KLX Energy Services

GAMMA RAY C.C.L.
CEMENT BOND V.D.L.

Company	CRESTONE PEAK RESOURCES
Well	SHELEY 13-4
Field	WATTENBERG
County	WELD
State	COLORADO
Country	USA

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Location: API #: 05-123-20384
2180' FSL X 460' FSL
SEC 4 TWP 2N RGE 67W

Other Services
N/A

Permanent Datum	GL	Elevation	4889'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B.
D.F.
G.L. 4889'

Date	7-JUNE-2017
Run Number	ONE
Depth Driller	7995'
Depth Logger	5062'
Bottom Logged Interval	5050'
Top Log Interval	SURFACE
Open Hole Size	7-7/8"
Type Fluid	WATER
Density / Viscosity	8.34PPG
Max. Recorded Temp.	N/A
Estimated Cement Top	4450'
Time Well Ready	ROA
Time Logger on Bottom	7:45 AM
Equipment Number	411468
Location	STERLING, CO
Recorded By	RANDY AZEVEDO
Witnessed By	DENNIS SODERMAN

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8"	24#	SURFACE	408'
Prot. String				
Production String	4.5"	11.6#	SURFACE	7979'
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 REFERENCE TO SQUEEZE HOLES AT 4000'
LOG RAN FROM 5050' TO SURFACE
LOG RAN UNDER 0 PSI SURFACE INDUCED PRESSURE
MINOR OBSTRUCTION AT SQUEEZE HOLES
NO DEBRIS ON TOOL UPON RETREIVAL OUT OF WELL

THANK YOU FOR CHOOSING KLX ENERGY SERVICES

KLX Energy Services

4.5" MAIN PASS

LOG RAN UNDER 0 PSI SURFACE INDUCED PRESSURE

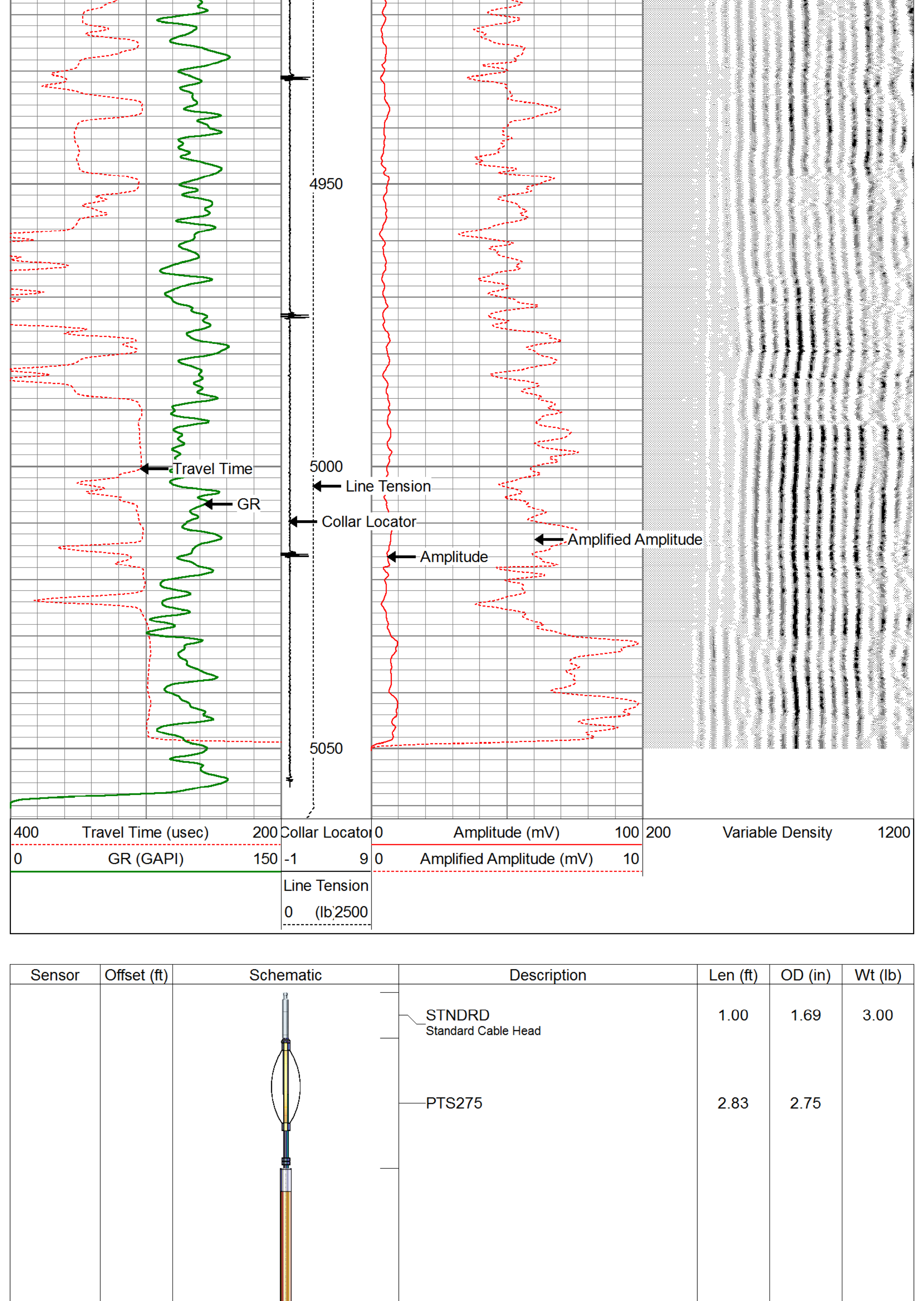
Database File:	sheley 13-4 cbl.db
Dataset Pathname:	pass4
Presentation Format:	cbldig
Dataset Creation:	Wed Jun 07 09:01:13 2017
Charted by:	Depth in Feet scaled 1:240

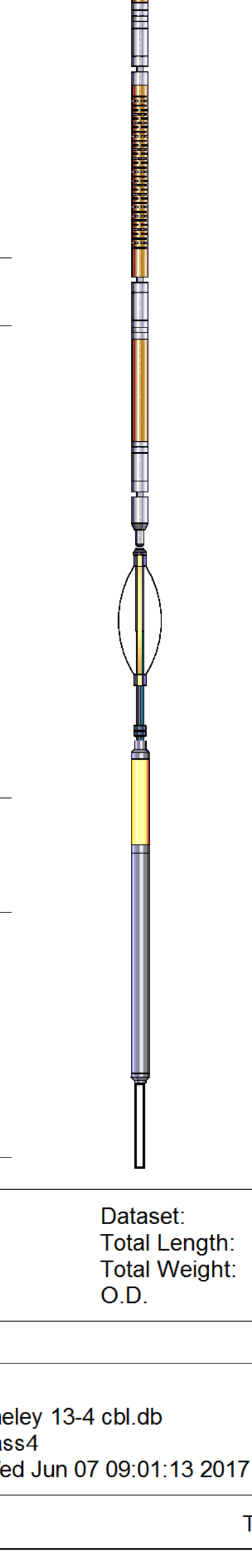
400 Travel Time (usec) 200	Collar Locator	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 150	-1 9	0 Amplified Amplitude (mV) 30	
	Line Tension 0 (lb 2500		

4.5" REPEAT SECTION

LOG RAN UNDER 0 PSI SURFACE INDUCED PRESSURE

Database File:	sheley 13-4 cbl.db
Dataset Pathname:	pass1
Presentation Format:	cbldig
Dataset Creation:	Wed Jun 07 07:51:15 2017 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	3.00
			PTS275	2.83	2.75	
WVF3	13.33		CBL-Digital HT (Probe 275 CBL) (080424 Probe 275 CBL HT	11.28	2.75	130.00
WVF5	12.33					
			PTS275	2.83	2.75	
CCL	5.42					
GR	3.75		GR-Probe275dig (080220) Probe 2.75 High Temperature	5.00	2.75	57.00
TEMP	0.17		TEMP-1.375TEMP (080714) Temperature Tool	1.25	1.38	30.00

Dataset:	sheley 13-4 cbl.db: field/well/run1/pass4
Total Length:	24.20 ft
Total Weight:	220.00 lb
O.D.:	2.75 in

Calibration Report

Database File:	sheley 13-4 cbl.db
Dataset Pathname:	pass4
Dataset Creation:	Wed Jun 07 09:01:13 2017

Temperature Calibration Report

Serial Number:	080714
Tool Model:	1.375TEMP
Performed:	Tue Sep 01 11:41:35 2015

	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	100.00	degF	1000.00	cps
Gain:	0.33			
Offset:	0.00			
Delta Spacing	2			

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 080220

SHOP CALIBRATION			Wed Jun 07 08:52:31 2017		
	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		1.0000			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number:	080424		
Tool Model:	Digital HT (Probe 275 CBL)		
Performed:	Wed Jun 07 07:51:55 2017		
Depth:	1259.4		ft
Casing Diameter:	4.5		in
	3' Spacing	5' Spacing	
Signal Zero:	0.8	0.8	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.0107666	0.0026123	V
Reading in Free Pipe:	0.997144	0.980469	V
Gain:	79.7651	82.2167	
Offset:	1.6588	0.585225	

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