Company	RUN OIL COMPANY, INC.
Well	OAK #2
Field	WEBER EAST
County	BARTON
State	KANSAS

COMPENSATED DENSITY DECAY LOG

Company	RUN OIL COMPANY, INC.
Well	OAK #2
Field	WEBER EAST
County	BARTON
State	KANSAS
Location	2310' FSL & 1980' FWL
	SEC. 5 TWP. 16 S. RGE. 11W
Elevation	KB: 1777 DF: 1775 GL: 1772
Permanent Datum	GROUND LEVEL
Log Measured From	KB 5.00 Above Perm. Datum
Drilling Measured From	KB
Date	12-12-2007
Run Number	ONE
Depth Driller	3500
Depth Logger	3499
Bottom Log Interval	3499
Top Log Interval	2800
Casing Driller	8.625 @ 0
Casing Logger	NONE
Bit Size	7.875
Type Fluid in Hole	GEL CHEM
Density	9.0
Viscosity	45
Fluid Loss	8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp.	0.7 @ 80
Rmf @ Meas. Temp.	0.55 @ 80
Rmc @ Meas. Temp.	0.9 @ 80
Source: Rmf / Rmc	MEASURED / CALC
Rm @ BHT	0.4 @ 100
Time Since Circulation	9 HRS
Max. Rec. Temp.	100
Equipment Number	8
Location	HAYS
Recorded By	D. BUTLER
Witnessed By	MR. BOB BUSCHKE

Field Notes ---

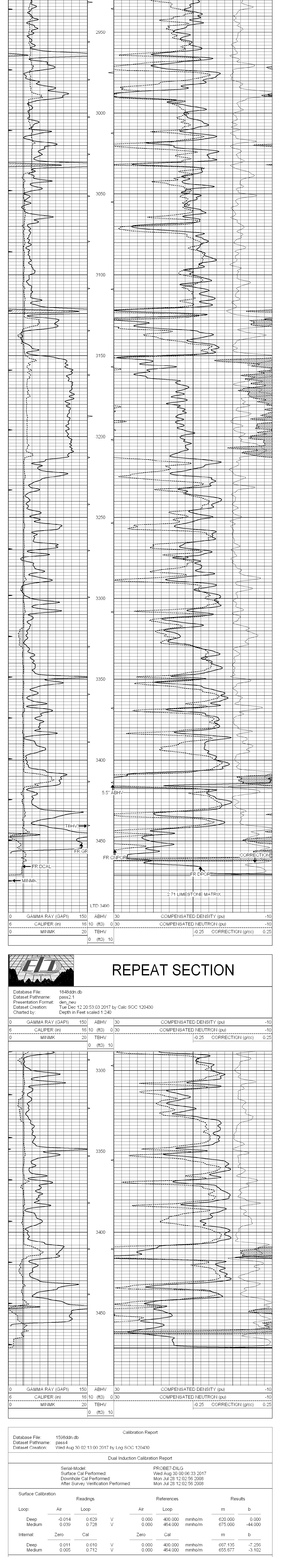
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS:
GREAT BEND, KS. (HWY 281 & KSN NEWS STATION), 1W, ON BLKTOP, 1S., 1QW,.N INTO

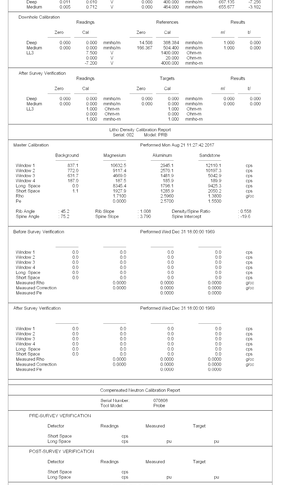
MAIN SECTION

Database File: 1hr4kdh.db
Dataset Pathname: pass4
Presentation Format: geo_res
Dataset Creation: Tue Dec 12 21:52:25 2017 by Calc SOC 126450
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

Database File: 1hr4kdh.db
Dataset Pathname: pass4
Presentation Format: geo_res
Dataset Creation: Tue Dec 12 20:53:03 2017 by Calc SOC 126450
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: 1hr4kdh.db
Dataset Pathname: pass4
Dataset Creation: Wed Aug 30 02:13:00 2017 by Log SOC 126450

Dual Induction Calibration Report

Serial/Model	PROBE7-DIL	
Downhole Cal Performed	Wed Aug 30 02:06:33 2017	
Downhole Cal Performed	Mon Jul 28 12:10:36 2008	
After Survey Verification Performed	Mon Jul 28 12:10:56 2008	

Surface Calibration

	Readings			References			Results	
Loop	Air	Loop		Air	Loop	m	b	
Deep	42.014	0.630	Y	0.000	400.000	mmho/m	629.000	0.000
Medium	0.039	0.728	Y	0.000	464.000	mmho/m	673.000	-44.000
Internal	Zero	Cal		Zero	Cal	m	b	
Deep	0.011	0.010	Y	0.000	400.000	mmho/m	697.135	-7.256
Medium	0.005	0.752	Y	0.000	464.000	mmho/m	650.677	-3.502

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal	m	b	
Deep	0.000	0.000	mmho/m	14.508	398.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.267	508.000	mmho/m	1.000	0.000
LL3		7.500	Y		1400.000	Ohmm		
		0.500	Y		25.000	Ohmm		
		7.250	Y		400.000	mmho/m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal	m	b	
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohmm		1.000	Ohmm		
		1.000	Ohmm		1.000	Ohmm		
		1.000	mmho/m		1.000	mmho/m		

Litho Density Calibration Report
Serial: 002 Model: PPB

Master Calibration Performed Mon Aug 21 11:27:42 2017

	Background	Magnesium	Aluminum	Sandstone	
Window 1	837.1	16512	2645.1	12153.1	cps
Window 2	1.0	1.0	1.0	1.0	cps
Window 3	472.7	4855.5	1481.9	5542.3	cps
Window 4	187.0	187.5	185.9	189.9	cps
Long Space	0.0	3147.4	1798.1	9421.1	cps
Short Space	1.1	1927.9	1295.9	3050.2	cps
Rb		0.0000	0.0000	0.0000	gcc
Pe		0.0000	2.5700	4.5000	gcc
Rb Angle	45.2	Rb Slope	1.009	Density/Pipe Ratio	-0.559
Spine Angle	75.2	Spine Slope	3.790	Spine Intercept	-19.5

Before Survey Verification Performed Wed Dec 31 16:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rb		0.0000	0.0000	0.0000	gcc
Measured Correction		0.0000	0.0000	0.0000	gcc
Measured Pe			0.0000	0.0000	

After Survey Verification Performed Wed Dec 31 16:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rb		0.0000	0.0000	0.0000	gcc
Measured Correction		0.0000	0.0000	0.0000	gcc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number	07SHW
Tool Model	Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	07SHW
Tool Model	DPBN_GR
Performed	Wed Mar 31 00:08:32 2017
Calibrator Value:	1.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	1.0 cps
Sensitivity:	0.2000 GAPI/cps