Cutters Wireline Service, Inc. A Cased Hole Wireline Company

Radial Cement Bond Gamma Ray / CCL

Company	Whiting Oil & Gas Corp
Well	Horsetail 07E-1803
Field	Wildcat
County	Weld
State	Colorado
Country	USA

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Location: API # : 05123416440000
SHL 2457' FNL 830' FWL NW/NW
SEC 7 TWP 10N RGE 57W

Other Services

Permanent Datum GL Elevation 4926'
Log Measured From KB @ 21' above GL
Drilling Measured From KB

Elevation
K.B. 4947'
D.F. 4947'
G.L. 4926'

Date	11-Mar-2016
Run Number	One
Depth Driller	13917'
Depth Logger	5876'
Bottom Logged Interval	5876'
Top Log Interval	Surface
Open Hole Size	
Type Fluid	Water
Density / Viscosity	~8.4#
Max. Recorded Temp.	Not Recorded
Estimated Cement Top	Surface
Time Well Ready	7:00
Time Logger on Bottom	8:00
Equipment Number	W-060
Location	Windsor, CO
Recorded By	Ron Wells
Witnessed By	Jeff

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36#	Surface	2023'
Prot. String				
Production String	5.5"	20#	Surface	TD
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

This log to be used for primary depth contol

Short Joint:
5096-5101'

Calibration Report

Database File: horsetail 07e-1803.db
Dataset Pathname: pass8
Dataset Creation: Fri Mar 11 08:04:31 2016 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	060109	
Tool Model:	Probe	
Performed:	Mon Jan 26 09:19:58 2009	
Calibrator Value:	185.2	GAPI
Background Reading:	4.8	cps
Calibrator Reading:	200.0	cps
Sensitivity:	0.9487	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	060113_45	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	602.792	ft

Master Calibration, performed Thu Mar 10 09:31:04 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.451	0.000	71.921	159.364	0.000
CAL	0.000	0.559				
5'	0.000	0.422	0.000	71.921	170.322	0.000
SUM						
S1	0.000	0.467	0.000	100.000	213.907	0.000
S2	0.000	0.461	0.000	100.000	217.145	0.000
S3	0.000	0.452	0.000	100.000	221.065	0.000
S4	0.000	0.440	0.000	100.000	227.114	0.000
S5	0.000	0.417	0.000	100.000	239.876	0.000
S6	0.000	0.398	0.000	100.000	251.435	0.000
S7	0.000	0.402	0.000	100.000	248.529	0.000
S8	0.000	0.425	0.000	100.000	235.139	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	0.559	1.000	0.000

Air Zero Calibration, performed Sat Mar 05 23:34:17 2016:

	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

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Main Pass

Logged with 1500 psi Surface Pressure

Database File: horsetail 07e-1803.db
Dataset Pathname: pass8
Presentation Format: rbl55
Dataset Creation: Fri Mar 11 08:04:31 2016 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

343 TT (usec) 243
0 GR (GAPI) 150
LTEN (lb)
CCL 500
0 Amplitude (mV) 100
Amplified Amplitude
0 (mV) 10
-5 AMPS2 150
-5 AMPS3 150
-5 AMPS4 150
-5 AMPS5 150
-5 AMPS6 150
-5 AMPS7 150
-5 AMPS8 150
-5 AMPS1 150
200 VDL 1200
Cement Map
1 80

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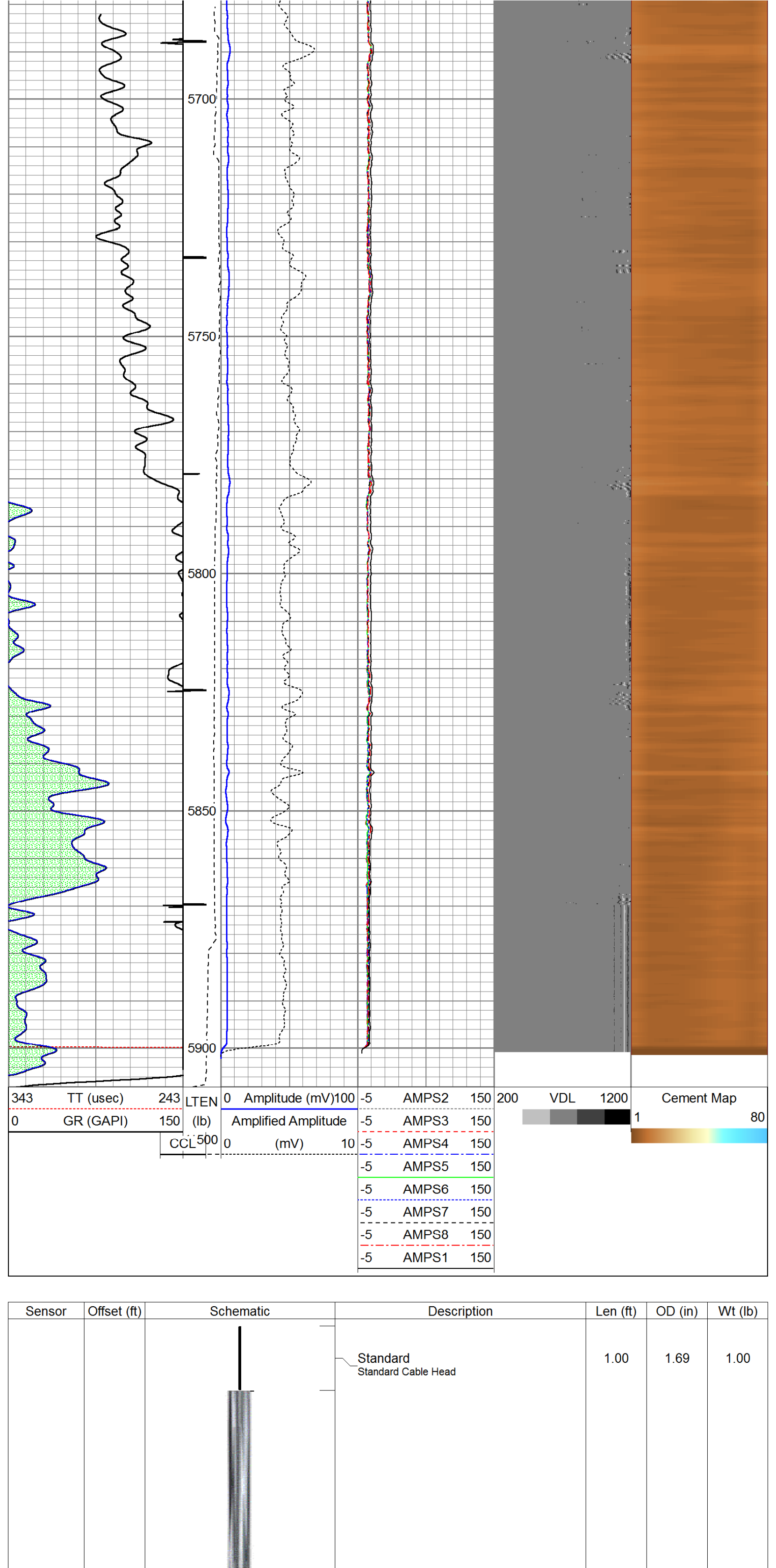
Repeat Section

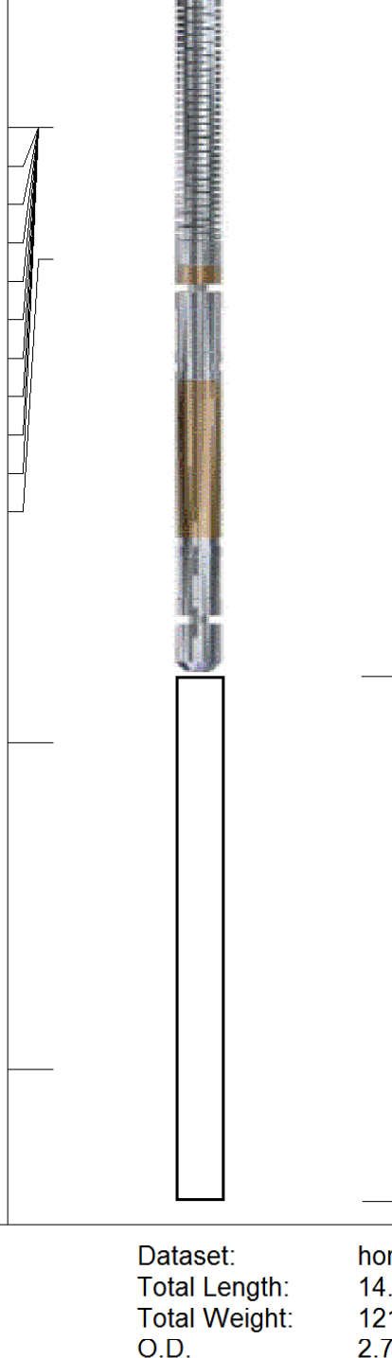
Logged with 0 psi Surface Pressure

Database File: horsetail 07e-1803.db
Dataset Pathname: pass4
Presentation Format: rbl55
Dataset Creation: Fri Mar 11 07:47:02 2016 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

343 TT (usec) 243
0 GR (GAPI) 150
LTEN (lb)
CCL 500
0 Amplitude (mV) 100
Amplified Amplitude
0 (mV) 10
-5 AMPS2 150
-5 AMPS3 150
-5 AMPS4 150
-5 AMPS5 150
-5 AMPS6 150
-5 AMPS7 150
-5 AMPS8 150
-5 AMPS1 150
200 VDL 1200
Cement Map
1 80



343 TT (usec) 243
0 GR (GAPI) 150
LTEN (lb)
CCL 500
0 Amplitude (mV) 100
Amplified Amplitude
0 (mV) 10
-5 AMPS2 150
-5 AMPS3 150
-5 AMPS4 150
-5 AMPS5 150
-5 AMPS6 150
-5 AMPS7 150
-5 AMPS8 150
-5 AMPS1 150
200 VDL 1200
Cement Map
1 80

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Standard Standard Cable Head	1.00	1.69	1.00
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	8.19 8.19 8.19 8.19 8.19 8.19 8.19 8.19 8.19 8.19 7.19		RBT-Probe (060113_45) Probe 2.75" Radii Bond Tool	9.39	2.75	90.00
CCL GR	3.50 1.00		GR-Probe (060109) Probe 2.75" 4 Channel Pulse	4.00	2.75	30.00

Dataset: horsetail 07e-1803.db: field/well/run1/pass8
Total Length: 14.39 ft
Total Weight: 121.00 lb
O.D. 2.75 in