Company	Patriotic Petroleum
Well	Hussar 31-36
Field	Wolbach
County	Nance
State	Nebraska
Country	United States
Latitude	41.5
Longitude	-98.5
Elevation	1800
Datum	Unknown
Log Date	2021-10-12
Log Time	12:00
Run Number	1
Depth Reference	Ground Level
Depth Datum	Ground Level
Log Measured From	Ground Level
Drilling Measured From	Ground Level
Permanent Datum	Ground Level
Depth Unit	Feet
Time Zone	UTC-6
Log Interval	3750 - 4800
Casing Shoe	3750
Casing Diameter	7 in
Casing Weight	23 lb/ft
Bit Diameter	6.125 in
Mud Type	Water
Mud Density	8.4 lb/gal
Mud Viscosity	28 sec
Mud Resistivity	0.1 ohm-m
Mud Temperature	70 F
Max Temperature	98 F
Max Deviation	0.5 deg
Recorded By	Kyle Kramer
Witnessed By	Jason Tuttle

GEMINI WELLSITE SERVICES

LITHO DENSITY NEUTRON LOG

Version: 1.0.0.0 Date: 2021-10-12

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 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

Arnold,KS North 4 Miles on Main St to EE Rd, at T Go and 3/4 M to150 Ave. North 3/4 mi., West into to Location

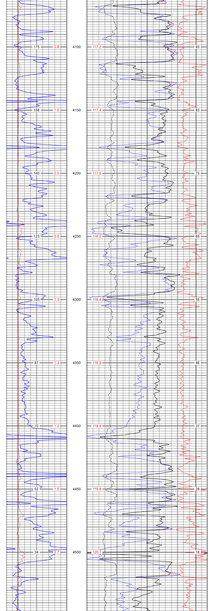
LATITUDE:N42DT 38.71081 - LID:0D2106

Thanks for using Gemini Wireline LLC
785-625-1182

MAIN PASS

Timebase File: gwnewer1.Wfs0.db
Dataset Pathname: pass1
Dataset Creation: Wed Sep 22 20:39:26 2021
Charted by: Depth in Feet scaled 1:240

GR (GAPI)	180	30	NPOR (pu)	-10	
B DCAL (in)	16	36	DPOR (pu)	-10	
A BORES2 (in)	16	73	DPOR (pu)	50	
TBHV (#5)	DEVI (deg)	0 Pa (bam)	10 K (0 P)	RHOC (g/cc)	3.25
			3000	LTEN (lb)	0
		TEMP (degF)		HBHV (#5)	

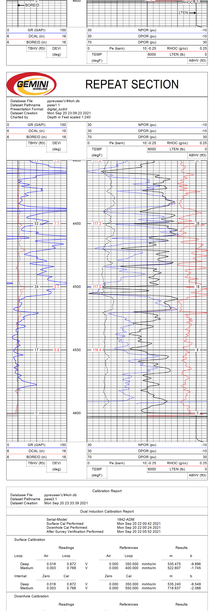


GR (GAPI)	180	30	NPOR (pu)	-10	
B DCAL (in)	16	36	DPOR (pu)	-10	
A BORES2 (in)	16	73	DPOR (pu)	50	
TBHV (#5)	DEVI (deg)	0 Pa (bam)	10 K (0 P)	RHOC (g/cc)	3.25
			3000	LTEN (lb)	0
		TEMP (degF)		HBHV (#5)	

REPEAT SECTION

Timebase File: gwnewer1.Wfs0.db
Dataset Pathname: pass2
Presentation Format: digital_sp20
Dataset Creation: Wed Sep 22 20:39:23 2021
Charted by: Depth in Feet scaled 1:240

GR (GAPI)	180	30	NPOR (pu)	-10	
B DCAL (in)	16	36	DPOR (pu)	-10	
A BORES2 (in)	16	73	DPOR (pu)	50	
TBHV (#5)	DEVI (deg)	0 Pa (bam)	10 K (0 P)	RHOC (g/cc)	3.25
			3000	LTEN (lb)	0
		TEMP (degF)		HBHV (#5)	



GR (GAPI)	180	30	NPOR (pu)	-10	
B DCAL (in)	16	36	DPOR (pu)	-10	
A BORES2 (in)	16	73	DPOR (pu)	50	
TBHV (#5)	DEVI (deg)	0 Pa (bam)	10 K (0 P)	RHOC (g/cc)	3.25
			3000	LTEN (lb)	0
		TEMP (degF)		HBHV (#5)	

Calibration Report

Datasetname File: gwnewer1.Wfs0.db
Dataset Pathname: pass1
Dataset Creation: Wed Sep 22 20:33:39 2021

Dual Induction Calibration Report

Serial Number	1842-ADM
Deep Calibration Performed	Mon Sep 22 20:00:42 2021
Shallow Cal Performed	Mon Sep 22 20:05:24 2021
Mike Survey Verification Performed	Mon Sep 22 20:05:52 2021

Surface Calibration

	Readings			References			Results		
Loop	Air	Loop		Air	Loop		m	b	
Deep	0.918	0.872	V	0.000	350.000	mmho/m	535.475	-9.698	
Medium	0.903	0.766	V	0.000	400.000	mmho/m	522.807	-7.745	
Internal	Zero	Cal		Zero	Cal		m	b	
Deep	0.918	0.872	V	0.000	350.000	mmho/m	535.240	-9.549	
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000	

Downhole Calibration

	References			Results		
Internal	Zero	Cal		m	b	
Deep	2.242	348.605	mmho/m	1.000	-3.124	
Medium	2.128	399.722	mmho/m	1.000	-3.108	
Shallow	0.000	2.000	Ohm-m	1.000	0.000	

After Survey Verification

	Readings			Targets			Results		
Internal	Zero	Cal		Zero	Cal		m	b	
Deep	2.242	2.000	mmho/m	0.219	348.605	mmho/m	1.000	-3.124	
Medium	2.128	2.000	mmho/m	0.219	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	ACNT139
Tool Model	ACNT-B
Performed	(Not Performed)
Calibration Value	NAPI
Calibration Reading	1 cps
Sensitivity	1 NAPI/cps

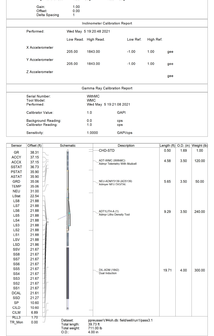
Temperature Calibration Report

Serial Number	0000-00
Tool Model	ARAC
Performed	Fri Apr 16 12:15:04 2019

	Reference	Reading
Low Reference	0.00 degF	0.00 degF
High Reference	100.00 degF	100.00 degF
Gain	1.00	
Offset	0.00	
Delta Spacing	1	

Inclinometer Calibration Report

Performed	Wed May 1 19:23:48 2021			
	Low Real	High Real	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	0000-00
Tool Model	ARAC
Performed	(Not Ran) 5 10 22 00 2021
Calibration Value	1.0 GAPI
Calibration Reading	0.0 cps
Sensitivity	1.0000 GAPI/cps