Comp.	PDC ENERGY INC.
Well	STELLA 2N
Field	WATTENBERG
Co.	WELD
State	COLORADO

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GAMMA RAY COMPENSATED NEUTRON LOG

Company	PDC ENERGY INC.
Well	STELLA 2N
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API #: 05-123-44956
SE SE
SEC 22 TWP 5N RGE 65W

Other Services
CNL

Permanent Datum	GL	Elevation 4647'	Elevation
Log Measured From	KB	23' Above Perm. Datum	K.B. 4670'
Drilling Measured From	KB		D.F. N/A
			G.L. 4647

Date of Service	31 OCT 2017
Run Number	ONE
Depth Driller or PBTD	16575'
Depth Logger	6890'
Bottom Log Interval	6890'
Top Log Interval	SURFACE
Open Hole Size	8.5"
Type Fluid	H2O
Fluid Level	FULL
Fluid Density	N/A
Max. Recorded Temperature	215 F
Max. Wellhead Pressure	NONE
Wellhead Connection	7-1/16 10K
Estimated Cement Top	SEE LOG
Unit Number	P58
Wireline Size	9/32
Location	FT MORGAN CO
Recorded By	SCHOENROGGE
Witnessed By	MR. MYERS

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9.625"	36#	SURFACE	1655'
Production Casing	5-1/2"	20 #	SURFACE	16605'
Liner Record				

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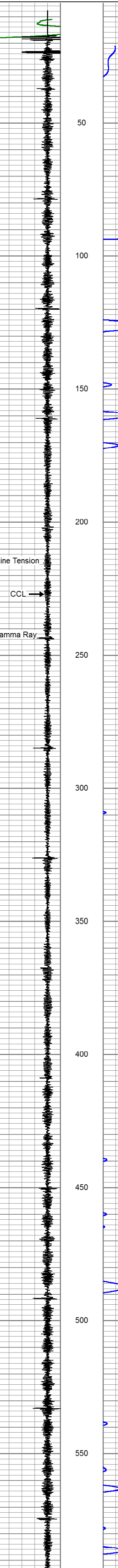
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

Comments
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
K.O.P. 6171'

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer:		
Operator:		
Operator:		
Operator:		



Sensor	Offset (ft)	Description	Length (ft)	O.D. (in)	Weight (lb)
		Cable Head-Titan 143 1 7/16" Titan Cable Head	1.03	1.43	2.00
CCL$2 CCL$1	9.19 9.19				
GR	7.85	GR-GC_6PIN (FW1404-112) Probe 6 Pin GR275-0001 rev.1	4.82	2.75	
		CNT-275BL (120509) Probe 2.75 Digital CNT	5.00	2.75	76.00
CNLSC	2.05				
CNSSC	1.64				
		Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00

Dataset: pdc_stella2n_0512344956_20171030.db: field/well/run1/pass7.1
Total length: 11.12 ft
Total weight: 79.00 lb
O.D.: 2.75 in

Log Variables

Database C:\ProgramData\Warrior\Data\pdc_stella2n_0512344956_20171030.db
Dataset field/well/run1/neu1.1/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASED?	CASEOD in	CASETHCK in	CASEWGHT lb/ft
TEMP	8.5	215	Yes	5.5	0.361	20
CMNTTHCK in	**CMTTKCOR**	**CSTKCOR**	**MAXAMPL** mV	**MINAMPL** mV	**MINATTN** db/ft	**NPORSEL**
0	On	On	0	0.7	0.08	Limestone
PERFS	**PPT** usec	**SRFTEMP** degF	**SZCOR**	**TDEPTH** ft		
0	0	50	On	0		

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MAIN LOG

Database File	pdc_stella2n_0512344956_20171030.db
Dataset Pathname	neu1.1
Presentation Format	cntf
Dataset Creation	Tue Oct 31 11:04:14 2017
Charted by	Depth in Feet scaled 1:240

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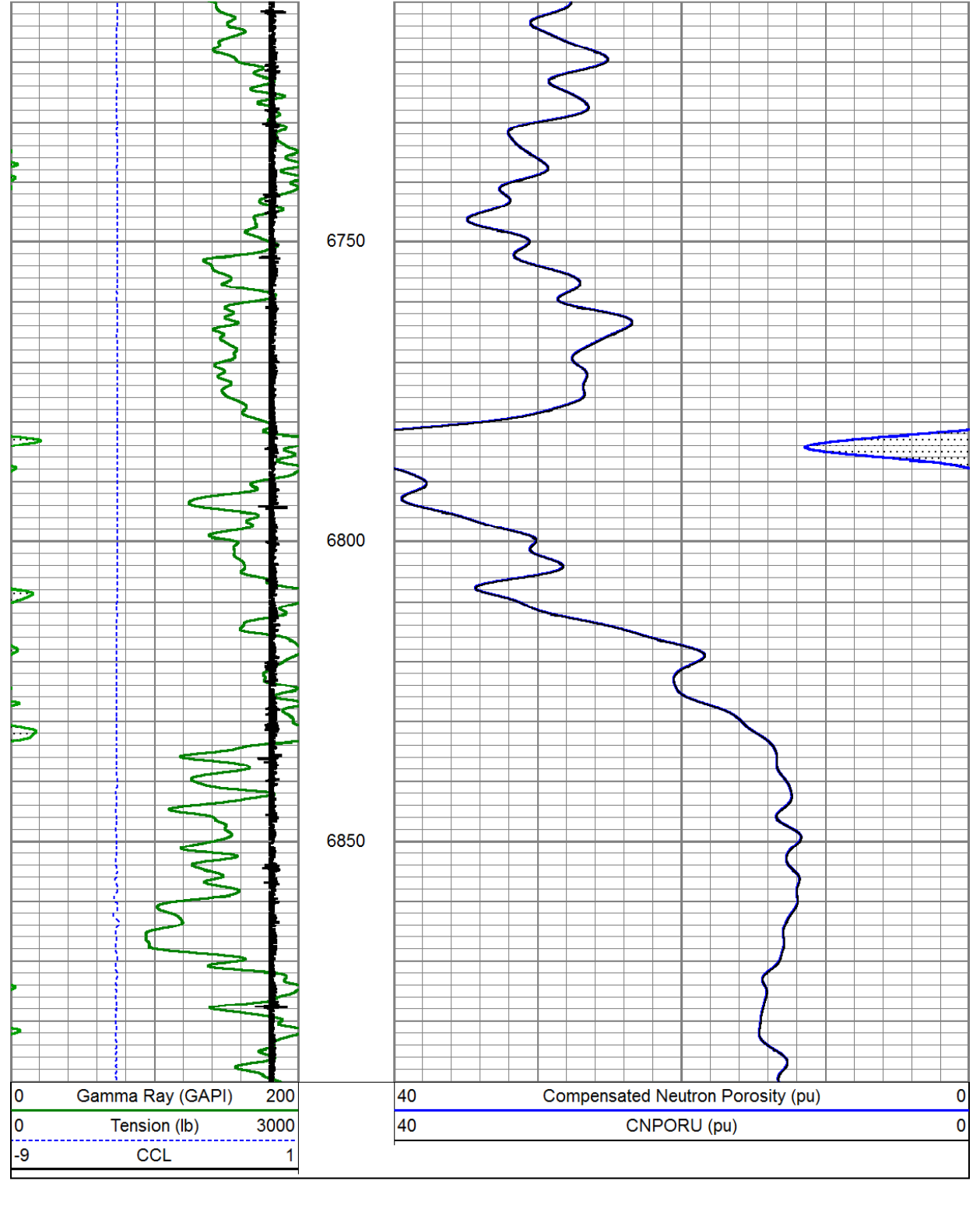
REPEAT SECTION

Database File	pdc_stella2n_0512344956_20171030.db
Dataset Pathname	pass7.2
Presentation Format	cntf
Dataset Creation	Tue Oct 31 11:35:04 2017
Charted by	Depth in Feet scaled 1:240



Calibration Report

Database File	pdc_stella2n_0512344956_20171030.db
Dataset Pathname	pass7
Dataset Creation	Tue Oct 31 08:08:55 2017

Compensated Neutron Calibration Report

Serial Number: 120509
Tool Model: 275BL

CALIBRATION Thu May 03 14:25:11 2012

Detector	Readings		Target		Normalization
Short Space	4496.49	cps	0.00	cps	1.0000
Long Space	780.48	cps	0.00	cps	1.0500

Gamma Ray Calibration Report

Serial Number:	FW1404-112	
Tool Model:	GC_6PIN	
Performed:	Thu Aug 11 15:27:12 2016	
Calibrator Value:	320.0	GAPI
Background Reading:	190.0	cps
Calibrator Reading:	1620.0	cps
Sensitivity:	0.9500	GAPI/cps

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