RADIAL SECTOR BOND LOG WITH GAMMA RAY

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Pioneer Energy Services

Company KERR-MCGEE OIL & GAS ONSHORE
Well GEE 15N-25HZ
Field WATTENBERG
County WELD
State CO

Company	KERR-MCGEE OIL & GAS ONSHORE
Well	GEE 15N-25HZ
Field	WATTENBERG
County	WELD
State	CO

Location: API # : 05123391740000
SHL: 800' FNL & 1540' FEL NWNE
LAT: 40.128524
LONG: -104.835439
SEC 24 TWP 2N RGE 67W

Other Services
JBGR
CALIPER

Permanent Datum	GL	Elevation 4859	Elevation
Log Measured From	KB		K.B. 4875
Drilling Measured From	KB...16' ABOVE GL		D.F. 4875
			G.L. 4859

Date of Service	MARCH 17, 2015
Run Number	1
Depth Driller or PBTD	16654
Depth Logger	7287
Bottom Log Interval	7285
Top Log Interval	SURFACE
Open Hole Size	8+3/4"
Type Fluid	WATER
Fluid Level	SURFACE
Fluid Density	8.33 PPG
Max. Recorded Temperature	225 F
Max. Wellhead Pressure	2800 PSI
Wellhead Connection	7 1/16"10K FLANGE
Estimated Cement Top	316
Unit Number	P109
Wireline Size	1/4"
Location	FT. MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR MARIO TORREZ

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	36#	SURFACE	1049
Production Casing	7"	26#	SURFACE	7535
Liner Record	4+1/2"	11.6#	6606	16650

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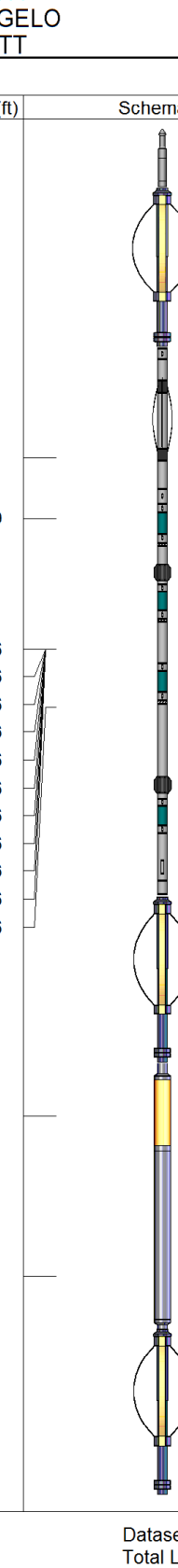
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
S.O. # 2-280141

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN	SECTOR CBL	141167
Operator: GENO	GR	110249
Operator: ANGELO		
Operator: MATT		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	10.00
		2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
IntTemp	17.71				
TEMP	16.69				
		RBT-RBT-C3 (141167_7in) Probe Radii Bond Tool with Digital Telemetry	9.40	2.75	90.00
WVF3FT	14.46				
WVFCAL	14.46				
WVFS1	14.46				
WVFS2	14.46				
WVFS3	14.46				
WVFS4	14.46				
WVFS5	14.46				
WVFS6	14.46				
WVFS7	14.46				
WVFS8	14.46				
WVF5FT	13.46				
		PTS275	2.83	2.75	
CCL	6.47				
		GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00
GR	3.73				
		PTS275	2.83	2.75	

Dataset: gee 15n-25hz_rbl.db: field/well/RBL/pass3
Total Length: 23.33 ft
Total Weight: 225.00 lb
O.D. 2.75 in

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MAIN LOG

LOGGED WITH 2800 PSI APPLIED AT WELLHEAD

Database File: gee 15n-25hz_rbl.db
Dataset Pathname: RBL/main
Presentation Format: scbl02
Dataset Creation: Tue Mar 17 16:52:13 2015
Charted by: Depth in Feet scaled 1:240

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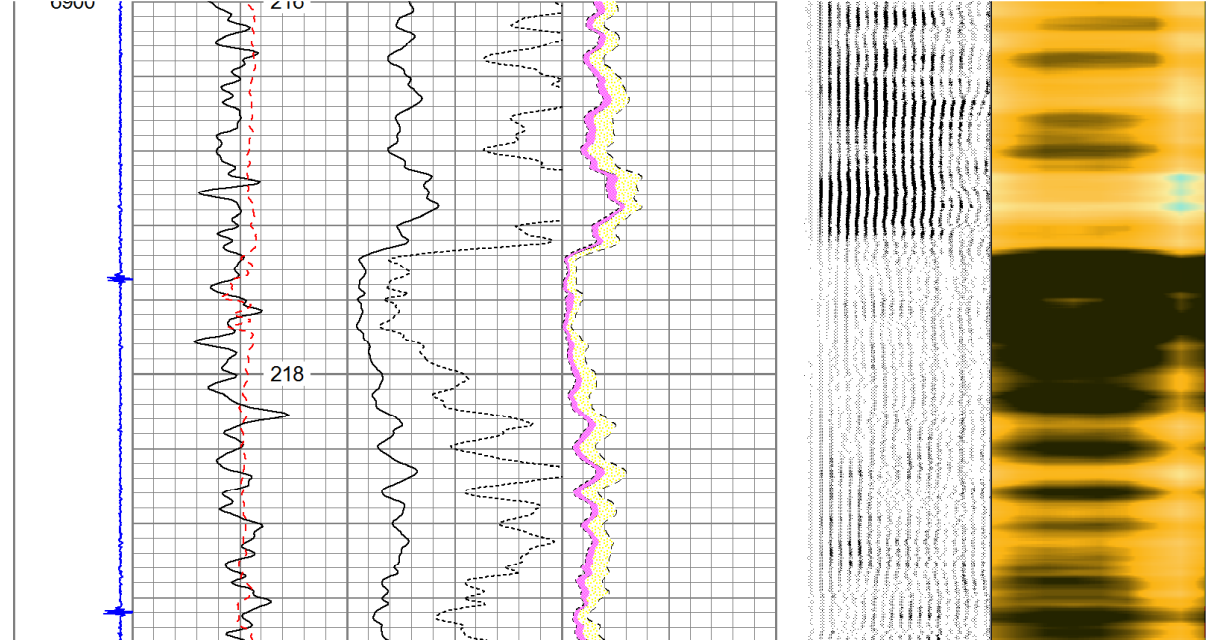
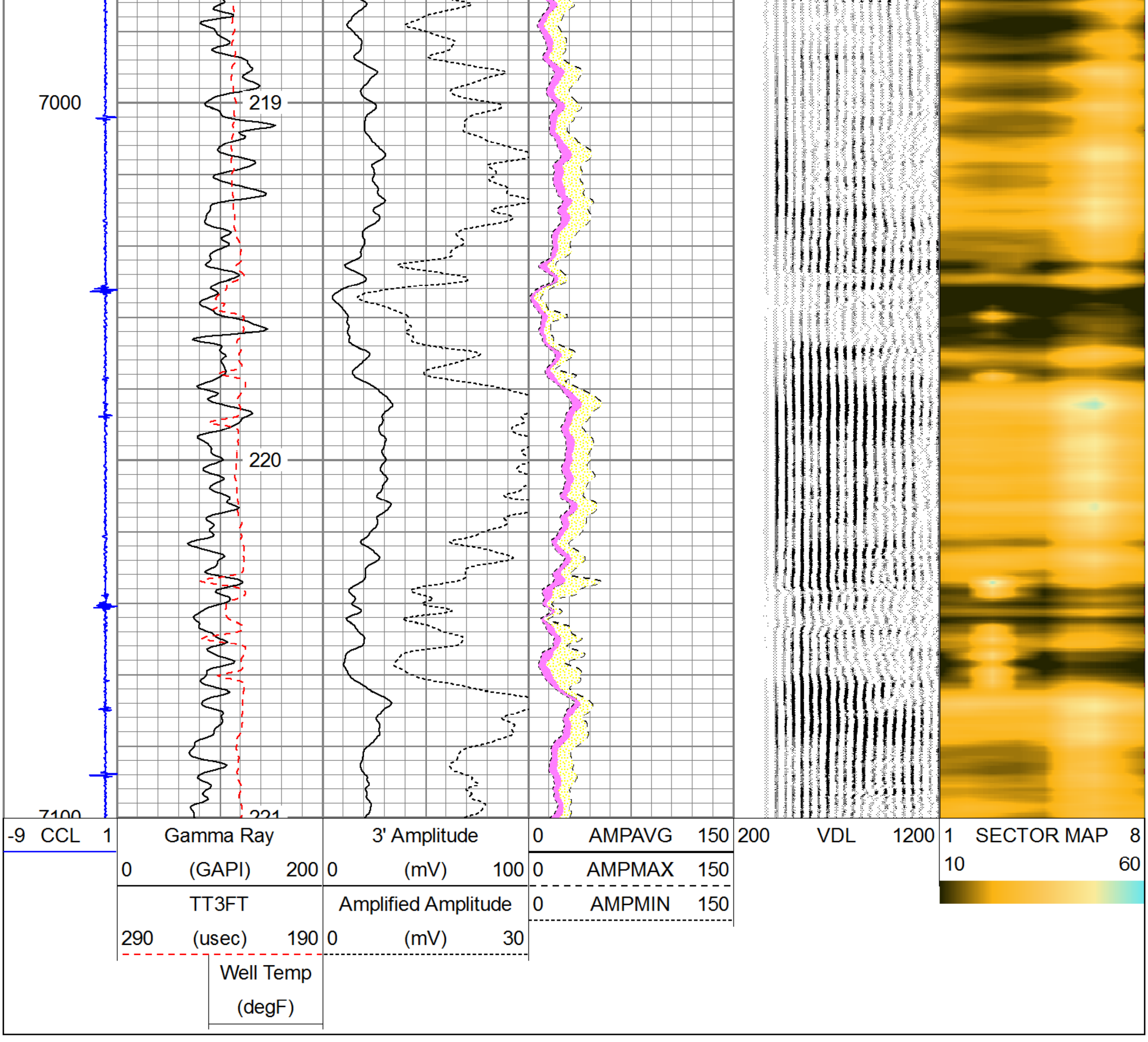
REPEAT SECTION

LOGGED WITH 0 PSI APPLIED AT WELLHEAD

Database File:	gee 15n-25hz_rbl.db
Dataset Pathname:	RBL/pass1
Presentation Format:	scbl02
Dataset Creation:	Tue Mar 17 16:53:16 2015
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File: gee 15n-25hz_rbl.db
Dataset Pathname: RBL/pass3
Dataset Creation: Tue Mar 17 16:52:39 2015

Gamma Ray Calibration Report

Serial Number: 110249
Tool Model: Probe
Performed: Tue Feb 03 05:05:05 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.9400 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 141167_7in
Tool Model: RBT-C3

Calibration Casing Diameter: 7.000 in
Calibration Depth: 0.000 ft

Master Calibration, performed Sat Feb 21 12:03:31 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.670	1.500	62.165	94.000	0.770
CAL	0.016	0.668				
5'	0.015	0.659	1.500	62.165	94.221	0.084
SUM						
S1	0.009	0.660	0.000	100.000	153.420	-1.324
S2	0.015	0.667	0.000	100.000	153.512	-2.369
S3	0.016	0.669	0.000	100.000	153.136	-2.383
S4	0.016	0.665	0.000	100.000	154.101	-2.447
S5	0.015	0.662	0.000	100.000	154.607	-2.357
S6	0.015	0.670	0.000	100.000	152.722	-2.332
S7	0.015	0.672	0.000	100.000	152.372	-2.344
S8	0.015	0.671	0.000	100.000	152.486	-2.338

Internal Reference Calibration, performed Sat Feb 21 09:32:09 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.016	0.668	0.016	0.668	1.000	-0.000

Air Zero Calibration, performed Sat Feb 21 09:44:51 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.018	0.000	-0.003
5'	0.021	0.000	-0.006
SUM			
S1	0.011	0.000	-0.003
S2	0.017	0.000	-0.001
S3	0.017	0.000	-0.001
S4	0.017	0.000	-0.001
S5	0.017	0.000	-0.001
S6	0.017	0.000	-0.002
S7	0.017	0.000	-0.002
S8	0.017	0.000	-0.002

Temperature Calibration Report

Serial Number: 141167_7in
Tool Model: RBT-C3
Performed: Thu Feb 19 09:06:23 2015

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

Gain: 0.86
Offset: -2.00
Delta Spacing 1

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Company	KERR-MCGEE OIL & GAS ONSHORE
Well	GEE 15N-25HZ
Field	WATTENBERG
County	WELD
State	CO
Country	USA