RELIANCE
OILFIELD SERVICES

Temperature
Gamma Ray
Casing Collar Log

Company TEP Rocky Mountain LLC
Well Federal RU 313-17
Field Rulison
County Garfield
State Colorado

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Field Rulison
County Garfield State Colorado
Location: API # : 05-045-23743
SEC 17 TWP 7S RGE 93W
Other Services
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		Elevation		Elevation
Permanent Datum	Ground Level	8365.6'		K.B. 8389.6'
Log Measured From	Kelly Bushing	24 FT		D.F. 8388.6'
Drilling Measured From	Kelly Bushing			G.L. 8365.6'

Date	06-APR-2018
Run Number	One
Depth Driller	10727 FT
Depth Logger	10666 FT
Bottom Logged Interval	10662 FT
Top Log Interval	Surface
Open Hole Size	8.750"
Type Fluid	Fresh Water
Density / Viscosity	8.34 lb/gal
Max. Recorded Temp.	242°F
Estimated Cement Top	5138 FT
Time Well Ready	ROA
Time Logger on Bottom	19:40
Equipment Number	HD-0359
Location	Grand Junction, CO
Recorded By	J.Donnelly
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	1122 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	10687 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
Log ran from 10662 FT to Surface
Log ran with 0 PSI Surface Induced Pressure

Thank you for choosing Reliance Oilfield Services, LLC!!

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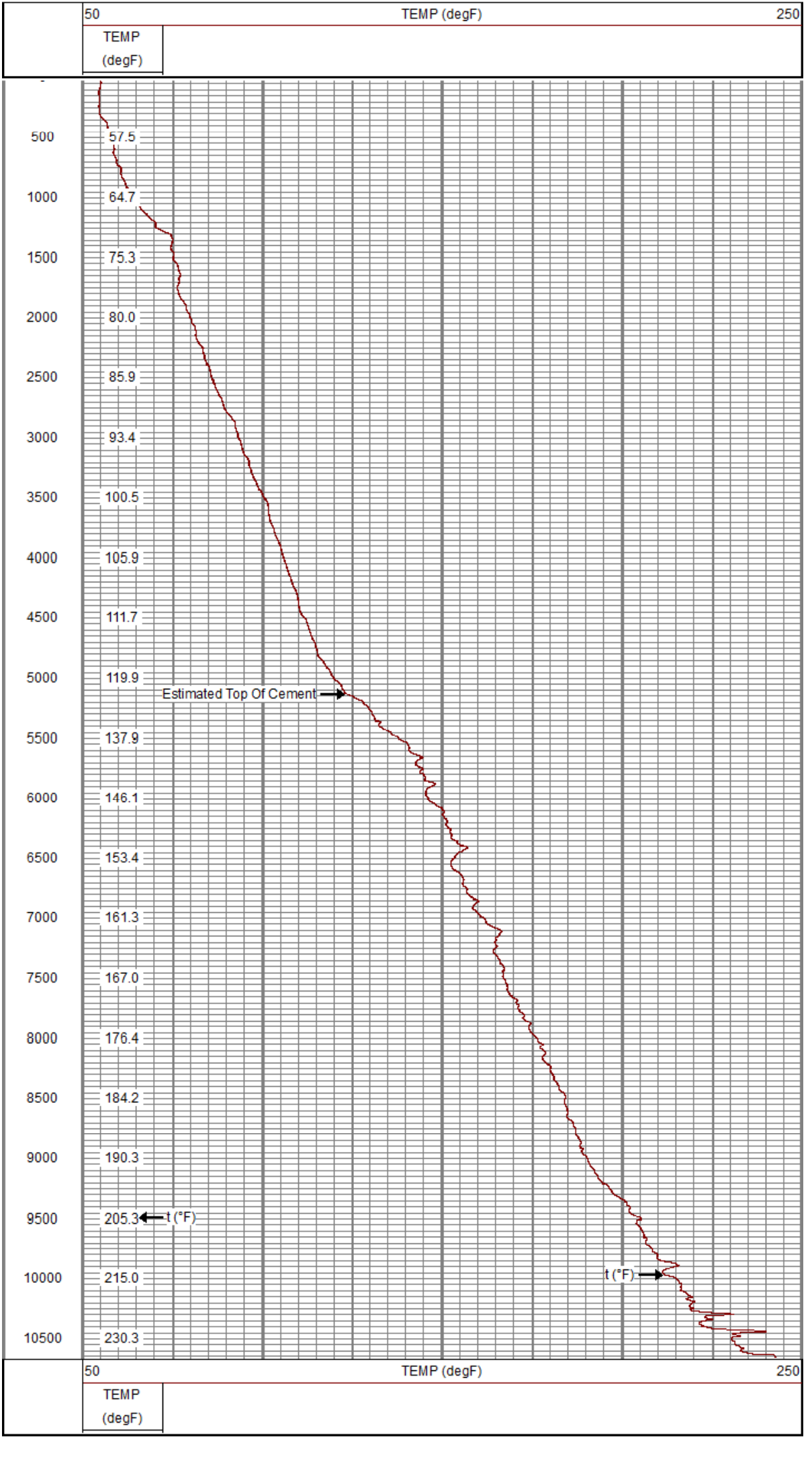
Main Pass (Quick Look)

Recorded with 0 PSI Surface Induced Pressure

Database File tep\federal ru 313-17\tep_federal ru 313-17_temp_04-06-18.db
Dataset Pathname main1.1
Presentation Format ros_temp_ql_tep
Dataset Creation Fri Apr 06 22:47:50 2018
Charted by Depth in Feet scaled 1:10000



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Main Pass

Recorded with 0 PSI Surface Induced Pressure

Database File tep\federal ru 313-17\tep_federal ru 313-17_temp_04-06-18.db
Dataset Pathname main1
Presentation Format ros_temp_tep
Dataset Creation Fri Apr 06 20:42:29 2018
Charted by Depth in Feet scaled 1:240

3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
5800
5900
Estimated Top of Cement
6000
6100
6200
6300
6400
6500
Frame Joint
6600
6700
6800
6900
7000
7100
7200
7300
7400

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
GR	3.37		UW PGR-020 (10019371) Production Gamma Ray	1.92	1.69	9.50
CCL	1.77		UW CCL-028 (10018437) 3-1/8" Ultrawire Casing Collar Locator	1.61	3.13	36.00
TEMP	0.37		UW PRT-016 (10025093) 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 RU 313-17_TEMP_04-06-18.db: field/well/run1/main1.1
Total length: 7.62 ft
Total weight: 63.00 lb
O.D.: 3.13 in

Calibration Report

Database File C:\ProgramData\Warrior\Data\TEP\Federal RU 313-17\TEP_Federal RU 313-17_TEMP_04-06-18.db
Dataset Pathname main1
Dataset Creation Fri Apr 06 20:42:29 2018

Temperature Calibration Report

Serial Number: 10025093
Tool Model: 016
Performed: Sun Nov 12 13:20:23 2017

Point #	Reading		Reference	
1	13006.00	cps	68.00	degF
2	18181.00	cps	104.00	degF
3	29634.00	cps	176.00	degF
4	41077.00	cps	248.00	degF
5	52560.00	cps	320.00	degF
6	58409.00	cps	356.00	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

Gamma Ray Calibration Report

Serial Number:	10019371	
Tool Model:	020	
Performed:	Sun Nov 12 05:37:04 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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