COMPENSATED DENSITY NEUTRON LOG

Company Jason Oil Company
Well Schoenberger # 2-17
Field Trapp
County Russell
State Kansas

Company	Jason Oil Company
Well	Schoenberger # 2-17
Field	Trapp
County	Russell
State	Kansas

Location: API # : 15 167 23865

330' FSL & 700' FWL

SEC 17 TWP 15S RGE 13W

Other Services
DIL
ML

Permanent Datum	Ground Level	Elevation	1776'
Log Measured From	KB 8' AGL		
Drilling Measured From	KB		

Elevation
K.B. 1784'
D.F. 1783'
G.L. 1776'

Date	4-28-13		
Run Number	One		
Depth Driller	3300'		
Depth Logger	3298'		
Bottom Logged Interval	3276'		
Top Log Interval	1500'		
Casing Driller	475'		
Casing Logger	475'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.4/46		
pH / Fluid Loss	9.5/9.2		
Source of Sample	Pit		
Rm @ Meas. Temp	1.65@80degf		
Rmf @ Meas. Temp	1.24@80degf		
Rmc @ Meas. Temp	1.99@80degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.19@111degf		
Time Circulation Stopped	9:30 a.m.		
Time Logger on Bottom	11:30 a.m.		
Maximum Recorded Temperature	111degf		
Equipment Number	T045		
Location	Hays		
Recorded By	L. Smith		
Witnessed By	Mr. Herb Deines	Mr. Jim Schoenberger	

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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 Gemini Wireline LLC
Hays, KS 785-621-4604

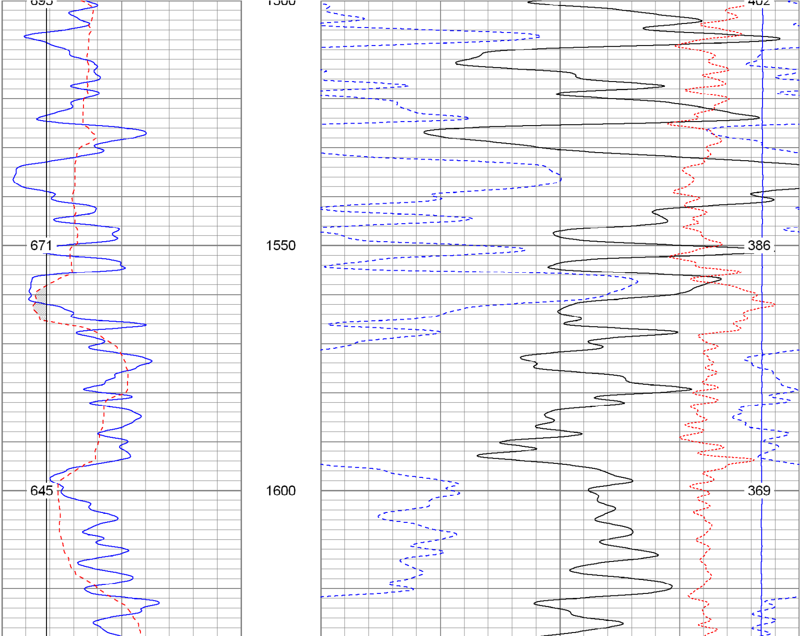
GEMINI WIRELINE

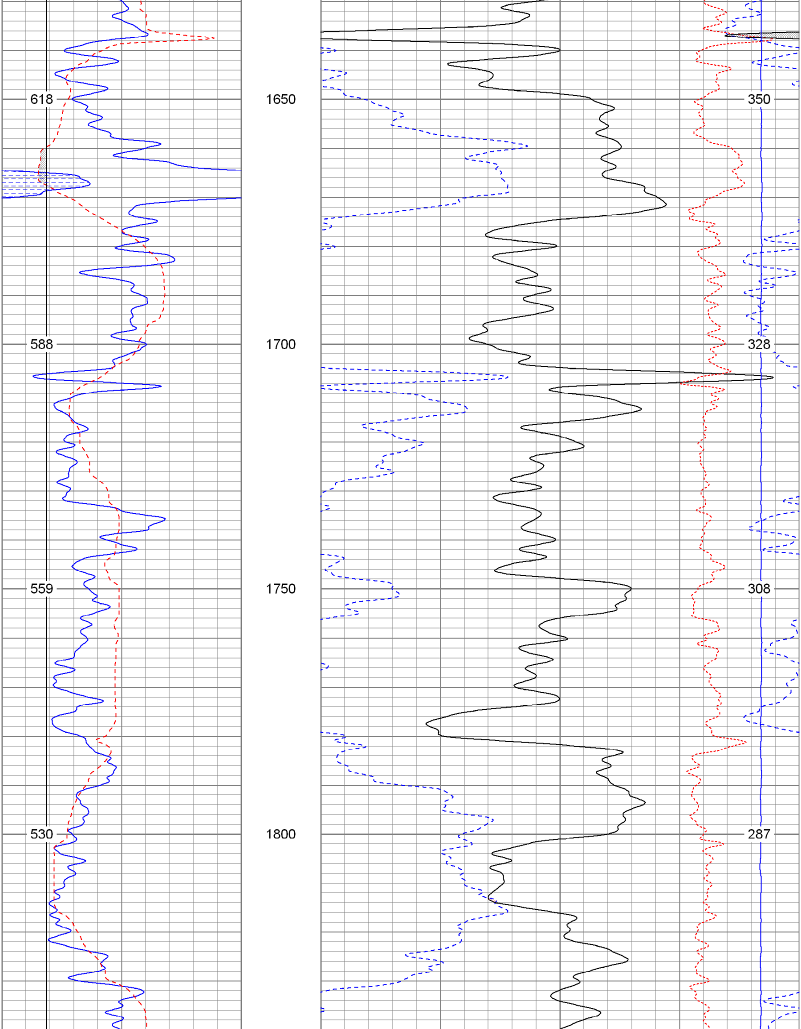
Main Pass

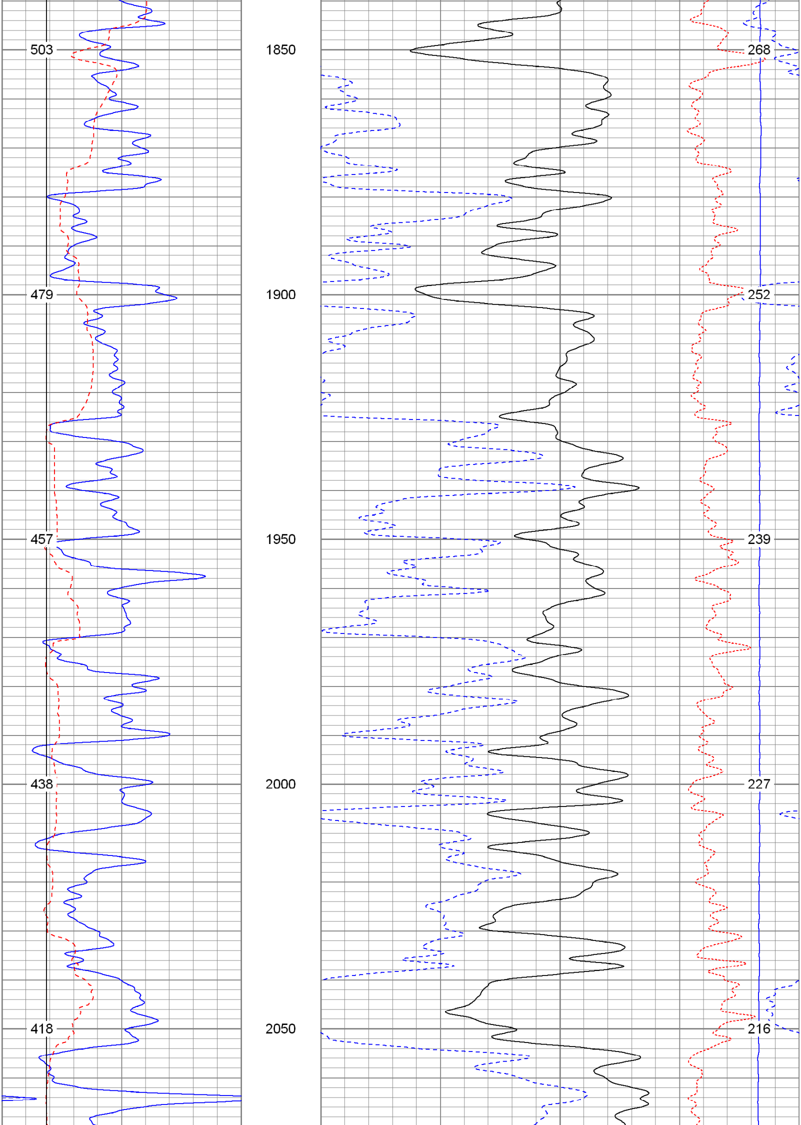
Database File:	joschoenberger2-17oh.db
Dataset Pathname:	pass2.1
Presentation Format:	kcdnl
Dataset Creation:	Sun Apr 28 12:45:20 2013 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

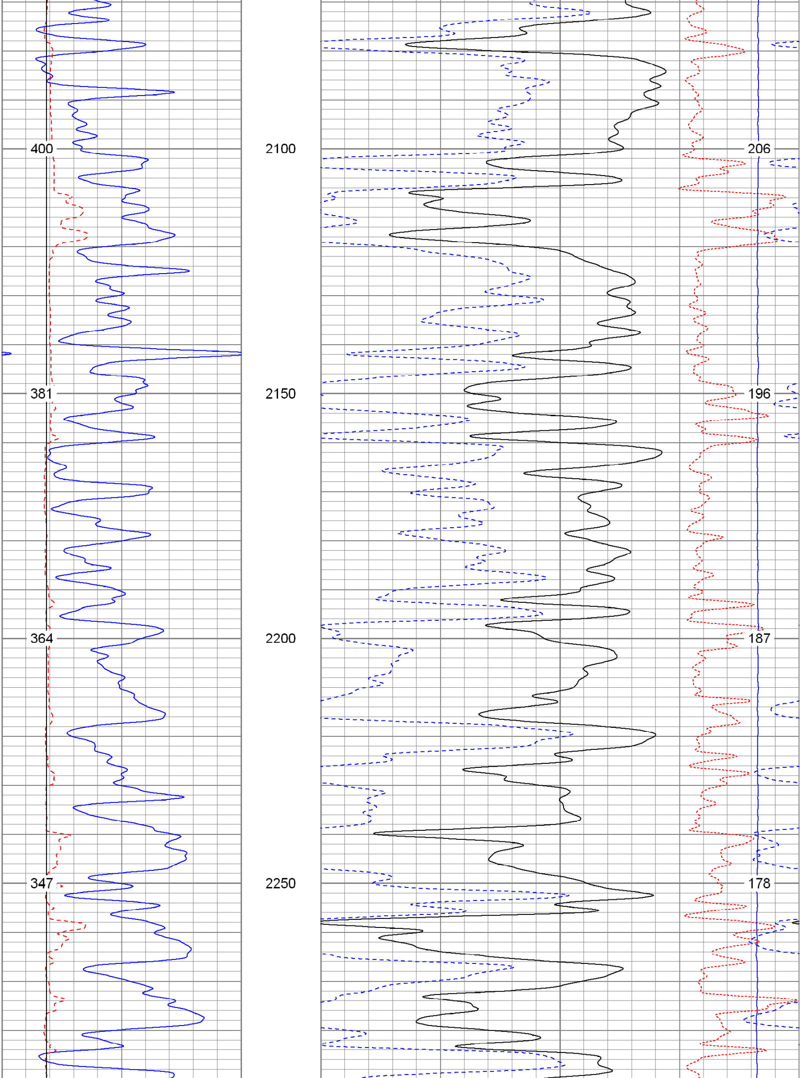
0 GR (GAPI) 150
6 DCAL (in) 16
6 BOREID (in) 16
TBHV (ft3)

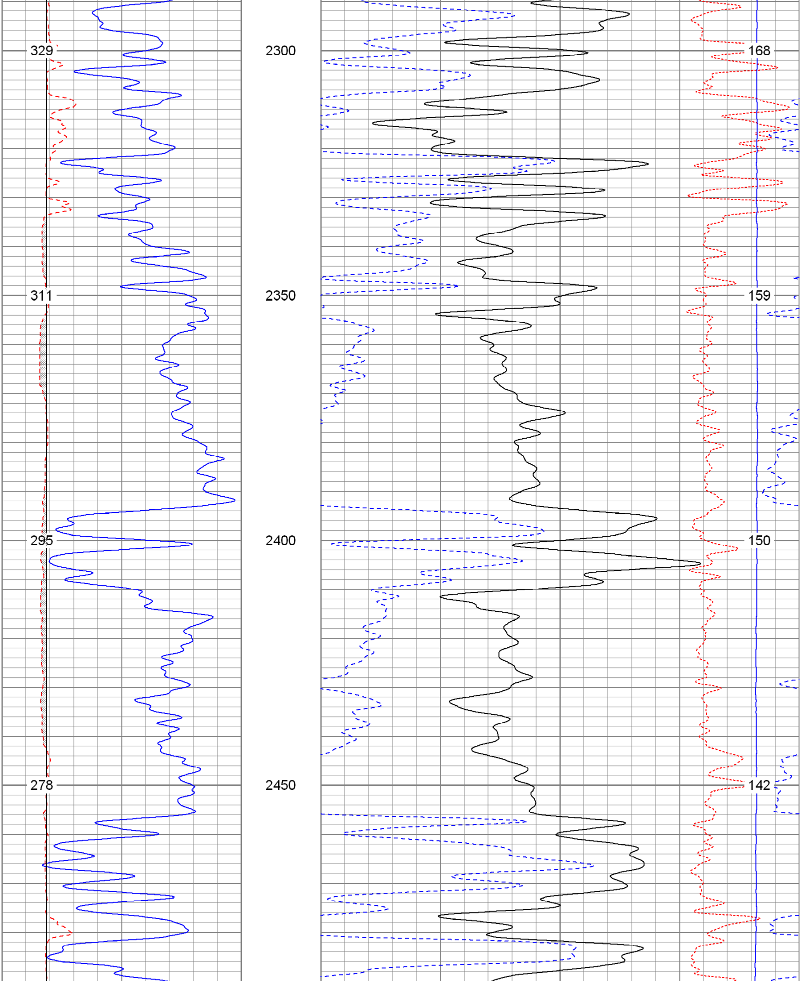
30 NPOR (pu) -10
30 DPOR (pu) -10
70 DPOR (pu) 30
-0.25 RHOC (g/cc) 0.25
8000 LTEN (lb) 0
ABHV (ft3)

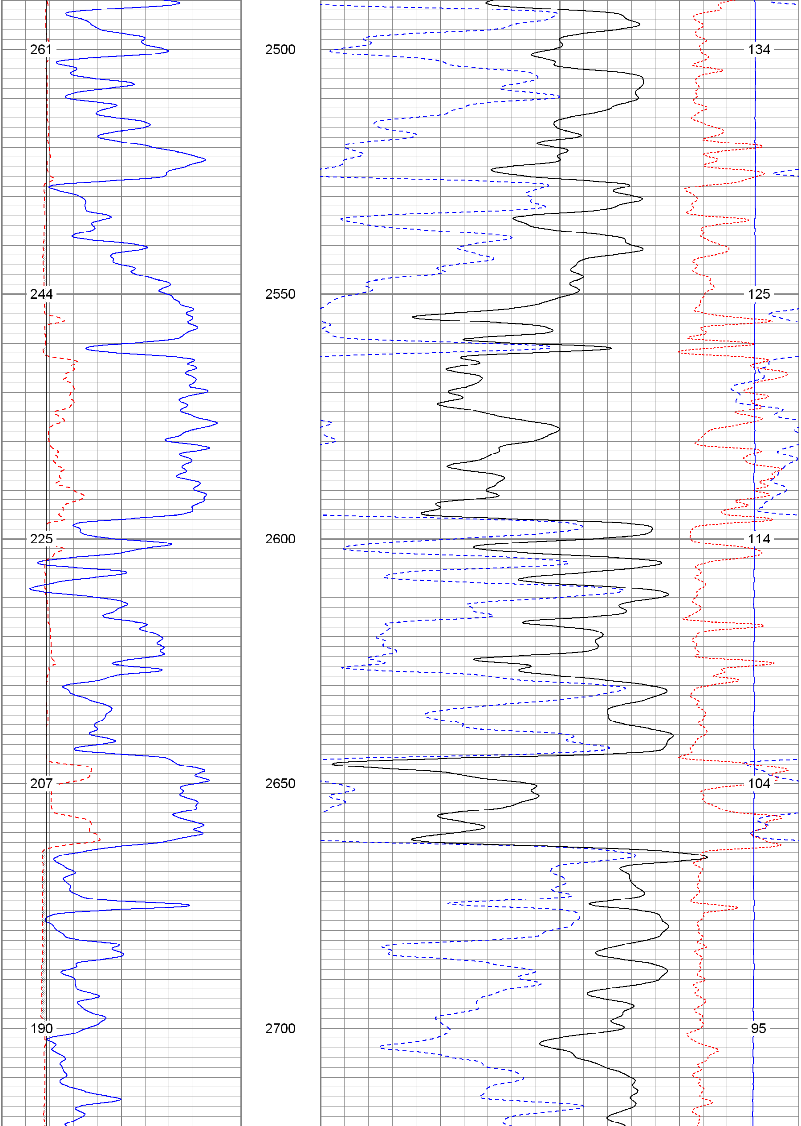


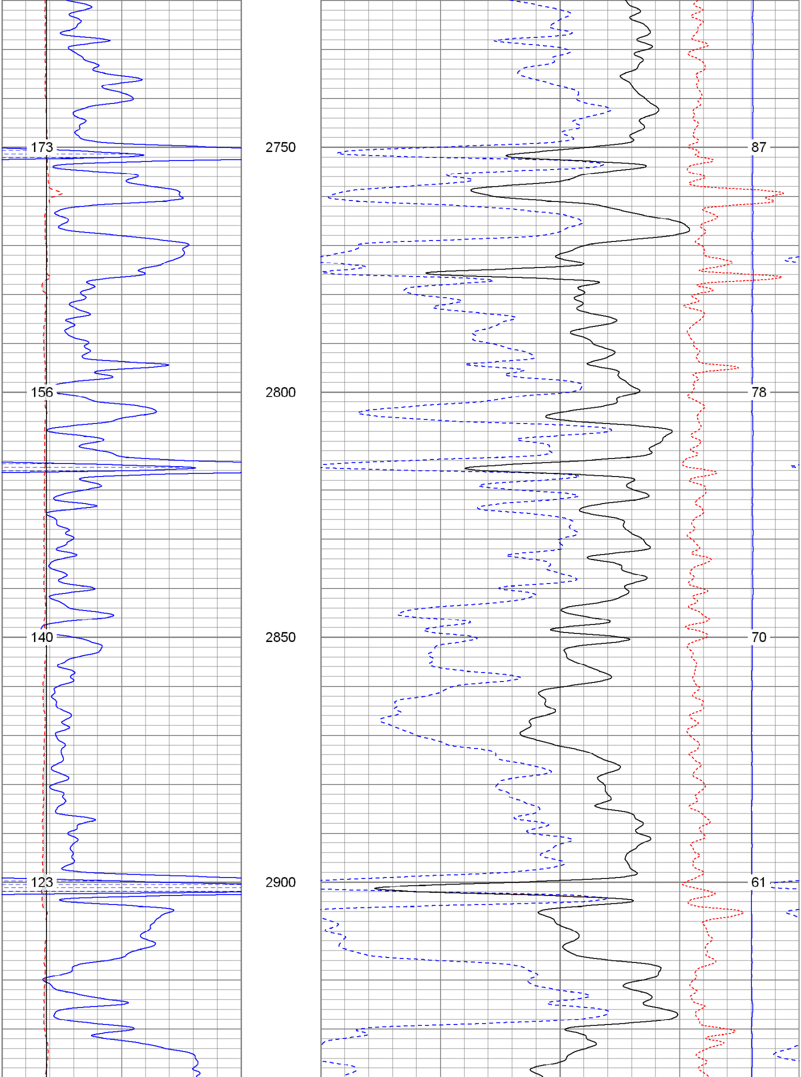


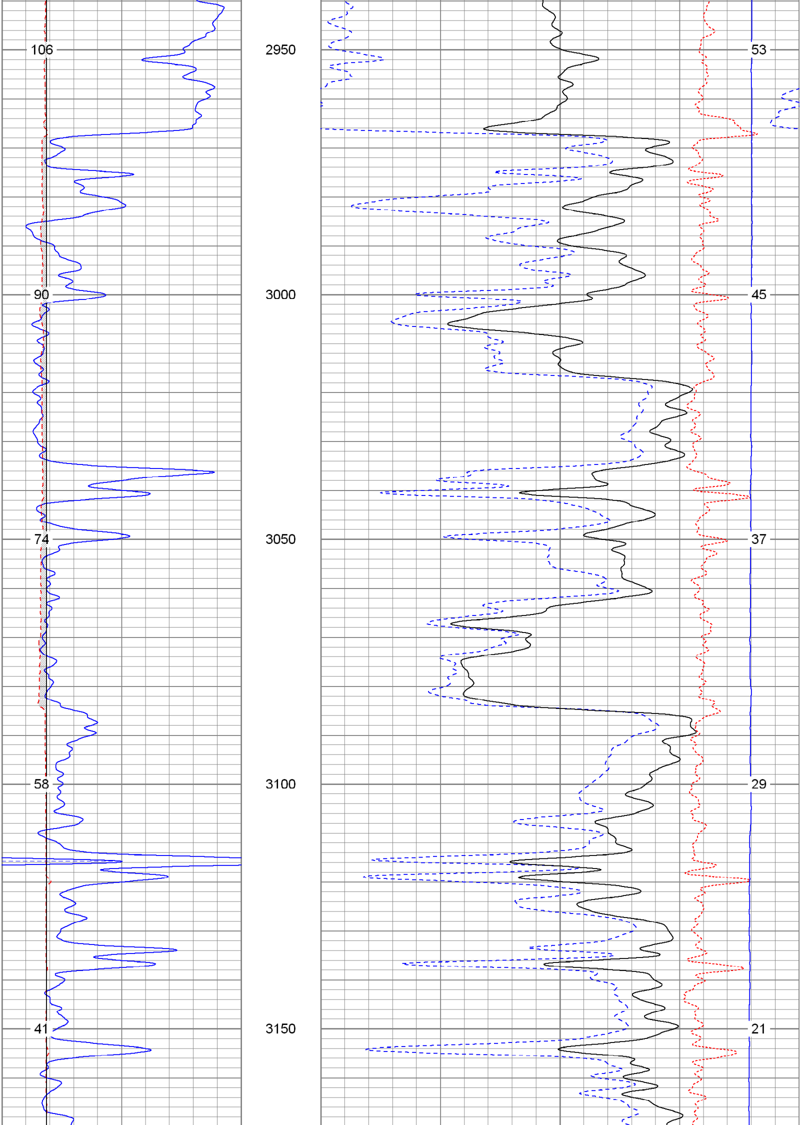


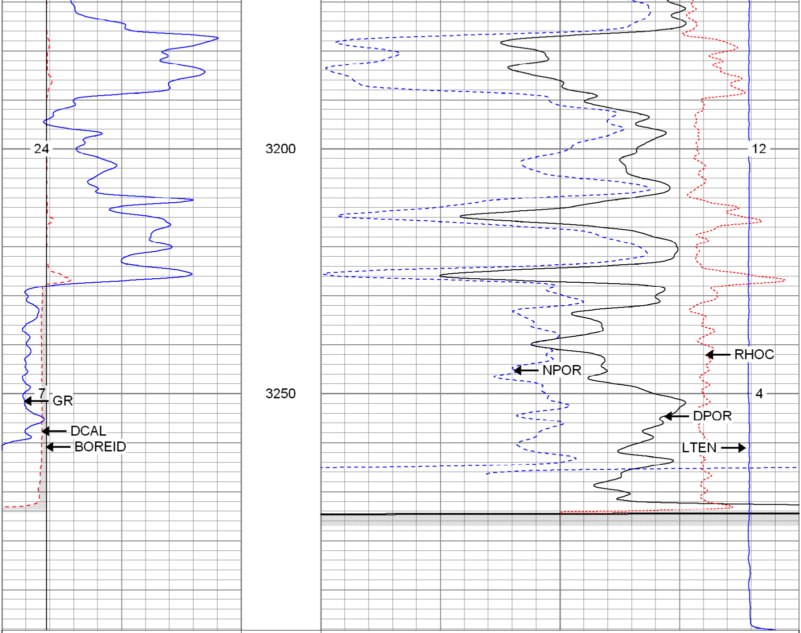












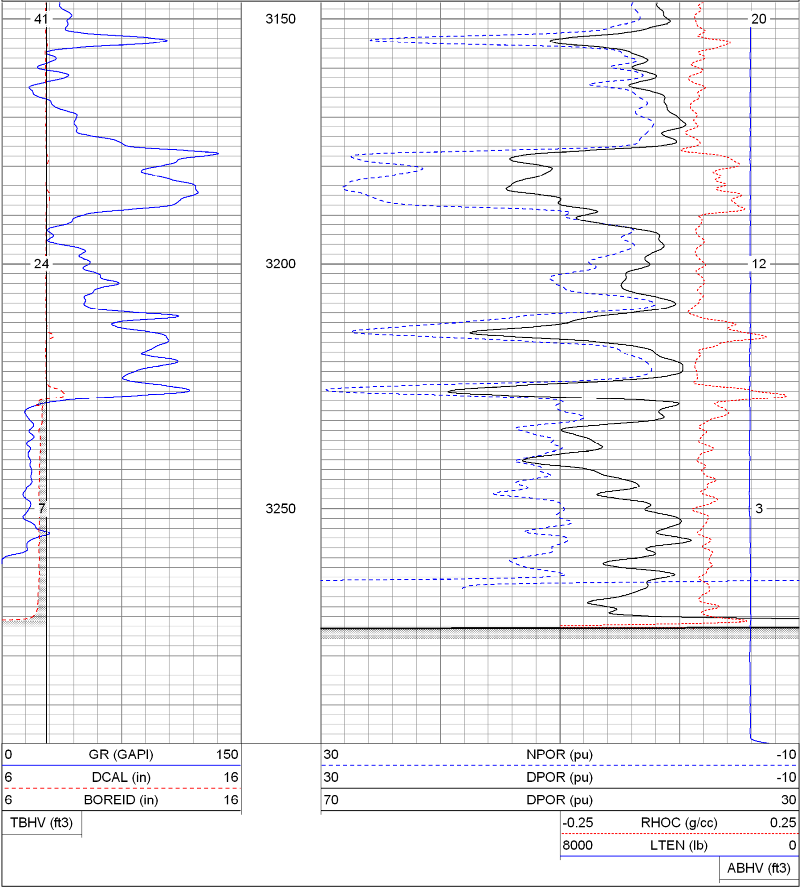
0	GR (GAPI)	150	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
TBHV (ft3)			-0.25	RHOC (g/cc)	0.25
			8000	LTEN (lb)	0
				ABHV (ft3)	

GEMINI WIRELINE

Repeat Pass

Database File:	joschoenberger2-17oh.db
Dataset Pathname:	pass1.1
Presentation Format:	kcdnl
Dataset Creation:	Sun Apr 28 11:57:57 2013 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	150	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
TBHV (ft3)			-0.25	RHOC (g/cc)	0.25
			8000	LTEN (lb)	0
				ABHV (ft3)	



Calibration Report

Database File: joschoenberger2-17oh.db
Dataset Pathname: pass1
Dataset Creation: Sun Apr 28 11:40:21 2013 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model:	080522-Probe
Surface Cal Performed:	Sun Apr 28 11:25:29 2013
Downhole Cal Performed:	Sun Apr 28 11:25:32 2013
After Survey Verification Performed:	Sun Apr 28 11:25:34 2013

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.638	V	0.000	400.000	mmho/m	628.149	-0.909
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.133	-1.885
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.639	V	0.000	400.000	mmho/m	627.770	-0.927
Medium	0.003	0.735	V	0.000	464.000	mmho/m	634.038	-1.896

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.587	400.153	mmho/m	0.019	400.261	mmho/m	0.999	0.605
Medium	-0.685	463.926	mmho/m	0.012	464.081	mmho/m	0.999	0.696
LL3		7.259	V		750.000	Ohm-m		
		-0.000	V		12.000	Ohm-m		
		-7.420	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model:	901-2.75POH
Source / Verifier:	/
Master Calibration Performed:	Fri Apr 26 03:18:32 2013

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.810	g/cc	969.87	587.14	cps
Aluminum	2.720	g/cc	144.01	266.32	cps

Spine Angle = 67.49

Density/Spine Ratio = 0.441

	Size		Reading	
Small Ring	8.35	in	2.50	V
Large Ring	17.00	in	4.51	V

Neutron Calibration Report

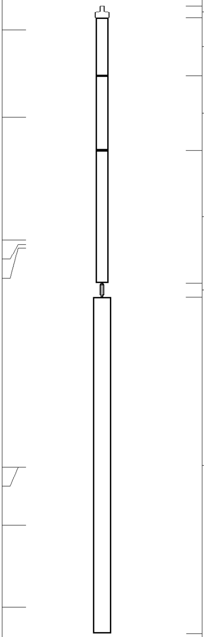
Serial Number:	803	
Tool Model:	2.75POH	
Performed:	Tue Feb 19 15:32:16 2013	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Gamma Ray Calibration Report

Serial Number:	801	
Tool Model:	2.75POH	
Performed:	Fri Apr 26 03:18:40 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6500	GAPI/cps

Sensor	Offset (ft)
GR	38.48
NEU	32.94
LSD	25.11
DCAL	24.83
SSD	24.59
CILD	10.60
SP	10.60
CILM	6.89
RLL3	1.70

Schematic



Description	Len (ft)	OD (in)	Wt (lb)
None	0.75	1.50	5.00
GR-2.75POH (801) Probe	3.73	2.75	43.00
NEU-2.75POH (803) Probe Epithermal	4.75	2.75	58.00
CDL-2.75POH (901) Probe	8.43	2.75	106.00
Probe	0.89	3.50	20.00
DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00

Dataset: joschoenberger2-17oh.db: field/well/run1/pass1
Total Length: 40.01 ft
Total Weight: 577.00 lb
O.D. 4.00 in