



MICRO LOG

Company	PATTERSON ENERGY	Location:	AP # : 15 009 26320	Other Services	DIL CDNL
Well	BERNSTORF-JANKE #10	County	BARTON	State	Kansas
Field	N/A	Location	990' FNL & 1150' FEL	Elevation	K B 1920 D.L. 1918 G.L. 1912
County	BARTON	Permament Datum	SEC 33 TWP 16S R0E 11W	Ground Level	KB 8' AGL
State	Kansas	Log Measured From	KB	Elevation	1912
Date	12/14/21	Drilling Measured From	KB	Run Number	TWO
Run Number	3420	Depth Driller	3420	Bottom Logged Interval	2800
Depth Driller	3420	Top Log Interval	2800	Casing Driller	760
Bottom Logged Interval	3418	Bit Size	7/8"	Type Fluid in Hole	Chemical
Run Log Interval	2800	Density / Viscosity	8.945	pH / Fluid Loss	9.9/8.8
Depth Driller	760	Source of Sample	PH	Source of Sample	1.2@60degf Km @ 60degf
Bit Size	7/8"	Rim @ Meas. temp	1.4@60degf	Rim @ Meas. temp	1.4@60degf
Type Fluid in Hole	Chemical	Source of Rmt / Rme	Calculated	Source of Rmt / Rme	Calculated
Density / Viscosity	8.945	Rm @ BHT	0.7@102degf	Rm @ BHT	0.7@102degf
pH / Fluid Loss	9.9/8.8	Time Cycled on Bottom	8:34 am	Time Cycled on Bottom	8:34 am
Source of Sample	PH	Maximum Reduced Temperature	102degf	Maximum Reduced Temperature	102degf
Rim @ Meas. temp	1.4@60degf	Equipment Number	102degf	Equipment Number	102degf
Source of Rmt / Rme	Calculated	Recorded By	GUS FRANKS/STIEL	Recorded By	GUS FRANKS/STIEL
Rm @ BHT	0.7@102degf	Reviewed By	M. Adam Nicks	Reviewed By	M. Adam Nicks
Time Cycled on Bottom	8:34 am	Charted by	patbernstorf-janke#10oh.db	Charted by	patbernstorf-janke#10oh.db
Maximum Reduced Temperature	102degf	Dataset Pathname	pass6	Dataset Pathname	pass6
Equipment Number	102degf	Presentation Format	kml	Presentation Format	kml
Recorded By	GUS FRANKS/STIEL	Dataset Creation	Tue Dec 14 11:14:43 2021	Dataset Creation	Tue Dec 14 11:14:43 2021
Reviewed By	M. Adam Nicks	Charted by	Depth in Feet scaled 1:240	Charted by	Depth in Feet scaled 1:240

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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

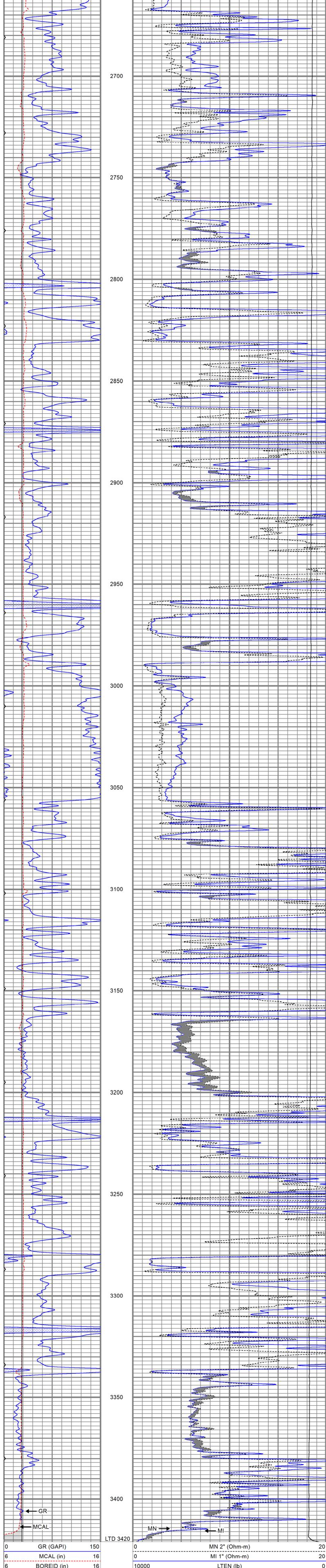
7 MILES NORTH OF CLAFLIN, WEST 1/4, SOUTH INTO.

Thanks for using Gemini Wireline LLC  
785-625-1182

# MAIN PASS

Database File	patbernstorf-janke#10oh.db
Dataset Pathname	pass6
Presentation Format	kml
Dataset Creation	Tue Dec 14 11:14:43 2021
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150	0	MN 2" (Ohm-m)	20
6	MCAL (in)	16	0	MI 1" (Ohm-m)	20
6	BOREID (in)	16	10000	LTEN (lb)	0
0	MINMK	50			

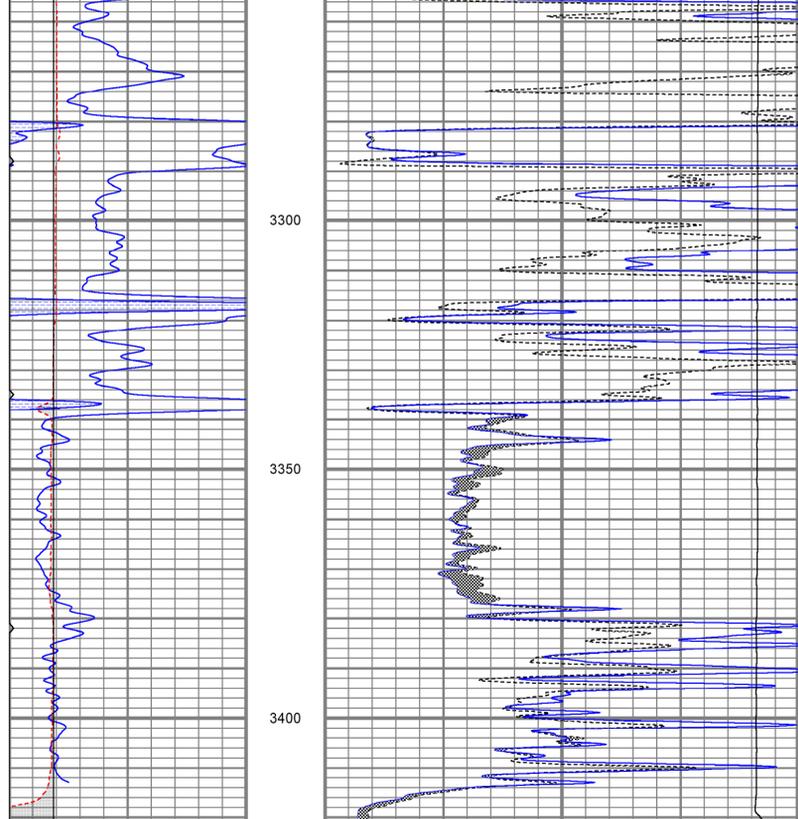


0	GR (GAPI)	150	0	MN 2" (Ohm-m)	20
6	MCAL (in)	16	0	MI 1" (Ohm-m)	20
6	BOREID (in)	16	10000	LTEN (lb)	0
0	MINMK	50			

# REPEAT SECTION

Database File	patbernstorf-janke#10oh.db
Dataset Pathname	pass5
Dataset Creation	Tue Dec 14 11:05:48 2021

0	GR (GAPI)	150	0	MN 2" (Ohm-m)	20
6	MCAL (in)	16	0	MI 1" (Ohm-m)	20
6	BOREID (in)	16	10000	LTEN (lb)	0
0	MINMK	50			



0	GR (GAPI)	150	0	MN 2" (Ohm-m)	20
6	MCAL (in)	16	0	MI 1" (Ohm-m)	20
6	BOREID (in)	16	10000	LTEN (lb)	0
0	MINMK	50			

## Calibration Report

Database File	patbernstorf-janke#10oh.db
Dataset Pathname	pass5
Dataset Creation	Tue Dec 14 11:05:48 2021

### Microlog Calibration Report

Serial-Model:	1600-Pengo
Performed:	Tue Dec 14 11:04:56 2021

	Readings		References		Results		
	Zero	Cal	Zero	Cal	m	b	
Normal	-0.0223	0.4919	0.0000	10.0000	Ohm-m	19.4467	0.4336
Inverse	-0.0380	0.8503	0.0000	10.0000	Ohm-m	14.5282	0.5521
Caliper	3.2319	6.4483	8.0000	15.0000	in	2.1764	0.9662

### Gamma Ray Calibration Report

Serial Number:	2001
Tool Model:	OH
Performed:	Sat Sep 4 22:48:39 2021

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:	0.8000	GAPI/cps
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