The Perforators LLC

COMPENSATED DENSITY NEUTRON LOG

Company Charles N. Griffin
Well Ash OWWO
Field Medicine Lodge-Boggs
County Barber State Kansas

Location: API # : 15 007 20368 00 01
4485' FSL & 750' FEL
SEC 33 TWP 32S RGE 12W

Other Services
DIL

Permanent Datum Ground Level Elevation 1615'
Log Measured From KB 8' AGL
Drilling Measured From KB

Elevation
K.B. 1623'
D.F. 1622'
G.L. 1615'

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Date	8-16-11
Run Number	One
Depth Driller	4960'
Depth Logger	4965'
Bottom Logged Interval	4939'
Top Log Interval	3600'
Casing Driller	254'
Casing Logger	254'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	8.6/68/
pH / Fluid Loss	12.0/10.4
Source of Sample	Pit
Rm @ Meas. Temp	.32@82degf
Rmf @ Meas. Temp	.24@82degf
Rmc @ Meas. Temp	.51@82degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.23@116degf
Time Circulation Stopped	3:30 p.m.
Time Logger on Bottom	5:45 p.m.
Maximum Recorded Temperature	116 degf
Equipment Number	T045
Location	Hays, KS.
Recorded By	L. Smith
Witnessed By	Mr. Bruce Reed Mr. JR Griffin

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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

South of Medicine Lodge on 281 2.5 mi. ,
W on Pleasent Valley Rd. Stay on main rd.,
when rd. curves S go across 2 cattle guards and stay on lease rd. to top of hill across from Griffin tank battery.

ABHV Caculated for 5.5" Casing.

Thanks for using The Perforators LLC Hays, KS. (785-621-4604)

The Perforators LLC

Main Pass

Database File: cgashowwooh.db
Dataset Pathname: pass2
Presentation Format: kcdnl
Dataset Creation: Tue Aug 16 17:58:26 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

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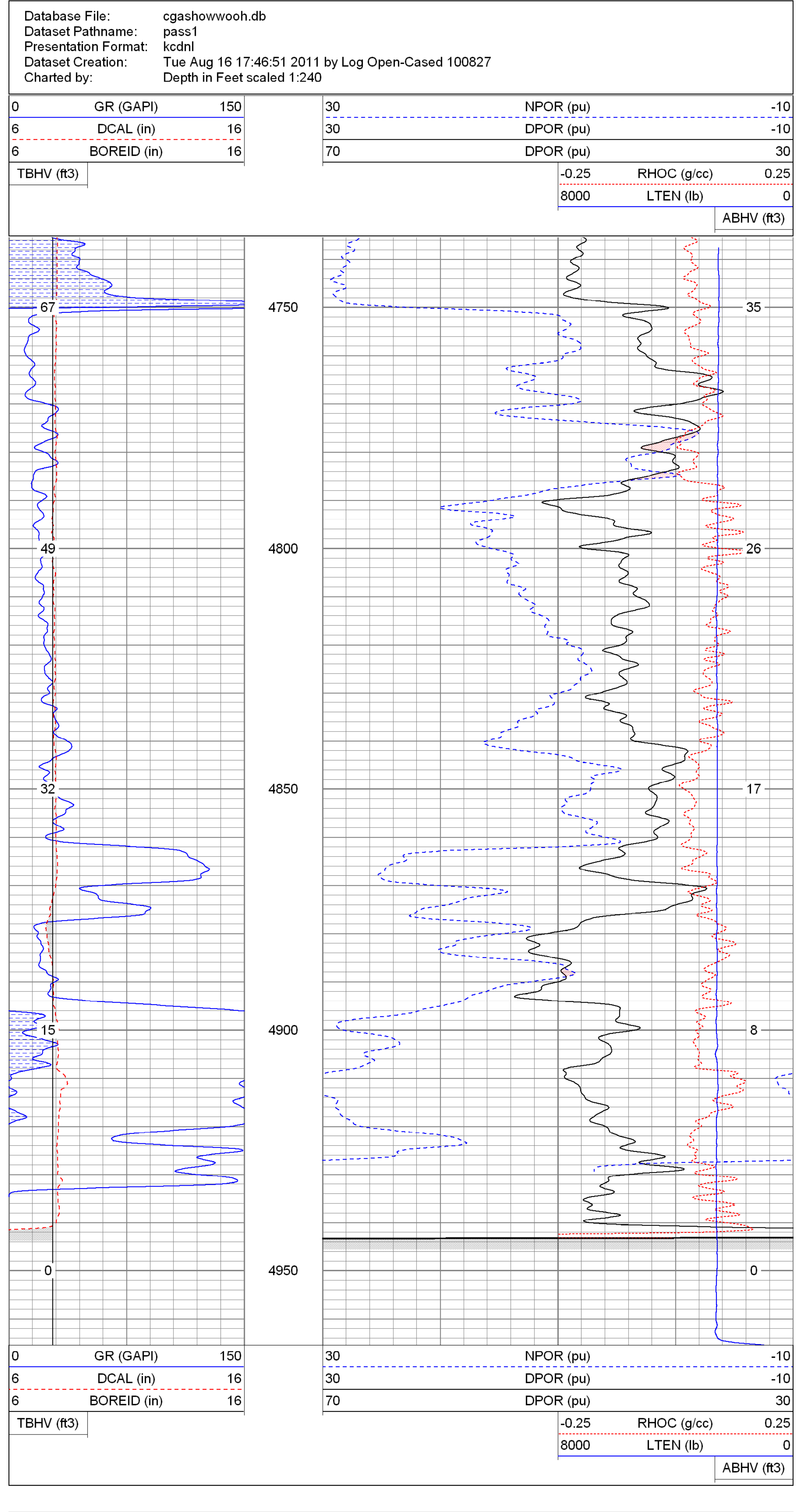
Repeat Pass

Database File: cgashowwooh.db
Dataset Pathname: pass1
Presentation Format: kcdnl
Dataset Creation: Tue Aug 16 17:46:51 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: cgashowwooh.db
Dataset Pathname: pass1
Dataset Creation: Tue Aug 16 17:46:51 2011 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 080522-Probe
Surface Cal Performed: Fri Jul 29 15:35:44 2011
Downhole Cal Performed: Fri Jul 29 15:35:48 2011
After Survey Verification Performed: Fri Jul 29 15:35:57 2011

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.000	0.638	V	0.000	400.000	mmho/m	626.857	0.275
Medium	0.001	0.741	V	0.000	464.000	mmho/m	626.953	-0.823
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.638	V	0.000	400.000	mmho/m	627.013	-0.291
Medium	0.001	0.741	V	0.000	464.000	mmho/m	627.190	-0.915

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.096	400.608	mmho/m	0.566	400.467	mmho/m	0.998	0.471
Medium	-0.069	464.142	mmho/m	0.092	463.916	mmho/m	0.999	0.161
LL3		7.358	V		750.000	Ohm-m		
		0.001	V		12.000	Ohm-m		
		-7.218	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 2501DHT-DHT
Source / Verifier: /
Master Calibration Performed: Fri Jul 29 13:49:52 2011

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.730	g/cc	744.27	293.58	cps
Aluminum	2.700	g/cc	138.48	189.15	cps

Spine Angle = 75.35 Density/Spine Ratio = 0.558

	Size		Reading
Small Ring	7.90	in	6064.22
Large Ring	14.00	in	10296.80

Gamma Ray Calibration Report

Serial Number: 2000
Tool Model: P2000
Performed: Thu Jul 28 10:33:00 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2200 GAPI/cps

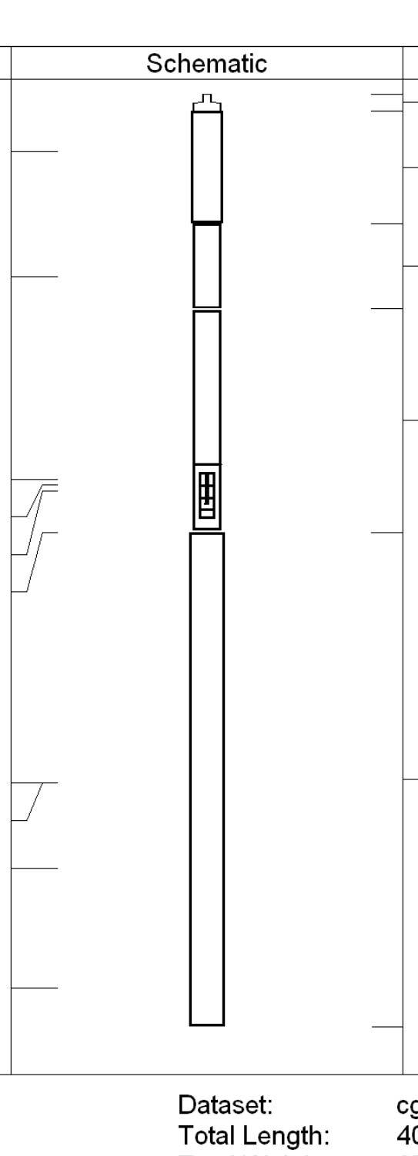
Neutron Calibration Report

Serial Number: 5108
Tool Model: PROBE
Performed: Sat Jul 30 10:54:34 2011

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 (2501DHT) 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: cgashowwooh.db: field/well/run1/pass1
Total Length: 40.49 ft
Total Weight: 676.00 lb
O.D. 4.00 in