Company: John O Farmer Inc
Well: Wilkin # 42
Field: Hansen West
County: Phillips
State: Kansas

Company: John O Farmer Inc
Well: Wilkin # 42
County: Phillips
State: Kansas
Location: QQ0000 Sec 00 Twp 00S Rge 00W
Permanent Datum: GL Elevation: 2000 K.B. 2005
Log Measured From: K.B. 5 Ft. Above Perm. Datum
Drilling Measured From: K.B.
API #: 15-147-20880
Other Services: DIL

COMPENSATED DENSITY NEUTRON LOG

Run Number: ONE
Date: 09-Sep-12
Depth Driller: 3397
Depth Logger: 3397
Bottom Logged Interval: 3397
Top Logged Interval: 2700
Type Fluid in Hole: Chem Mud
Salinity: 6.5
Density: 9.2
Viscosity: 48
Fluid Loss: 6.8
Source of Sample: Flow Line
Rm @ Meas Temp: 0.57 @ 90
Rmf @ Meas Temp: 0.46 @ 90
Rmc @ Meas Temp: 0.75 @ 90
Source of Rmf and Rmc: Calculated
Rm @ BHT: 0.32 @ 120
Time Circ. Ended: 03:00
Time Logger on Bottom: 06:00
Max Rec. Temp: 120
Equip. Location: Hays
Recorded By: Phillips
Witnessed By: Farmer

Run Number: TWO
Date: 10-Sep-12
Depth Driller: 3397
Depth Logger: 3397
Bottom Logged Interval: 3397
Top Logged Interval: 2700
Type Fluid in Hole: Chem Mud
Salinity: 6.5
Density: 9.2
Viscosity: 48
Fluid Loss: 6.8
Source of Sample: Flow Line
Rm @ Meas Temp: 0.57 @ 90
Rmf @ Meas Temp: 0.46 @ 90
Rmc @ Meas Temp: 0.75 @ 90
Source of Rmf and Rmc: Calculated
Rm @ BHT: 0.32 @ 120
Time Circ. Ended: 03:00
Time Logger on Bottom: 06:00
Max Rec. Temp: 120
Equip. Location: Hays
Recorded By: Phillips
Witnessed By: Farmer

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.

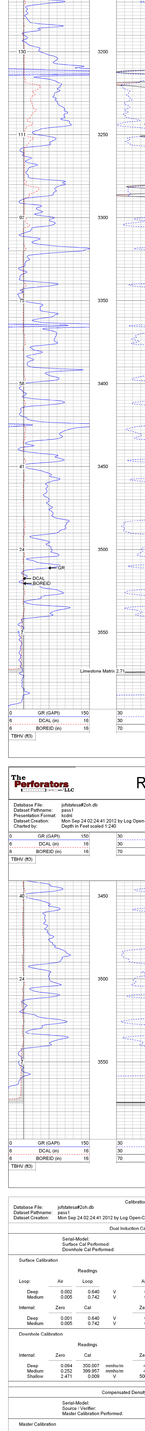
Comments

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

Main Pass

Database File: jobMaster#2oh.db
Dataset Pathname: pass2
Dataset Presentation: Main
Dataset Creation: Mon Sep 24 02:34:12 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	BORED (in)	16	70	DPOR (pu)	30
TBHV (lb)			-0.25	RHOC (gcc)	0.25
			8000	LTEN (lb)	0
				ABHV (lb)	



Repeat Pass

Database File: jobMaster#2oh.db
Dataset Pathname: pass1
Dataset Presentation: Main
Dataset Creation: Mon Sep 24 02:24:41 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	BORED (in)	16	70	DPOR (pu)	30
TBHV (lb)			-0.25	RHOC (gcc)	0.25
			8000	LTEN (lb)	0
				ABHV (lb)	



Calibration Report

Database File: jobMaster#2oh.db
Dataset Pathname: pass1
Dataset Creation: Mon Sep 24 02:24:41 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 16:03:28 2012

Surface Calibration

Loop:	Air	Loop	Air	Loop		Air	Loop		m	b
Deep	0.002	0.640	0.000	350.000	mmho/m	546.531	-1.045	Deep	0.000	0.640
Medium	0.005	0.742	0.000	400.000	mmho/m	542.602	-2.696	Medium	0.000	0.742
Internal:	Zero	Cal	Zero	Cal		m	b	Internal:	Zero	Cal
Deep	0.001	0.640	0.000	350.000	mmho/m	547.641	-0.736	Deep	0.000	0.640
Medium	0.005	0.742	0.000	550.000	mmho/m	740.761	-3.500	Medium	0.000	0.742

Downhole Calibration

Internal:	Zero	Cal	Zero	Cal		m	b
Deep	0.064	350.607	-0.305	350.264	mmho/m	1.002	-0.399
Medium	0.252	399.957	-0.149	400.053	mmho/m	1.001	-0.401
Shallow	2.471	0.000	0.000	2.000	Ohm-m	202.289	0.097

	Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.002	0.640	V	0.000	350.000	mmho/m	546.531	-1.045	Deep
Medium	0.005	0.742	V	0.000	400.000	mmho/m	542.602	-2.696	Medium
Internal:	Zero	Cal		Zero	Cal		m	b	Internal:
Deep	0.001	0.640	V	0.000	350.000	mmho/m	547.641	-0.736	Deep
Medium	0.005	0.742	V	0.000	550.000	mmho/m	740.761	-3.500	Medium

Compensated Density Calibration Report

Serial-Model: 2388DHT-CNT
Source / Verifier:
Master Calibration Performed: Thu Sep 13 16:04:57 2012

Master Calibration

Density		Far Detector	Near Detector
Magnesium	1.750 gcc	717.11	305.57 cps
Aluminum	2.628 gcc	140.63	205.93 cps

Spine Angle = 76.36 Density/Spine Ratio = 0.519

Size		Reading	
Small Ring	9.25	in	5771.32
Large Ring	14.00	in	10195.20

Gamma Ray Calibration Report

Serial Number: 2001
Tool Model: GH
Performed: Sat Sep 22 13:47:45 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: Mon Sep 03 08:08:04 2012

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	37.85		None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.32		GR-OH (2001) GAPI	3.56	3.25	40.00
LSD	23.78		CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					
CILD	10.60		DIL-G (5375) Used tool	21.47	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: jobMaster#2oh.db: field\well\run1\pass1
Total Length: 40.39 ft
Total Weight: 676.00 lb
O.D. 4.00 in