LITHO DENSITY NEUTRON LOG

Company	JOE GERSTNER OIL, LLC.
Well	WILLARD #1
Field	KEYSTONE
County	SCOTT
State	KS
Location:	1056' FSL & 465' FEL
	SEC 24 TWP 18S RGE 32W
API #:	15 171 21282
Other Services	DIL, MIL
Permanent Datum	Ground Level
Elevation	2966'
Log Measured From	KB 5' AGL
Drilling Measured From	KB
Elevation	K.B. 2971, D.F. 2969, G.L. 2966

Date	12/18/21
Run Number	One
Depth Driller	4643
Depth Logger	4645
Bottom Logged Interval	4625
Top Log Interval	3700'
Casing Driller	8 5/8' @ 306'
Casing Logger	306
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9 /261
pH / Fluid Loss	10.5/8.0
Source of Sample	Pit
Rm @ Meas. Temp	.8@60degf
Rmf @ Meas. Temp	.610@60degf
Rmc @ Meas. Temp	.95@60degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.39@130degf
Time Circulation Stopped	10:15 A.M.
Time Logger on Bottom	1:00 P.M.
Maximum Recorded Temperature	107degf
Equipment Number	T605
Location	Hays, KS
Recorded By	GUS PFANENSTIEL
Witnessed By	ANDREW STENZEL

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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

SCOTT CITY WEST TO RODEO RD, SOUTH 3/4 MILE, WEST INTO.

Thank You for using Gemini Wireline LLC
785-625-1182

MAIN PASS

Database File	jgwillard#1oh.db
Dataset Pathname	pass3.1
Presentation Format	digital_kcdnl
Dataset Creation	Sat Dec 18 14:25:41 2021
Charted by	Depth in Feet scaled 1:240

REPEAT SECTION

Database File	jgwillard#1oh.db
Dataset Pathname	pass2.1
Presentation Format	digital_kcdnl
Dataset Creation	Sat Dec 18 14:32:11 2021
Charted by	Depth in Feet scaled 1:240

Calibration Report

Database File	jgwillard#1oh.db
Dataset Pathname	pass2.1
Dataset Creation	Sat Dec 18 14:32:11 2021

Dual Induction Calibration Report

Serial-Model:	1842-ADM
Surface Cal Performed:	Mon Sep 20 22:00:42 2021
Downhole Cal Performed:	Mon Sep 20 22:00:24 2021
After Survey Verification Performed:	Mon Sep 20 22:05:52 2021

Surface Calibration

Loop:	Readings Air	Readings Loop		References Air	References Loop		Results m	Results b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.475	-9.896
Medium	0.003	0.769	V	0.000	400.000	mmho/m	522.607	-1.745
Internal:	**Zero**	**Cal**		**Zero**	**Cal**		**m**	**b**
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.240	-9.549
Medium	0.003	0.768	V	0.000	550.000	mmho/m	718.637	-2.088

Downhole Calibration

Internal:	Readings Zero	Readings Cal		References Zero	References Cal		Results m	Results b
Deep	-0.219	349.905	mmho/m	-0.343	349.810	mmho/m	1.000	-3.124
Medium	-0.118	399.722	mmho/m	-0.226	399.745	mmho/m	1.000	-3.108
Shallow	2.536	0.025	V	500.000	2.000	Ohm-m	180.330	-1.504

After Survey Verification

Internal:	Readings Zero	Readings Cal		Targets Zero	Targets Cal		Results m'	Results b'
Deep	0.000	0.000	mmho/m	-0.219	349.905	mmho/m	1.000	-3.124
Medium	0.000	0.000	mmho/m	-0.118	399.722	mmho/m	1.000	-3.108
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report

Serial Number:	AD5139	
Tool Model:	ADMY5139	
Performed:	(Not Performed)	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Temperature Calibration Report

Serial Number:	WithMC			
Tool Model:	WMC			
Performed:	Fri Apr 19 12:15:04 2019			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

Inclinometer Calibration Report

Performed: Wed May 5 19:20:48 2021

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number:	WithMC	
Tool Model:	WMC	
Performed:	Wed May 5 19:21:08 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps