All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretations and Midwest Wireline LLC 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 its officers, agents or employees.

Comments

NA DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Hill City
East to Hill 910,
4 North, East and North into

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-5658

Your Midwest Wireline Crew		This Log Record Was Witnessed By	
Engineer: D. Schmidt		Primary Witness:	Evan Dierchman
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Log Measured From: Kelly Bushing 7 Ft. Above Permanent Datum

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-NBAM (103)	3.00	3.50	56.00
CNL/SC DIGAC	37.23 38.48			5.00	3.50	100.00
			CDL-NBAM (203-03)	8.50	4.00	206.00
LSD DCAL RSD	28.18 28.17 27.66					
			ML-PSI-STND, ML (402)	7.54	4.00	85.00
MCRL	19.94					
HRI	19.58					
MN	19.58					
RLLSF RLLD	15.50 15.50					
CALD	8.33		DIL-NBAM (506)	18.25	3.50	220.00
CILW	4.50					
SP	0.20					

Dataset: 0400A8_sonorander a 3-22-8b: NeUtralwellsWipsaw3.3
Total length: 42.33 ft
Total weight: 774.00 lb
OD max: 4.00 in

Log Variables

Tool Section

A	BORED	BOTTSHIP	CASCSO	CASETHCK	FLUIDDEN	W	WATMRDEN
1	7.875	1.62	3.5	0	1	2	2.71
MPORSEL	PERFS	SNDERMN medium	SNDERMX medium	SPSHIFT deg	SWTSHIP deg/	SZCOR	TDEPTH ft
Limestone	No	0	0	180	180	OR	3915

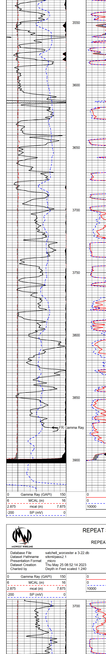
Variable Descriptions

A: Cement Factor (sk)
BORED: Borehole Size
BOTTSHIP: Bottom Shipping Interval
CASCSO: Casing O.D.
CASETHCK: Casing Thickness
FLUIDDEN: Fluid Density
W: Cement Dry-Ind
WATMRDEN: Water Density
MPORSEL: Medium Porosity Curve Select
PERFS: Perforation Flag
SNDERMN: Medium Sand Grain Size Correction
SNDERMX: Medium Sand Grain Size Correction
SPSHIFT: Sulfur Pressure Shift
SWTSHIP: Sulfur Temperature
SZCOR: CN Size Cor. ?
TDEPTH: Total Depth

DETAIL SECTION

MAIN PASS

Database File: satchel_sonorander a 3-22-8b
Dataset Pathname: sonorander3.3
Presentation Format: microsec
Dataset Creation: Thu Mar 21 06:04:25 2023
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

REPEAT PASS

Database File: satchel_sonorander a 3-22-8b
Dataset Pathname: sonorander3.3
Presentation Format: microsec
Dataset Creation: Thu Mar 21 06:10:52 2023
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File satchel_sonorander a 3-22-8b
Dataset Pathname: sechlrdata3.3
Dataset Creation: Thu Mar 21 06:04:25 2023

Dual Induction Calibration Report

	Serial Model: Surface Cal Performed:	DIL-NBAM Thu Mar 21 06:04:25 2023					
	Readings		References		Results		
Loop	Air	Loop	Air	Loop	in	b	
Deep	94.211	428.152	0.000	255.800	mmho/m	0.430	28.000
Medium	33.984	670.654	0.000	255.800	mmho/m	0.000	4.000

Microlog Calibration Report

	Serial Model: Performed:	PSI-Pad 5174SL-NB Fri Mar 10 06:19:45 2023			
	Readings		References		Results
	Zero	Cal	Zero	Cal	a
Normal	0.0000	0.0843	0.0000	10.0000 Ohm-m	1000.0000
Inverse	0.0000	0.1412	0.0000	10.0000 Ohm-m	2000.000
Caliper	1.0046	1.1410	0.5000	20.0000 in	50.0000

Compensated Density Calibration Report

	Serial Model: Source #: Master Calibration Performed:	SCI-CS-NBAM 2121NB Tue May 16 07:41:35 2023		
Magnesium	1.750 g/cc	Far Detector	3641.78	Near Detector 5151.73 cps
Aluminum	2.691 g/cc		725.08	3684.44 cps
		Spine Angle = 73.06	Density/Spine Ratio = 0.508	
	Size	Density	Reading	
Small Ring	4.00 in	1.11	1.11	
Large Ring	8.00 in	1.93	1.93	

Compensated Neutron Calibration Report

	Serial Model: Source #: Master Calibration Performed:	2121NBSE N-1226 Fri Mar 1 09:14:34 2021		
Master Calibration				
	Detector	Readings	Target	Normalization
	Short Space	6240.00 cps	1000.00 cps	0.6025
	Far Detector	9001.00 cps	1500.00 cps	1.6000

Gamma Ray Calibration Report

Serial Number	155	
Test Model	NBGR	
Performed	Wed Jan 25 21:35:20 2023	
Calibrator Value	500.0	GAPI
Background Reading	28.5	cps
Calibration Reading	640.0	cps
Sensitivity	0.0700	GAPI/cps

Company	Satchel Creek Petroleum, LLC	
Well	Vinoramer A #1-22	
Field	Wide South	
County	Graham	
State	Kansas	

MIDWEST WIRELINE