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CEMENT BONG LOG

Company	EXTRACTION OIL & GAS
Well	DIAMOND VALLEY EAST #3
Field	WATTENBERG
County	WELD State CO

Company EXTRACTION OIL & GAS

Well DIAMOND VALLEY EAST #3

Field WATTENBERG

County WELD **State** CO

API No.: 05-123-3580000 Serv #: 1336

Location: LAT 40.467490
LONG -104.869810

Other Services
TEMPERATURE LOG

Sec: 23 Twp: 6N Rge: 67W

Permanent Datum	GROUND LEVEL	Elevation	4769'	Elevation
Log Measured From	KB , 24 Ft. above perm. datum			K.B. 4793' D.F. N/A G.L. 4769'
Drilling Measured From	KB			

Date @ Time Logged	10/14/14@0130HRS	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.4#
Depth - Driller	16728'	Fluid Level	14'
Depth - Logger	7116'	Cement Top Est. Logged	420'
Bottom - Logged Interval	7104'	Equipment / Location	GD 114 / CASPER, WY.
Top - Log Interval	SURFACE	Recorded by	B. KENNICKER
Max. Recorded Temp.	207 DEG F	Witnessed by	HUGH

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented				
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume	/	/	/	/
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record			Casing & Tubing Record			
Run Number	Bit From	To	Size	Weight	From	To
			9 5/8"	36#	SURFACE	798'
			7"	26#	SURFACE	7740'
			4 1/2"	11.6#	7756'	16728'

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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

Cement Bond Log was the initial log ran on the well dated 10/14/2014
Cement top was estimated at 420'
Max temp on bottom was 207°F
WL Depth Per Company Request

Your crew today was J. Adams, J. Groves

Thank you for using Gyrodata Logging Services, Casper, WY

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CEMENT BOND PRESENTATION

MAIN LOG PASS / 0 PSI
5"=100'

Database File	2014_extraction_diamond_valley_east_3.db
Dataset Pathname	pass4
Presentation Format	cbl_drs
Dataset Creation	Tue Oct 14 02:25:46 2014
Charted by	Depth in Feet scaled 1:240

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CEMENT BOND PRESENTATION

MAIN LOG PASS / 0 PSI
5"=100'

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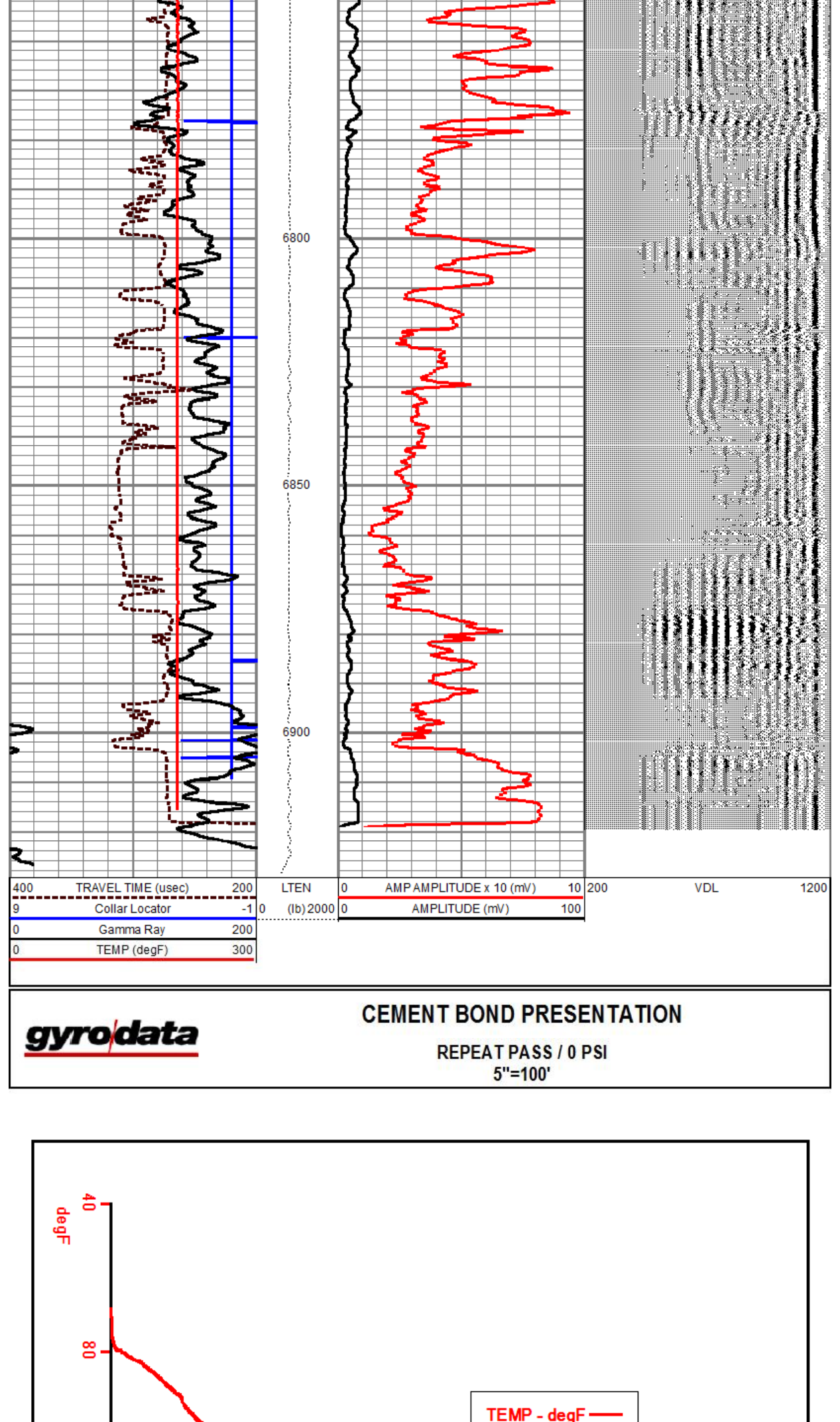
CEMENT BOND PRESENTATION

REPEAT PASS / 0 PSI
5"=100'

Database File	2014_extraction_diamond_valley_east_3.db
Dataset Pathname	pass2
Presentation Format	cbl_drs
Dataset Creation	Tue Oct 14 02:13:36 2014
Charted by	Depth in Feet scaled 1:240



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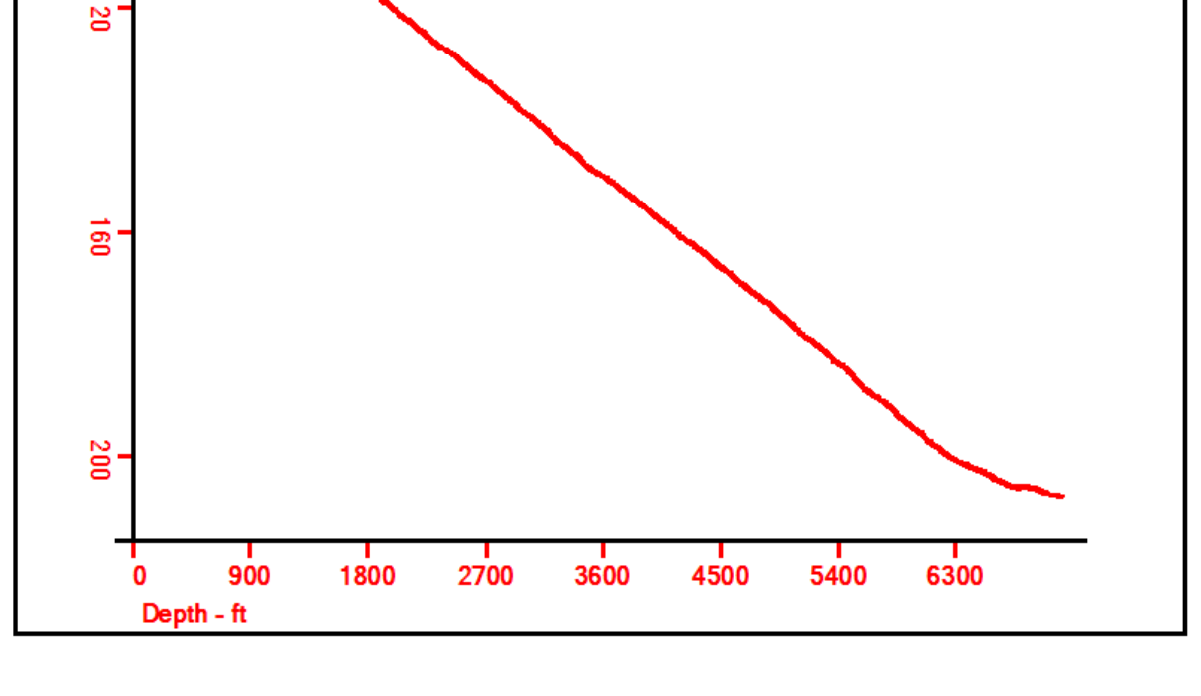
CEMENT BOND PRESENTATION

REPEAT PASS / 0 PSI
5"=100'



Log Variables

Database C:\ProgramData\Warrior\Data\2014_extraction_diamond_valley_east_3.db
Dataset field/well/run1/pass4

Top - Bottom

BHTEMP_Src	PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF	CASEOD in	PERFS	TDEPTH ft
1	0	26	62	1	0.8	0	7	0	0

BOTTEMP degF	BOREID in
100	7.875

Calibration Report

Database File	2014_extraction_diamond_valley_east_3.db
Dataset Pathname	pass4
Dataset Creation	Tue Oct 14 02:25:46 2014

Gamma Ray Calibration Report

Serial Number:	234GR4-IPCD9-01	
Tool Model:	GR-Tek-Co	
Performed:	Thu Mar 13 23:43:39 2014	
Calibrator Value:	120.0	
Background Reading:	104.4	cps
Calibrator Reading:	258.9	cps
Sensitivity:	0.8769	/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	234RIBT-1PP02-02	
Tool Model:	275 H/T RIB with I/E Temp	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1436.467	ft

Master Calibration, performed Sat Oct 11 20:41:14 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.564	1.000	62.165	108.446	1.000
CAL	0.000	0.485				
5'	0.000	0.928	1.000	62.165	65.885	1.000
SUM						
S1	0.000	0.548	0.000	100.000	182.369	0.000
S2	0.000	0.585	0.000	100.000	170.973	0.000
S3	0.000	0.507	0.000	100.000	197.241	0.000
S4	0.000	0.395	0.000	100.000	253.379	0.000
S5	0.000	0.322	0.000	100.000	310.974	0.000
S6	0.000	0.308	0.000	100.000	324.783	0.000
S7	0.000	0.351	0.000	100.000	284.860	0.000
S8	0.000	0.435	0.000	100.000	230.022	0.000

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.485	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

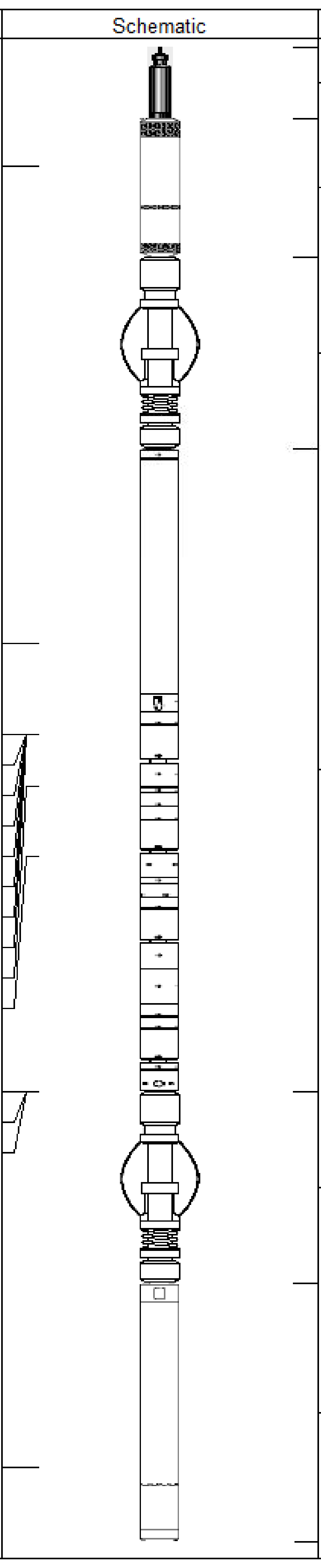
Temperature Calibration Report

Serial Number:	234RIBT-1PP02-02	
Tool Model:	275 H/T RIB with I/E Temp	
Performed:	Wed Sep 04 00:06:58 2013	

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

Gain:	0.33
Offset:	0.00
Delta Spacing	1

Schematic



Sensor	Offset (ft)
CCL	19.56
TEMP	12.77
WVFS8	11.48
WVFS7	11.48
WVFS6	11.48
WVFS5	11.48
WVFS4	11.48
WVFS3	11.48
WVFS2	11.48
WVFS1	11.48
WVF3FT	10.73
WVF5FT	9.73
WVFSYNC	6.40
WVFTEMP	6.40
WVFCAL	6.40
GR	1.04

Description	Length (ft)	O.D. (in)	Weight (lb)
TitanConeType2 Cable Head 1 7/16 Cone Type II	1.03	1.44	3.60
CCL-275tekco (234CCL-1PSN7-002) 2 3/4" 450 Deg. "F" TekCo CCL Earth Mag	1.96	2.75	20.00
2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
275 H/T RIB with I/E Temp (234RIBT-1PP02-02 Tekco 2.75" 450 Deg. F RIB with I/E Temp	9.13	2.75	102.00
2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
GR-GR-Tek-Co (234GR4-IPCD9-01) Tekco 2 3/4" 400 Deg. F Logging Gamma Ray	3.67	2.75	40.00

Dataset:	2014_extraction_diamond_valley_east_3.db: field/well/run1/pass4
Total length:	21.25 ft
Total weight:	215.60 lb
O.D.:	2.75 in

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Company	**EXTRACTION OIL & GAS**
Well	**DIAMOND VALLEY EAST #3**
Field	**WATTENBERG**
County	**WELD**
State	**CO**
Country	**USA**