



correctness of
ages, or expense
also subject to a

Company		Patterson Energy	
Well	Field	Well	Field
Musenberg C #9	Stollenberg	Musenberg C #9	Stollenberg
County	County	County	County
Ellsworth	Ellsworth	Ellsworth	Ellsworth
Kansas	Kansas	Kansas	Kansas
Location:		State Kansas	
AR # : 15.053.21372		Chir Services	
430' FSL & 330' FML		ML	
SEC 7 TWP 17S RGE 9W		DIL	
Permanent Section		Elevation	
Log Measured From		K.B. 1789'	
Driiling Measured From		D.F. 1789'	
KB		K.B. 1779'	
Date	9/8/20		
Run Number	3310		
Run Date	3/31/0		
Depth Logger	3310'		
Bottom Logged Interval	3288'		
Top Log Interval	2400'		
Coring Driller	8.9' @ 250'		
Logging Logger	7.7' @ 2'		
Bit Size	Chemical		
Type Fluid in Hole	9.4153		
Density / Viscosity	Chlorides 10000 PPM		
pH / Fluid Loss	9.517.24		
Source of Sample	PM		
Sample Location	0.8' @ 250'		
Run # Mass Temp	0.53 @ 156degf		
Run # Mass Temp	8.8 @ 156degf		
Source of Run / Rmc	Calculated		
Run # BHT	0.4 @ 104degf		
Time Circulation Stopped	8.30 p.m		
Time Circulation Started	10.00 p.m		
Maximum Recorded Temperature	104degf		
Location Number	T-605		
Recorded By	Hays, KS.		
Witnessed By	Cheryl Patterson		
	Mr. Austin Kulas		

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy of 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, damage incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are general terms and conditions set out in our current Price Schedule.

Comments

Holyrood,KS, North to T Ave
 From Stop Sign of 5th Rd and Ave T 2mi east to 7th Rd
 3/4 mi South, East Into Location

Thanks for using Gemini Wireline LLC

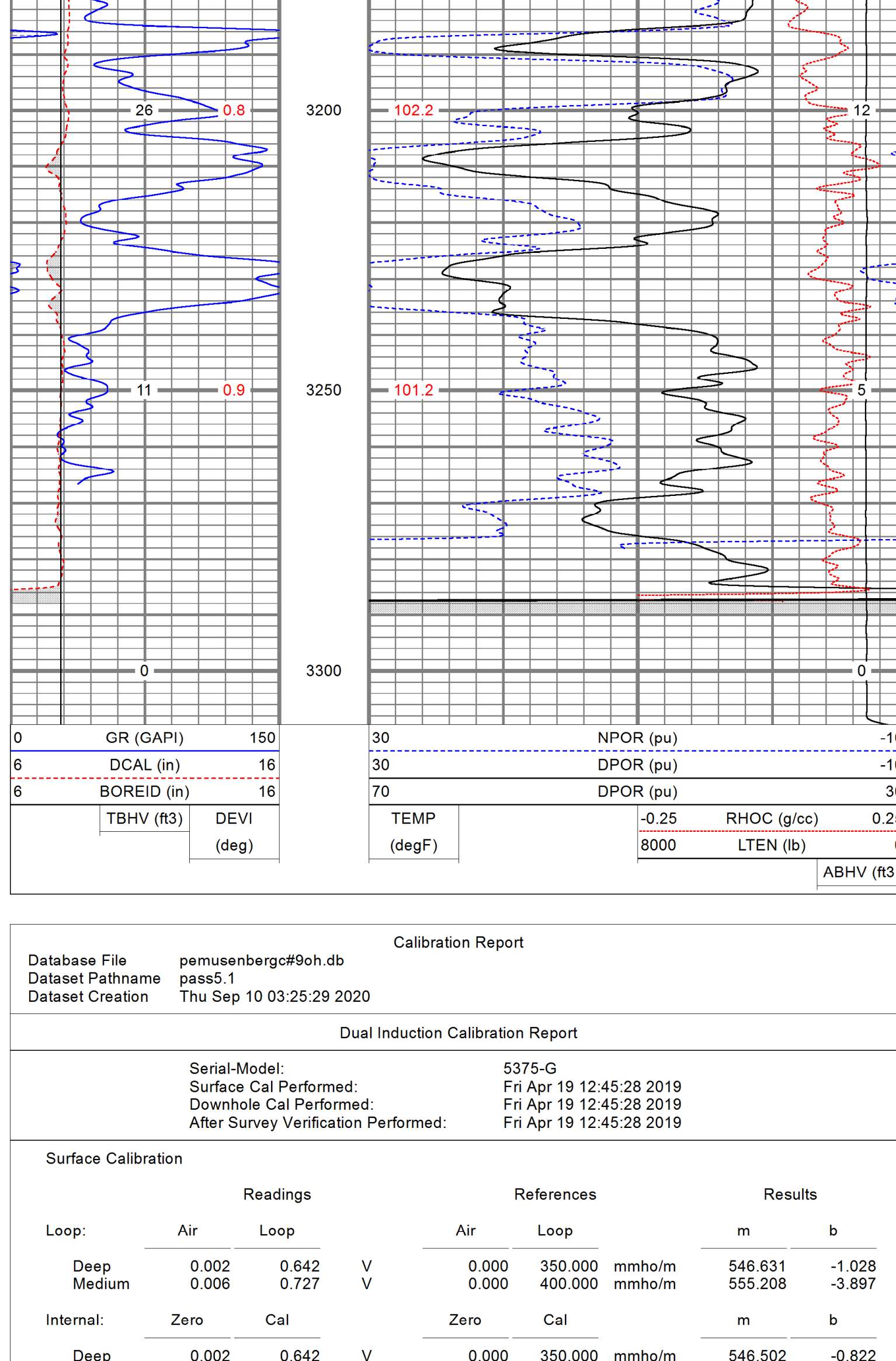
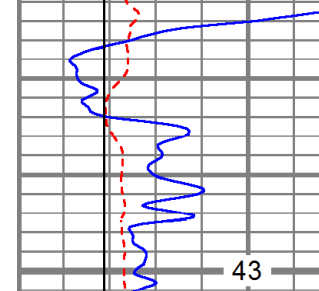
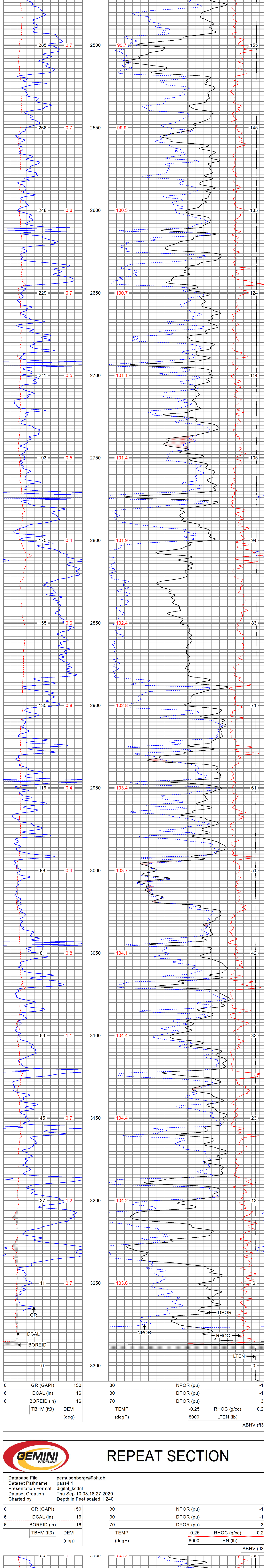
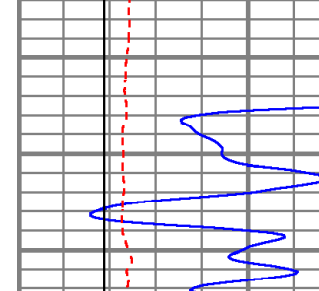
785-625-1182


```

benusenberg#9oh.db
pass5.1
digital_kodnl
Thu Sep 10 03:25:29 2020
Depth in Feet scaled 1:240

```

(degF)

[illegible]

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

Serial Number:	2017	
Tool Model:	lithogearhart	
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:	Fri Apr 19 12:14:53 2019				
	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:	Fri Apr 19 12:14:18 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Sensitivity:		1.0000		GAIN: 1.0000		
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.47		CHD-STD	0.50	1.69	1.00
ACCY	39.30		ADT-WMC (With MCM)	4.58	3.50	120.00
ACCX	39.30		Admry Telemetry With Mudcell			

SSTAT	38.89	NEU-lithogearhart (2017)	5.65	3.50	85.00
PSTAT	38.05				
ASTAT	38.05				
GRD	37.22				
TEMP	37.22				
NEU	33.85				

[illegible]

CD	10.60		DIII-G (5375)	21.47	4.00	345.00
----	-------	--	---------------	-------	------	--------

[illegible][illegible]