RELIANCE OILFIELD SERVICES

Temperature Gamma Ray Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Youberg SR 531-12
Field	Rulison
County	Garfield
State	Colorado

Company TEP Rocky Mountain LLC

Well Youberg SR 531-12

Field Rulison

County Garfield State Colorado

Location: API # : 05-045-23431

1887' FNL & 2115' FEL SWNE

SEC 12 TWP 7S RGE 94W

Other Services: ---

			Elevation
Permanent Datum	Ground Level	Elevation 7254'	K.B. 7278'
Log Measured From	Kelly Bushing	24 FT	D.F. 7277'
Drilling Measured From	Kelly Bushing		G.L. 7254'

Date	04-JUL-2017
Run Number	One
Depth Driller	9324 FT
Depth Logger	9239 FT
Bottom Logged Interval	9239 FT
Top Log Interval	Surface
Open Hole Size	8.750"
Type Fluid	Fresh Water
Density / Viscosity	8.34 lb/gal
Max. Recorded Temp.	229°F
Estimated Cement Top	4220 FT
Time Well Ready	ROA
Time Logger on Bottom	01:00
Equipment Number	HD-264
Location	Grand Junction
Recorded By	A. Ellsworth
Witnessed By	---

Borehole Record				Tubing Record		
Run Number	Bit	From	To	Size (in)	Weight (lb/ft)	From	To

Casing Record	Size (in)	Wgt (lb/ft)	Grade	Top	Bottom
Surface Casing	9 5/8	32.3	H-40	Surface	1100 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	9324 FT
Intermediate #2					
Liner					

<<< Fold Here >>>

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 5411 FT to 5434 FT

Thank you for choosing Reliance Oilfield Services, LLC!!

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Main Pass

Database File	new folder (2)\tep_youberg sr 531-12_temp_07-04-17.db
Dataset Pathname	pass1.4
Presentation Format	ros_temp_tep
Dataset Creation	Tue Jul 04 01:28:33 2017
Charted by	Depth in Feet scaled 1:240

3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
Marker Joint
5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
6900
7000
7100
7200
7300
7400
7500
7600
7700
Estimated Cement Top

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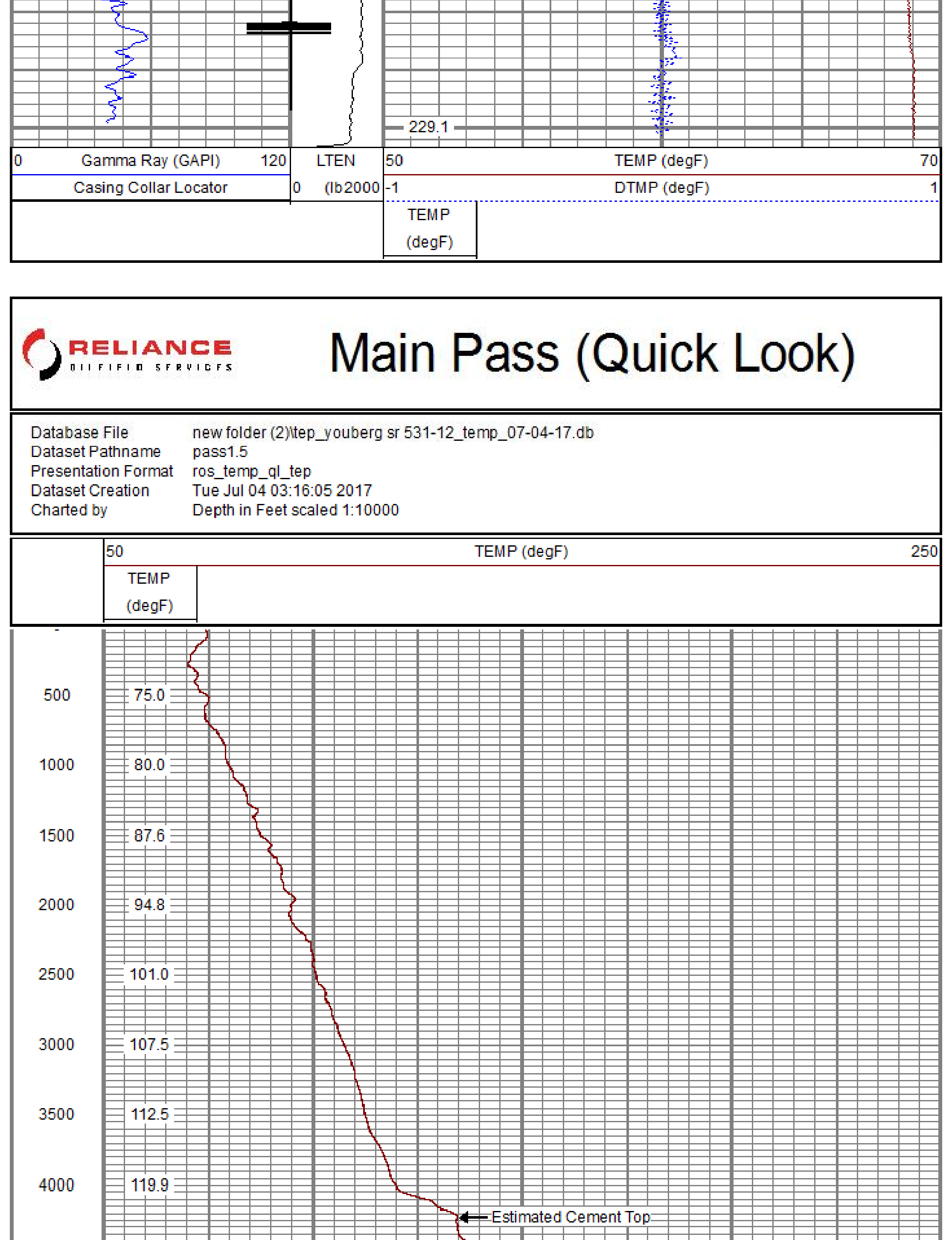
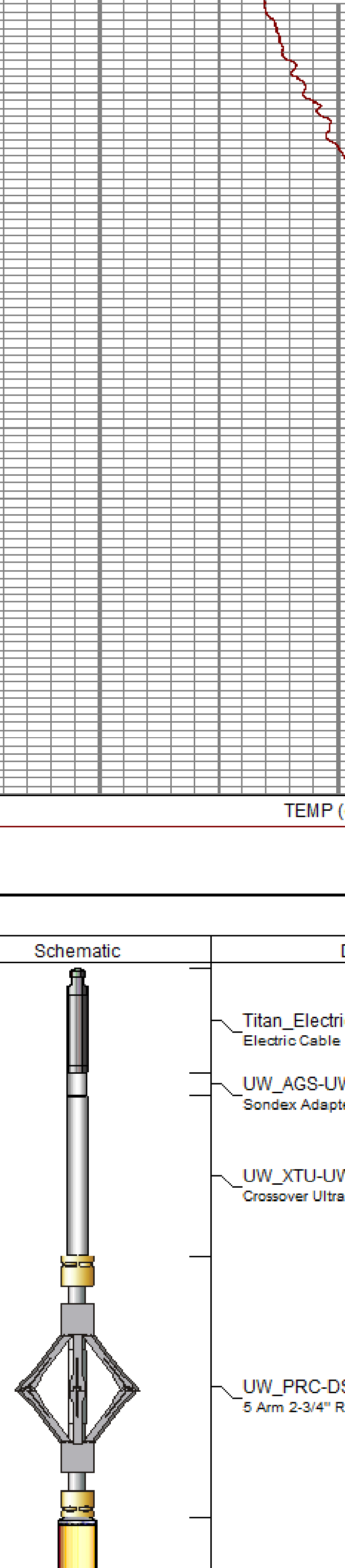
Main Pass (Quick Look)

Database File new folder (2)\tep_youberg sr 531-12_temp_07-04-17.db
Dataset Pathname pass1.5
Presentation Format ros_temp_ql_tep
Dataset Creation Tue Jul 04 03:16:05 2017
Charted by Depth in Feet scaled 1:10000





Sensor	Offset (ft)
CCL	6.24
GR	1.76
TEMP	0.37
TSTAMP	0.00

Description	Length (ft)	O.D. (in)	Weight (lb)
Titan_Electric_Cable_Heads-Titan_1-11/16 Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40
UW_AGS-UW_AGS_001 (219135) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
UW_XTU-UW_XTU_002 (10012277) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
UW_PRC-DSS_RAC 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
UW_CCL-UW_CCL_028 (10025621) 3-1/8" Ultrawire Casing Collar Locator	1.61	3.13	36.00
UW_PRC-DSS_RAC 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
UW_PGR-UW_PGR_020 (10019371) Production Gamma Ray	1.92	1.69	9.50
UW_PRT-PRT_016 (10025093) Platinum Resistance Thermometer	1.04	1.69	5.20
UW_BUL-UW_BUL_006 (10019730) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20

Dataset: TEP_Youberg SR 531-12_TEMP_07-04-17.db: field/well/run1/pass1.5
Total length: 12.71 ft
Total weight: 128.80 lb
O.D.: 3.13 in

Calibration Report

Database File D:\Warrior\Data\New folder (2)\TEP_Youberg SR 531-12_TEMP_07-04-17.db
Dataset Pathname pass1.4
Dataset Creation Tue Jul 04 01:28:33 2017

Temperature Calibration Report

Serial Number: 10025093
Tool Model: PRT_016
Performed: Sun Oct 11 12:31:14 2015

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:	UW_PGR_020	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

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