The Perforators LLC

DUAL INDUCTION LOG

Company John O Farmer Inc.
Well Sutley A #1
Field Wildcat
County Phillips
State Kansas

Company John O Farmer Inc.
Well Sutley A #1
Field Wildcat
County Phillips State Kansas
Location: API # : 15 147 20651
1920' FNL & 740' FWL
SEC 19 TWP 4S RGE 18W

Other Services
ML
CDNL

Permanent Datum Ground Level Elevation 1937'
Log Measured From KB 5' AGL
Drilling Measured From KB

Elevation
K.B. 1942'
D.F. 1941'
G.L. 1937'

Date	12-11-11
Run Number	One
Depth Driller	3600'
Depth Logger	3600'
Bottom Logged Interval	3598'
Top Log Interval	210'
Casing Driller	231'
Casing Logger	231'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical Mud
Density / Viscosity	9.2/45
pH / Fluid Loss	10.5/8.8
Source of Sample	Pit
Rm @ Meas. Temp	1.7@65degf
Rmf @ Meas. Temp	1.36@65degf
Rmc @ Meas. Temp	2.72@65degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	1.04@106degf
Time Circulation Stopped	3:00 a.m..
Time Logger on Bottom	6:30 a.m.
Maximum Recorded Temperature	106 degf
Equipment Number	T045
Location	Hays, KS.
Recorded By	L. Smith
Witnessed By	Mr. Randy Killian

<<< Fold Here >>>

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

Hyw 9 west of Glade Ks., N on 400 rd.

The Perforators LLC

Main Pass

Database File: jofsutleya#1oh.db
Dataset Pathname: pass2
Presentation Format: kdillin2
Dataset Creation: Sun Dec 11 07:39:16 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:600

0 GR (GAPI) 150
-200 SP (mV) 0
0 RILD (Ohm-m) 50
0 RLL3 (Ohm-m) 50
1000 CILD (mmho/m) 0
10000 LTEN (lb) 0
50 RILD x 10 (Ohm-m) 500
50 RLL3 x 10 (Ohm-m) 500

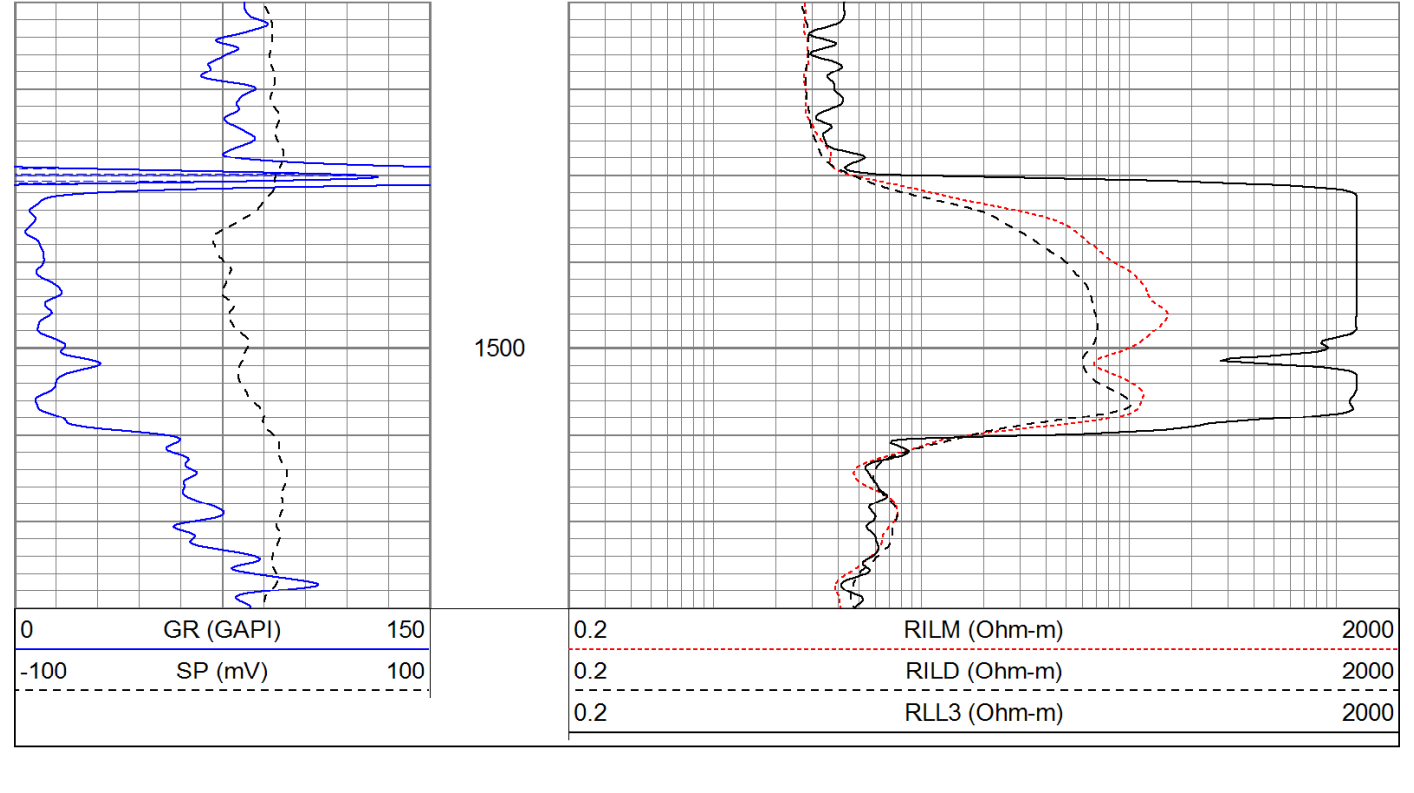
0 GR (GAPI) 150
-200 SP (mV) 0
0 RILD (Ohm-m) 50
0 RLL3 (Ohm-m) 50
1000 CILD (mmho/m) 0
10000 LTEN (lb) 0
50 RILD x 10 (Ohm-m) 500
50 RLL3 x 10 (Ohm-m) 500

The Perforators LLC

Main Pass

Database File: jofsutleya#1oh.db
Dataset Pathname: pass2
Presentation Format: kdil
Dataset Creation: Sun Dec 11 07:39:16 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000



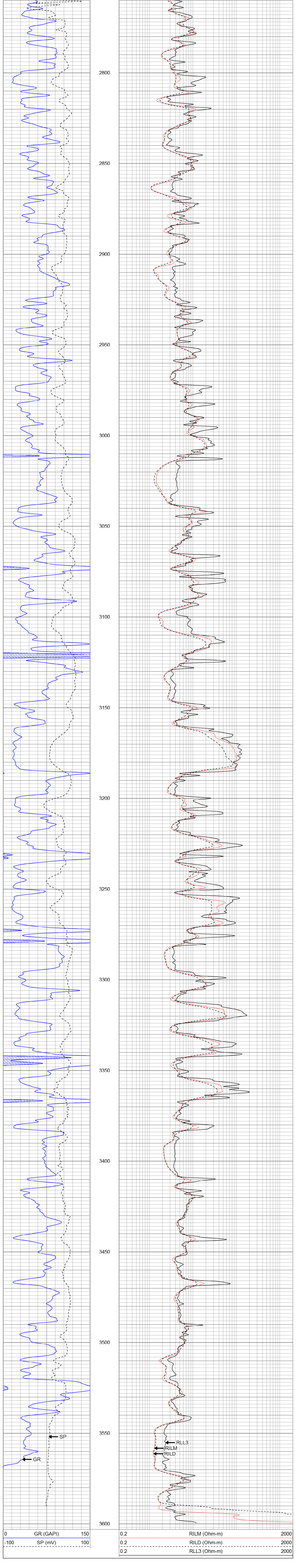
0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

The Perforators LLC

Main Pass

Database File: jofsutleya#1oh.db
Dataset Pathname: pass2
Presentation Format: kdil
Dataset Creation: Sun Dec 11 07:39:16 2011 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000



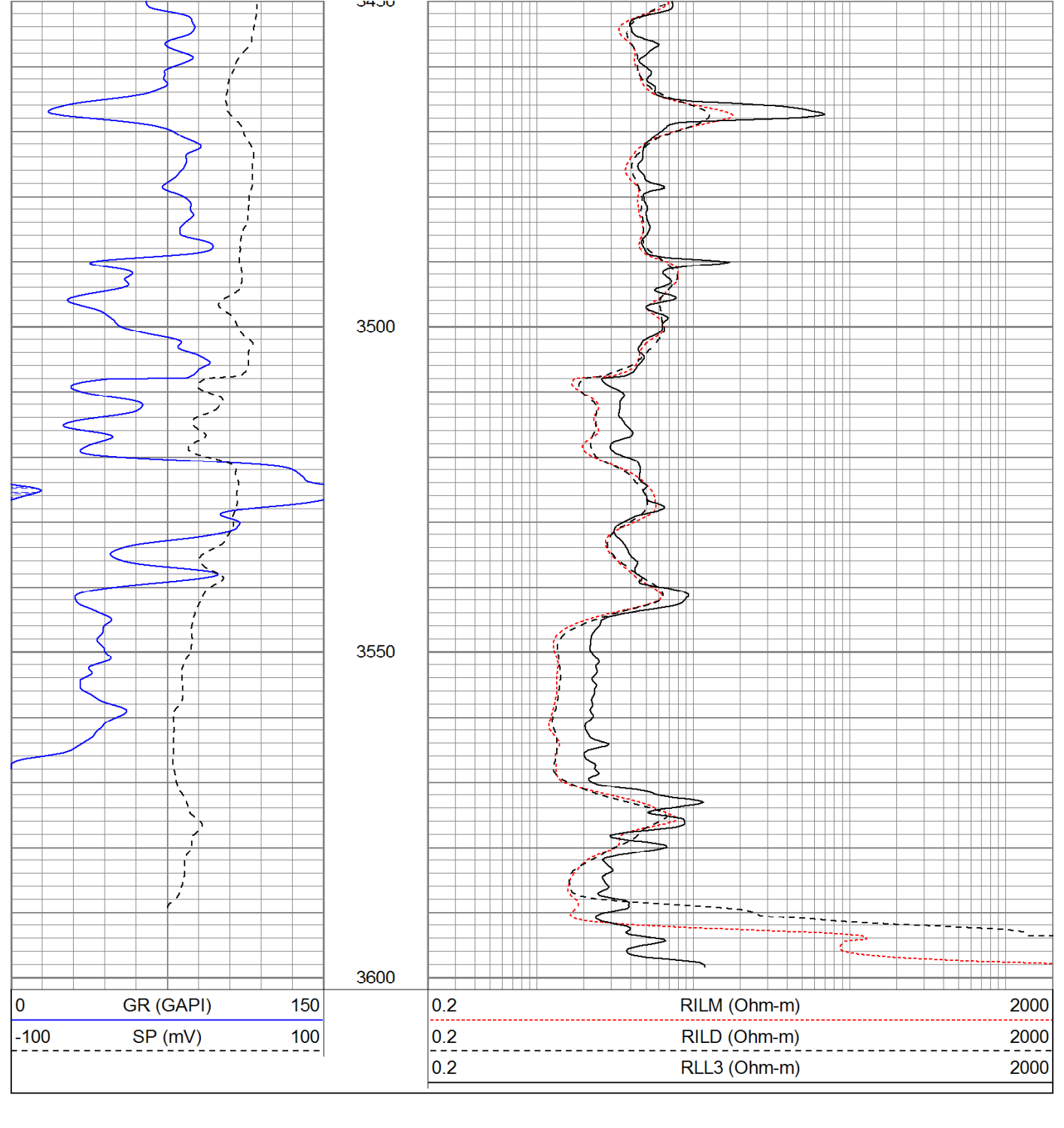
0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

The Perforators LLC

Repeat Pass

Database File: jofsutleya#1oh.db
Dataset Pathname: pass1.1
Presentation Format: kdil
Dataset Creation: Sun Dec 11 08:07:12 2011
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000



0 GR (GAPI) 150
-100 SP (mV) 100
0.2 RILM (Ohm-m) 2000
0.2 RILD (Ohm-m) 2000
0.2 RLL3 (Ohm-m) 2000

Calibration Report

Database File: jofsutleya#1oh.db
Dataset Pathname: pass1
Dataset Creation: Sun Dec 11 07:29:21 2011 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 080522-Probe
Surface Cal Performed: Wed Nov 02 06:37:29 2011
Downhole Cal Performed: Wed Nov 02 06:37:32 2011
After Survey Verification Performed: Wed Nov 02 06:37:34 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		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.096	400.608	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-0.069	464.142	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		750.000	Ohm-m		
		0.000	Ohm-m		12.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
Source / Verifier: /
Master Calibration Performed: Wed Nov 30 13:35:48 2011
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	688.93	303.28	cps
Aluminum	2.670	g/cc	128.53	194.02	cps

Spine Angle = 75.10
Density/Spine Ratio = 0.530

	Size		Reading
Small Ring	8.15	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: 2000
Tool Model: P2000
Performed: Thu Dec 01 13:12:17 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2200 GAPI/cps

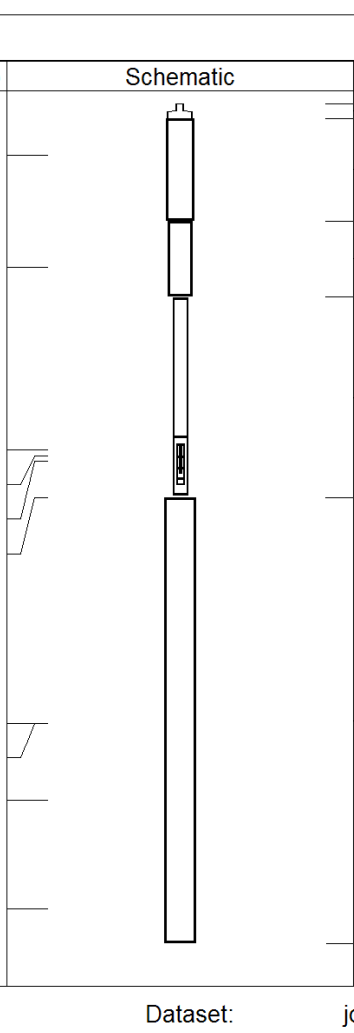
Neutron Calibration Report

Serial Number: 5108
Tool Model: PROBE
Performed: Wed Nov 30 13:40:27 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
			CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	23.78					
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					
CILD	10.60		DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: jofsutleya#1oh.db: field/well/run1/pass1
Total Length: 40.49 ft
Total Weight: 676.00 lb
O.D. 4.00 in