The Perforators LLC

COMPENSATED DENSITY NEUTRON LOG

Company American Land And Energy LLC
Well Werth/Gerstner #1
Field Gerstner
County Ellis
State Kansas

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Field Gerstner
County Ellis State Kansas
Location: API #: 15 051 26412
1325' FSL & 1110' FWL
SEC 24 TWP 14S RGE 17W
Other Services ML DIL

Permanent Datum Ground Level Elevation 1942'
Log Measured From KB 6' AGL
Drilling Measured From KB

Elevation
K.B. 1948'
D.F. 1947'
G.L. 1942'

Date	11-27-12	
Run Number	One	
Depth Driller	3551'	
Depth Logger	3551'	
Bottom Logged Interval	3528'	
Top Log Interval	2800'	
Casing Driller	1093'	
Casing Logger	1093'	
Bit Size	7 7/8"	
Type Fluid in Hole	Chemical Mud	
Density / Viscosity	9.4/56	
pH / Fluid Loss	8.5/9.6	
Source of Sample	Pit	
Rm @ Meas. Temp	.3@58degf	
Rmf @ Meas. Temp	.23@58degf	
Rmc @ Meas. Temp	.36@58degf	
Source of Rmf / Rmc	Calculated	
Rm @ BHT	.15@112degf	
Time Circulation Stopped	10:30 p.m.	
Time Logger on Bottom	12:10 a.m.	
Maximum Recorded Temperature	112 degf	
Equipment Number	T045	
Location	Hays, KS.	
Recorded By	Gus Pfannenstiel	
Witnessed By	Mr. Marc Downing	Mr. Gary Leiker

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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

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

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Main Pass

Database File: werthgers.db
Dataset Pathname: pass2
Presentation Format: kcdnl
Dataset Creation: Tue Nov 27 00:12:54 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

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

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

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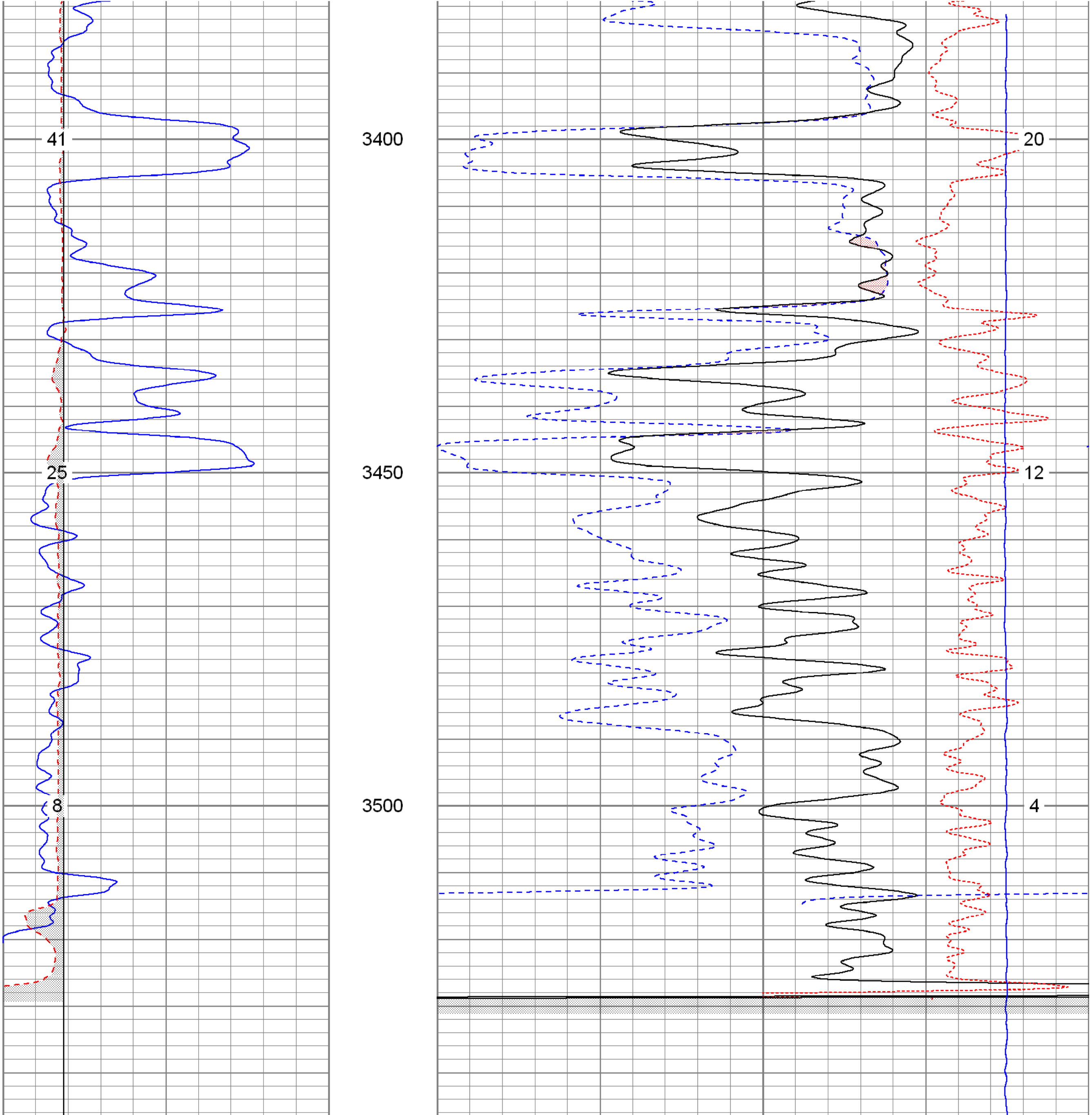
Repeat Pass

Database File: werthgers.db
Dataset Pathname: pass1
Presentation Format: kcdnl
Dataset Creation: Tue Nov 27 00:01:34 2012 by Log Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

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



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

Calibration Report

Database File: werthgers.db
Dataset Pathname: pass1
Dataset Creation: Tue Nov 27 00:01:34 2012 by Log Open-Cased 100827

Dual Induction Calibration Report

Serial-Model: 5375-G
Surface Cal Performed: Thu Sep 13 16:02:51 2012
Downhole Cal Performed: Thu Sep 13 16:03:26 2012

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.640	V	0.000	350.000	mmho/m	548.531	-1.045
Medium	0.005	0.742	V	0.000	400.000	mmho/m	542.602	-2.696
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.640	V	0.000	350.000	mmho/m	547.641	-0.739
Medium	0.005	0.742	V	0.000	550.000	mmho/m	745.701	-3.500

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.094	350.007	mmho/m	-0.305	350.264	mmho/m	1.002	-0.399
Medium	0.252	399.957	mmho/m	-0.149	400.053	mmho/m	1.001	-0.401
Shallow	2.471	0.009	V	500.000	2.000	Ohm-m	202.280	0.097

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
Source / Verifier: /
Master Calibration Performed: Thu Sep 13 16:04:57 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

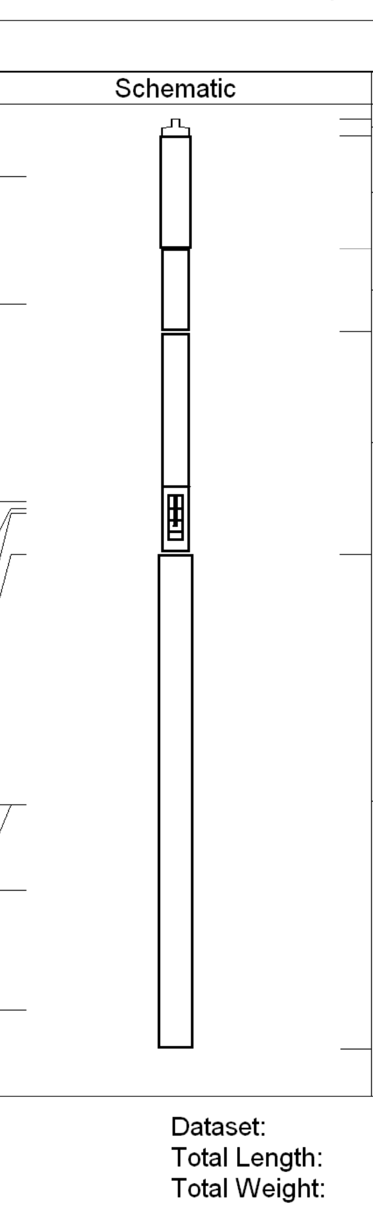
	Size		Reading
Small Ring	8.25	in	5771.32
Large Ring	14.00	in	10165.20

Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Thu Nov 22 09:34:58 2012	
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:	Sun Oct 21 17:05:02 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	37.85		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) 2001	3.56	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-G (5375) Gearhart	21.47	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: werthgers.db: field/well/run1/pass1
Total Length: 40.39 ft
Total Weight: 676.00 lb
O.D. 4.00 in