Casedhole Solutions

Company	HERMAN L. LOEB, LLC
Field	WILDCAT#2 KID
Field	KNAFF-PRUSA
County	BARTON
State	KANSAS
Date	2015/07/20
Time	08:31:51
Operator	mmeldon

Casedhole Solutions

COMPENSATED NEUTRON PLOT

Company	HERMAN L. LOEB, LLC
Field	WILDCAT#2 KID
Field	KNAFF-PRUSA
County	BARTON
State	KANSAS
Date	2015/07/20
Time	08:31:51
Operator	mmeldon

Elevation	1900 KB	1897 DF	1894 GL
Log Measured From	KB	3 Above Kelly Bushing	
Drilling Measured From	KB		
Permanent Datum	GL	Elevation 1894	
Depth Reference	KB		
Date	2015/07/20		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3500		
Bottom Log Interval	3500		
Top Log Interval	200		
Casing Driller	8 5/8 @ 200		
Casing Logger			
Bit Size	7 7/8		
Type Fluid	CHEMICAL		
Density / Viscosity	9.2 / 50		
pH / Fluid Loss			
Source of Sample	FLOWLINE		
Rm @ Meas Temp	.7 @ 75		
Rmf @ Meas Temp	.6 @ 75		
Rmc @ Meas Temp	1.1 @ 75		
Source Rmf / Rmc	MEASURED / CALC		
Rm @ BHT	.4 @ 100		
Max Rec Temp	100		
Equipment	7500		
Location	10 MILES NORTH		
Recorded By	CHAMBERLIN		
Witnessed By	MR. DAVIS		

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 wilful 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 as set out in our current Price Schedule.

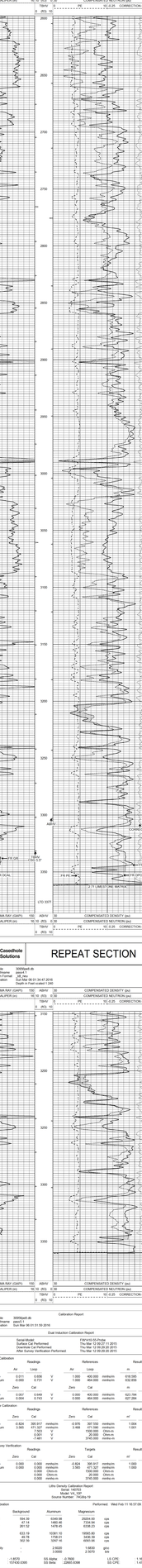
Comments

THANK YOU FOR USING CASEDHOLE SOLUTIONS. HAYS, KS. (785) 628-6395
DIRECTIONS: CLAFLIN, KS - NORTH ON 3RD ST. 6 MILES TO RD 170 - EAST 1/4 MILE - NORTH INT

MAIN SECTION

Database File 3000ipath.db
Dataset Pathname pass1.1
Presentation Format main
Dataset Creation Sun Mar 06 01:11:59 2016
Charted by Depth in Feet scaled 1:240

3	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
8	CALIPER (in)	16 10 (ID)	6.30		COMPENSATED NEUTRON (pu) 70
			TNAV	75	YC 0.25 CORRECTION (grcc) 0.25
			0 (RS)	10	



3	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
8	CALIPER (in)	16 10 (ID)	6.30		COMPENSATED NEUTRON (pu) 70
			TNAV	75	YC 0.25 CORRECTION (grcc) 0.25
			0 (RS)	10	

REPEAT SECTION

Database File 3000ipath.db
Dataset Pathname pass1.1
Presentation Format repeat
Dataset Creation Sun Mar 06 01:31:51 2016
Charted by Depth in Feet scaled 1:240

3	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
8	CALIPER (in)	16 10 (ID)	6.30		COMPENSATED NEUTRON (pu) 70
			TNAV	75	YC 0.25 CORRECTION (grcc) 0.25
			0 (RS)	10	

Calibration Report

Database File 3000ipath.db
Dataset Pathname pass1.1
Dataset Creation Sun Mar 06 01:31:55 2016

Dual Induction Calibration Report

Serial-Model	DIFL6/SFL6-Probe
Surface Cal Performed	Thu Mar 12 09:27:11 2015
Internal Cal Performed	Thu Mar 12 09:28:24 2015
Air Calibration Verification Performed	Thu Mar 12 09:29:25 2015

Surface Calibration

	Readings Air	Readings Loop	References Air	References Loop	m	b	Results m	Results b
Deep	0.011	0.656 V	1.000	400.000 mmho/m	416.595	-5.524		
Medium	-0.002	0.720 V	1.000	464.000 mmho/m	632.906	-1.197		

Internal

	Zero Air	Zero Cal	Zero Air	Zero Cal	m	b
Deep	0.007	0.645 V	0.000	400.000 mmho/m	423.164	-4.595
Medium	0.000	0.743 V	0.000	464.000 mmho/m	627.284	-1.231

Downhole Calibration

	Readings Zero	Readings Cal	References Zero	References Cal	m	b	Results m	Results b
Deep	-0.624	385.917 mmho/m	0.000	367.100 mmho/m	1.004	-8.149		
Medium	3.340	1.521 mmho/m	0.000	1.500 mmho/m	1.001	-0.088		
LL3		7.923 Ohm-m		1500.000 Ohm-m				
		0.001 V		30.000 Ohm-m				
		1.401 V		300.000 mmho/m				

After Survey Verification

	Readings Zero	Readings Cal	Targets Zero	Targets Cal	m	b	Results m	Results b
Deep	0.000	0.000 mmho/m	-0.624	385.917 mmho/m	1.000	0.000		
Medium	0.000	0.000 mmho/m	3.340	1.521 mmho/m	1.000	0.000		
LL3		0.000 Ohm-m		1500.000 Ohm-m				
		0.000 Ohm-m		30.000 Ohm-m				
		0.000 mmho/m		300.000 mmho/m				

Bulk Density

	Zero	Cal	Zero	Cal	m	b
Pe		2.6020		1.8830	gcc	
		1.0000		2.3070	b/e	

Litho Density Calibration Report

Serial: 14870D
Model: V4_10P
Source Number: 7412Ky-19

LS Aptne	1.8570	SS Aptne	2.7600	LS CPE	1.1652
LS Dead	157430.0395	SS Dead	22665.8398	SS CPE	1.4739

Performed: Wed Feb 11 16:57:09 2015

Master Calibration

	Background	Aluminum	Magnesium	
Window 1	194.35	6349.98	29254.00	cps
Window 2	47.14	1480.48	7334.94	cps
Window 4	201.02	1478.43	6308.23	cps
Window 5	0.00	0.00	0.00	cps
Window 6	0.00	0.00	0.00	cps
Window 7	162.39	3297.16	8693.06	cps
Window 8	302.39	3297.16	8693.06	cps
Bulk Density		2.6020	1.8830	gcc
Pe		1.0000	2.3070	b/e

LS Aptne	1.8570	SS Aptne	2.7600	LS CPE	1.1652
LS Dead	157430.0395	SS Dead	22665.8398	SS CPE	1.4739

Performed: Wed Dec 31 18:00:00 1969

Before Survey Backround Counts Verification

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 7	0.00	cps
Window 8	0.00	cps

Performed: Wed Dec 31 18:00:00 1969

After Survey Backgroud Counts Verification

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 7	0.00	cps
Window 8	0.00	cps

Performed: Wed Feb 11 16:57:09 2015

Ultrasonic Caliper Calibration

Results	Readings High	Readings Low	References (in) High	References (in) Low	Gain	Offset
5288.9	9453.1	8.6	14.0	0.0	0.0	1.3

Performed:

Before Survey Caliper Verification

Reference	Reading	
Caliper (in)		

Performed:

After Survey Caliper Verification

Reference	Reading	
Caliper (in)		

Compensated Neutron Calibration Report

Serial Number	DSN2CPNC
Tool Model	NNSR3R3

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	2DS08
Tool Model	Probe1
Performed	Tue Jun 10 17:14:50 2014
Calibrator Value	1.0 GAPI
Background Reading	0.0 cps
Calibration Reading	1.0 cps
Sensitivity	0.2000 GAPI/cps