Company	KERR-MCGEE OIL & GAS ONSHORE
Well	SWEETGRASS 23-14
Field	WATTENBERG
County	WELD
State	CO

Pioneer Energy Services

RADIAL
SECTOR BOND LOG
WITH GAMMA RAY

Company	**KERR-MCGEE OIL & GAS ONSHORE**		
Well	**SWEETGRASS 23-14**		
Field	**WATTENBERG**		
County	**WELD**	State	**CO**

Location: API # : 05123328450000

2138' FSL & 750' FWL
NWSW
SEC 14 TWP 1N RGE 68W

Other Services
None

Permanent Datum	GL	Elevation	5104
Log Measured From	KB		
Drilling Measured From	KB...15' ABOVE GL		

Elevation
K.B. 5119
D.F. 5118
G.L. 5104

Date of Service	JANUARY 23, 2015		
Run Number	1		
Depth Driller or PBTD	8825		
Depth Logger	1700		
Bottom Log Interval	1699		
Top Log Interval	SURFACE		
Open Hole Size	7+7/8"		
Type Fluid	WATER		
Fluid Level	32		
Fluid Density	8.33 PPG		
Max. Recorded Temperature	87 F		
Max. Wellhead Pressure	0		
Wellhead Connection	PACKOFF		
Estimated Cement Top	823		
Unit Number	P75		
Wireline Size	9/32"		
Location	FT. MORGAN, CO		
Recorded By	SCHUMAN		
Witnessed By	MR NICK LANG		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8+5/8"	24#	SURFACE	1190
Production Casing	4+1/2"	11.6#	SURFACE	8802
Liner Record				

<<< Fold Here >>>

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. # 2-280117

THANK YOU FOR USING PIONEER ENERGY SERVICES

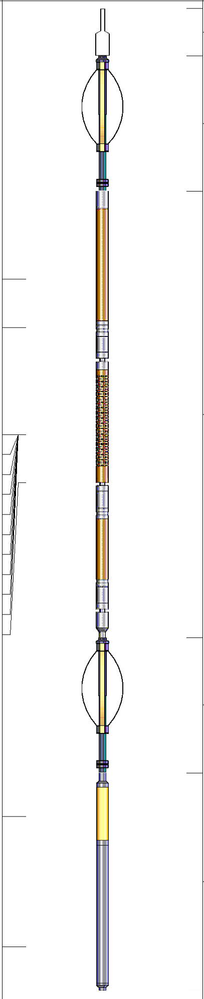
Your Pioneer ENERGY Services Crew

Engineer: SHAUN
Operator: GENO
Operator: ANGELO
Operator: MATT

Tool Data - Services	Serial Number
SECTOR CBL	130584
GR	080632

Sensor	Offset (ft)
IntTemp	14.88
TEMP	13.86
WVF3FT	11.63
WVFCAL	11.63
WVFS1	11.63
WVFS2	11.63
WVFS3	11.63
WVFS4	11.63
WVFS5	11.63
WVFS6	11.63
WVFS7	11.63
WVFS8	11.63
WVF5FT	10.63
CCL	3.63
GR	0.90

Schematic



Description	Len (ft)	OD (in)	Wt (lb)
STNDRD Standard Cable Head	1.00	1.69	10.00
PTS275	2.83	2.75	
RBT-RBT-C3 (130584_4in) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
PTS275	2.83	2.75	
GR_CCL-Probe (080632) Probe Gamma CCL	4.54	2.75	100.00

Dataset:	sweetgrass-usx uu 14-17 .db: field/well/run1/pass1
Total Length:	20.54 ft
Total Weight:	200.00 lb
O.D.	2.75 in

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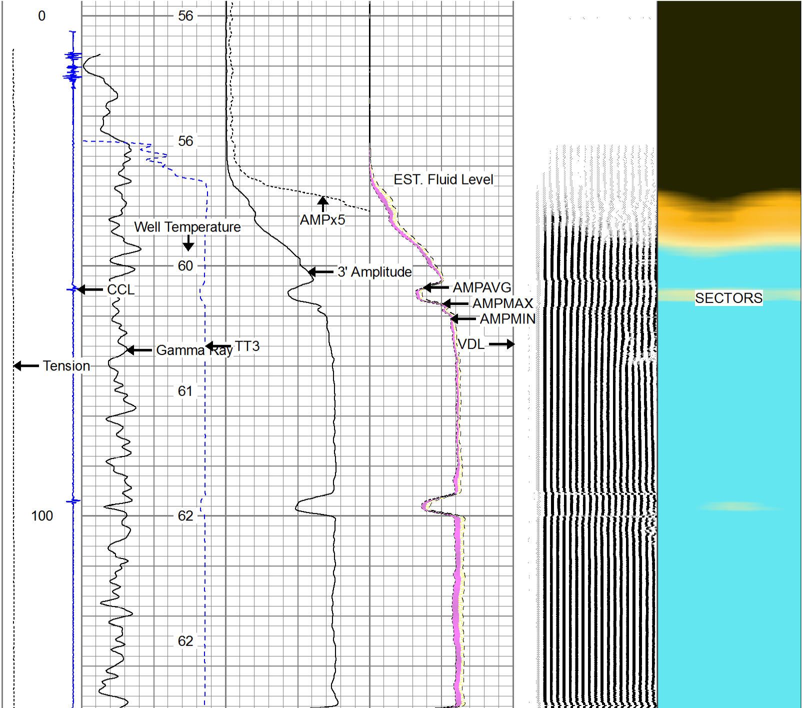
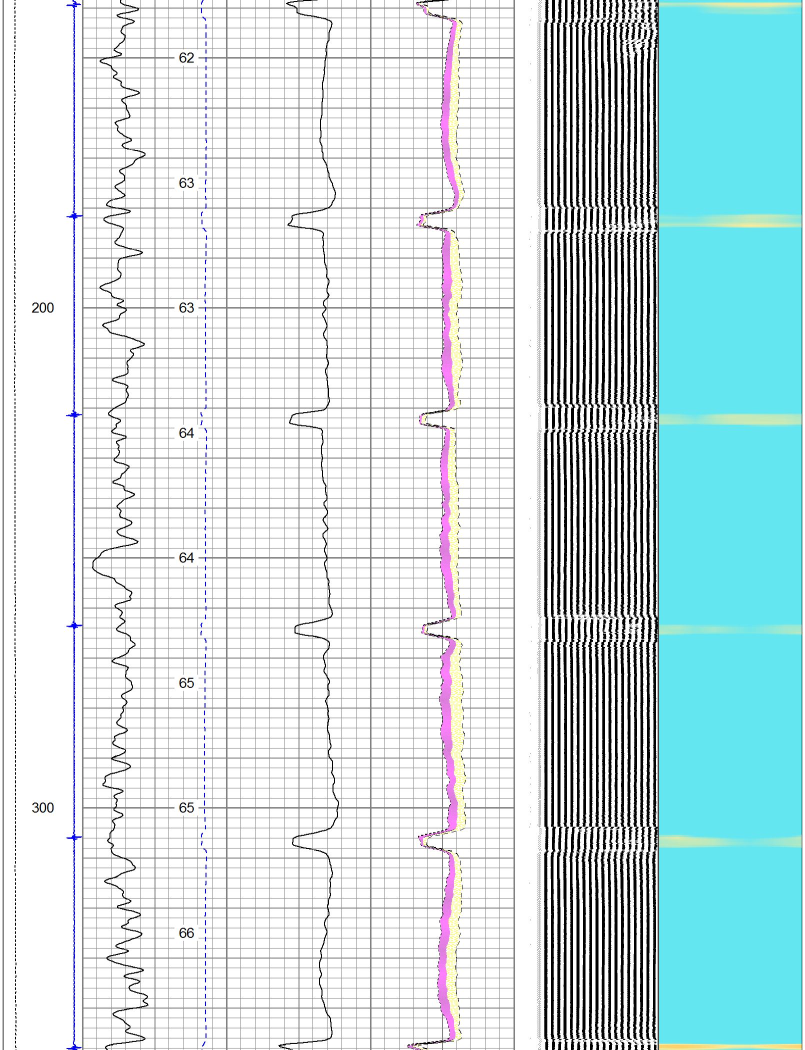
MAIN LOG

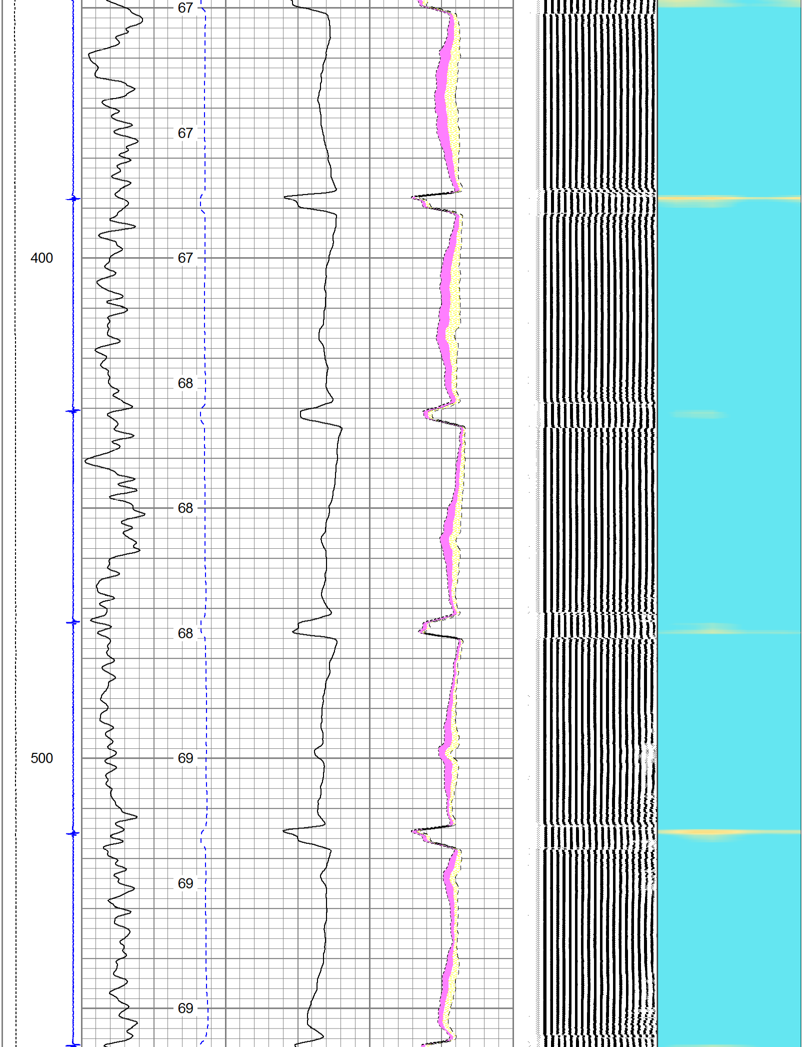
LOGGED WITH 0 PSI APPLIED AT SURFACE

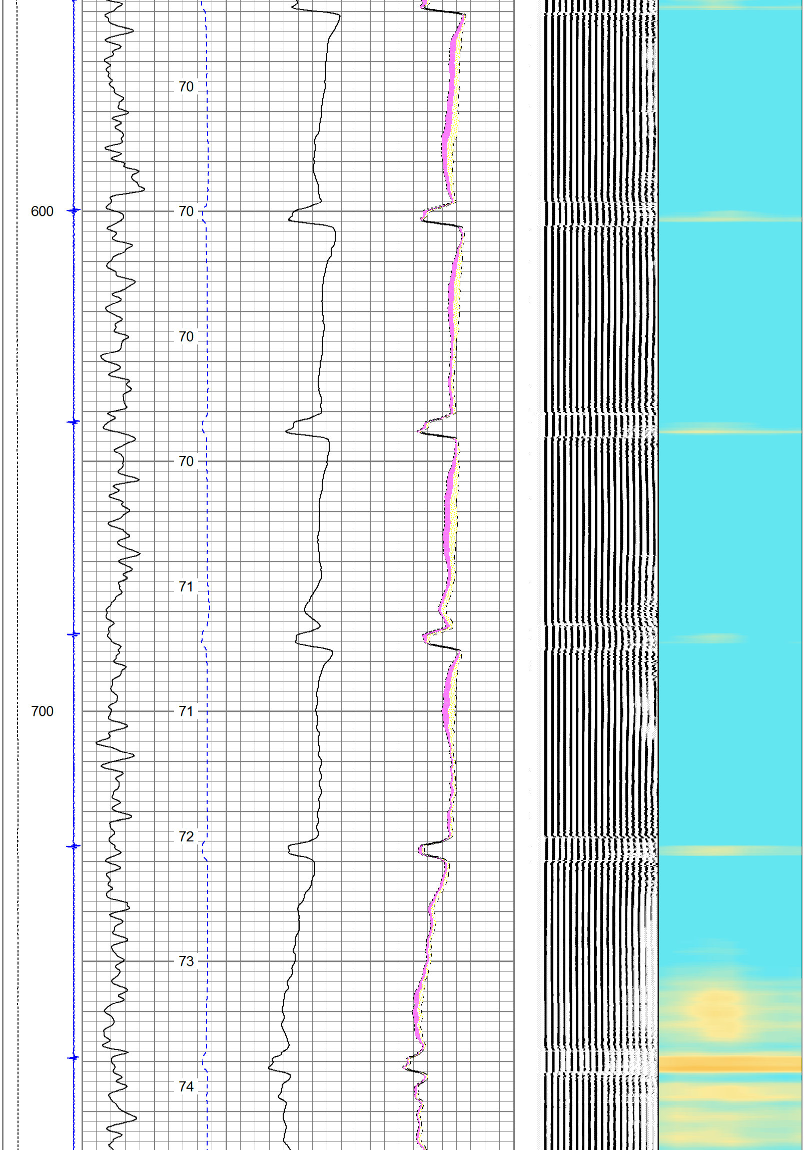
Database File: sweetgrass-usx uu 14-17 .db
Dataset Pathname: pass2.1
Presentation Format: scbl02
Dataset Creation: Fri Jan 23 08:35:59 2015 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

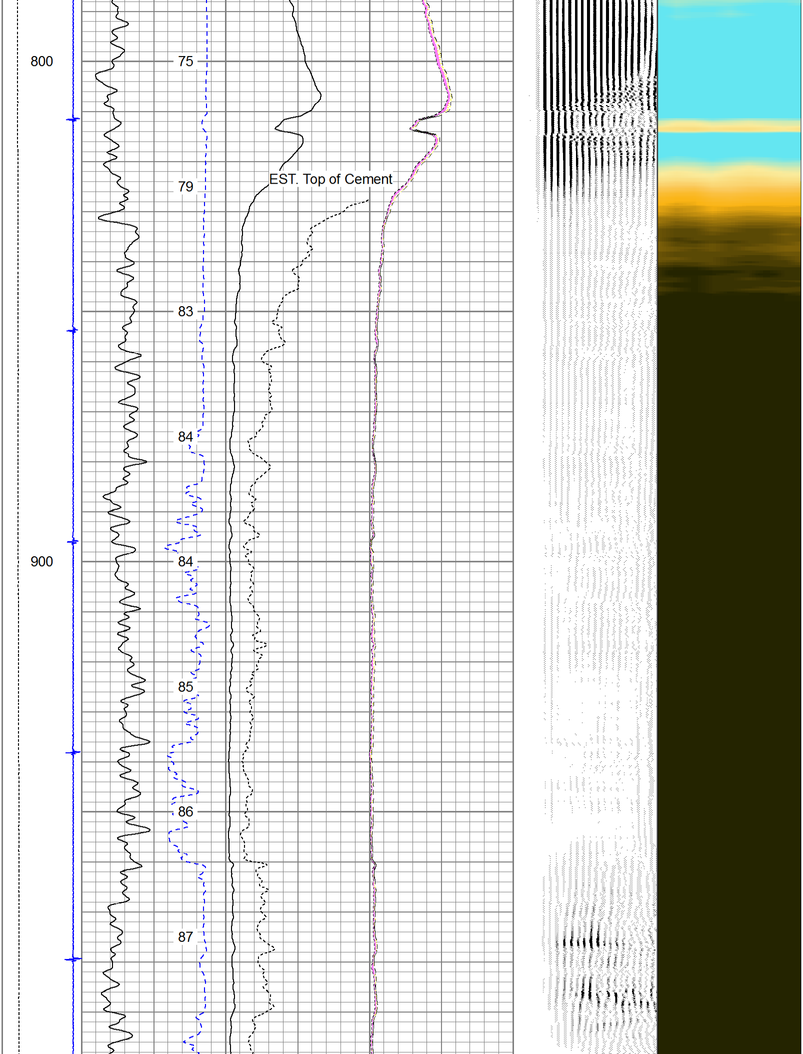
Track	Scale
CCL	-9 – 1
Tension (lb)	0 – 1500
Gamma Ray (GAPI)	0 – 200
TT3 (usec)	418 – 218
Well Temp (degF)	
3' Amplitude (mV)	0 – 100
AMPx5 (mV)	0 – 20
AMPAVG	0 – 150
AMPMAX	0 – 150
AMPMIN	0 – 150
VDL	200 – 1200
SECTOR MAP	1 – 8; 10 – 60

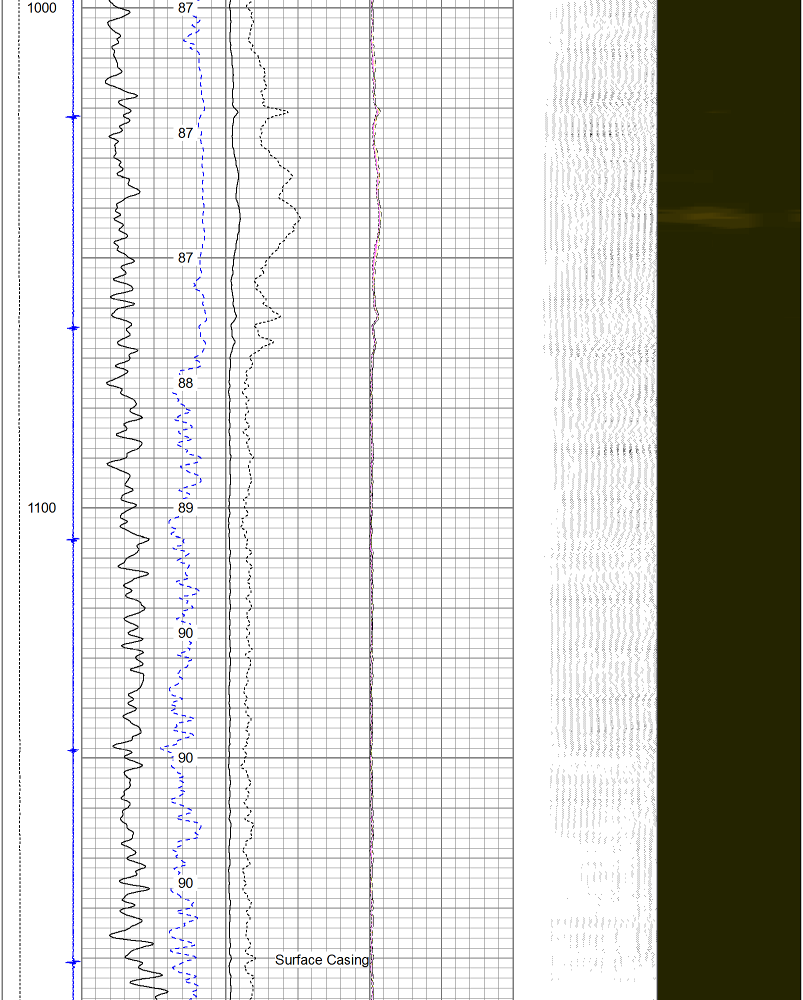


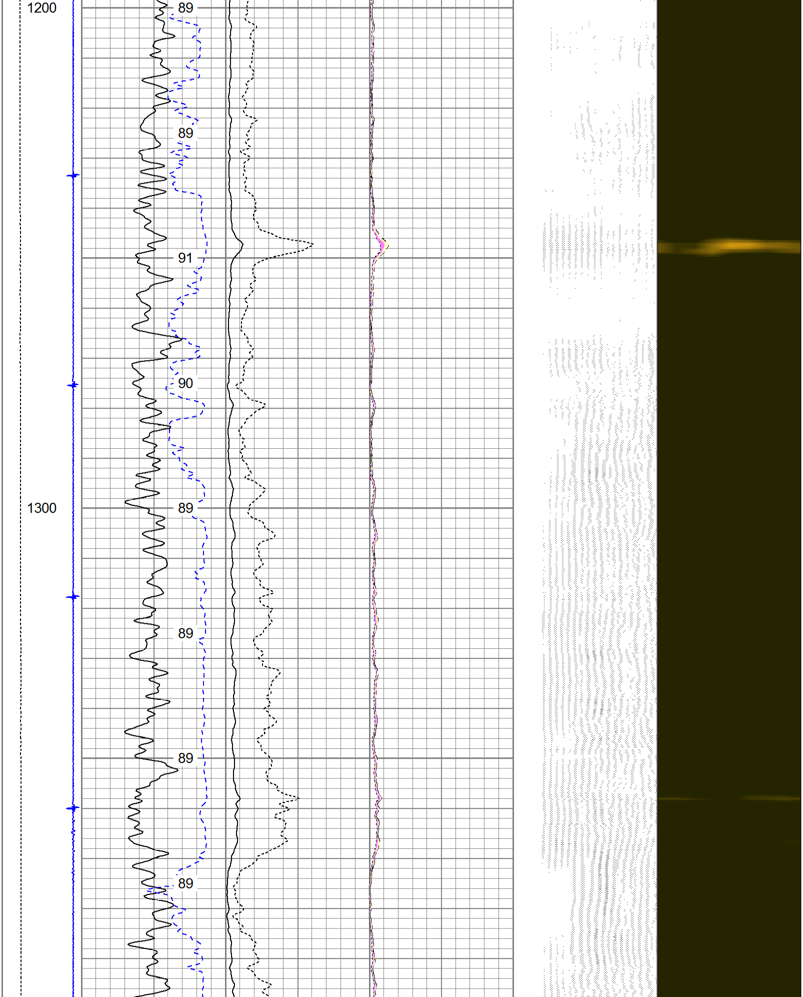


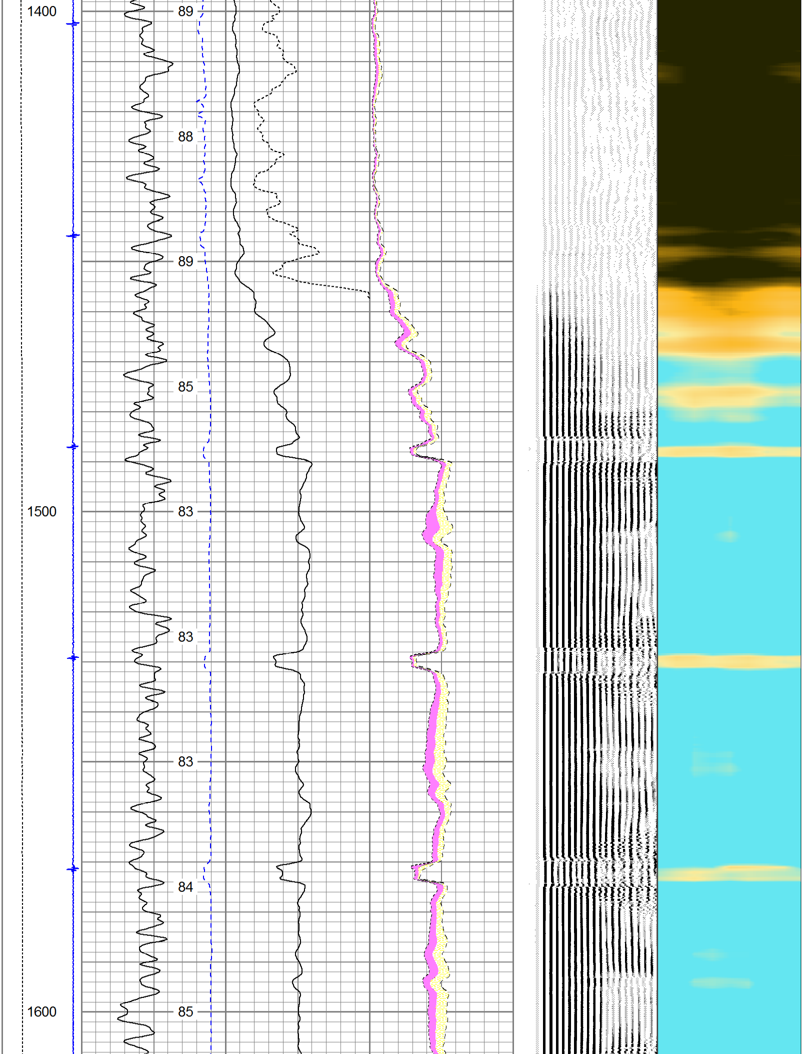


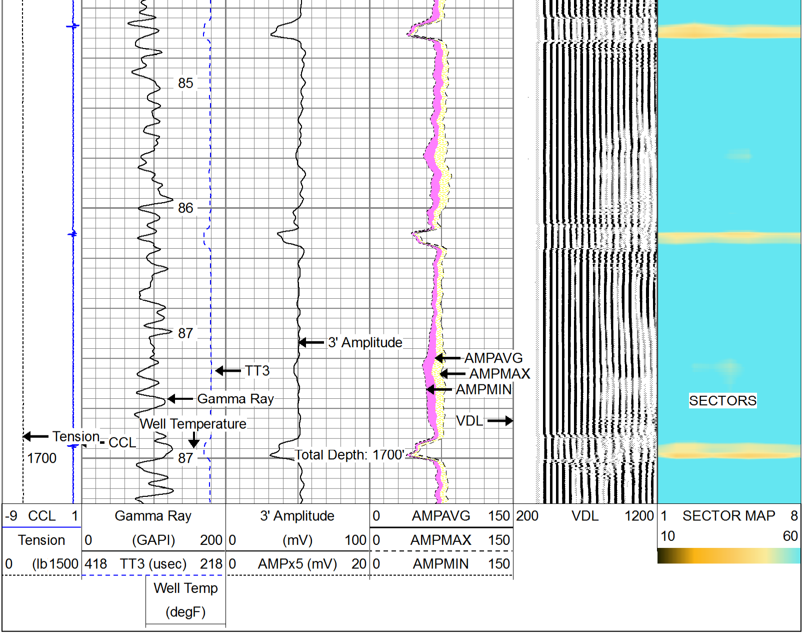












Calibration Report

Database File: sweetgrass-usx uu 14-17 .db
Dataset Pathname: pass1
Dataset Creation: Fri Jan 23 08:00:34 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	080632	
Tool Model:	Probe	
Performed:	Thu Jan 08 07:13:09 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	130584_4in	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	1209.683	ft

Master Calibration, performed Fri Dec 19 13:35:15 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	0.536	1.000	81.196	126.000	1.726
CAL	-0.004	0.748				
5'	-0.003	0.536	1.000	81.196	148.904	1.411
SUM						
S1	-0.009	0.502	0.000	100.000	195.705	1.665
S2	-0.004	0.554	0.000	100.000	179.166	0.667
S3	-0.005	0.639	0.000	100.000	155.419	0.719
S4	-0.006	0.668	0.000	100.000	148.462	0.817
S5	-0.006	0.616	0.000	100.000	160.741	0.942
S6	-0.007	0.546	0.000	100.000	180.855	1.179
S7	-0.007	0.514	0.000	100.000	191.877	1.302
S8	-0.005	0.502	0.000	100.000	197.383	0.925

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	-0.004	0.748	1.000	0.000

Air Zero Calibration, performed Wed Aug 13 15:26:48 2014:

	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:	130584_4in
Tool Model:	RBT-C3
Performed:	Wed Aug 13 16:18:33 2014

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

Gain:	0.77
Offset:	10.00
Delta Spacing	1

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Well	SWEETGRASS 23-14		
Field	WATTENBERG		
County	WELD		
State	CO	Country	USA