



# LITHO DENSITY NEUTRON LOG

Company	PALOMINO PETROLEUM
Well	SPLITTER SOUTHWEST
Field	TREGO
County	TREGO
State	KS
Location	1020' FSL & 845 F.M.L.
APR #	-15 195 23131
Other Services	M.L.
SEC	29
TWP	15S
RGE	25W
Ground Level	Elevation 2515
Log Measured From	KB 7' AGL
Drilling Measured From	KB 7' AGL
Date	2/7/22
Run Number	One
Depth	4555
Bottom	4555
Bottom Lagged Interval	4555
Top Log Interval	3500'
Casing Driver	8 5/8" @ 21'
Casing Logger	7 1/2"
Tool Size in Hole	7 1/2"
Depth / Accuracy	9.3/55
pad / Fluid Loss	10.5/5.8
Source of Sample	PI
Run @ Mass Temp	553 @ 60degF
Run @ Mass Temp	78 @ 60degF
Source of Run / Run	Calculated
Run @ BHT	358.1 @ 60degF
Time (Circulator Stopped)	3:00 AM
Time (Circulator Started)	6:00 AM
Time (Circulator Stopped)	1:00 PM
Time (Circulator Started)	1:00 PM
Equipment Number	1605
Location	HAYS, KS
Witnessed By	KEATON JONES

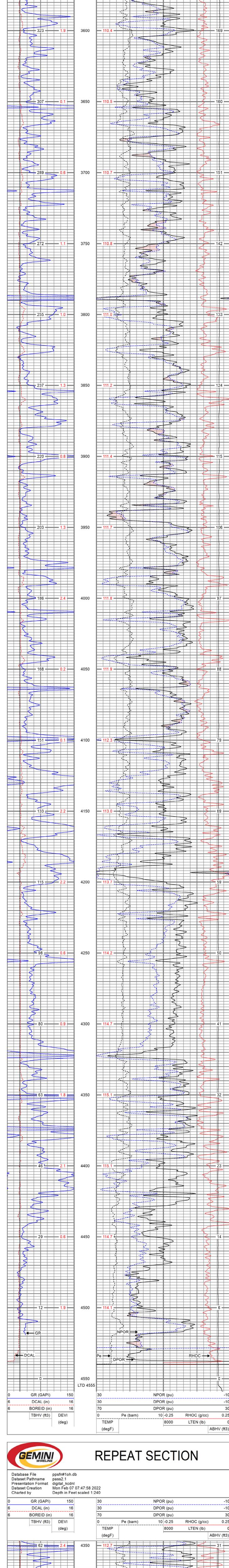
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

EAST OF UTICA 2 MILES TO F RD. NORTH TO DD NORTH WEST INTO.  
Thank You for using Gemini Wireline LLC  
785-625-1182

## MAIN PASS

Database File: ppsfn#10h.db  
Dataset Pathname: pass3.1  
Presentation Format: digital\_kcdnl  
Dataset Creation: Mon Feb 07 07:44:50 2022  
Charted by: Depth in Feet scaled 1:240



0 GR (GAPI) 150  
6 DCAL (in) 16  
6 BOREID (in) 16  
TBHV (ft3) DEVI (deg)

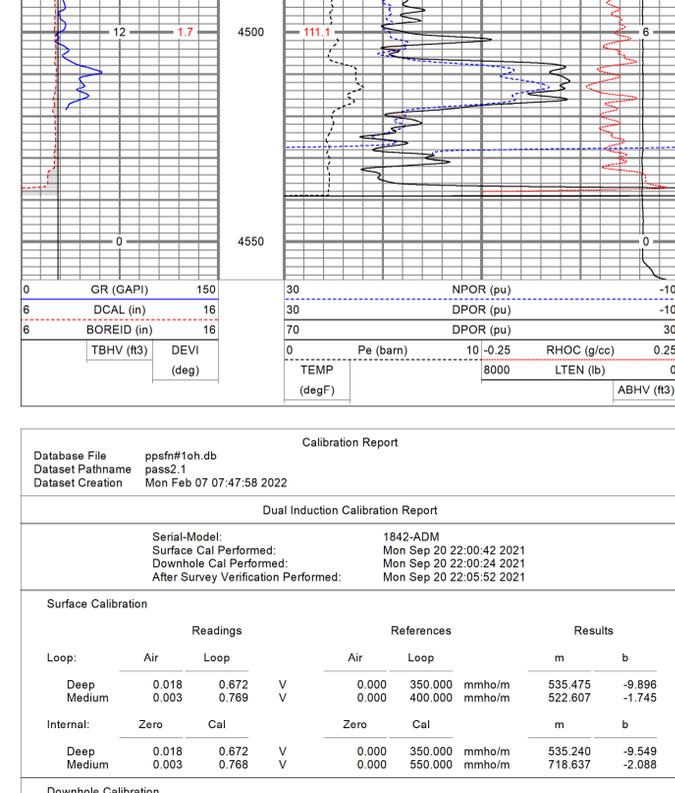
30 NPOR (pu) -10  
30 DPOR (pu) -10  
70 DPOR (pu) 30  
Pe (barn) 10 -0.25 RHOc (g/cc) 0.25  
TEMP (degF) 8000 LTEN (lb) 0  
ABHV (ft3)

0 GR (GAPI) 150  
6 DCAL (in) 16  
6 BOREID (in) 16  
TBHV (ft3) DEVI (deg)

30 NPOR (pu) -10  
30 DPOR (pu) -10  
70 DPOR (pu) 30  
Pe (barn) 10 -0.25 RHOc (g/cc) 0.25  
TEMP (degF) 8000 LTEN (lb) 0  
ABHV (ft3)

## REPEAT SECTION

Database File: ppsfn#10h.db  
Dataset Pathname: pass2.1  
Presentation Format: digital\_kcdnl  
Dataset Creation: Mon Feb 07 07:47:58 2022  
Charted by: Depth in Feet scaled 1:240



0 GR (GAPI) 150  
6 DCAL (in) 16  
6 BOREID (in) 16  
TBHV (ft3) DEVI (deg)

30 NPOR (pu) -10  
30 DPOR (pu) -10  
70 DPOR (pu) 30  
Pe (barn) 10 -0.25 RHOc (g/cc) 0.25  
TEMP (degF) 8000 LTEN (lb) 0  
ABHV (ft3)

0 GR (GAPI) 150  
6 DCAL (in) 16  
6 BOREID (in) 16  
TBHV (ft3) DEVI (deg)

30 NPOR (pu) -10  
30 DPOR (pu) -10  
70 DPOR (pu) 30  
Pe (barn) 10 -0.25 RHOc (g/cc) 0.25  
TEMP (degF) 8000 LTEN (lb) 0  
ABHV (ft3)

### Calibration Report

Database File: ppsfn#10h.db  
Dataset Pathname: pass2.1  
Dataset Creation: Mon Feb 07 07:47:58 2022

#### 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		V	References		Results	
	Air	Loop		Air	Loop	m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.475
Medium	0.003	0.769	V	0.000	400.000	mmho/m	522.607
Internal:	Zero	Cal		Zero	Cal		
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.240
Medium	0.003	0.768	V	0.000	550.000	mmho/m	718.637

#### Downhole Calibration

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

#### After Survey Verification

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

#### Admry Lithodensity Calibration Report

Serial-Model: 1C-C  
Source: Blue2  
Master Calibration Performed: Tue Oct 20 08:37:42 2020

#### Master Calibration

	Density	Far Detector		Near Detector	
		g/cc	cps	g/cc	cps
Magnesium	1.670	6640.15	4353.97		
Aluminum	2.640	1651.98	2729.31		
Aluminum+Sleeve	2.640	1651.98	2729.31		

Spine Angle = 71.44 Density/Spine Ratio = 0.661

	PE	NLITH		NHARD	
		barn	cps	barn	cps
Magnesium	1.900	1410.00	1000.00		
Aluminum	2.400	1101.00	918.50		
Aluminum+Sleeve	5.000	656.00	951.00		

M = 0.448 B = -0.112 R = 0.999

	Size	Reading	
		in	V
Small Ring	8.30	8.61	
Large Ring	14.30	12.40	

#### Neutron Calibration Report

Serial Number: AD5139  
Tool Model: ADNY5139  
Performed: (Not Performed)

Calibrator Value: 1 NAPI  
Calibrator Reading: 1 cps  
Sensitivity: 1 NAPI/cps

#### Temperature Calibration Report

Serial Number: WthMC  
Tool Model: WMC  
Performed: Fri Apr 19 12:15:04 2019

	Reference	Reading	
		degF	degF
Low Reference:	0.00	0.00	
High Reference:	1.00	1.00	
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: WthMC  
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