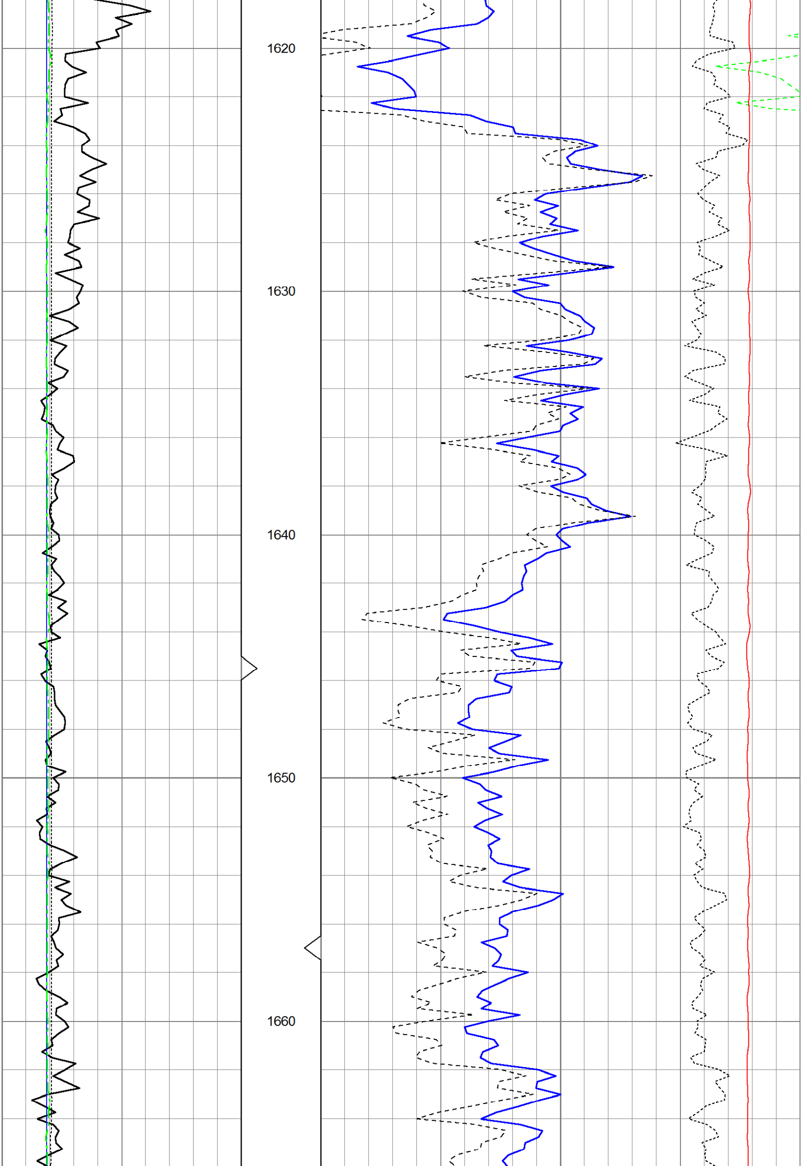


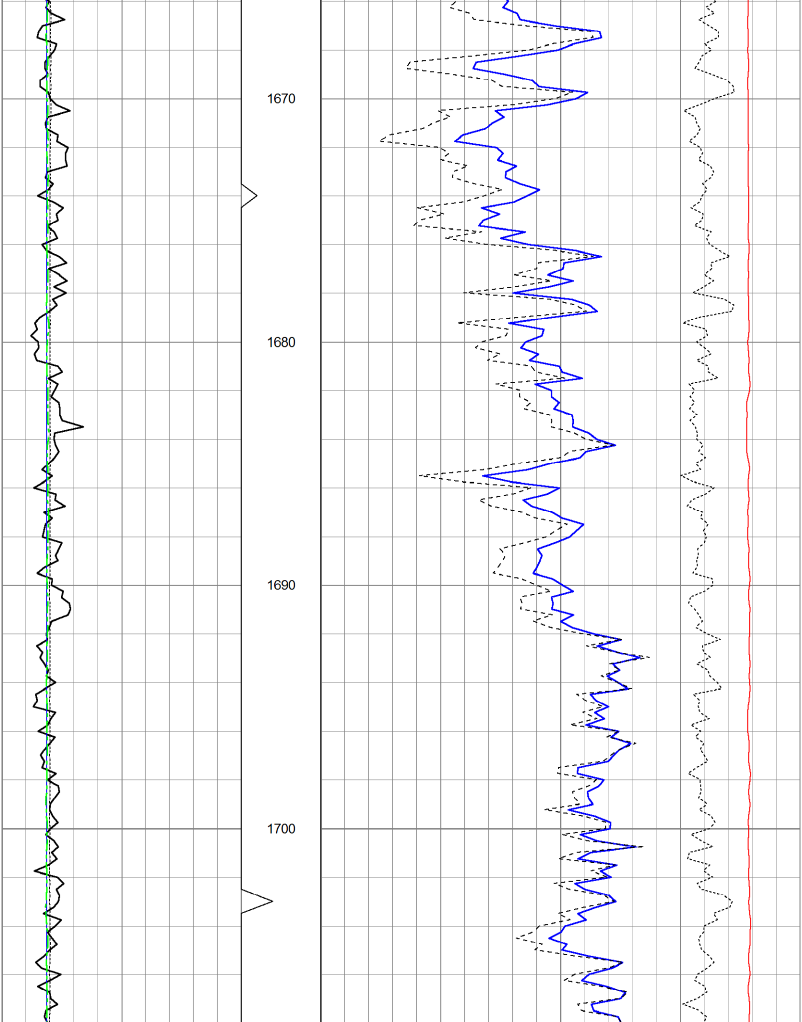


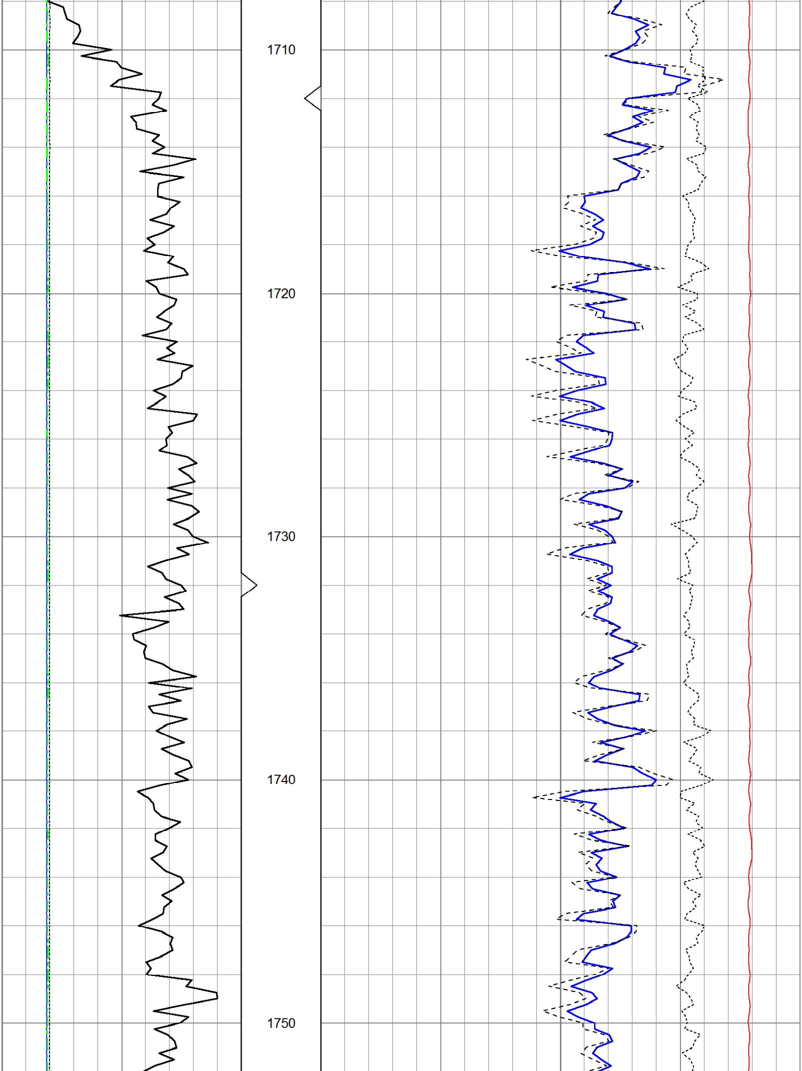


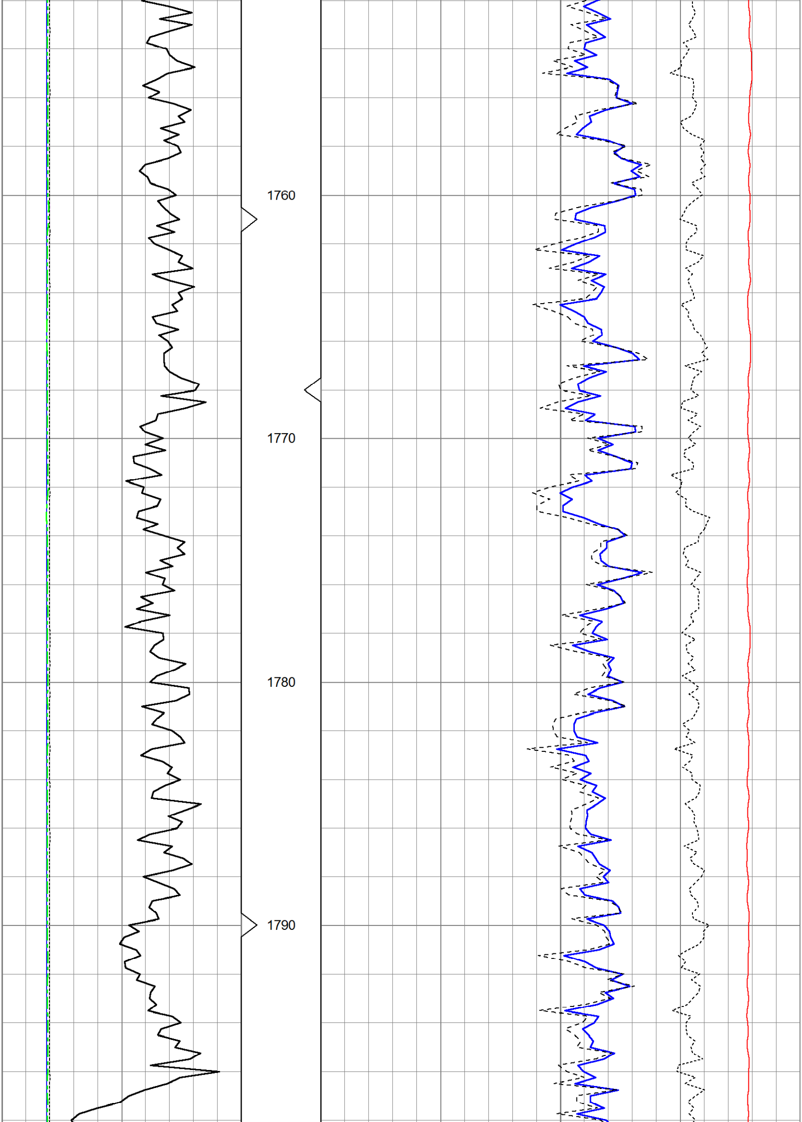


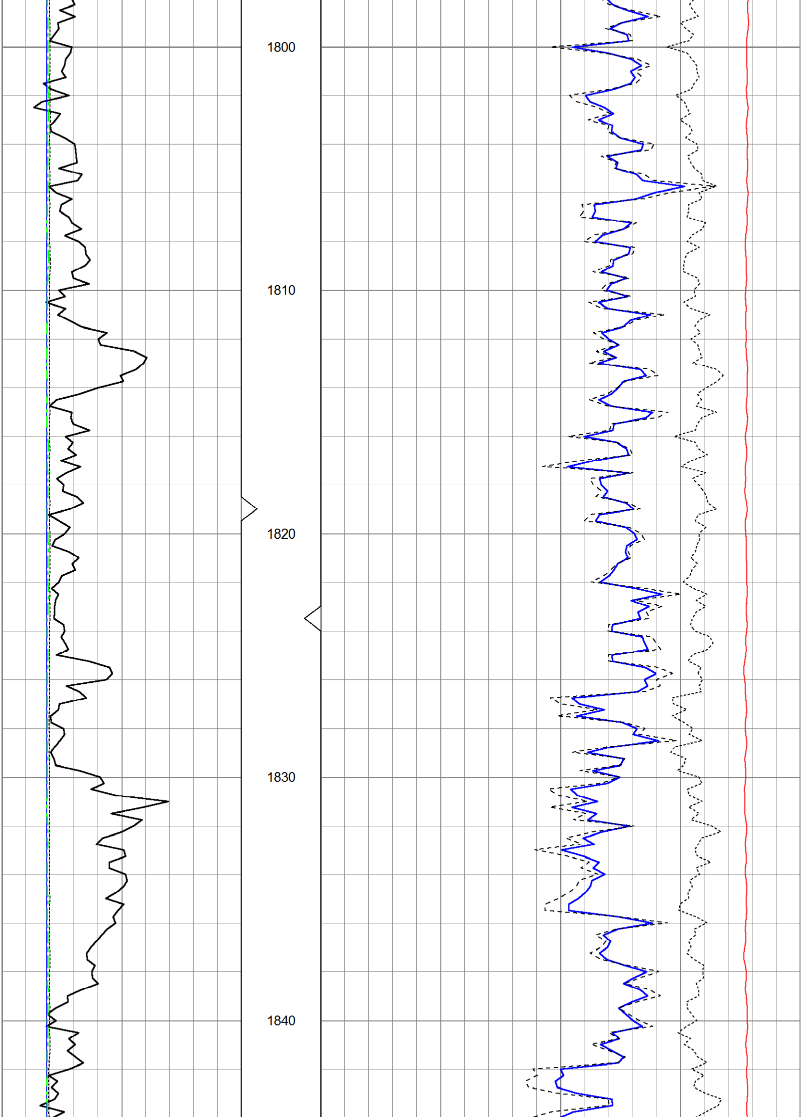


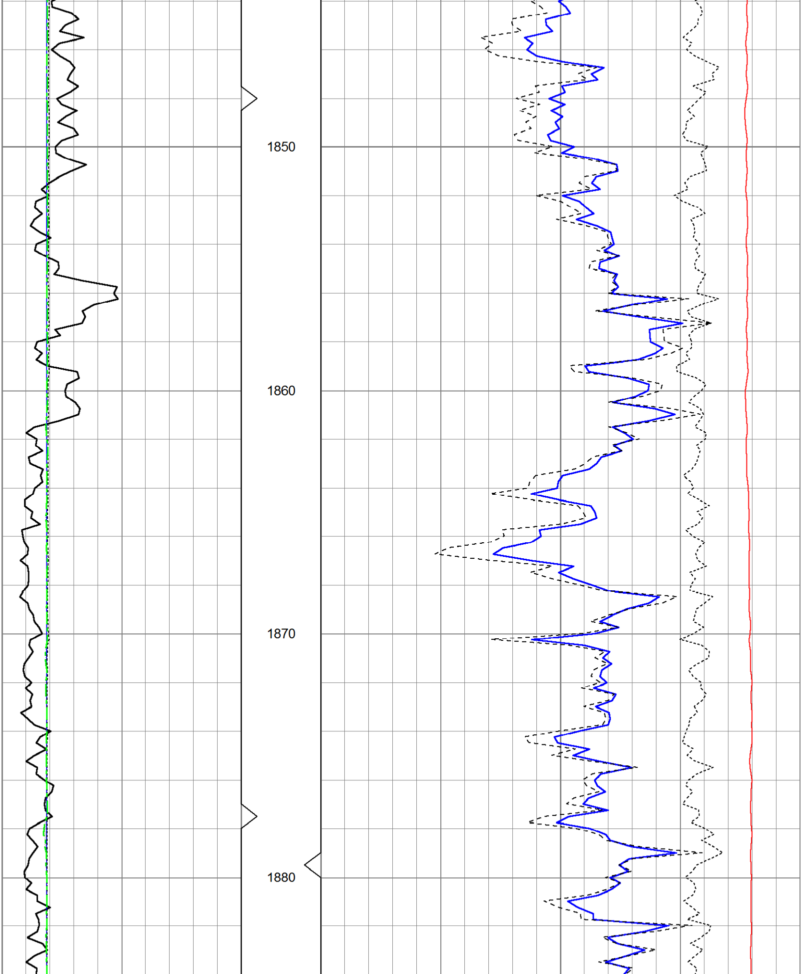


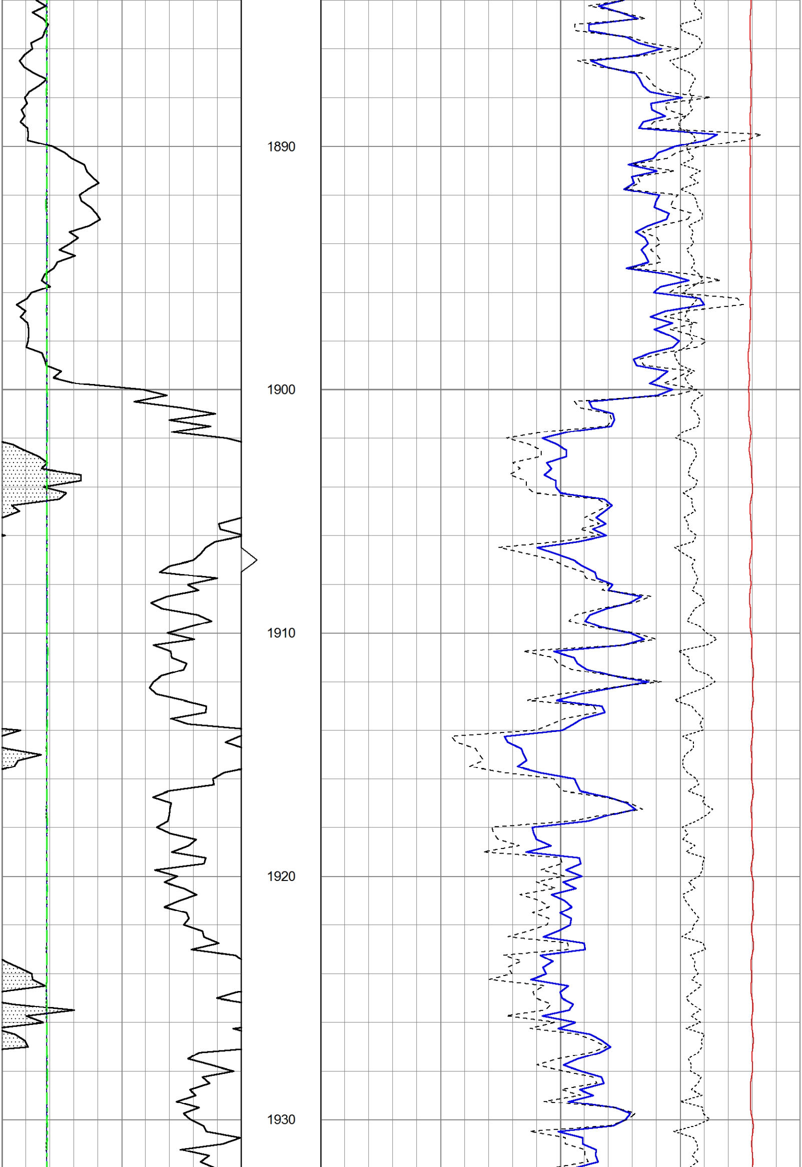


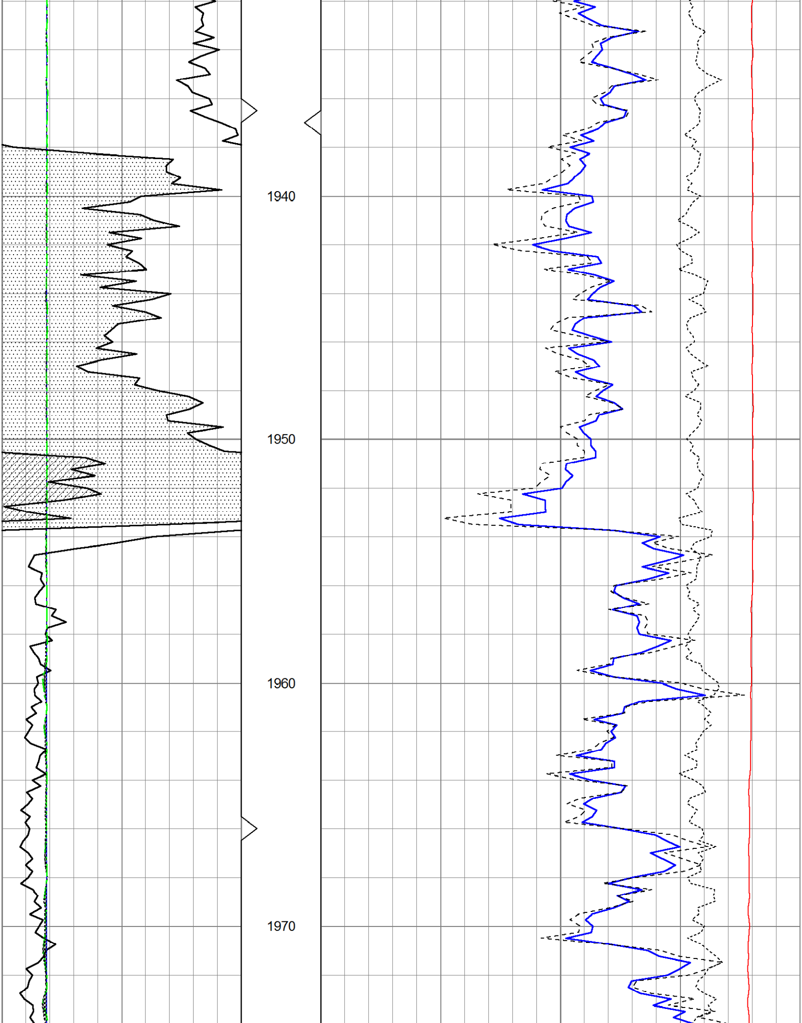


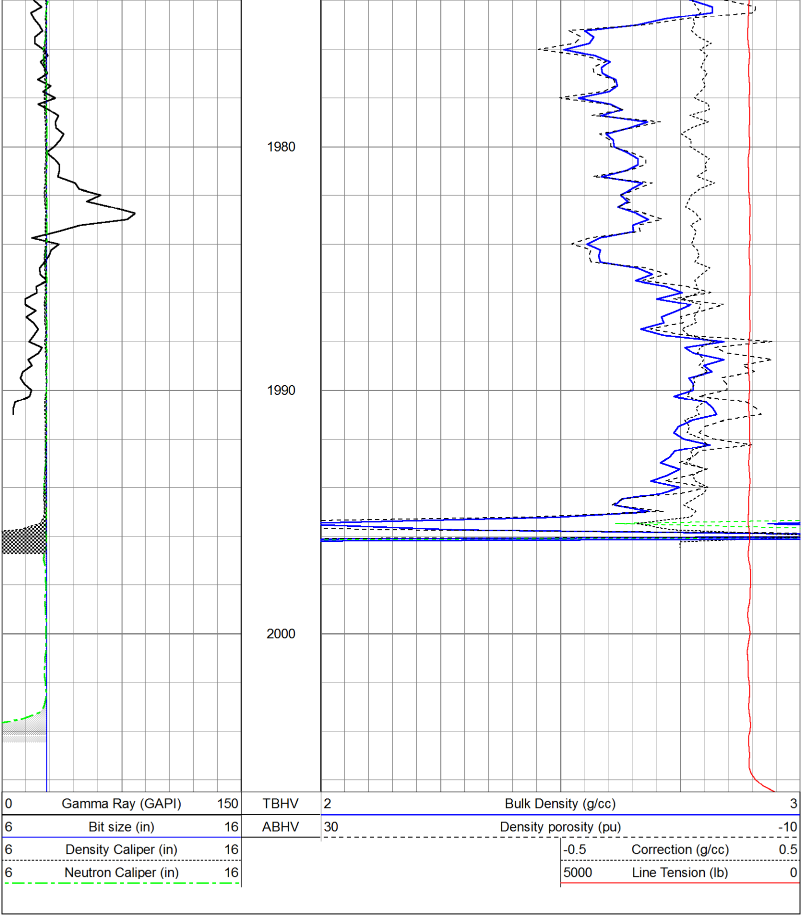






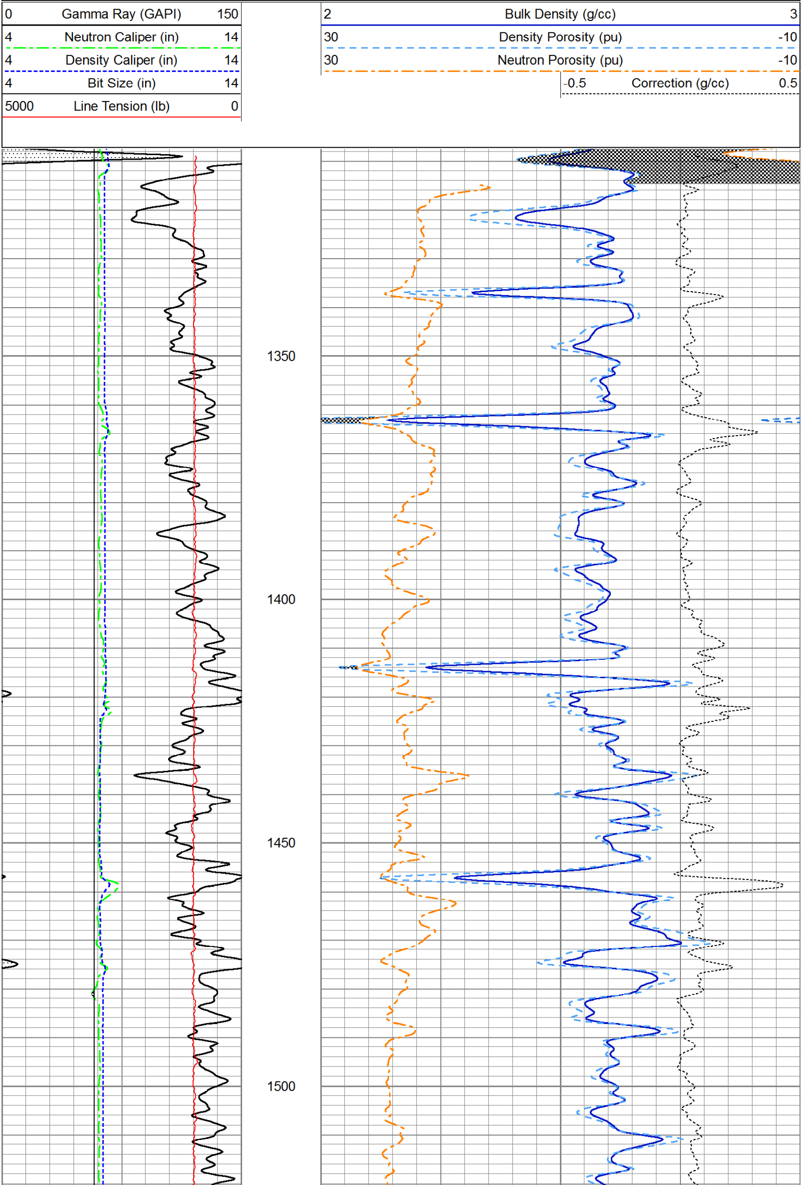


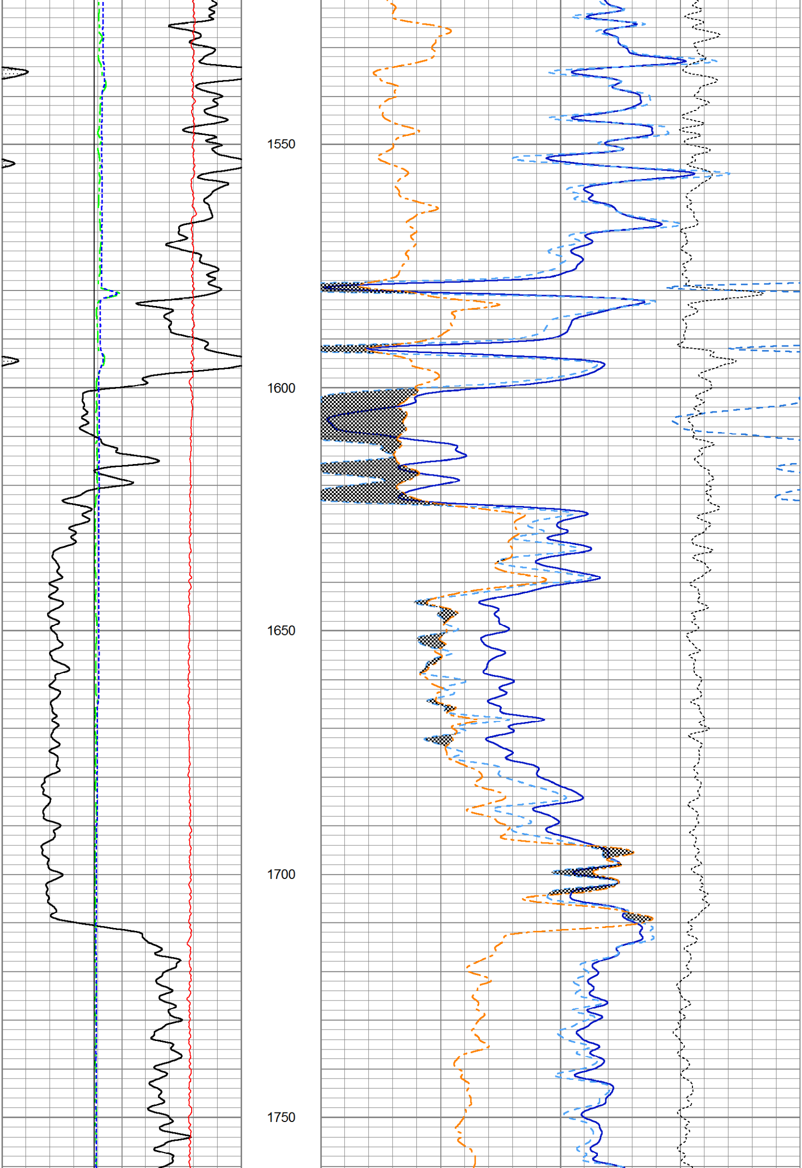


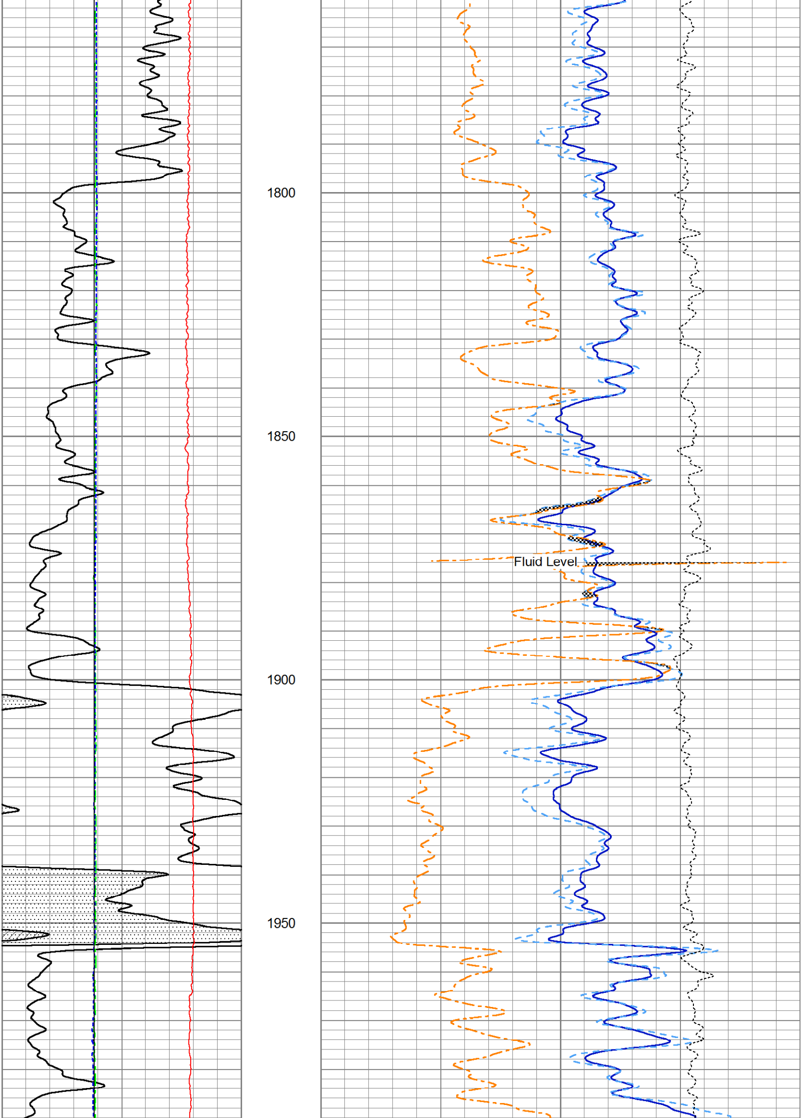


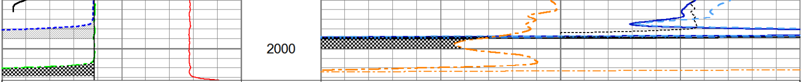
REPEAT SECTION

Database File:	ow2-8471 bratco operating.db
Dataset Pathname:	CDL/pass1.1
Presentation Format:	oscdln
Dataset Creation:	Wed Oct 23 18:46:57 2013 by Calc SOC 120430
Charted by:	Depth in Feet scaled 1:240



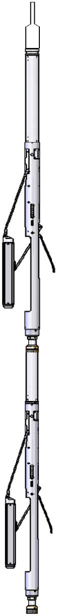






0	Gamma Ray (GAPI)	150
4	Neutron Caliper (in)	14
4	Density Caliper (in)	14
4	Bit Size (in)	14
5000	Line Tension (lb)	0

2	Bulk Density (g/cc)	3
30	Density Porosity (pu)	-10
30	Neutron Porosity (pu)	-10
-0.5	Correction (g/cc)	0.5

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CableHead Isulation Sub	1.42	3.00	20.00
GR	16.06		Gamma-Oilex3006 (3006) Gamma Ray Section	2.81	3.50	75.00
LSD DCAL SSD	10.44 10.15 9.98		Density-Oilex3006 (280) Density Section	6.29	4.00	200.00
SCAL NEU SWN	2.54 2.15 2.15		Neutron-Sidewall3015 (3015) Sidewall Neutron Section	7.81	4.00	150.00

Dataset:	ow2-8471 bratco operating.db: field/well/CDL/pass1
Total Length:	18.33 ft
Total Weight:	445.00 lb
O.D.	4.00 in