ROCKY MOUNTAIN WIRELINE SERVICE

TEMPERATURE CCL LOG

Company	TEP ROCKY MOUNTAIN LLC		
Well	RU 321-7		
Field	RULISON		
County	GARFIELD	State	COLORADO
Location:	API # : 05-045-23134-00 QtrQtr: SENW LAT. 39.457044 LOG. -107.819690	Other Services	
SEC 7	TWP 7S	RGE 93W	
Permanent Datum	G.L.	Elevation 7339'	Elevation K.B. 7363' D.F. G.L. 7339'
Log Measured From	K.B.	24.0' Ft Above PD	
Drilling Measured From	K.B.		

Date	10-10-2016	
Run Number	ONE	
Depth Driller	9816'	
Present Depth Driller	9777'	
Depth Logger	9783'	
Bottom Logged Interval	9783'	
Top Log Interval	SURFACE	
Fluid Level	FULL	
Type Fluid	WATER	
Max. Recorded Temp.	172.1° F	
Estimated Cement Top	3550'	
Equipment Number	216	
Location	GRAND JCT.	
Recorded By	MCBROOM	
Witnessed By	MR. BROWN	MR. ABBEY

Borehole Record			Casing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				4.50"	11.6#	SURFACE	9806'

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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.

WARRIOR 7.0 SOFTWARE - Comments

NOTE; THERE WAS NO LOG FOR DEPTH CONTROL.
SCALE MAIN PASS 5"= 100'.
NOTE; SHORT JOINT AT 6017' TO 6039'.

Calibration Report

Database File: 10102016_tep_ru 321-7.db
Dataset Pathname: mainpass/pass1.1
Dataset Creation: Mon Oct 10 07:50:28 2016 by Calc SCH 120430

Temperature Calibration Report

Serial Number: 16-53
Tool Model: APPLIED
Performed: Tue Jan 31 10:43:33 2012

	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps

Gain: 0.10
Offset: 0.00
Delta Spacing 2

ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS

Database File: 10102016_tep_ru 321-7.db
Dataset Pathname: mainpass/pass1
Presentation Format: rmws_temp
Dataset Creation: Mon Oct 10 06:01:43 2016 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
LTEN
CCL
4900
5000
5100
5200
5300
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5600
5700
5800
5900
6000
SHORT JOINT
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6200
6300
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6800
6900
7000
7100
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7300
7400
7500
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DTEMP
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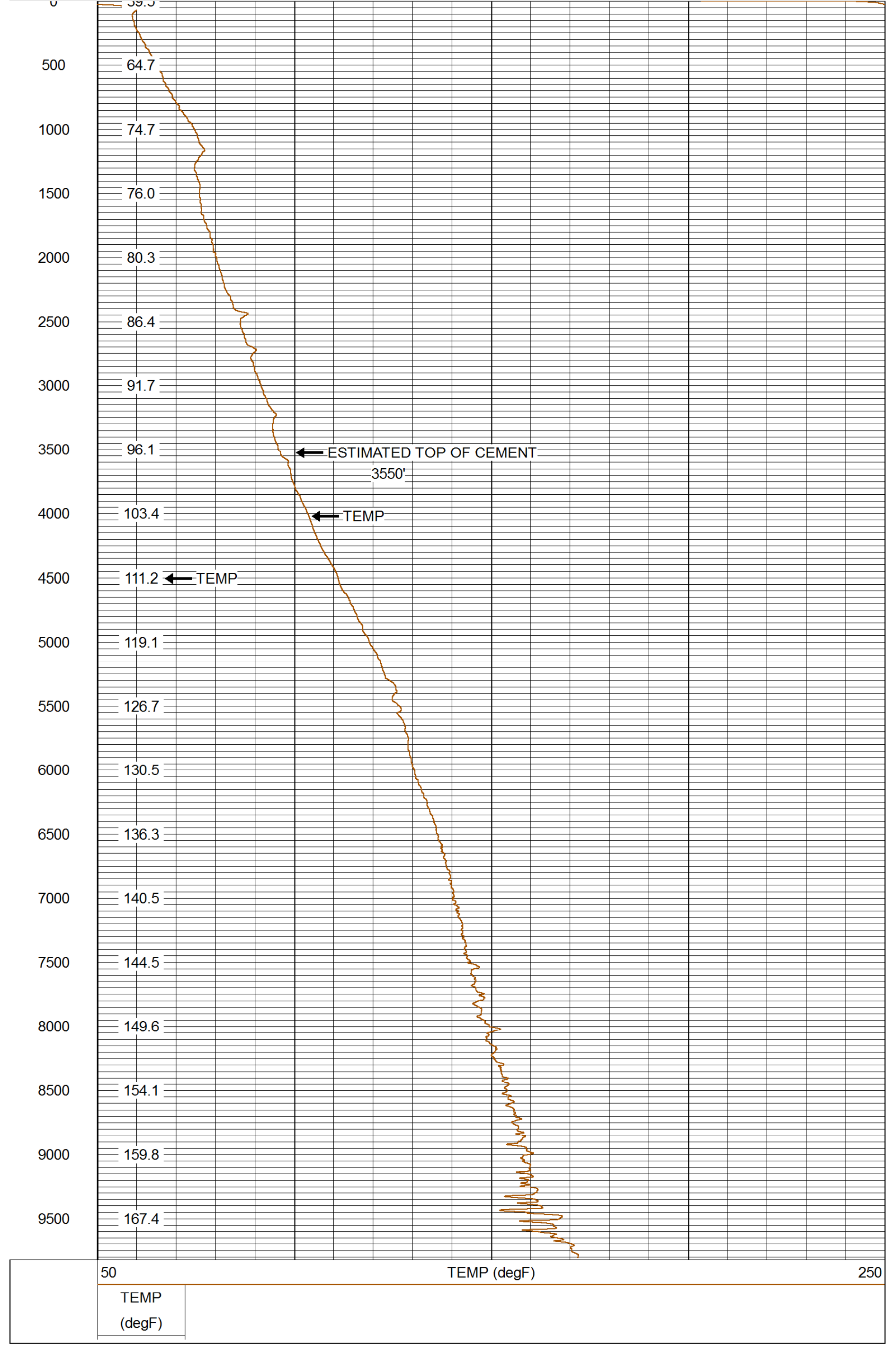
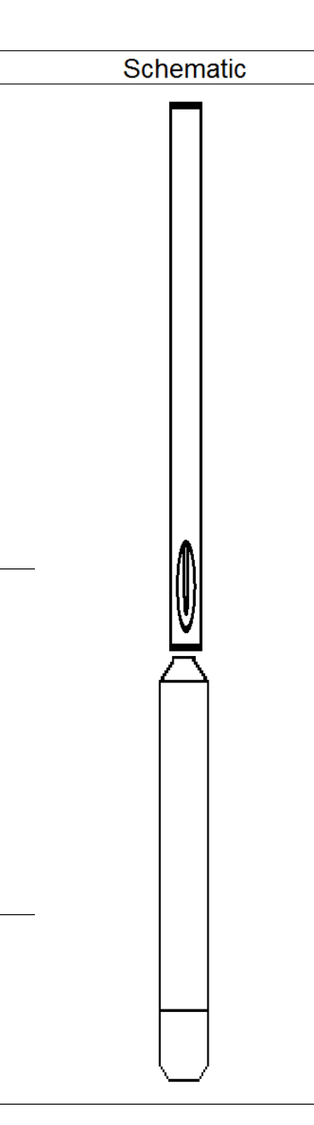
146.2

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

MAIN PASS (QUICK LOOK)

Database File:	10102016_tep_ru 321-7.db
Dataset Pathname:	mainpass/pass1.1
Presentation Format:	rmtemp_q
Dataset Creation:	Mon Oct 10 07:50:28 2016 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:10000



Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TEMP	2.44		TEMP-APPLIED (16-53)	2.67	1.38	11.00
CCL	0.79		CCL-3.125_APPLIED (40-01NB) positive or negative voltage logging ccl	2.03	3.13	45.00

Dataset: 10102016_tep_ru 321-7.db: field/well/mainpass/pass1.1
Total Length: 4.69 ft
Total Weight: 56.00 lb
O.D.: 3.13 in

RMWS
ROCKY MOUNTAIN WIRELINE SERVICE

Company	TEP ROCKY MOUNTAIN LLC
Well	RU 321-7
Field	RULISON
County	GARFIELD
State	COLORADO