Pioneer Energy Services

COMPENSATED NEUTRON GAMMA RAY

Company	BONANZA CREEK ENERGY
Well	STATE PRONGHORN 43-13-29HNB
Field	WATTENBERG
County	WELD
State	CO

Company BONANZA CREEK ENERGY

Well STATE PRONGHORN 43-13-29HNB

Field WATTENBERG

County WELD State CO

Location: API # : 05-123-40060

SHL: 1240' FSL & 210' FEL SESE

SEC 29 TWP 5N RGE 61W

Other Services NONE

Permanent Datum	GL	Elevation 4602	Elevation K.B. 4624 D.F. 4623 G.L. 4602
Log Measured From	KB		
Drilling Measured From	KB		

Date	FEBRUARY 27, 2015		
Run Number	1		
Depth Driller	NA		
Depth Logger	6249'		
Bottom Logged Interval	6249'		
Top Log Interval	SURFACE		
Casing Driller	7" @ 6493'		
Casing Logger	7" @ 6493'		
Bit Size	8.75"		
Type Fluid in Hole	NA		
Density / Viscosity	NA		
pH / Fluid Loss	NA		
Source of Sample	NA		
Rm @ Meas. Temp	NA		
Rmf @ Meas. Temp	NA		
Rmc @ Meas. Temp	NA		
Source of Rmf / Rmc	NA		
Rm @ BHT	NA		
Time Circulation Stopped	NA		
Time Logger on Bottom	NA		
Maximum Recorded Temperature	NA		
Equipment Number	36		
Location	FT. MORGAN		
Recorded By	CLINT CHRISTENSEN		
Witnessed By	DARYL BARBEROUSSE		

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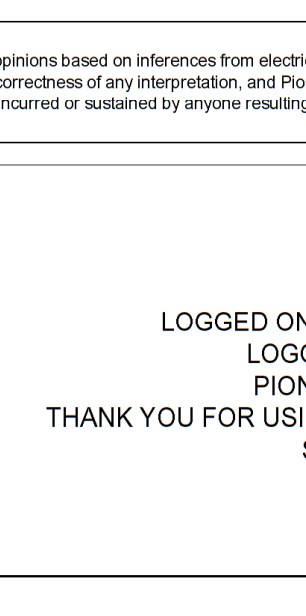
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

LOGGED ON A SANDSTONE MATRIX
LOGGED IN 7" CASING
PIONEER CRANE #19
THANK YOU FOR USING PIONEER ENERGY SERVICES.
SO# 2-013959



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CHD (~0)	2.00	3.50	30.00
GR	0.00	GR-PSI (921)	2.92	3.50	40.00
CNLSC	-3.67	CNT-PSI (822)	5.00	3.50	70.00
CNSSC	-4.17				

Dataset: 13959.db: field/well/run1/pass1
Total Length: 9.92 ft
Total Weight: 140.00 lb
O.D. 3.50 in

MAIN PASS

Database File:	13959.db
Dataset Pathname:	Final
Presentation Format:	den_neu
Dataset Creation:	Fri Feb 27 20:20:16 2015
Charted by:	Depth in Feet scaled 1:240

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MAIN PASS

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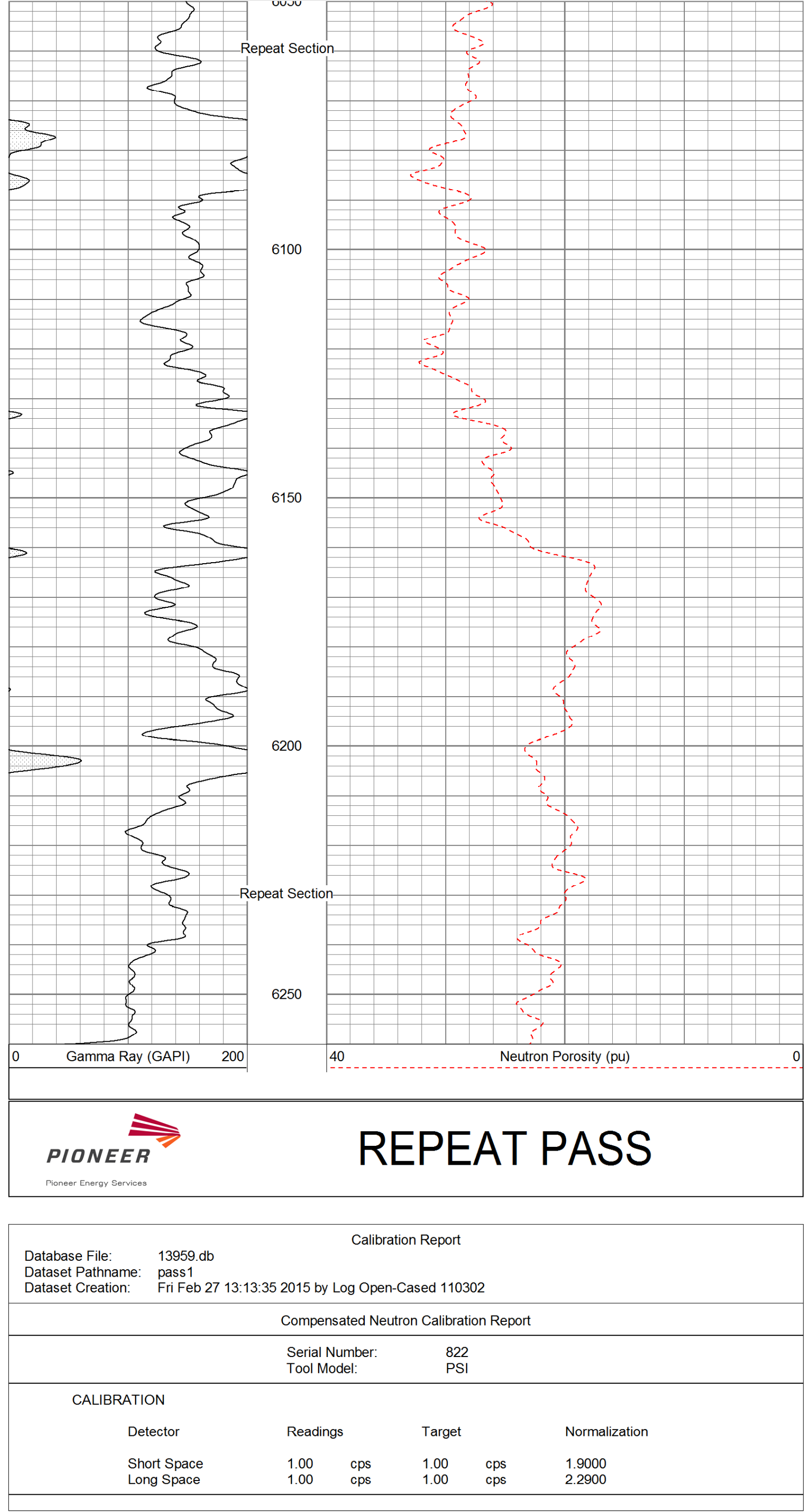
REPEAT PASS

Database File:	13959.db
Dataset Pathname:	pass4.1
Presentation Format:	den_neu
Dataset Creation:	Fri Feb 27 20:25:26 2015 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240



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REPEAT PASS

Calibration Report

Database File:	13959.db
Dataset Pathname:	pass1
Dataset Creation:	Fri Feb 27 13:13:35 2015 by Log Open-Cased 110302

Compensated Neutron Calibration Report

Serial Number:	822
Tool Model:	PSI

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.9000
Long Space	1.00	cps	1.00	cps	2.2900

Gamma Ray Calibration Report

Serial Number:	921	
Tool Model:	PSI	
Performed:	Fri Feb 27 10:00:27 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7200	GAPI/cps