The Perforators LLC

DUAL INDUCTION LOG

Company	Charles N. Griffin
Well	Dillman Ash #4
Field	Toni-Mike
County	Barber
State	Kansas

Company Charles N. Griffin
Well Dillman Ash #4
Field Toni-Mike
County Barber State Kansas
Location: API # : 15 007 23883
440' F NL & 850' FWL
SEC 34 TWP 32S RGE 12W

Other Services
CDNL

Permanent Datum Ground Level Elevation 1570'
Log Measured From KB 8' AGL
Drilling Measured From KB

Elevation
K.B. 1578'
D.F. 1577'
G.L. 1570'

Date	6-14-12	
Run Number	One	
Depth Driller	4880'	
Depth Logger	4885'	
Bottom Logged Interval	4883'	
Top Log Interval	250'	
Casing Driller	263'	
Casing Logger	263'	
Bit Size	7 7/8"	
Type Fluid in Hole	Chemical	
Density / Viscosity	9.7/51	
pH / Fluid Loss	10/11.2	
Source of Sample	Pit	
Rm @ Meas. Temp	.9@80degf	
Rmf @ Meas. Temp	.68@80degf	
Rmc @ Meas. Temp	1.09@80degf	
Source of Rmf / Rmc	Calculated	
Rm @ BHT	.62@116degf	
Time Circulation Stopped	10:00 a.m.	
Time Logger on Bottom	1:00 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.

ABHV Caculated for 5.5" Casing.

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

The Perforators LLC

Main Pass

Database File: cgdillmanash#4oh.db
Dataset Pathname: pass2
Presentation Format: kdillin2
Dataset Creation: Wed Jun 27 13:18:29 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:600

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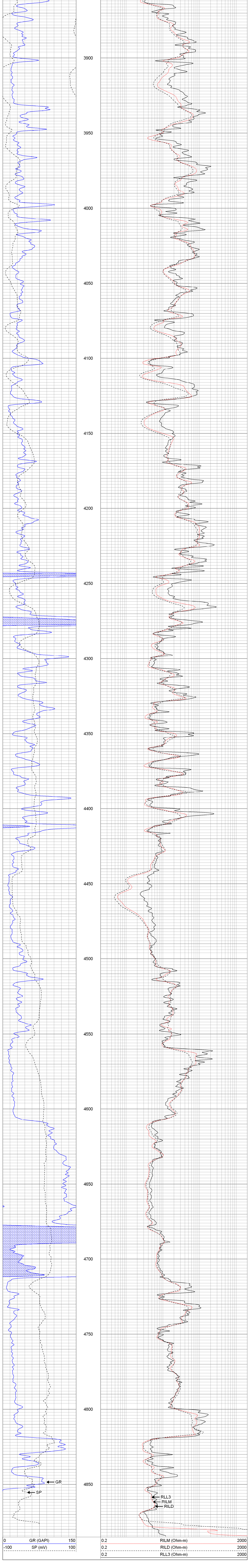
Main Pass

Database File: cgdillmanash#4oh.db
Dataset Pathname: pass2
Presentation Format: kdil
Dataset Creation: Wed Jun 27 13:18:29 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240



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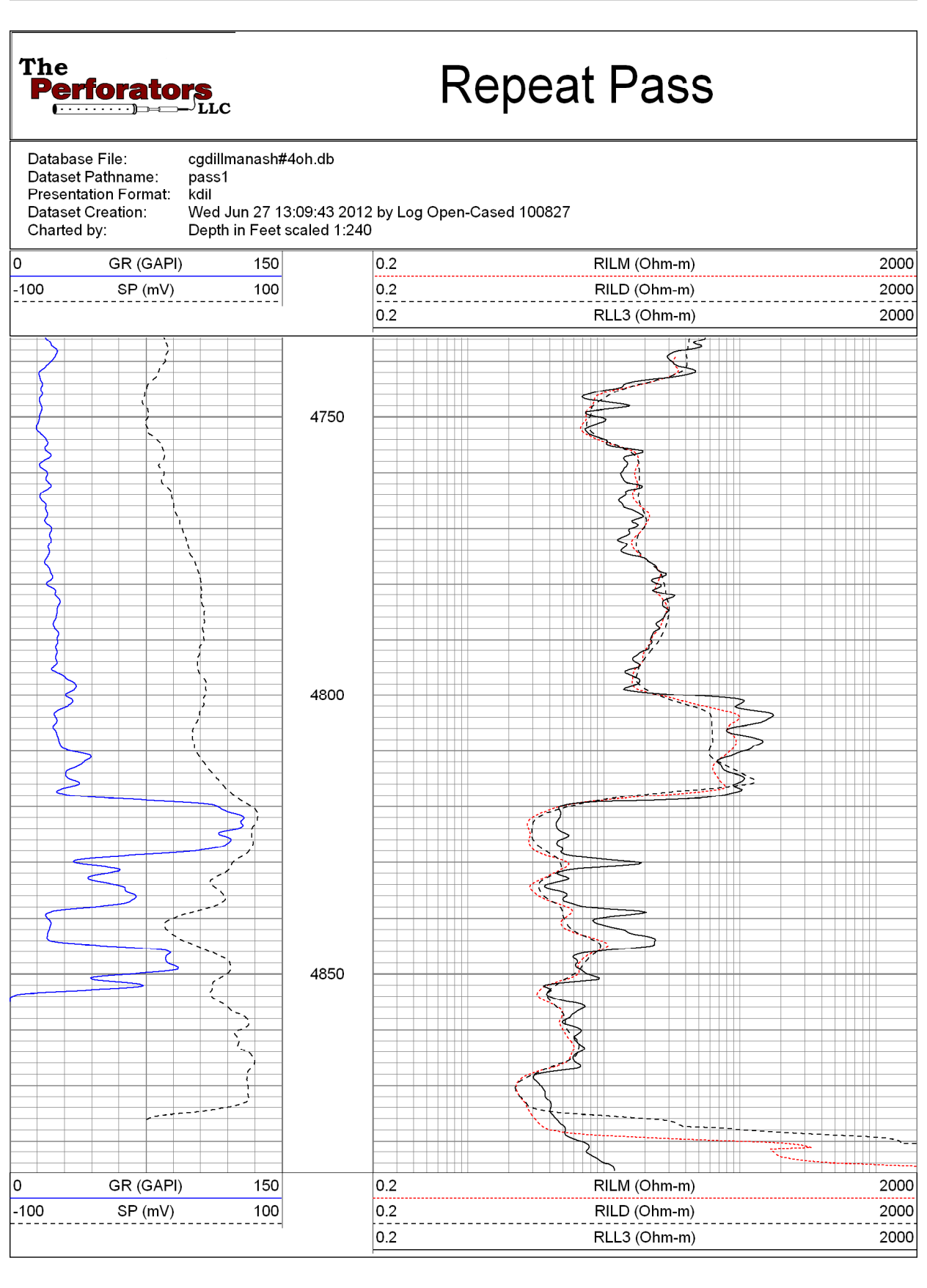
Repeat Pass

Database File: cgdillmanash#4oh.db
Dataset Pathname: pass1
Presentation Format: kdil
Dataset Creation: Wed Jun 27 13:09:43 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: cgdillmanash#4oh.db
Dataset Pathname: pass1
Dataset Creation: Wed Jun 27 13:09:43 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: 2501DHT-DHT
Source / Verifier: /
Master Calibration Performed: Thu Jun 07 07:55:52 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	730.34	284.20	cps
Aluminum	2.680	g/cc	135.83	183.82	cps

Spine Angle = 75.48
Density/Spine Ratio = 0.535

	Size		Reading
Small Ring	7.85	in	6064.22
Large Ring	14.00	in	10296.80

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

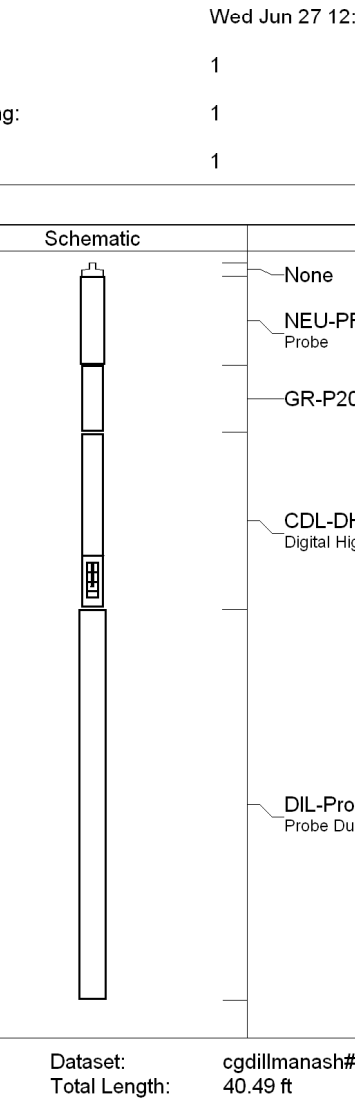
Neutron Calibration Report

Serial Number: 5108
Tool Model: PROBE
Performed: Wed Jun 27 12:59:57 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 (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: cgdillmanash#4oh.db: field/well/run1/pass1
Total Length: 40.49 ft
Total Weight: 676.00 lb
O.D.: 4.00 in