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CEMENT BOND LOG

Company EXTRACTION OIL & GAS
Well HINER 36C-24W
Field WATTENBERG
County WELD State CO

Company **EXTRACTION OIL & GAS**
Well **HINER 36C-24W**
Field **WATTENBERG**
County **WELD** State **CO**

API No.: 05-123-37044 Serv #: 1265
Location: LAT 40.49640
LONG -104.71860

Other Services
TEMPERATURE
CCL

Sec: 36 Twp: 6N Rge: 66W

Permanent Datum	GROUND LEVEL	Elevation	4661'
Log Measured From	KB , 17' Ft. above perm. datum		
Drilling Measured From	KB	Elevation	K.B. 4678' D.F. 4677' G.L. 4667'
Date @ Time Logged	8-29-2014	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.4#
Depth - Driller	11687'	Fluid Level	34'
Depth - Logger	7348'	Cement Top Est. Logged	860'
Bottom - Logged Interval	7336'	Equipment / Location	GD-14 / CASPER WY
Top - Log Interval	SURFACE	Recorded by	M.FENN
Max. Recorded Temp.	230° F	Witnessed by	B. Patch

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	1220'
				5.5"	20#	SURFACE	11687'

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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 8/9/2014
Cement top was estimated at 860'
Max temp on bottom was 230°F

Your crew today was J.Adams, C. Byers , and B.Gurnsey.

Thank you for using Gyrodata Logging Services, Casper, WY

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Cement Bond Log Presentation

Main Log Section/ 0psi
5"=100'

Database File	2014_extraction_hiner_36c_24w.db
Dataset Pathname	pass2.1
Presentation Format	cbl_drs
Dataset Creation	Fri Aug 29 13:56:00 2014
Charted by	Depth in Feet scaled 1:240

400 TRAVEL TIME (usec) 200
9 Collar Locator -1
0 Gamma Ray 200
0 TEMP (degF) 300
0 LTEN (lb) 2000
0 AMP AMPLITUDE x 10 (mV) 10
0 AMPLITUDE (mV) 100
200 VDL 1200

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Cement Bond Log Presentation

Main Log Section/ 0psi
5"=100'

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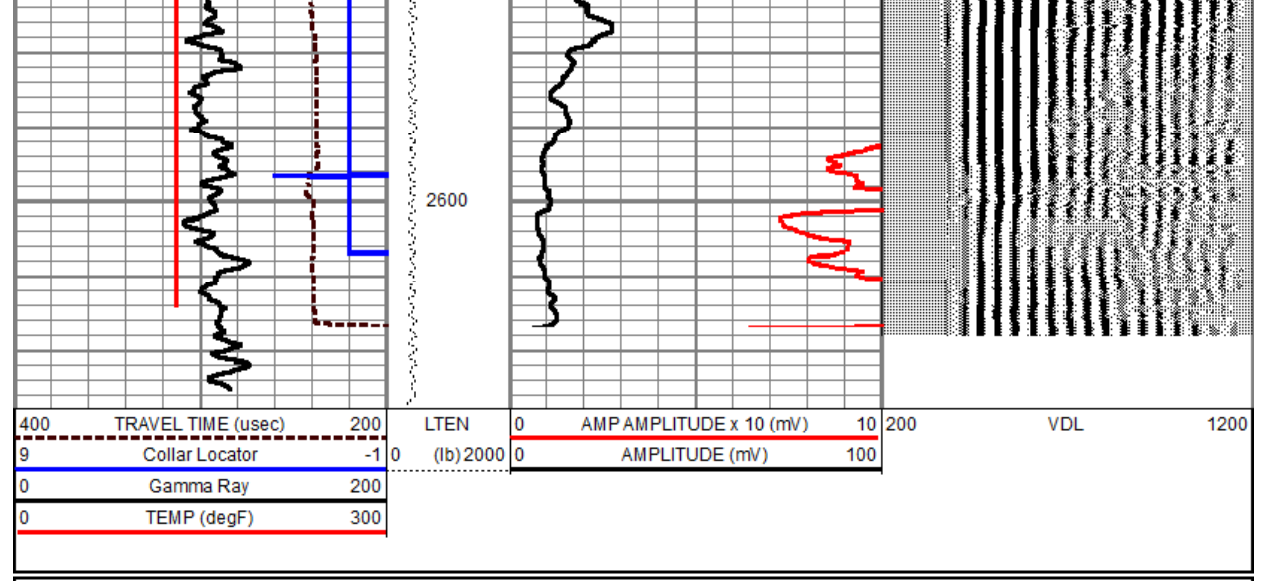
Cement Bond Log Presantation

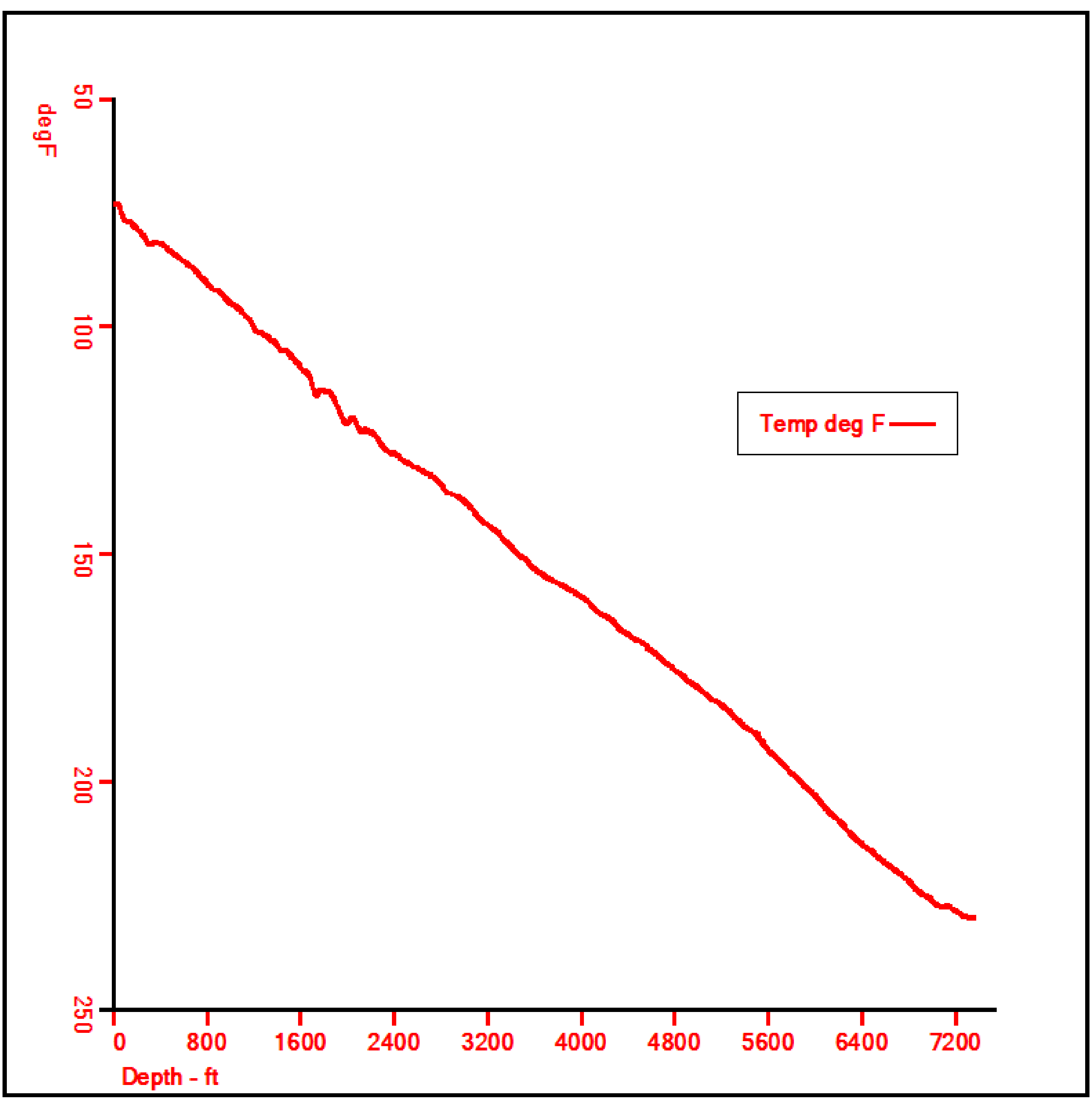
Repeat Log Section/ 0 psi
5"=100'

Database File	2014_extraction_hiner_36c_24w.db
Dataset Pathname	pass3
Presentation Format	cbl_drs
Dataset Creation	Fri Aug 29 13:48:44 2014
Charted by	Depth in Feet scaled 1:240



Cement Bond Log Presantation

Repet Log Section/ 0 psi
5"=100'



Log Variables

Database C:\ProgramData\Warrior\Data\2014_extraction_hiner_36c_24w.db
Dataset field/well/run1/pass2.1

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	20	0	1	0.8	0	5.5	0	0

BOTTEMP degF	BOREID in
100	7.875

Calibration Report

Database File	2014_extraction_hiner_36c_24w.db
Dataset Pathname	pass2.1
Dataset Creation	Fri Aug 29 13:56:00 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-ISF06-04	
Tool Model:	275 H/T RIB with I/E Temp	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	229.867	ft

Master Calibration, performed Fri Aug 29 13:55:19 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.061	0.830	1.000	71.921	79.621	5.821
CAL	0.000	0.461				
5'	-0.042	1.110	1.000	71.921	61.597	3.560
SUM						
S1	-0.007	0.826	0.000	100.000	120.026	0.856
S2	-0.007	0.784	0.000	100.000	126.324	0.902
S3	-0.006	0.878	0.000	100.000	113.123	0.664
S4	-0.007	1.049	0.000	100.000	94.687	0.635
S5	-0.006	1.034	0.000	100.000	96.168	0.581
S6	-0.005	0.929	0.000	100.000	107.067	0.517
S7	-0.005	0.810	0.000	100.000	122.722	0.584
S8	-0.005	0.838	0.000	100.000	118.602	0.623

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	0.461	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

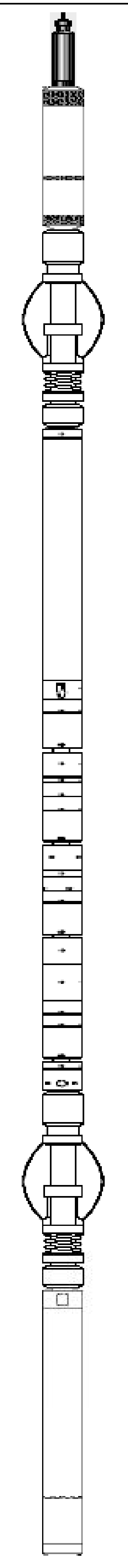
Temperature Calibration Report

Serial Number:	234RIBT-ISF06-04	
Tool Model:	275 H/T RIB with I/E Temp	
Performed:	Thu Aug 28 17:56:06 2014	

	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			

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
WVF5FT	9.73
WVFSYNC	6.40
WVFTEMP	6.40
WVFCAL	6.40
GR	1.04

Schematic



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-ISF06-04) 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_hiner_36c_24w.db: field/well/run1/pass2.1
Total length:	21.25 ft
Total weight:	215.60 lb
O.D.:	2.75 in

Company	**EXTRACTION OIL & GAS**
Well	**HINER 36C-24W**
Field	**WATTENBERG**
County	**WELD**
State	**CO**
Country	**USA**