RELIANCE
OILFIELD SERVICES

Temperature
Gamma Ray
Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Federal SG 11-22
Field	Grand Valley
County	Garfield
State	Colorado

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Location: API # : 05-045-24128

SEC 22 TWP 7S RGE 96W

Other Services

Permanent Datum	Ground Level	Elevation	6090.8'
Log Measured From	Kelly Bushing	24 FT	
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 6114.8'
D.F. ---
G.L. 6090.8'

Date	22-FEB-2019		
Run Number	One		
Depth Driller	6169 FT		
Depth Logger	6127 FT		
Bottom Logged Interval	6127 FT		
Top Log Interval	Surface		
Open Hole Size	8.750"		
Type Fluid	Fresh Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	182°F		
Estimated Cement Top	1800 FT		
Time Well Ready	ROA		
Time Logger on Bottom	4:30		
Equipment Number	HD-0359		
Location	Grand Junction, CO		
Recorded By	Z. Fisher		
Witnessed By	Nathan Burr		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom
Surface Casing	9 5/8	32.3	H-40	Surface	1024 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	6130 FT
Intermediate #2					
Liner					

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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

Log ran as per customer request
Depth referenced to Kelly Bushing at 24 FT
Marker Joint logged from 3280-3302 FT
Log ran with 0 PSI Surface Induced Pressure

Thank you for choosing Reliance Oilfield Services, LLC!!

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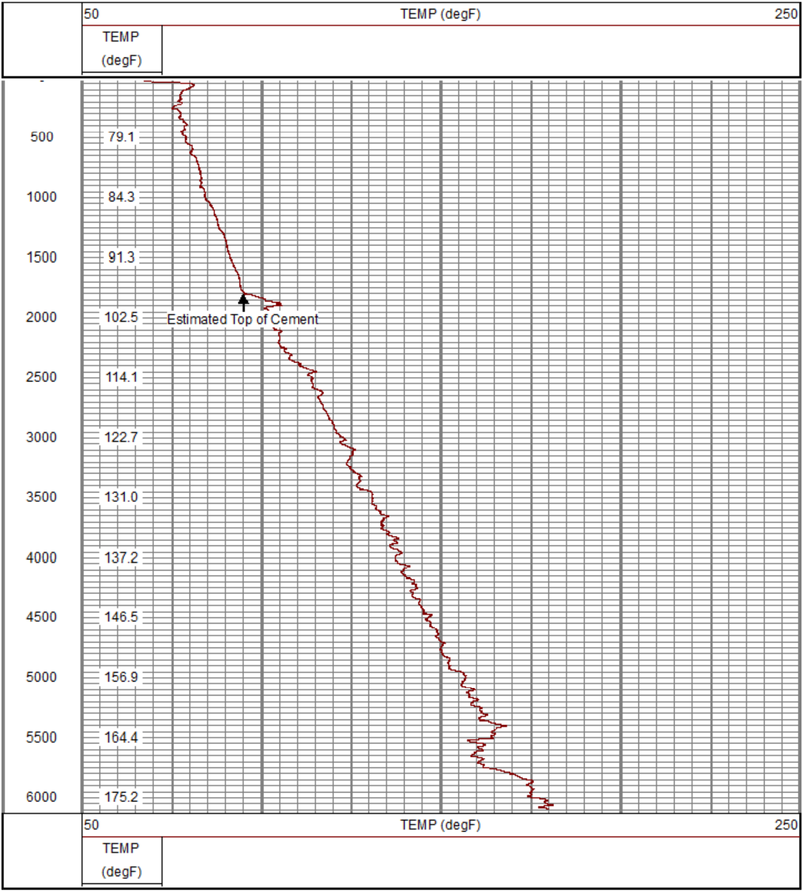
Main Pass (Quick Look)

Recorded With 0 PSI Surface Induced Pressure

Database File	f:\data\tep\federal sg 11-22\tep_federal sg 11-22_temp_02-22-19.db
Dataset Pathname	Main.1
Presentation Format	ros_temp_ql_tep
Dataset Creation	Fri Feb 22 05:15:45 2019
Charted by	Depth in Feet scaled 1:10000



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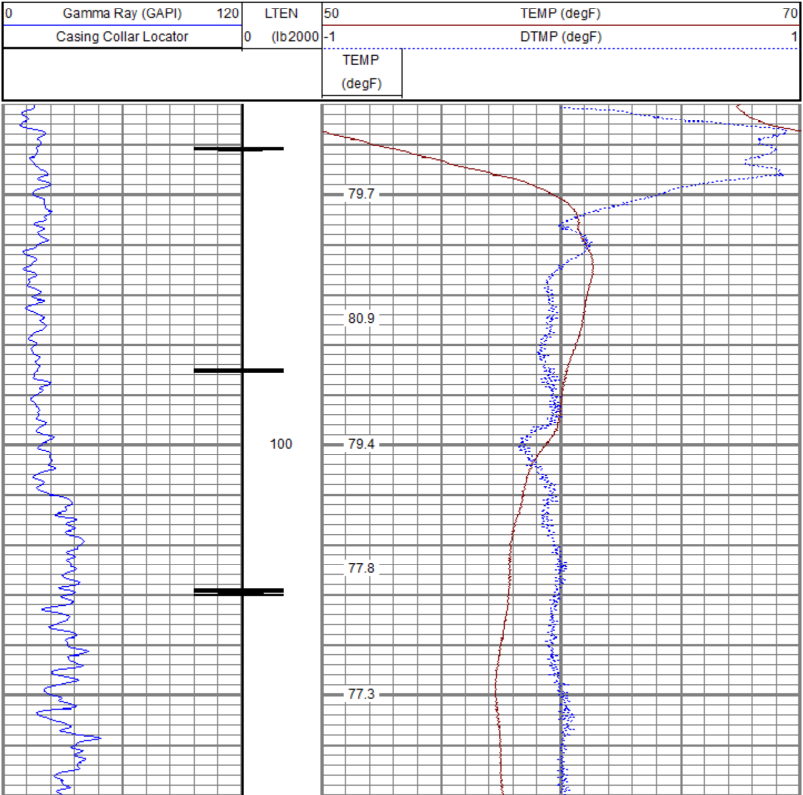
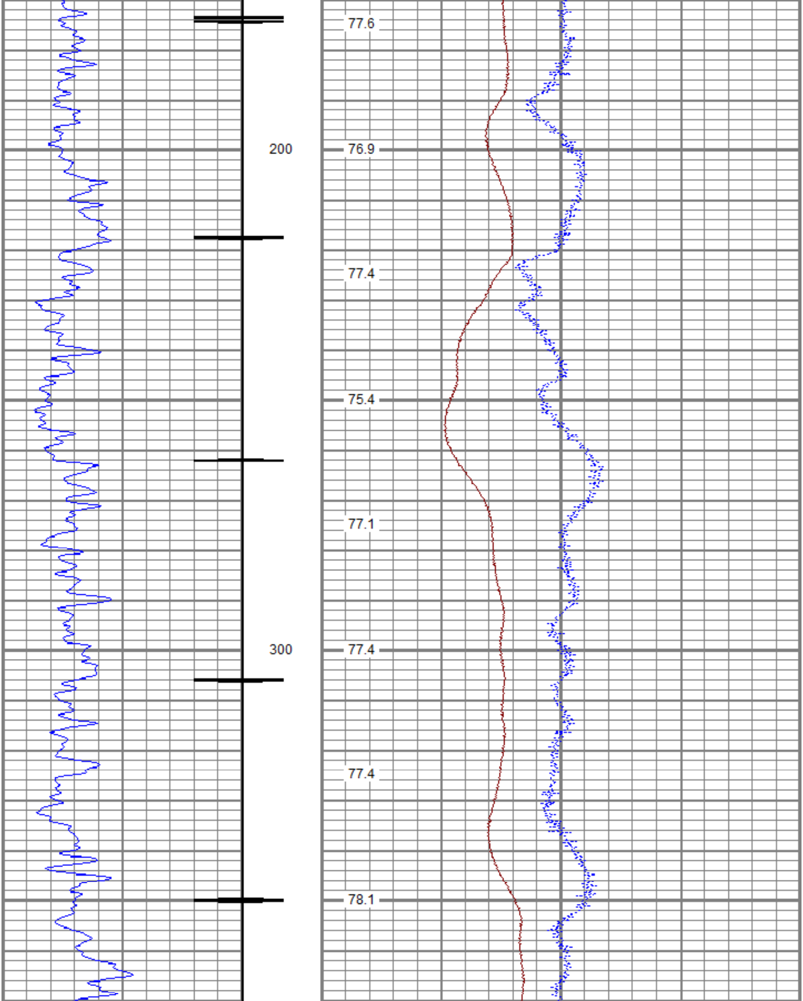
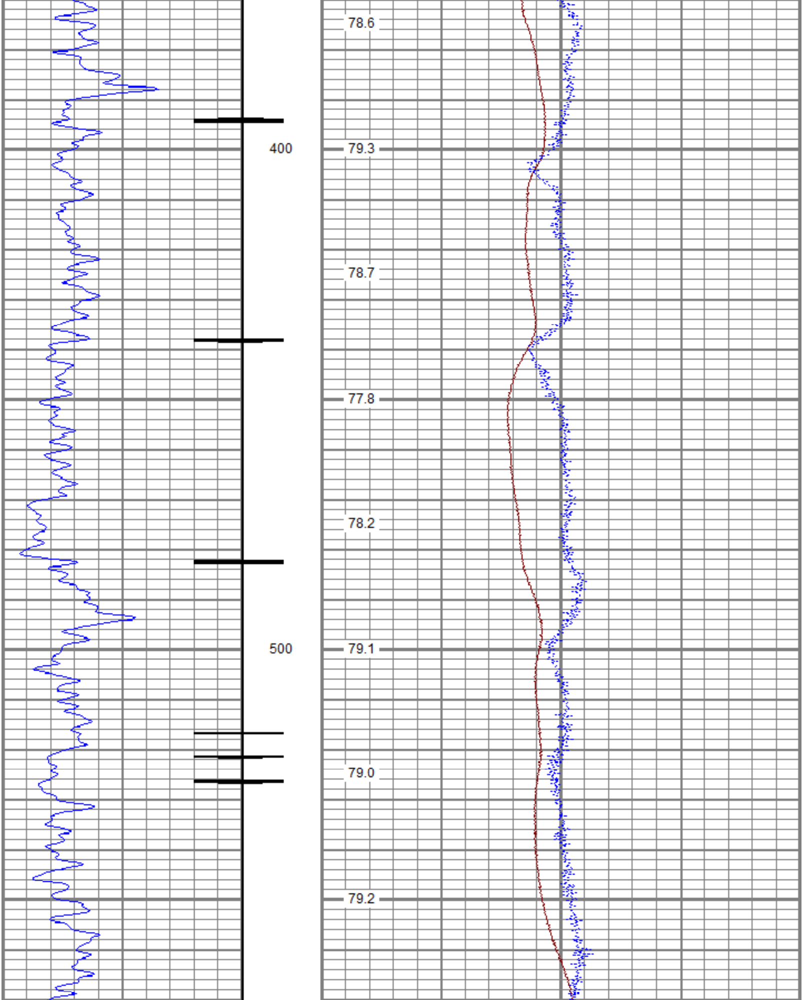
Main Pass

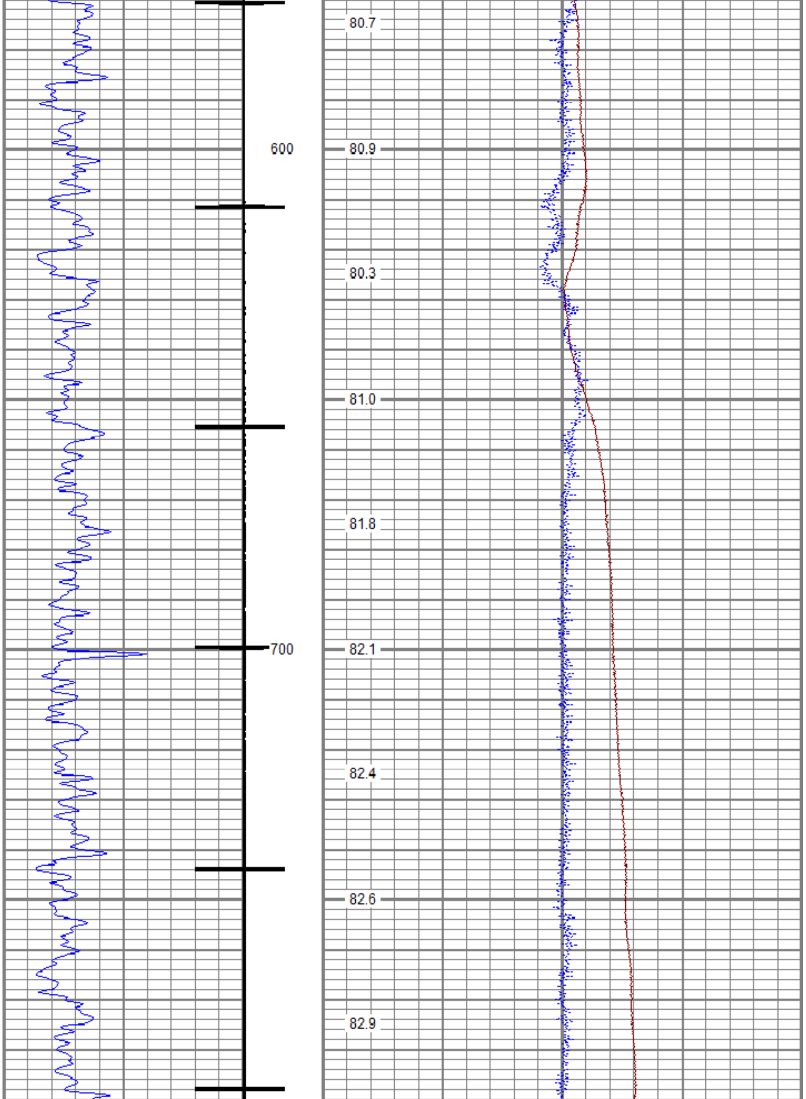
Recorded With 0 PSI Surface Induced Pressure

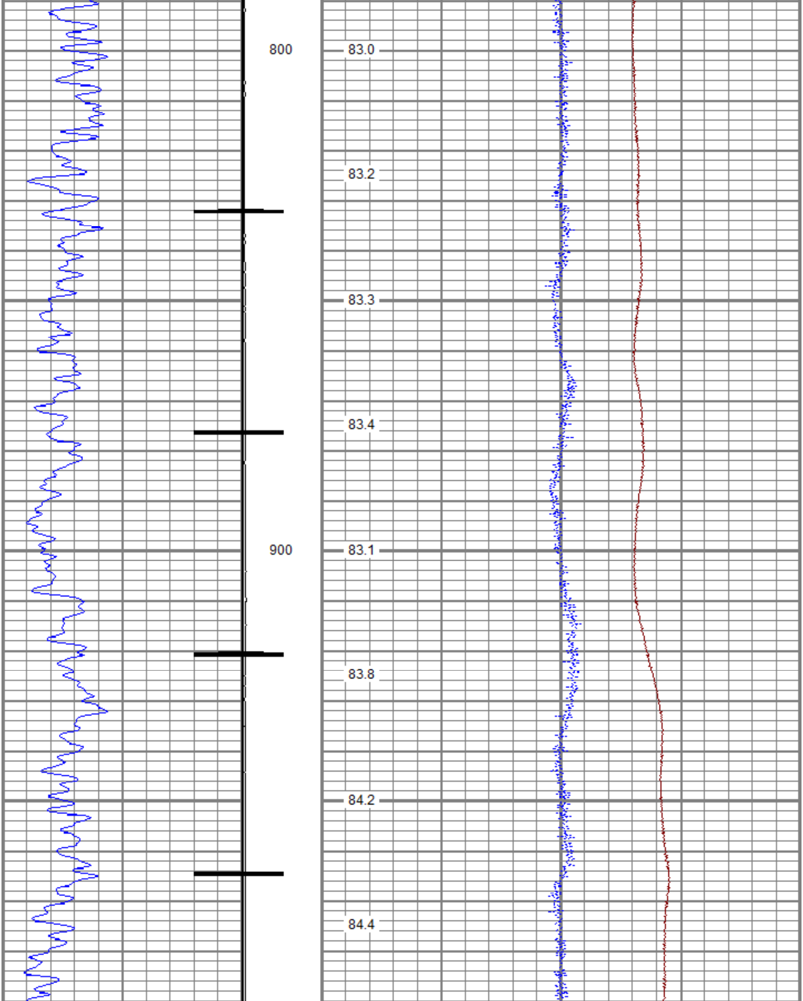
Database File	f:\data\tep\federal sg 11-22\tep_federal sg 11-22_temp_02-22-19.db
Dataset Pathname	Main
Presentation Format	ros_temp_tep
Dataset Creation	Fri Feb 22 04:29:11 2019
Charted by	Depth in Feet scaled 1:240

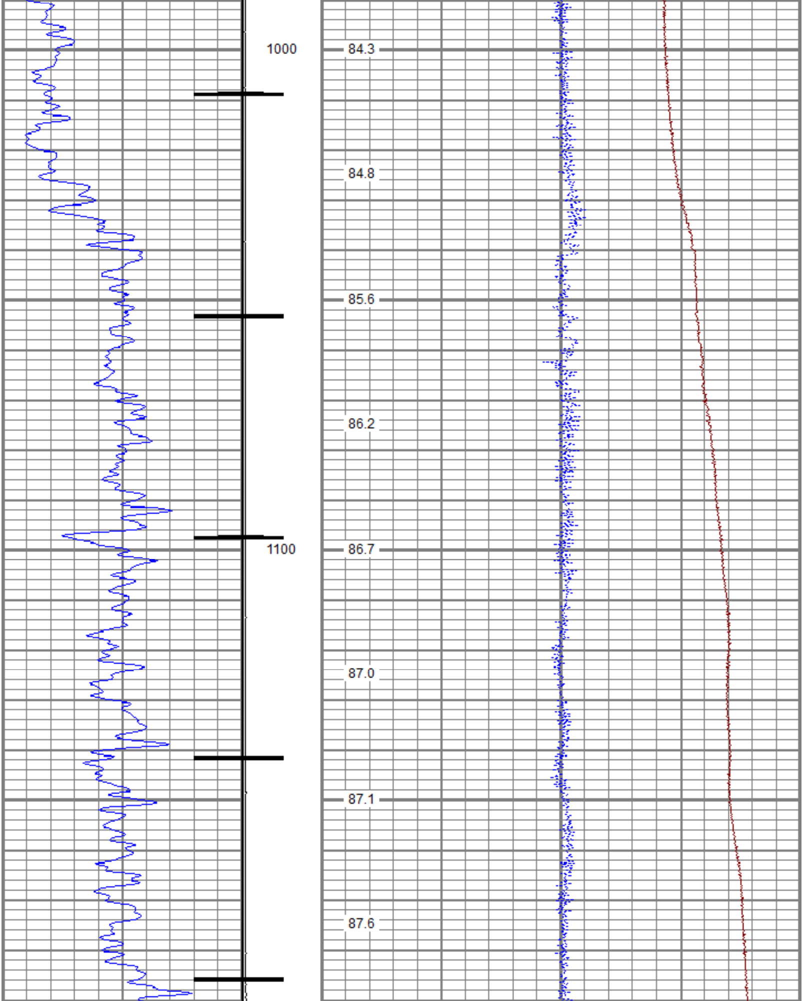


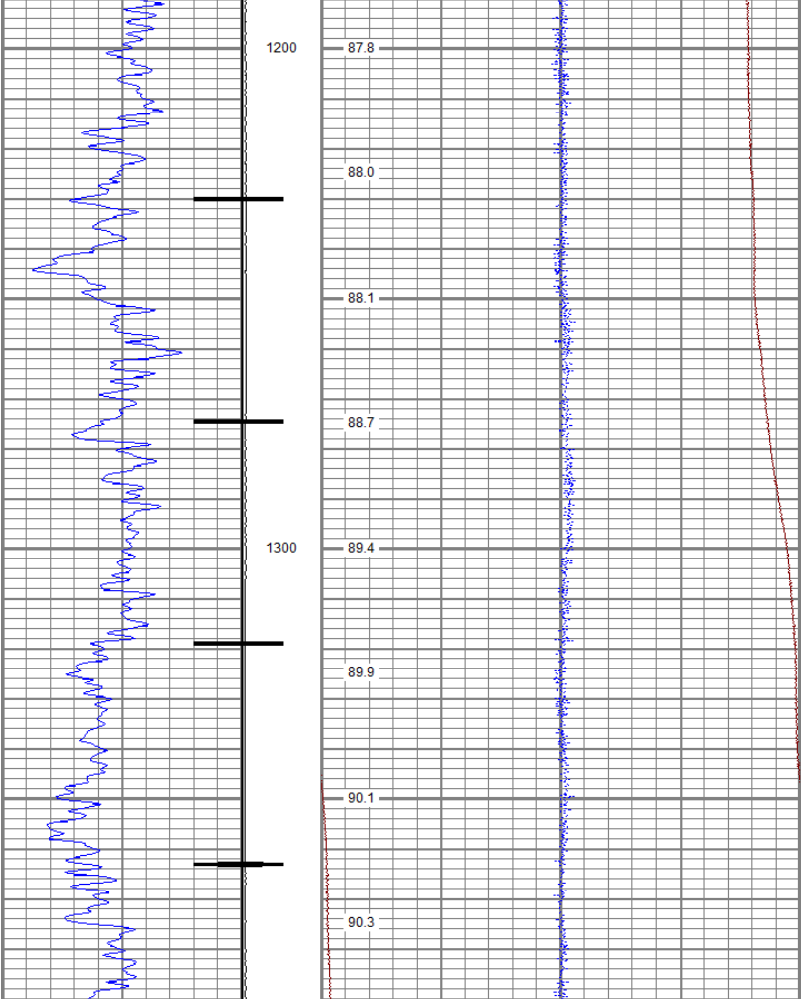


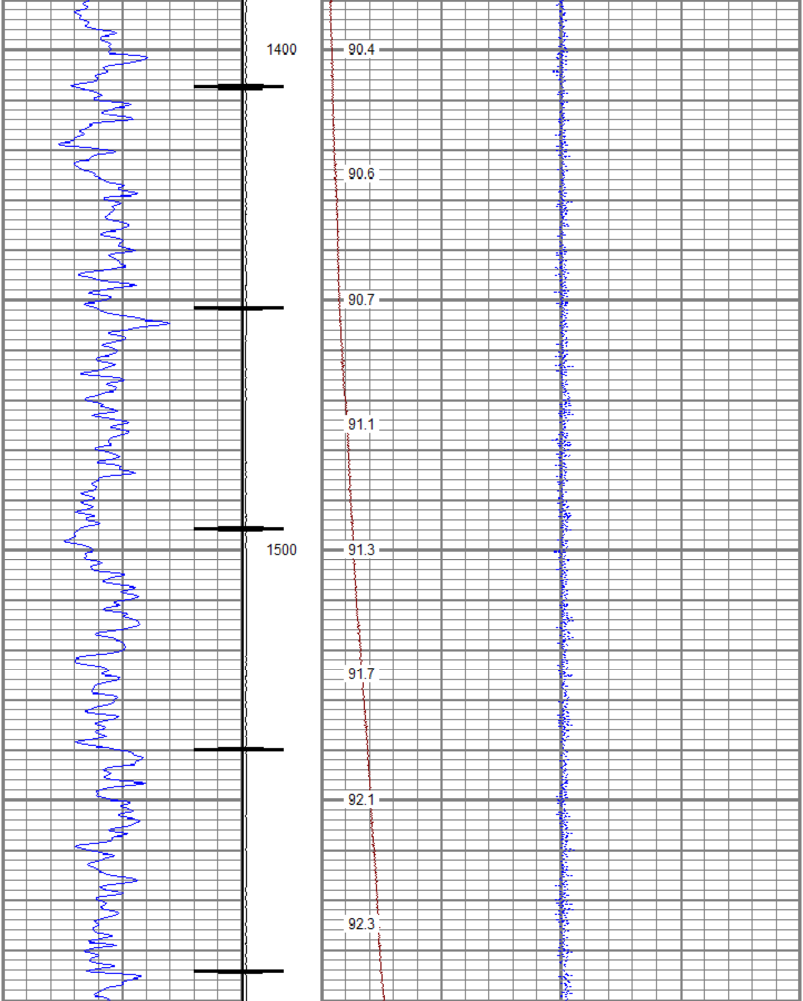


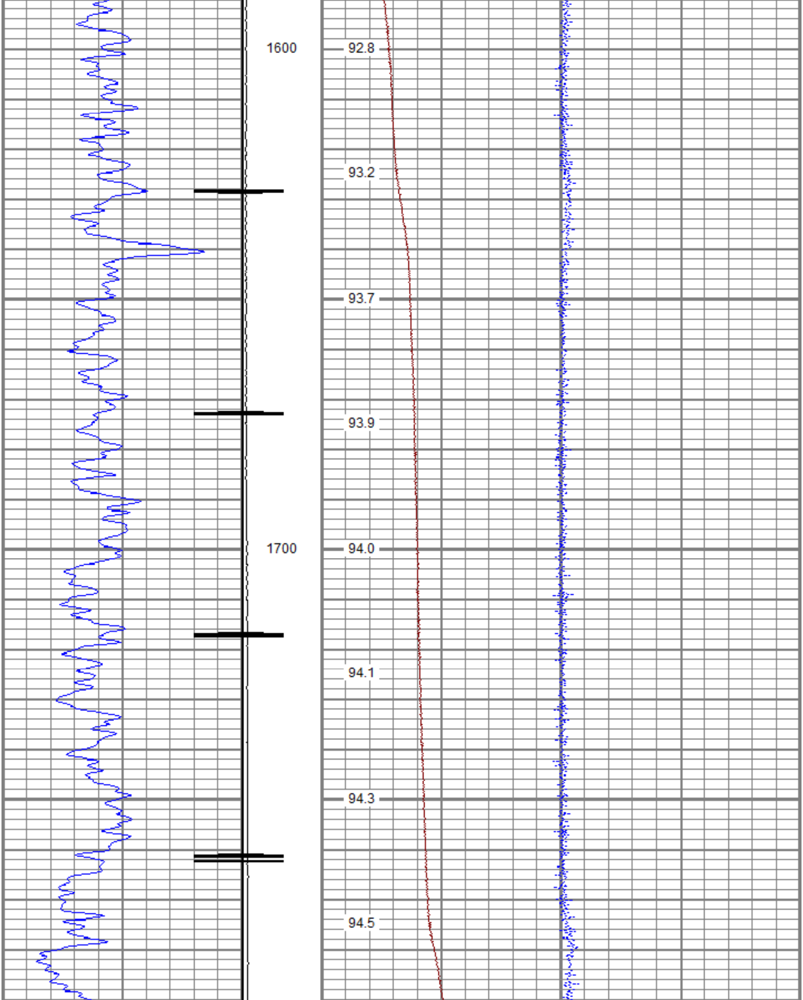


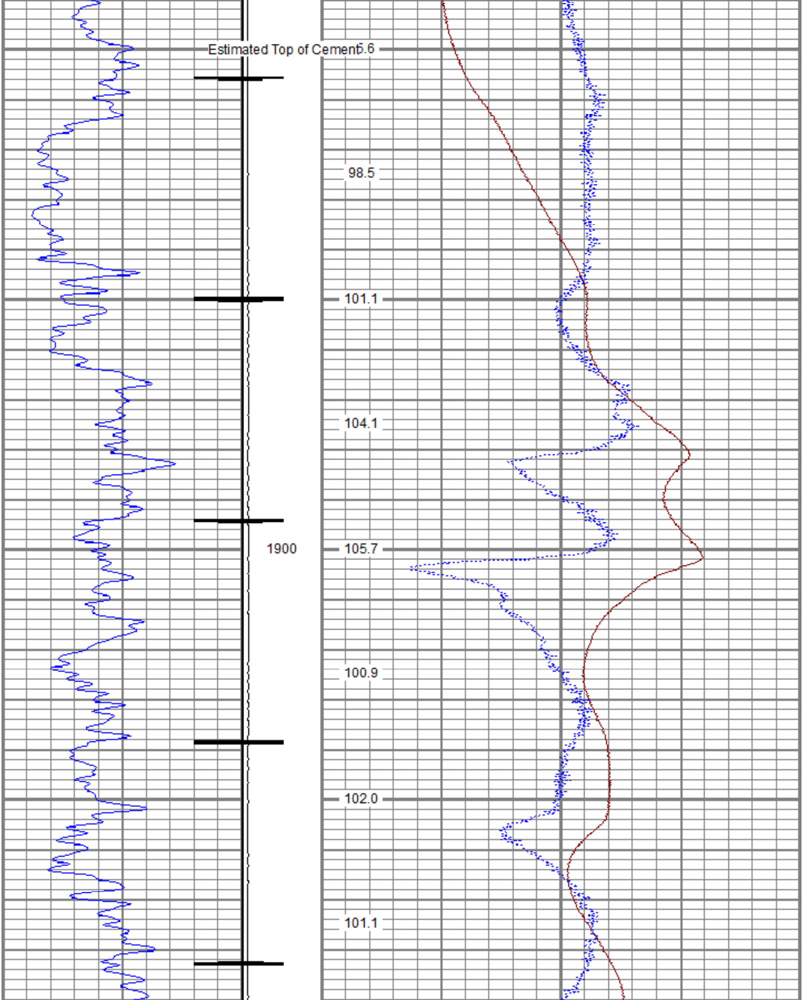


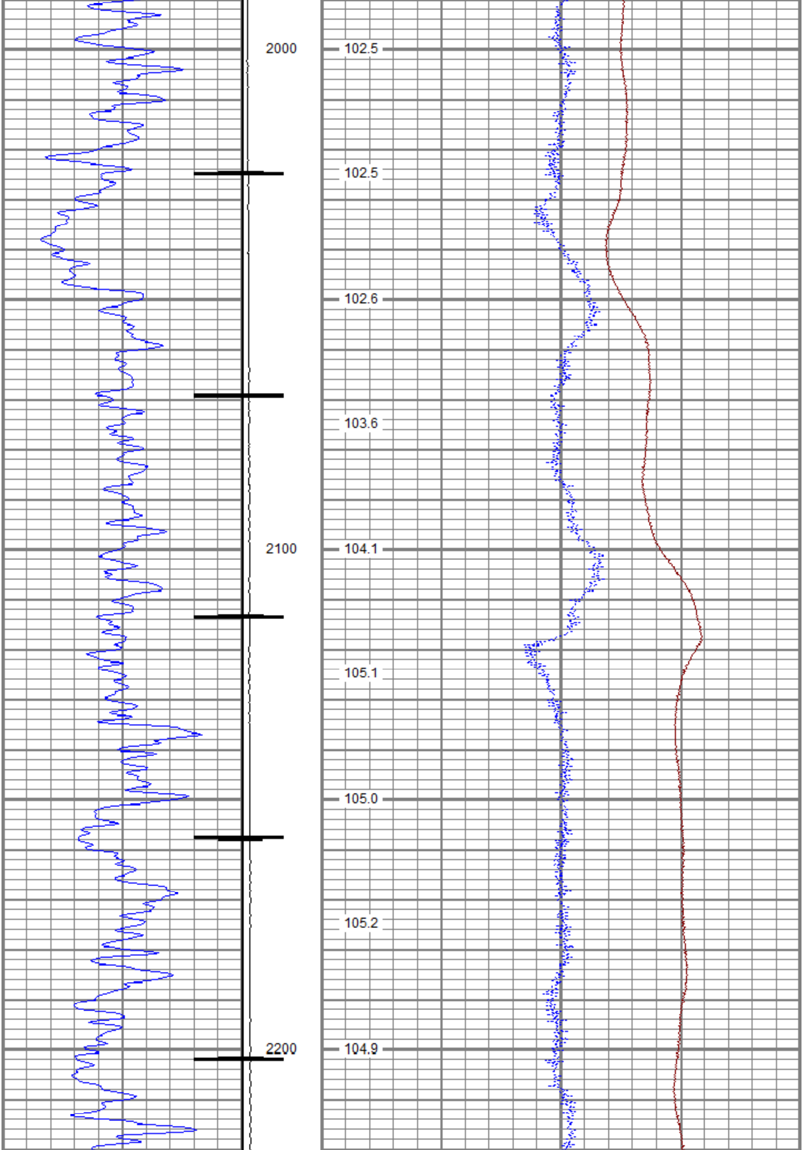


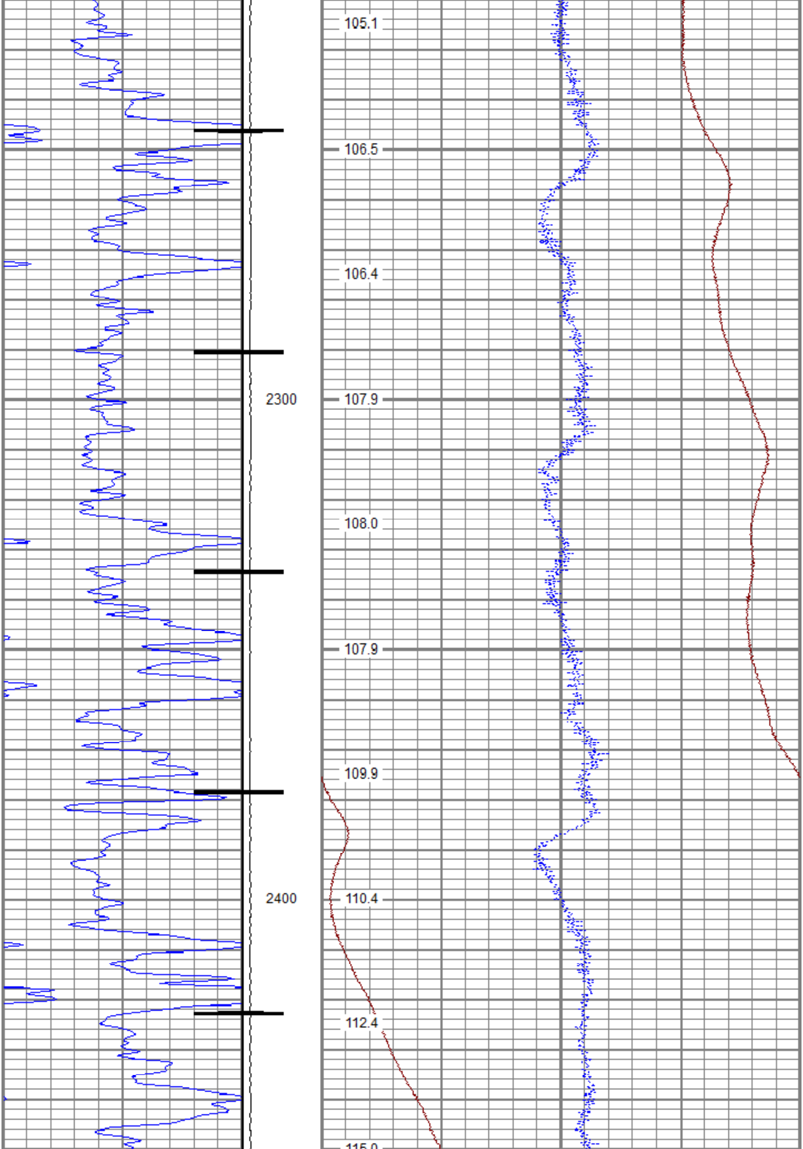


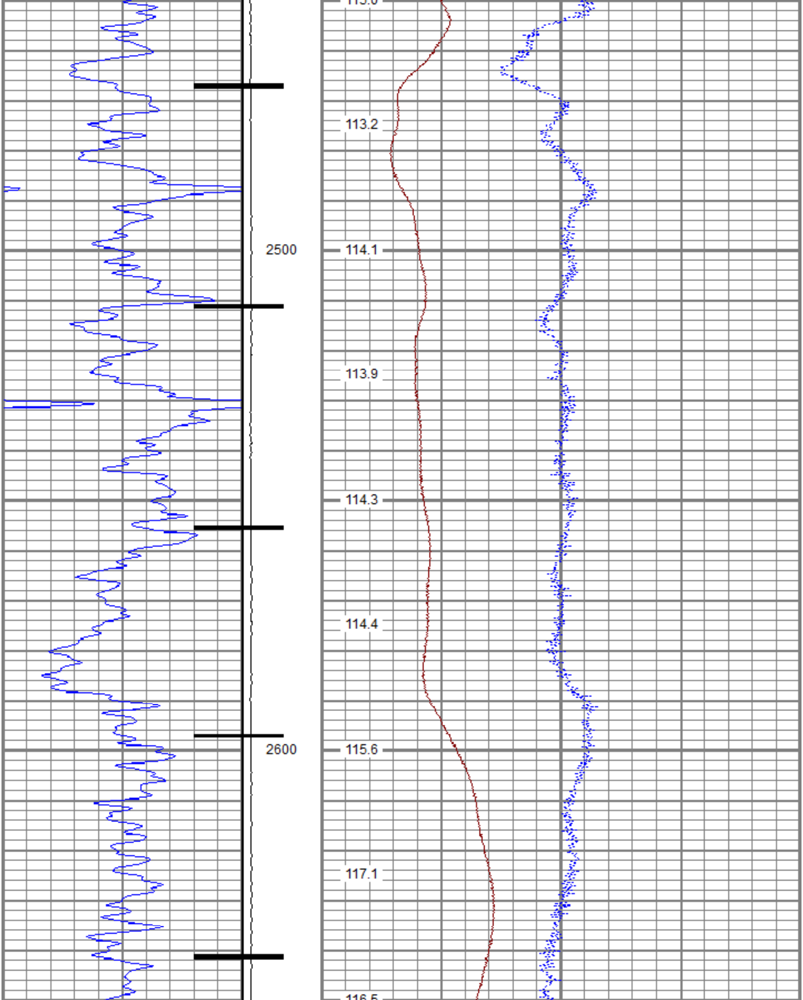


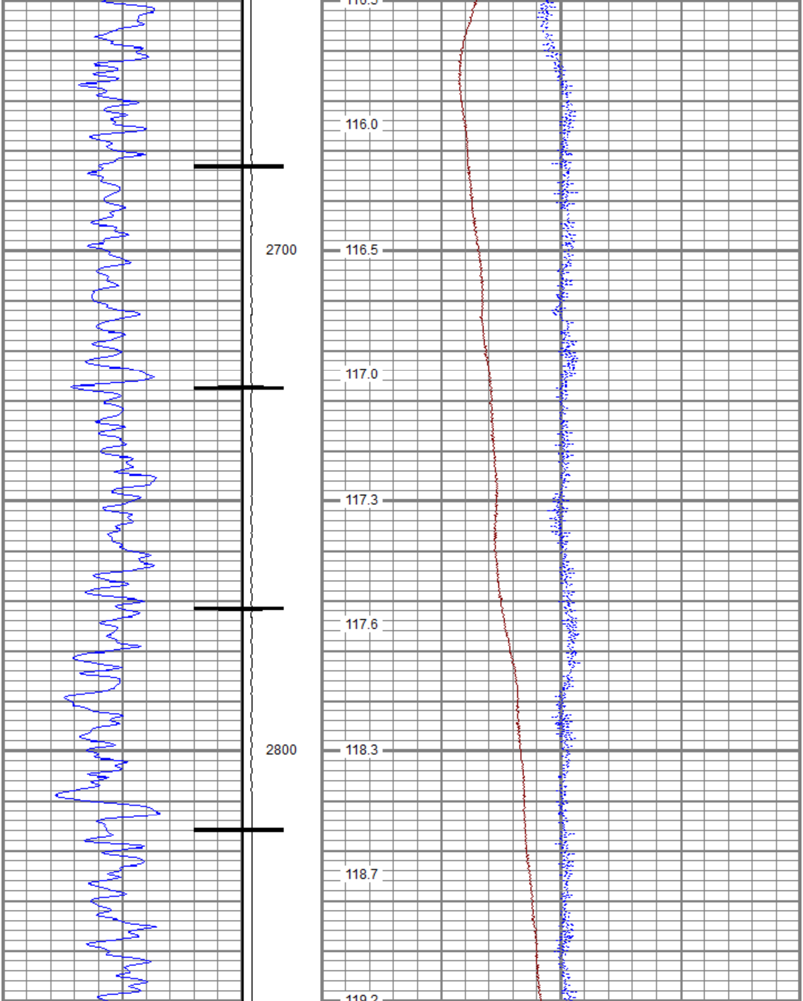


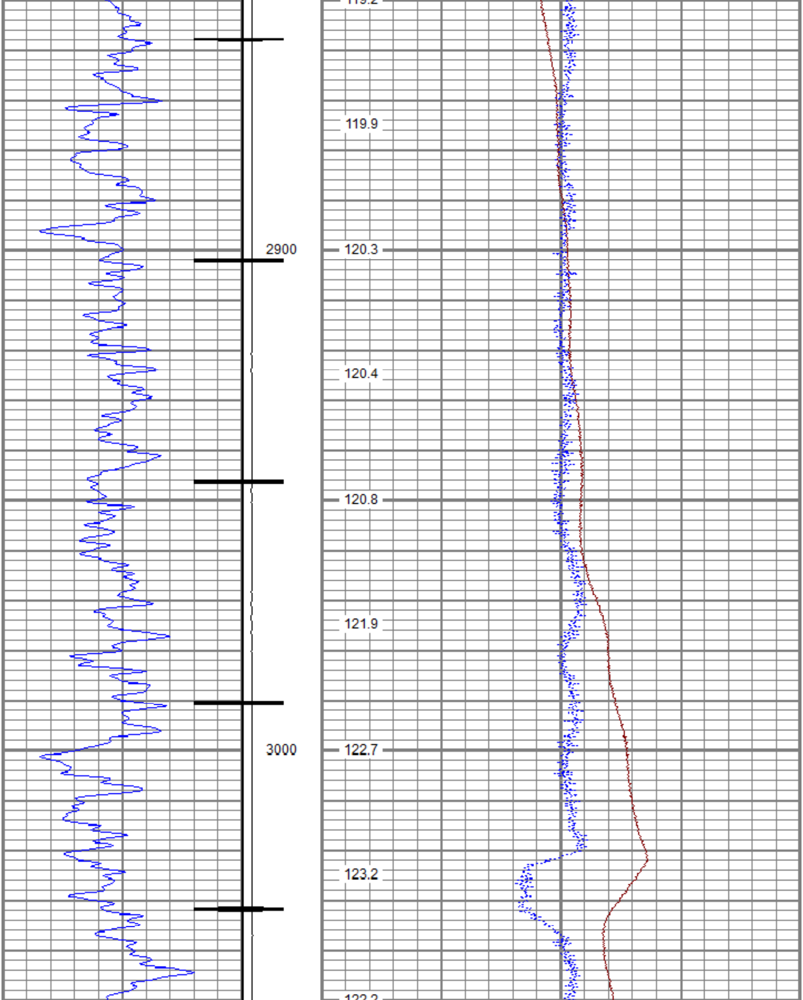


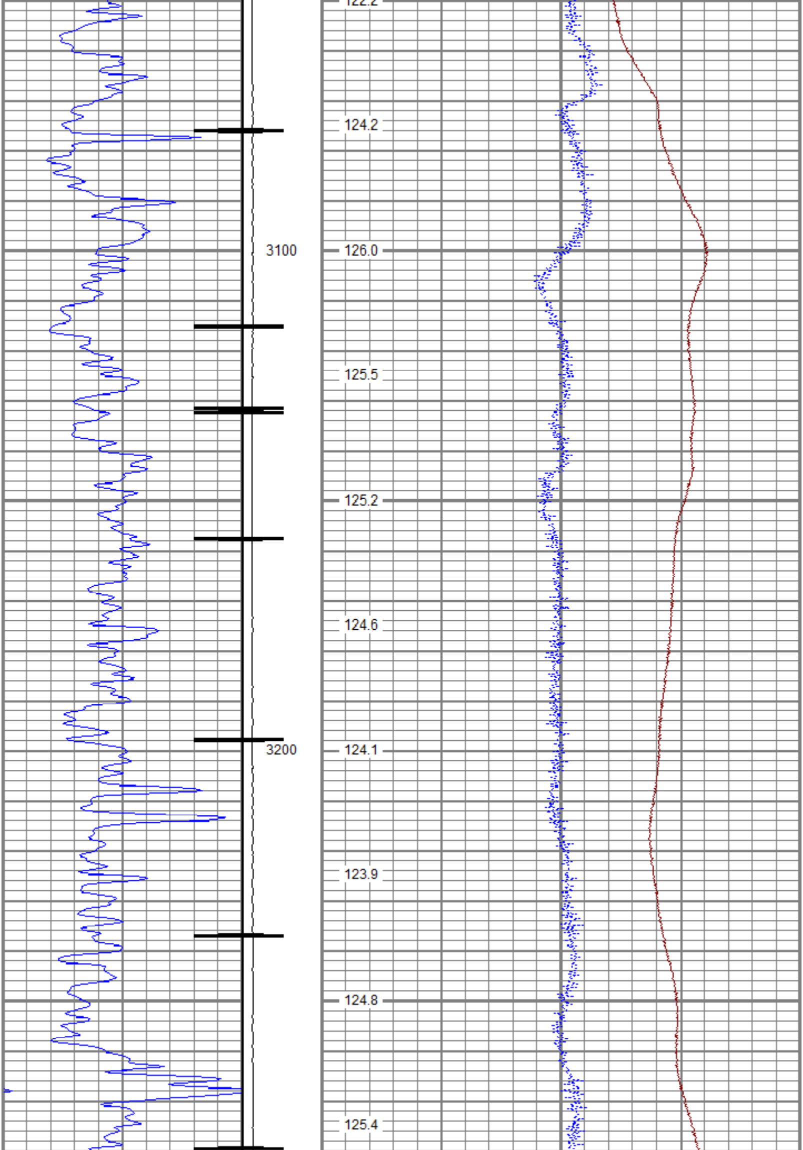


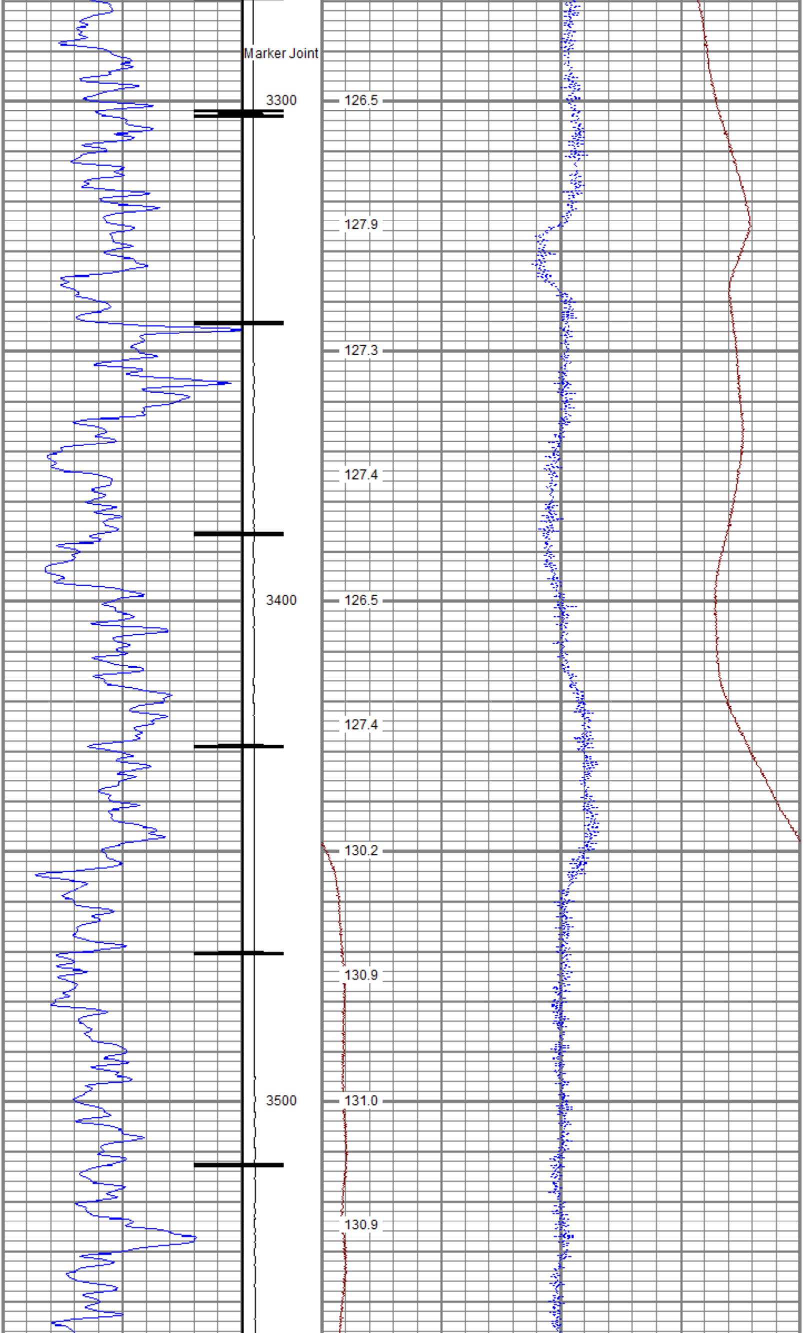


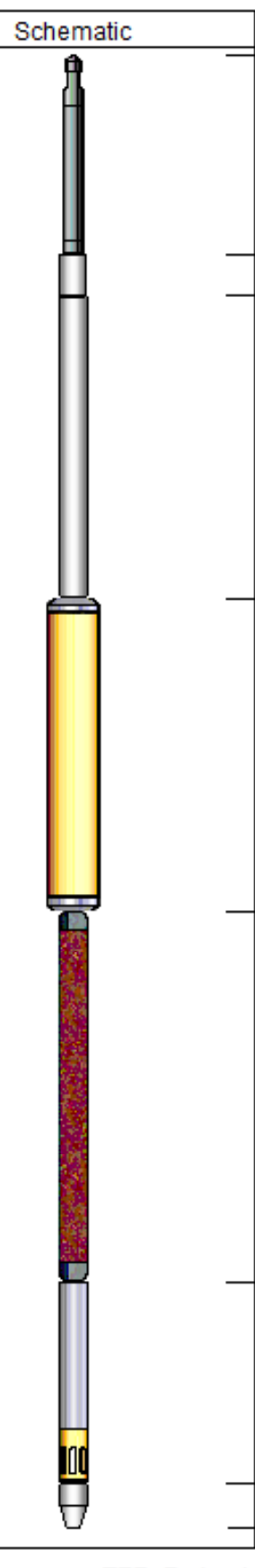










Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.44	3.60
			UW AGS-001 (211461) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW XTU-002 (10017430) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
CCL	3.70		UW CCL-028 (10009470) 3-1/8" Ultrawire Casing Collar Locator	1.61	3.13	36.00
GR	1.76		UW PGR-020 (10019072) Production Gamma Ray	1.92	1.69	9.50
TEMP	0.37		UW PRT-016 (10024052) Platinum Resistance Thermometer	1.04	1.69	5.20
TSTAMP	0.00		UW BUL-006 (10019616) Sondex Ultrawire Bullnose Terminator Sub	0.22	1.69	1.20

Dataset: TEP_Federal SG 11-22_TEMP_02-22-19.db: field/well/run1/Main
Total length: 7.62 ft
Total weight: 63.00 lb
O.D.: 3.13 in

Calibration Report

Database File F:\DATA\TEP\Federal SG 11-22\TEP_Federal SG 11-22_TEMP_02-22-19.db
Dataset Pathname Main
Dataset Creation Fri Feb 22 04:29:11 2019

Temperature Calibration Report

Serial Number: 10024052
Tool Model: 016
Performed: Sun Nov 12 14:11:08 2017

Point #	Reading		Reference	
1	12242.00	cps	68.00	degF
2	18329.00	cps	104.00	degF
3	29563.00	cps	176.00	degF
4	41222.00	cps	248.00	degF
5	52988.00	cps	320.00	degF
6	58824.00	cps	356.00	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number: 10019072
Tool Model: 020
Performed: Sun Nov 12 06:37:04 2017

Calibrator Value: 637.0 GAPI

Background Reading: 78.8 cps
Calibrator Reading: 1069.9 cps

Sensitivity: 0.6427 GAPI/cps

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