COMPENSATED DENSITY NEUTRON LOG

Company	John O Farmer Inc.
Well	Hansen #1
Field	Ray
County	Phillips
State	Kansas

Company John O Farmer Inc.
Well Hansen #1
Field Ray
County Phillips State Kansas

Location: API # : 15 147 20682
330' FSL & 330' FWL
SEC 21 TWP 5S RGE 20W

Other Services
ML
DIL

Permanent Datum Ground Level Elevation 2190'
Log Measured From KB 5' AGL
Drilling Measured From KB

Elevation
K.B. 2195'
D.F. 2194'
G.L. 2190'

Date	6-24-12
Run Number	One
Depth Driller	3688'
Depth Logger	3688'
Bottom Logged Interval	3665'
Top Log Interval	3000'
Casing Driller	208'
Casing Logger	208'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical Mud
Density / Viscosity	9.2/60
pH / Fluid Loss	11.5/8.0
Source of Sample	Pit
Rm @ Meas. Temp	1.5@85degf
Rmf @ Meas. Temp	.75@85degf
Rmc @ Meas. Temp	1.8@85degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	1.2@106degf
Time Circulation Stopped	7:30 p.m.
Time Logger on Bottom	9:00 p.m.
Maximum Recorded Temperature	106 degf
Equipment Number	T045
Location	Hays, KS.
Recorded By	L. Smith
Witnessed By	Mr. Austin Klaus

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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

ABHV Calculated For 5.5" Casing

Thank you for using The Perforators LLC
Hays, KS (785) 621-4604

Main Pass

Database File: jofhansen#1oh.db
Dataset Pathname: pass3
Presentation Format: kcdnl
Dataset Creation: Sun Jun 24 21:14:55 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

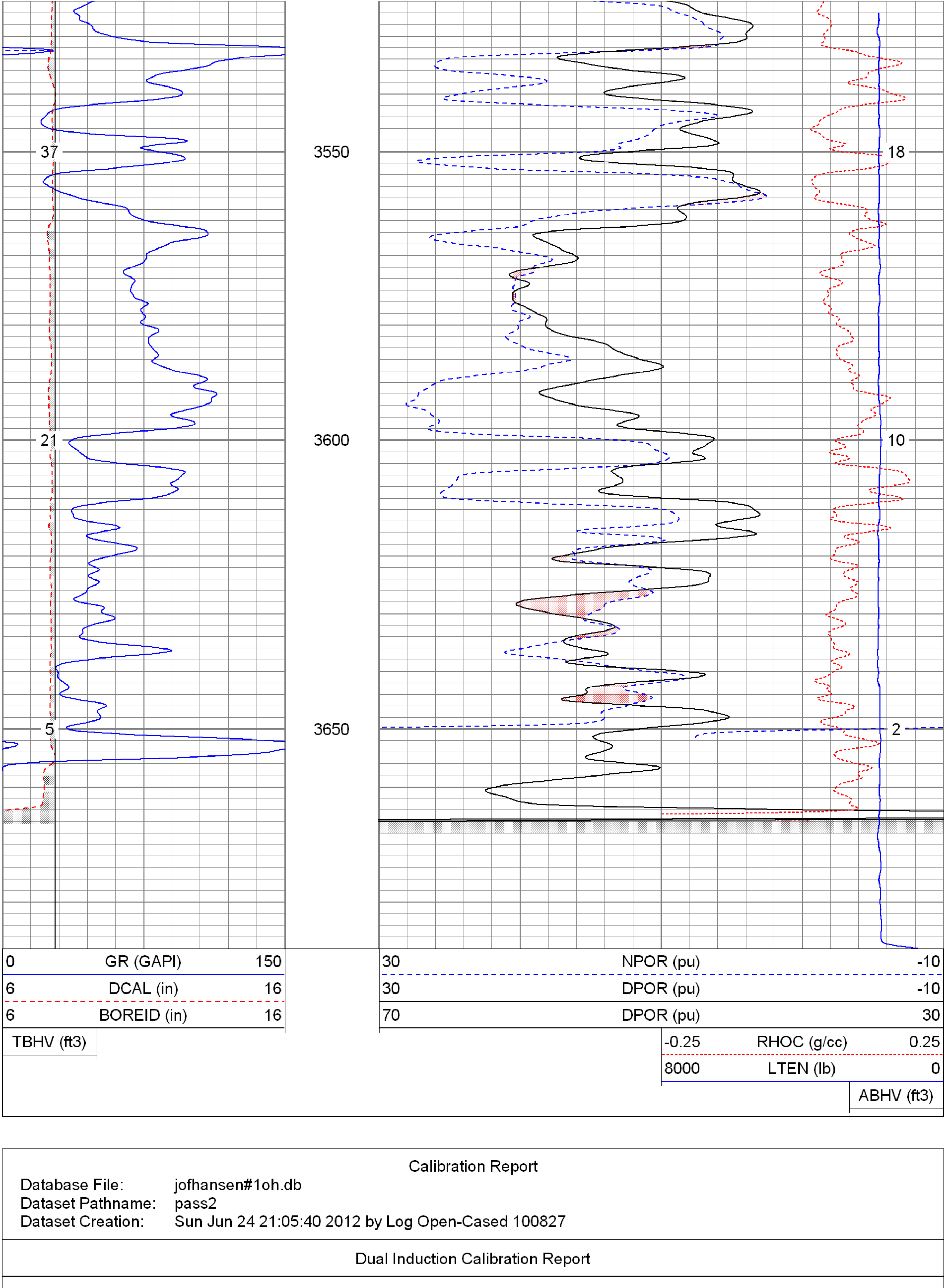
0	GR (GAPI)	150	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
TBHV (ft3)			-0.25	RHOC (g/cc)	0.25
			8000	LTEN (lb)	0
				ABHV (ft3)	

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)	

Repeat Pass

Database File: jofhansen#1oh.db
Dataset Pathname: pass2
Presentation Format: kcdnl
Dataset Creation: Sun Jun 24 21:05:40 2012 by Log 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)	



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: jofhansen#1oh.db
Dataset Pathname: pass2
Dataset Creation: Sun Jun 24 21:05:40 2012 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 080522-Probe
Surface Cal Performed: Sun Jun 03 19:16:54 2012
Downhole Cal Performed: Sun Jun 03 19:17:47 2012
After Survey Verification Performed: Sun Jun 03 19:17:47 2012

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.000	0.639	V	0.000	400.000	mmho/m	626.605	-0.291
Medium	0.002	0.737	V	0.000	464.000	mmho/m	631.164	-1.052
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.639	V	0.000	400.000	mmho/m	626.929	-0.486
Medium	0.002	0.737	V	0.000	464.000	mmho/m	631.641	-1.307

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.142	400.398	mmho/m	0.195	399.989	mmho/m	0.999	0.054
Medium	0.293	464.339	mmho/m	0.254	463.904	mmho/m	0.999	-0.038
LL3		7.252	V		750.000	Ohm-m		
		0.000	V		12.000	Ohm-m		
		-7.329	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
Source / Verifier: /
Master Calibration Performed: Thu Jun 21 11:00:02 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	717.11	305.57	cps
Aluminum	2.620	g/cc	140.63	205.93	cps

Spine Angle = 76.38
Density/Spine Ratio = 0.519

	Size		Reading
Small Ring	8.15	in	5771.32
Large Ring	14.00	in	10165.20

Gamma Ray Calibration Report

Serial Number: 2000
Tool Model: P2000
Performed: Tue Jun 19 18:23:04 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2200 GAPI/cps

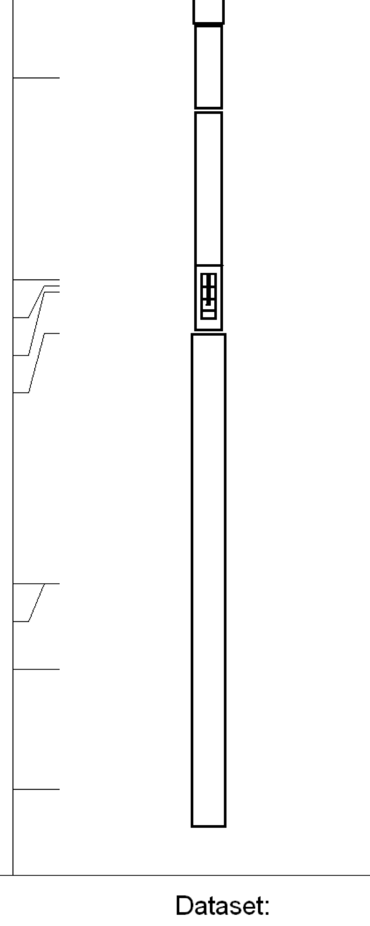
Neutron Calibration Report

Serial Number: 5108
Tool Model: PROBE
Performed: Tue May 29 17:59:56 2012

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
NEU	37.96		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.57		GR-P2000 (2000)	3.67	3.25	40.00
LSD DCAL SSD HEADVOLT	23.78 23.49 23.24 21.47		CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
CILD SP CILM RLL3	10.60 10.60 6.89 1.70		DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00

Dataset: jofhansen#1oh.db: field/well/run1/pass2
Total Length: 40.49 ft
Total Weight: 676.00 lb
O.D.: 4.00 in