GEMINI WIRELINE

COMPENSATED DENSITY NEUTRON LOG

Company	Palomino Petroleum
Well	Jarvis Heirs #1
Field	Vermillion
County	Ness
State	Kansas

Company Palomino Petroleum
Well Jarvis Heirs #1
Field Vermillion
County Ness State Kansas
Location: API # : 15 135 25562
526' FNL & 955' FWL
SEC 6 TWP 17S RGE 24W
Other Services: DIL

Permanent Datum: Ground Level, Elevation 2483'
Log Measured From: KB 5' AGL
Drilling Measured From: KB
Elevation: K.B. 2488, D.F. 2487, G.L. 2483

Date	4-5-13
Run Number	One
Depth Driller	4575'
Depth Logger	4575'
Bottom Logged Interval	4562'
Top Log Interval	3700'
Casing Driller	8 5/8" @ 218'
Casing Logger	218'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.5/56
pH / Fluid Loss	10.0/7.2
Source of Sample	Pit
Rm @ Meas. Temp	1.8@62degf
Rmf @ Meas. Temp	1.4@62degf
Rmc @ Meas. Temp	2.2@62degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	98@114degf
Time Circulation Stopped	5:30 p.m.
Time Logger on Bottom	8:00 p.m.
Maximum Recorded Temperature	114degf
Equipment Number	T-12
Location	Hays, KS
Recorded By	Gus Pfannenstiel
Witnessed By	Mr.Ryan Seib

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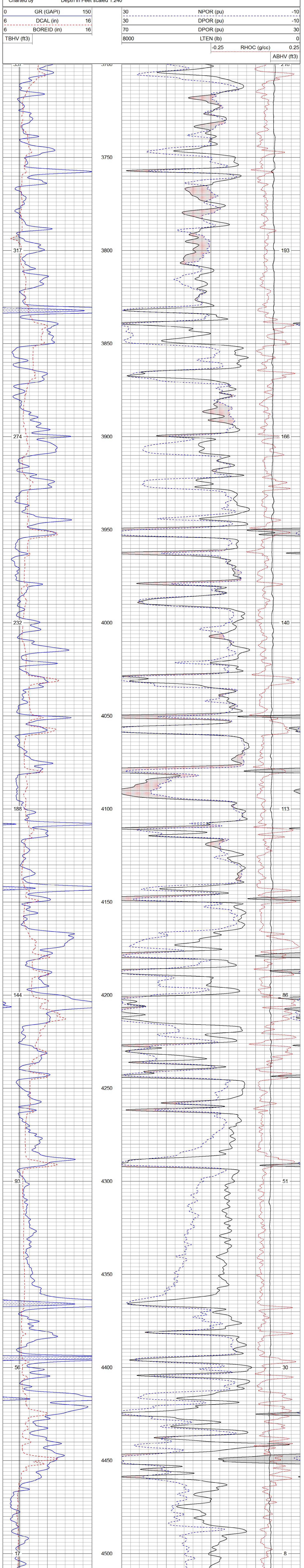
Comments

Main Pass

Database File	ppjarvisheirs#1oh.db
Dataset Pathname	pass2
Presentation Format	kcdnl
Dataset Creation	Fri Apr 05 20:52:14 2013
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)			8000	LTEN (lb)		0
				-0.25	RHOC (g/cc)	0.25
						ABHV (ft3)

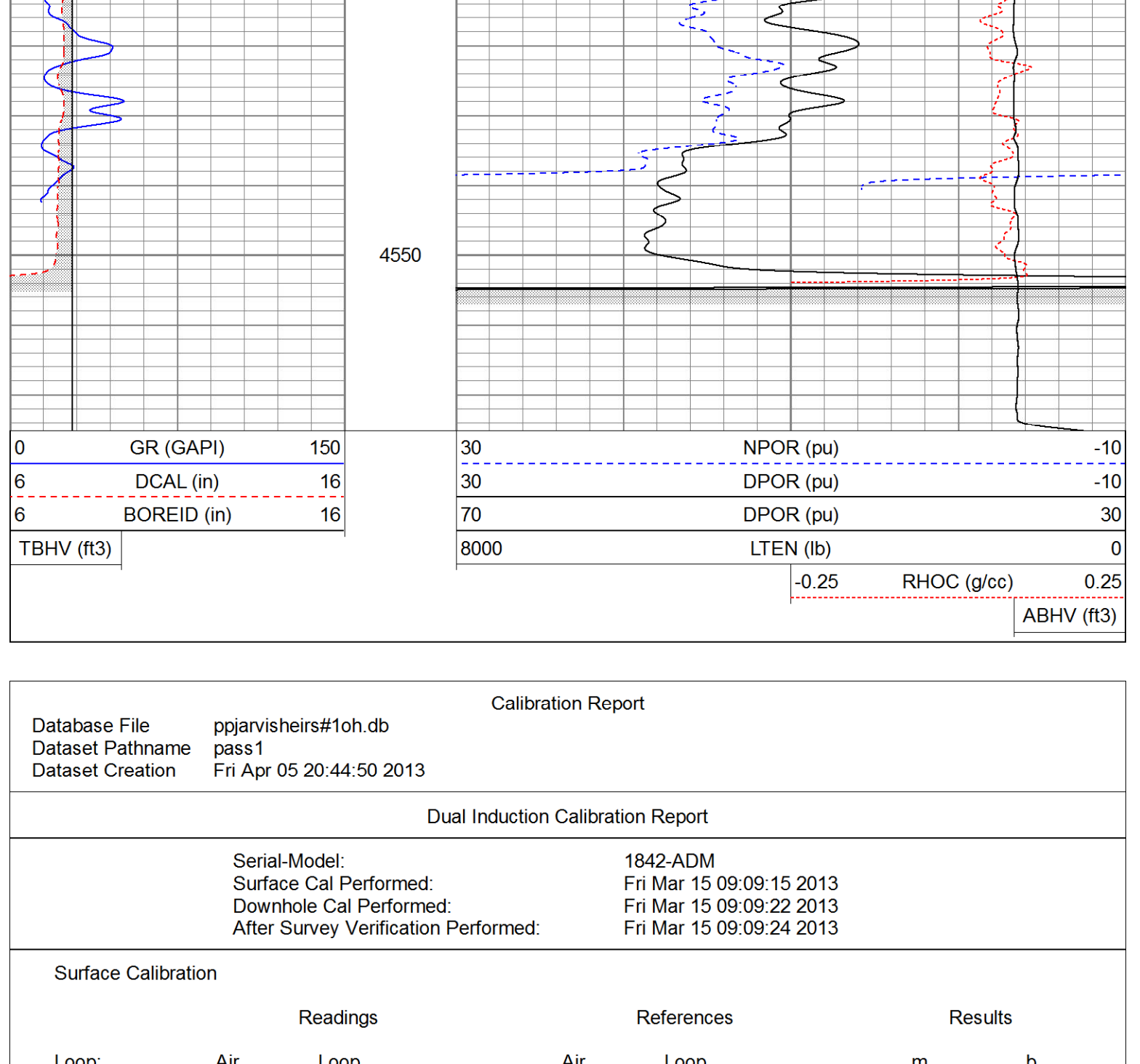


0	GR (GAPI)	150	30	NPOR (pu)		-10
6	DCAL (in)	16	30	DPOR (pu)		-10
6	BOREID (in)	16	70	DPOR (pu)		30
TBHV (ft3)			8000	LTEN (lb)		0
				-0.25	RHOC (g/cc)	0.25
						ABHV (ft3)

Repeat Pass

Database File	ppjarvisheirs#1oh.db
Dataset Pathname	pass1
Presentation Format	kcdnl
Dataset Creation	Fri Apr 05 20:44:50 2013
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)			8000	LTEN (lb)		0
				-0.25	RHOC (g/cc)	0.25
						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)			8000	LTEN (lb)		0
				-0.25	RHOC (g/cc)	0.25
						ABHV (ft3)

Calibration Report

Database File	ppjarvisheirs#1oh.db
Dataset Pathname	pass1
Dataset Creation	Fri Apr 05 20:44:50 2013

Dual Induction Calibration Report

Serial-Model:	1842-ADM
Surface Cal Performed:	Fri Mar 15 09:09:15 2013
Downhole Cal Performed:	Fri Mar 15 09:09:22 2013
After Survey Verification Performed:	Fri Mar 15 09:09:24 2013

Surface Calibration

Loop:	Readings Air	Readings Loop		References Air	References Loop		Results m	Results b
Deep	0.018	0.665	V	0.000	350.000	mmho/m	540.578	-9.483
Medium	0.004	0.768	V	0.000	400.000	mmho/m	523.869	-2.267

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.018	0.665	V	0.000	350.000	mmho/m	540.476	-9.540
Medium	0.004	0.768	V	0.000	550.000	mmho/m	720.648	-3.132

Downhole Calibration

Internal:	Readings Zero	Readings Cal		References Zero	References Cal		Results m	Results b
Deep	0.122	350.000	mmho/m	0.059	350.125	mmho/m	1.001	-0.063
Medium	0.022	399.981	mmho/m	0.010	399.827	mmho/m	1.000	-0.013
Shallow	2.549	0.021	V	500.000	2.000	Ohm-m	196.997	-3.000

After Survey Verification

Internal:	Readings Zero	Readings Cal		Targets Zero	Targets Cal		Results m'	Results b'
Deep	0.000	0.000	mmho/m	0.122	350.000	mmho/m	1.001	-0.063
Medium	0.000	0.000	mmho/m	0.022	399.981	mmho/m	1.000	-0.013
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report

Serial-Model:	2388DHT-DHT
Source / Verifier:	/
Master Calibration Performed:	Fri Mar 15 09:09:56 2013
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	677.63	298.90	cps
Aluminum	2.620	g/cc	127.62	185.00	cps

Spine Angle = 73.97 Density/Spine Ratio = 0.501

	Size		Reading
Small Ring	8.05	in	5771.32
Large Ring	14.00	in	10165.20

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

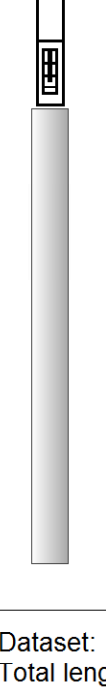
Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Wed Jan 23 08:35:52 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2300	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Mon Mar 04 15:15:14 2013	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			None	0.75	1.50	5.00
NEU	36.50		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	30.56		GR-OH (2001) 2001	3.56	3.25	40.00
LSD	22.02		DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
DCAL	21.73					
SSD	21.48					
HEADVOLT	19.71					
SP	10.60		DIL-ADM (1842) Dual Induction	19.71	4.00	300.00
CILD	10.60					
CILM	6.89					
RLL3	1.70					

Dataset:	ppjarvisheirs#1oh.db: field/well/run1/pass1
Total length:	38.63 ft
Total weight:	631.00 lb
O.D.:	4.00 in