Company	DION OPERATING COMPANY, LLC
Well	ALFRED #1-3
Field	HUDSON SOUTH
County	HUDSON
State	KANSAS
Date	10/28/2015
Time	10:00
Log Type	PE LOG
Depth Type	MD
Depth Reference	KB
Elevation	1,918.00
Log Interval	2,800.00
Casing Shoe	2,800.00
Bit Size	7.875
Max Temp	109
Max Deviation	0.25
Mud Type	Gel Chem
Mud Density	9.2
Mud Viscosity	48
Mud Resistivity	0.18 @ 65
Mud Source	Mixed
Rm	0.14 @ 65
Rmf	0.11 @ 65
Rmc	0.09 @ 65
Source Rmf	Calculated
Source Rmc	Calculated
Rm Bht	0.09 @ 109
Time Since Circ	12:00
Time On Bottom	10:00
Unit Number	3
Witnessed By	Bill Scott

Company: DION OPERATING COMPANY, LLC
Well: ALFRED #1-3
Field: HUDSON SOUTH
County: HUDSON
State: KANSAS

COMPENSATED NEUTRON / PE LOG

DISCLAIMER

All calculations and estimations are personal based on experience from standard or other interpretations and are carried out to the best of our knowledge but accuracy or completeness 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 subject to our standard terms and conditions as set out in our price schedule.

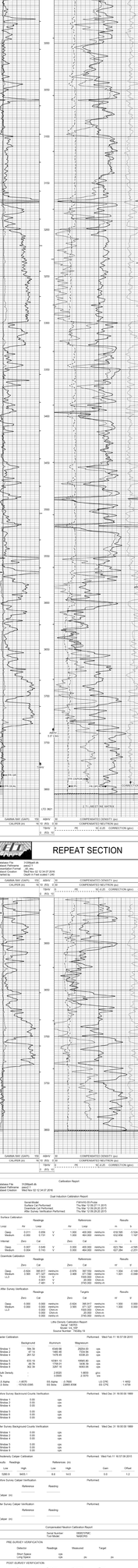
Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6366
DIRECTIONS:
HUDSON-KANSAS
1 1/2 SOUTH - EAST INTO

MAIN SECTION

Filename: 1-1-0-Main.dlis
Datum Template: Java 5
Datum Specification: Main
Datum Created: 10/28/15 22:12:40 31.2016
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	10	COMPENSATED DENSITY (psi)	10
6	CALIPER (in)	16	DT	140	COMPENSATED NEUTRON (pu)	-10
			TENS	0	PE	10
				2000 lbs	0.25	CORRECTION (gm/c)	0.25



REPEAT SECTION

Filename: 1-1-0-Repeat.dlis
Datum Template: Java 5
Presentation Format: PE_Main
Datum Created: 10/28/15 22:16:07.2016
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	10	COMPENSATED DENSITY (psi)	10
6	CALIPER (in)	16	DT	140	COMPENSATED NEUTRON (pu)	-10
			TENS	0	PE	10
				2000 lbs	0.25	CORRECTION (gm/c)	0.25

Calibration Report

Database File: 3123Main5.db
Database Table: Calibration
Dataset Creation: Wed Nov 02 12:34:07 2016

Dual Induction Calibration Report

Serial Model: Platform Express
Serial Number: HDIS-A-1 Rev A 2015
Downloads Last Performed: Thu Mar 12 09:29:46 2015
Other Tools Downloaded Since Last Performed: Thu Mar 12 09:29:46 2015

Surface Calibration

	Readings			References			Results		
	Low			Low			m	b	
Deep	0.011	0.970	V	1.000	400.000	mmho/m	419.594	-0.124	
Medium	0.011	0.970	V	1.000	400.000	mmho/m	419.594	-0.124	
	Zero	Cal		Zero	Cal		m	b	
Internal	0.007	2.646	V	0.000	400.000	mmho/m	423.164	-4.395	
Medium	0.004	3.743	V	0.000	400.000	mmho/m	527.284	-2.231	

Downhole Calibration

	Readings			References			Results		
	Zero		Cal	Zero		Cal	m	b	
Deep	0.000	0.000	mmho/m	0.000	501.700	mmho/m	1.000	2.169	
Medium	0.500	671.027	mmho/m	0.500	671.027	mmho/m	1.000	0.000	
		1.000	V		1.000	V			
		1.000	V		20.000	Ohm-m			
		1.000	V		2142.000	mmho/m			

After Survey Verification

	Readings			Targets			Results		
	Zero		Cal	Zero		Cal	m	b	
Deep	0.000	0.000	mmho/m	0.000	501.700	mmho/m	1.000	2.000	
Medium	0.000	0.000	mmho/m	0.500	671.027	mmho/m	1.000	0.000	
		1.000	V		1.000	V			
		1.000	V		20.000	Ohm-m			
		0.000	mmho/m		2142.000	mmho/m			

Lake Density Calibration Report
Wed Nov 02 12:34:07 2016
Model: 14_CDS
Source Number: Pacific 19

Master Calibration Performed: Wed Feb 11 16:57:08 2015

	Background	Aluminum	Magnesium	
Window 1	594.58	6349.98	29204.00	cps
Window 2	1.00	1.00	1.00	cps
Window 3	261.52	1616.45	4338.22	cps
Window 4	833.18	10361.10	19540.00	cps
Window 5	1.00	1.00	1.00	cps
Window 6	1.00	1.00	3456.00	cps
Sub Density	--	2.6520	1.6816	g/cc
		0.0000	2.3375	g/cc
LS Alpha	-1.8570	SS Alpha	2.7800	LS CPS
SS Alpha	0.0000	SS Beta	2.6800	SS CPS
				1.1452
				1.4151

Before Survey Backround Counts Verification Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 3	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps

After Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 3	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps

Accelerometer Calibrator Calibration Performed: Wed Feb 11 16:57:08 2015

Results	Readings		References (in)			
	Low	High	Low	High	Gain	Offset
5265.9	9455.1	9455.1	9.0	14.0	0.0	1.2

Before Survey Calibrator Verification Performed

	Reference	Reading
Calibrator (in)		

After Survey Calibrator Verification Performed

	Reference	Reading
Calibrator (in)		

Compensated Neutron Calibration Report

Serial Number	08NEC	Source Number	NEC-Pacific
Tool Model	NEC	Tool Number	NEC-Pacific

PRE-SURVEY VERIFICATION

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

POST-SURVEY VERIFICATION

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

Gamma Ray Calibration Report

Serial Number	07GGD		
Tool Model	GGD		
Performed	Wed Jul 29 08:29:16 2015		
Calibrator Value	1.0	GAPI	
Background Reading	0.0	cps	
Calibrator Reading	1.0	cps	
Sensitivity	0.0000	GAPI/cps	