PHOENIX SURVEYS, INC.

COMPENSATED DENSITY
COMPENSATED NEUTRON
GAMMA RAY

Company
Well
Field
County
State/Prv

Company	Great Western Oil & Gas LLC		
Well	Gustafson 31-21		
Field	Eaton		
County	Weld	State/Province	Colorado

Location
657' FNL & 2109' FWL
NE NW
Sec 31, Twp - 7N, Rge - 65W

Other Services
Dual
Induction

Permanent Datum	GL	Elevation	4827
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4843
D.F. 4842
G.L. 4827

Date	February 11, 2010		
Run Number	1		
Depth Driller	7463		
Depth Logger	7461		
Bottom Logged Interval	7441		
Top Log Interval	2810		
Casing Driller	550		
Casing Logger	Not Logged		
Bit Size	7-7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.5 / 55		
pH / Fluid Loss	6.0 / 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.53 @ 64° F		
Rmf @ Meas. Temp	2.65 @ 64° F		
Rmc @ Meas. Temp	4.41 @ 64° F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	1.10 @ 205° F		
Time Circulation Stopped	1030		
Time Logger on Bottom	0945		
Maximum Recorded Temperature	205° F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Maciej Staron		
Witnessed By	Jay Pape	Robin Brackman	

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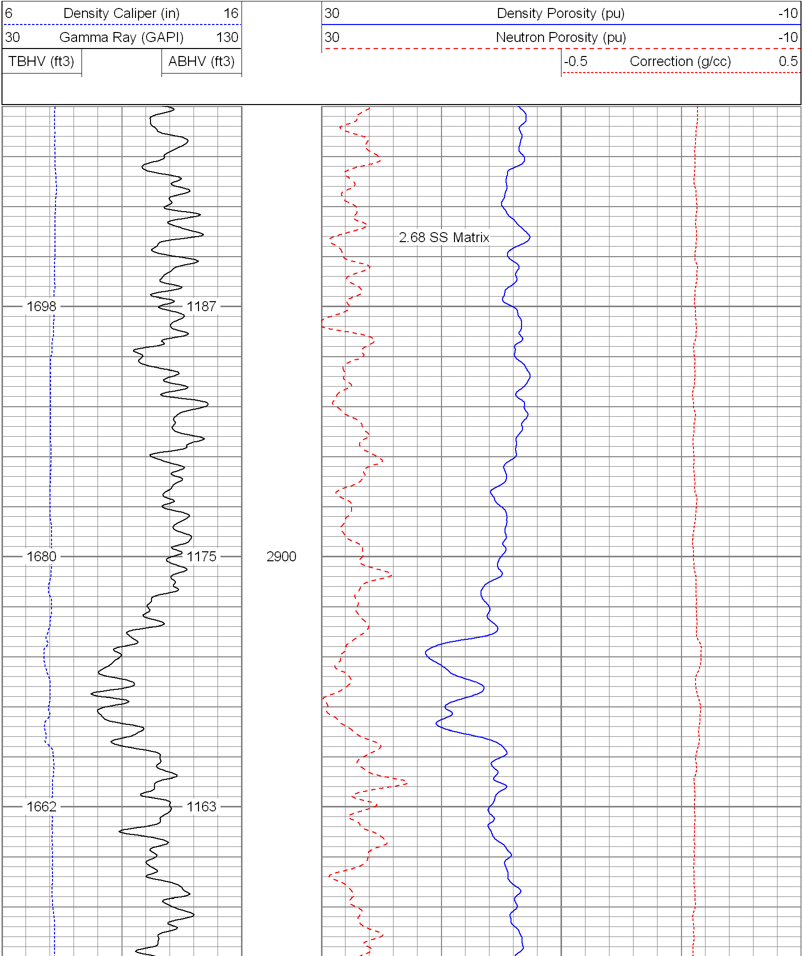
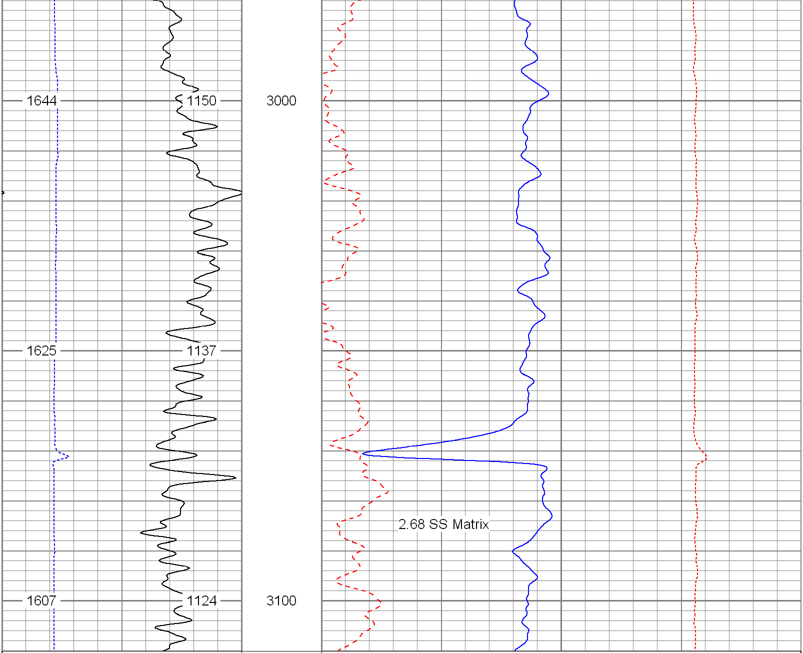
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Annular volume calculated for 4.5" casing
Ensign Drilling Rig 7
Thank you for using Phoenix Surveys.
API #: 05-123-25567-0000

Database File:	10323.db
Dataset Pathname:	pass3
Presentation Format:	den_neu1
Dataset Creation:	Thu Feb 11 17:35:06 2010 by Log Open-Cased 070814
Charted by:	Depth in Feet scaled 1:240





6	Density Caliper (in)	16		30	Density Porosity (pu)	-10
30	Gamma Ray (GAPI)	130		30	Neutron Porosity (pu)	-10
TBHV (ft3)		ABHV (ft3)		-0.5	Correction (g/cc)	0.5

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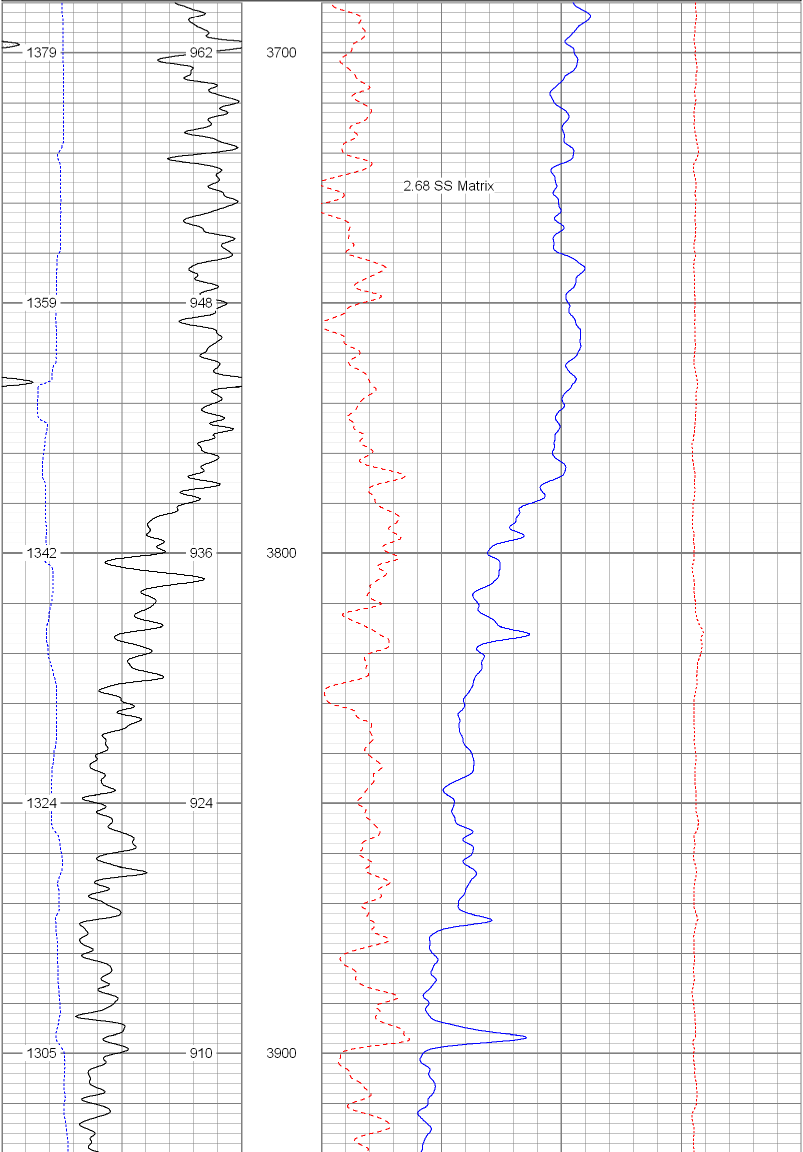

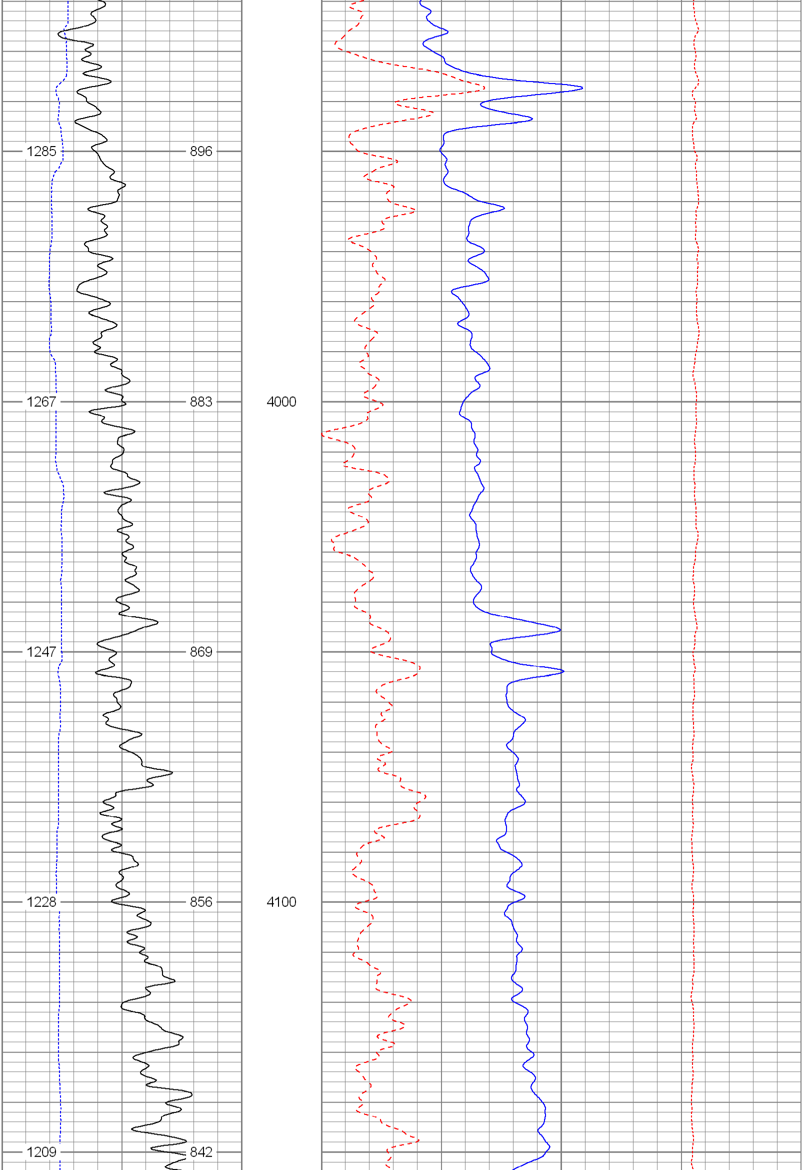

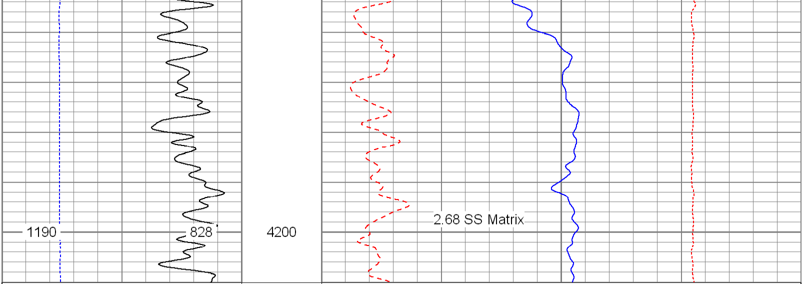

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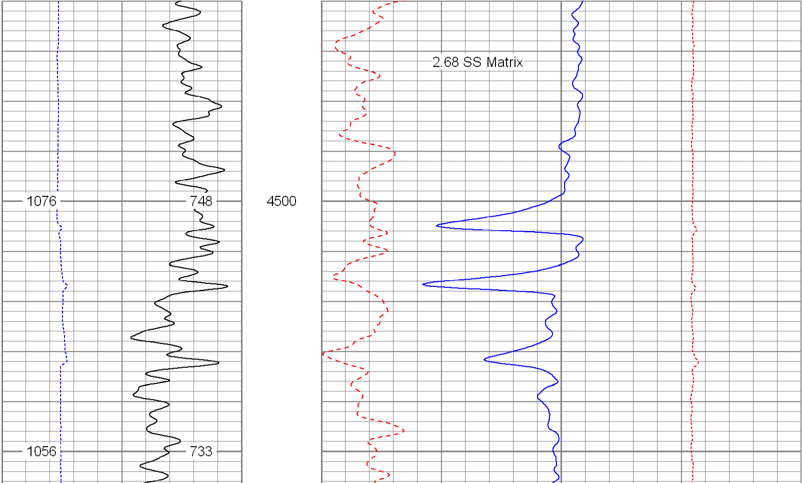

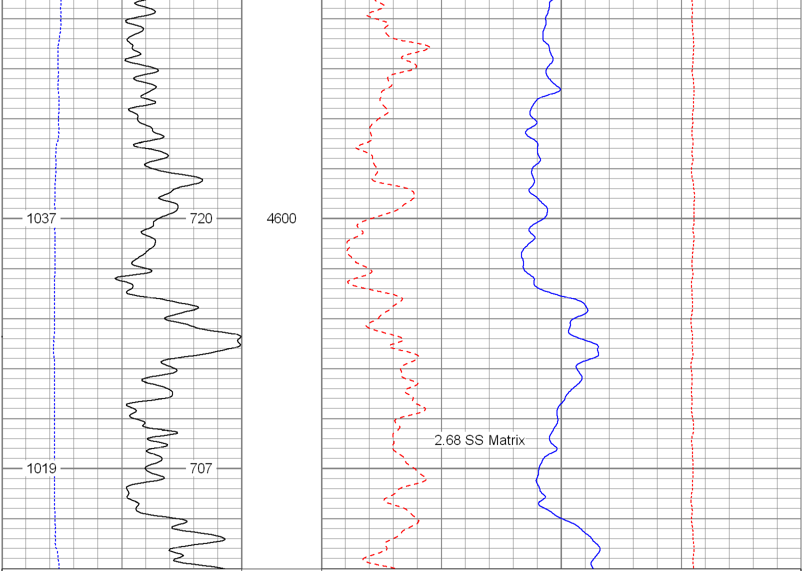

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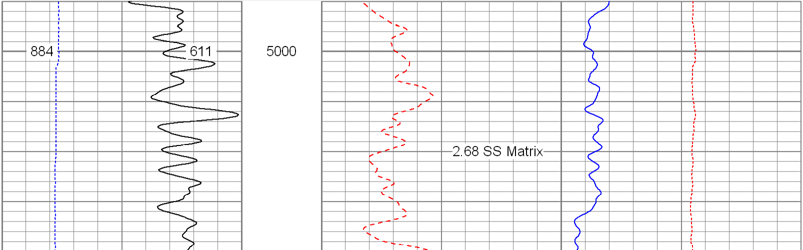

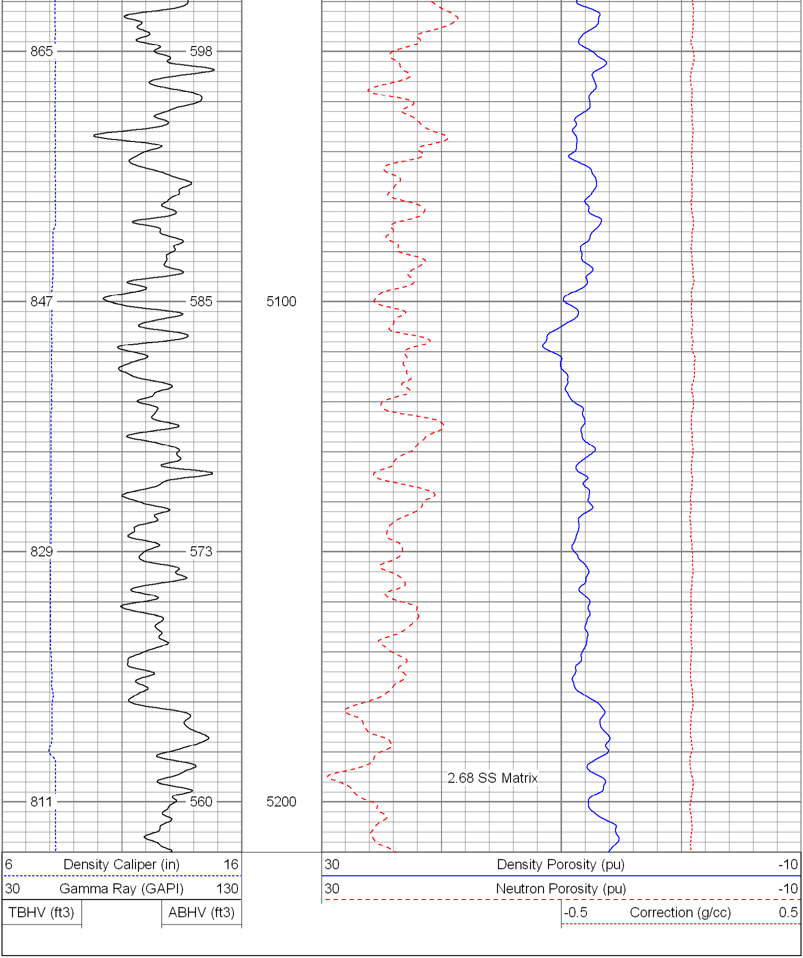

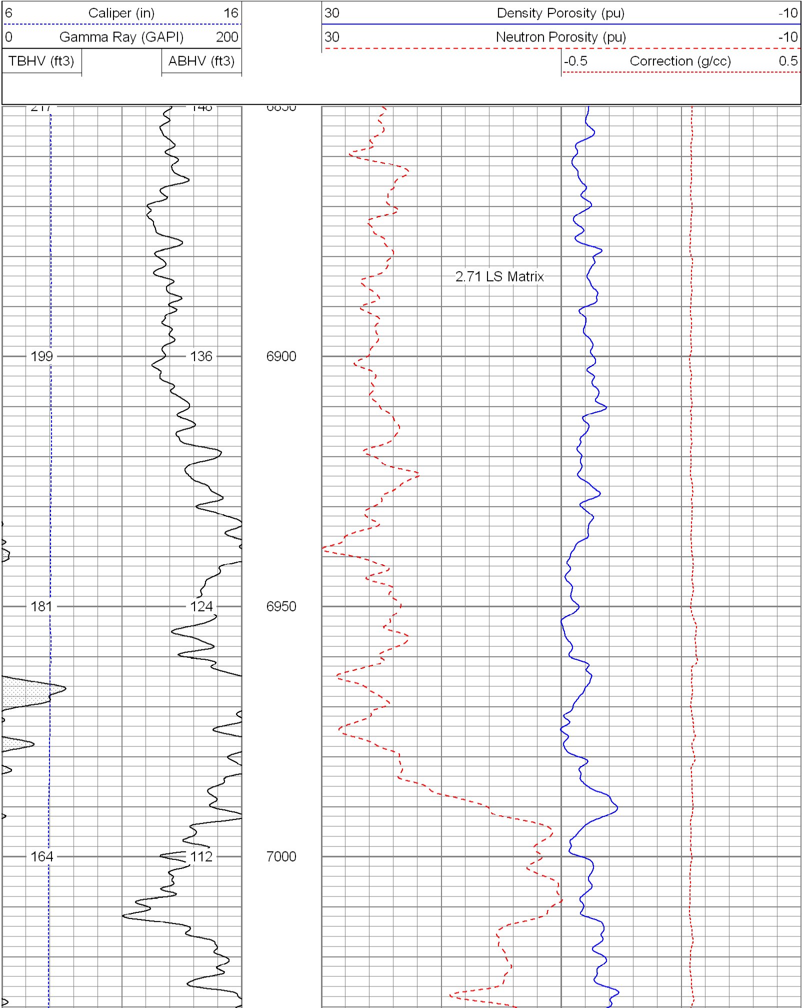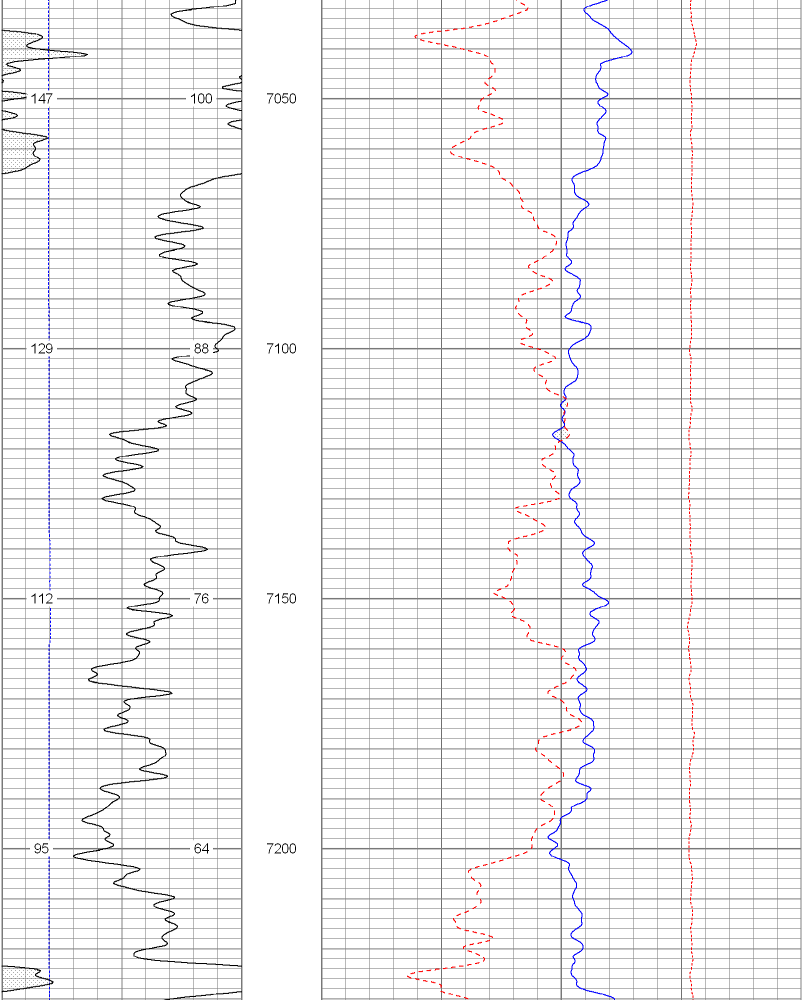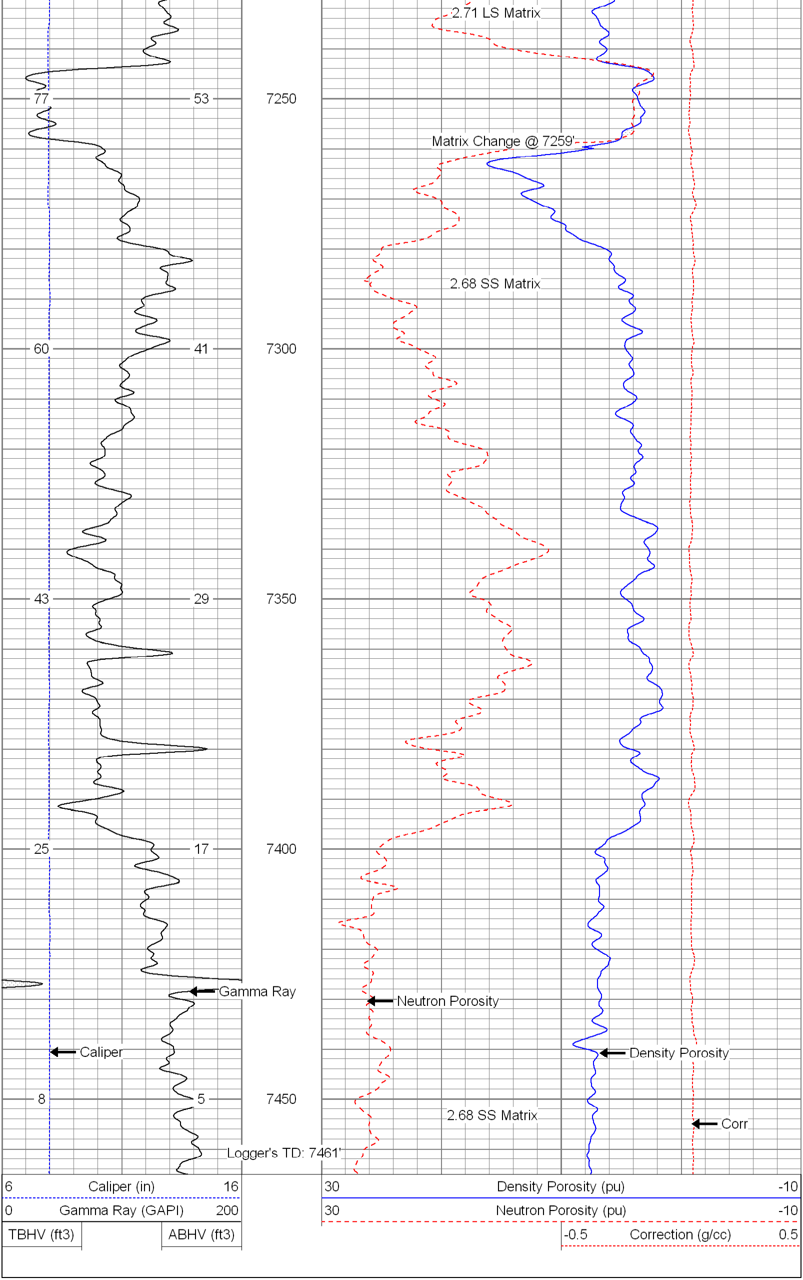Database File: 10323.db
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