The Perforators LLC

Company	Mitch Oil LLC
Well	Hebron #2-27
Field	Unnamed
County	Rooks
State	Kansas
Location	SE - NE - NE - NW
	Sec. 27
	T 10 S
	R 19 W
	1 - 10 - 19 W/1320 FNL
	1980 FEL
Elevation	2077
Date	Dec 22, 2012
Number	1

COMPENSATED DENSITY NEUTRON LOG

Company Mitch Oil LLC
Well Hebron #2-27
Field
County Rooks
State Kansas
Location SE - NE - NE - NW
Sec. 27 T 10 S R 19 W
1 - 10 - 19 W/1320 FNL 1980 FEL
Elevation 2077
Date Dec 22, 2012
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All interpretations or 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 forth in our current Price Schedule.

Comments

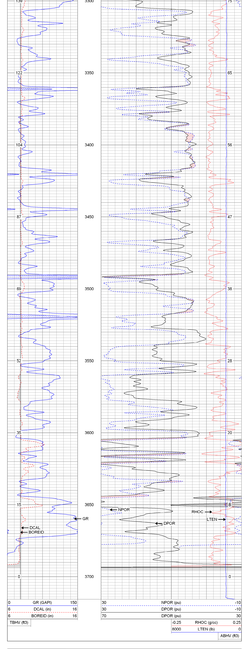
ABHV calculated for 5.5" casing.
K18 E of Plainville, S on CR. 31, 1/2 S on CC Rd., E into.
Thanks for using The Perforators LLC
785-621-4604

Main Pass

Database File: mcholanoe#2ch.db
Dataset Pathname: pass1
Presentation Format: ABHV
Dataset Creation: Tue May 29 21:34:14 2012 by Log Open-Creed 109927
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
			-0.25	RHOC (g/cc)	0.25
TBHV (BO)			8000	LTEN (lb)	0

ABHV (BO)



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

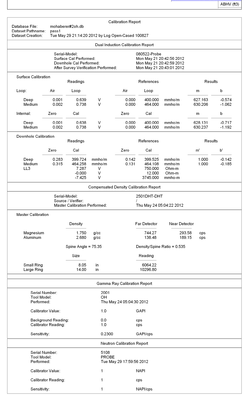
ABHV (BO)

Repeat Pass

Database File: mcholanoe#2ch.db
Dataset Pathname: pass1
Presentation Format: ABHV
Dataset Creation: Tue May 29 21:14:20 2012 by Log Open-Creed 109927
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
			-0.25	RHOC (g/cc)	0.25
TBHV (BO)			8000	LTEN (lb)	0

ABHV (BO)



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

ABHV (BO)

Calibration Report

Database File: mcholanoe#2ch.db
Dataset Pathname: pass1
Dataset Creation: Tue May 29 21:14:20 2012 by Log Open-Creed 109927

Dual Induction Calibration Report

Serial-Model:	0905CD Probe
Surface Cal Performed:	Mon May 21 20:42:56 2012
Downhole Cal Performed:	Mon May 21 20:42:56 2012
After Survey Verification Performed:	Mon May 21 20:42:01 2012

Surface Calibration

Loop	Air Readings	Loop Readings		Air Cal	Loop Cal		Air Results	Loop Results	
Deep	0.001	0.639	V	0.000	400.000	mmho/m	627.183	-0.574	
Medium	0.002	0.738	V	0.000	464.000	mmho/m	630.208	-1.062	
Internal	Zero	Cal		Zero	Cal		m	b	
Deep	0.001	0.639	V	0.000	400.000	mmho/m	639.135	-0.717	
Medium	0.002	0.738	V	0.000	464.000	mmho/m	630.237	-1.162	

Downhole Calibration

	Zero Readings	Cal Readings		Zero Cal	Cal Cal		m' Results	b' Results	
Deep	0.283	389.724	mmho/m	0.142	389.525	mmho/m	1.000	-0.143	
Medium	0.315	464.255	mmho/m	0.131	464.106	mmho/m	1.000	-0.185	
LL3		-0.007	V		12.000	Ohm-m			
		-0.007	V		12.000	Ohm-m			
		-7.425	V		3745.000	mmho/m			

Compensated Density Calibration Report

Serial-Model:	250-CNT-DHT
Sonde / Shoe:	0 /
Master Calibration Performed:	Thu May 24 05:04:22 2012

Model Calibration

	Density		Far Detector	Near Detector
Magnesium	1.750	g/cc	744.27	293.58 cps
Aluminum	2.690	g/cc	138.48	185.15 cps
	Spine Angle = 75.35		Density-Spine Ratio = 0.535	
	Size		Reading	
Small Ring	8.05	in	6004.22	
Large Ring	14.00	in	10298.60	

Neutron Calibration Report

Serial Number:	5108
Tool Model:	PROBE
Performed:	Tue May 29 17:58:56 2012
Calibrator Value:	1 NAPI
Calibration Reading:	1 cps
Sensitivity:	1 NAPI/cps

Gamma Ray Calibration Report

Serial Number:	2001
Tool Model:	GR
Performed:	Thu May 24 05:04:55 2012
Calibrator Value:	1.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	1.0 cps
Sensitivity:	0.2300 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Nose	0.75	1.56	5.00
NEU	37.85		NEU-PROBE (5108) Probe	4.92	3.63	65.00
GR	32.32		GR-CM (2001) GR	3.56	3.25	40.00
LSD	23.78		COL-DHT (250-CHT) Triple High Temp COL Tool	9.69	4.00	201.00
DCAL	23.49					
SSD	23.24					
HEADVOLT	21.47					
CILD	10.60		DIL-Probe (0805CD) Dual Induction	21.47	4.00	345.00
SP	10.60					
CILM	6.69					
RLL3	1.70					

Dataset: mcholanoe#2ch.db:/field/mitch/pass1
Total Length: 40.39 ft
Total Weight: 676.00 lb
OD: 4.00 in