THE WIRELINE GROUP

RADIAL CEMENT BOND LOG GAMMA RAY/CCL

Company OCCIDENTAL PETROLEUM CORPORATION
Well SBJ 13-7HZ
Field WATTENBERG
County WELD
State CO
Country USA

Company	OCCIDENTAL PETROLEUM CORPORATION
Well	SBJ 13-7HZ
Field	WATTENBERG
County	WELD
State	CO
Country	USA

Location:
API #: 05123515990000
2232' FNL & 1082' FWL SWNW
Lat/Long: 40.314924 / -104.956842
SEC 13 TWP 4N RGE 68W

Other Services
GAUGE RING

Permanent Datum	GL	Elevation	4859'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4879'
D.F. N/A
G.L. 4859'

Date	2 FEBRUARY 2022
Run Number	ONE
Depth Driller	21290'
Depth Logger	7160'
Bottom Logged Interval	7158'
Top Log Interval	SURFACE
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	8.3#
Max. Recorded Temp.	212° F
Estimated Cement Top	SEE LOG
Time Well Ready	ROA
Time Logger on Bottom	8:45
Equipment Number	8048
Location	WINDSOR, CO
Recorded By	SCHUMAN
Witnessed By	MR RYAN S.

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	40 PPF	SURFACE	1902'
Prot. String				
Production String	5.5"	17 PPF	SURFACE	21281'
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

CORRELATED TO CASING TALLY MARKER JOINT AT 6306'
MAIN PASS RAN WITH 2800 PSI @ SURFACE
THANK YOU FOR USING THE WIRELINE GROUP!

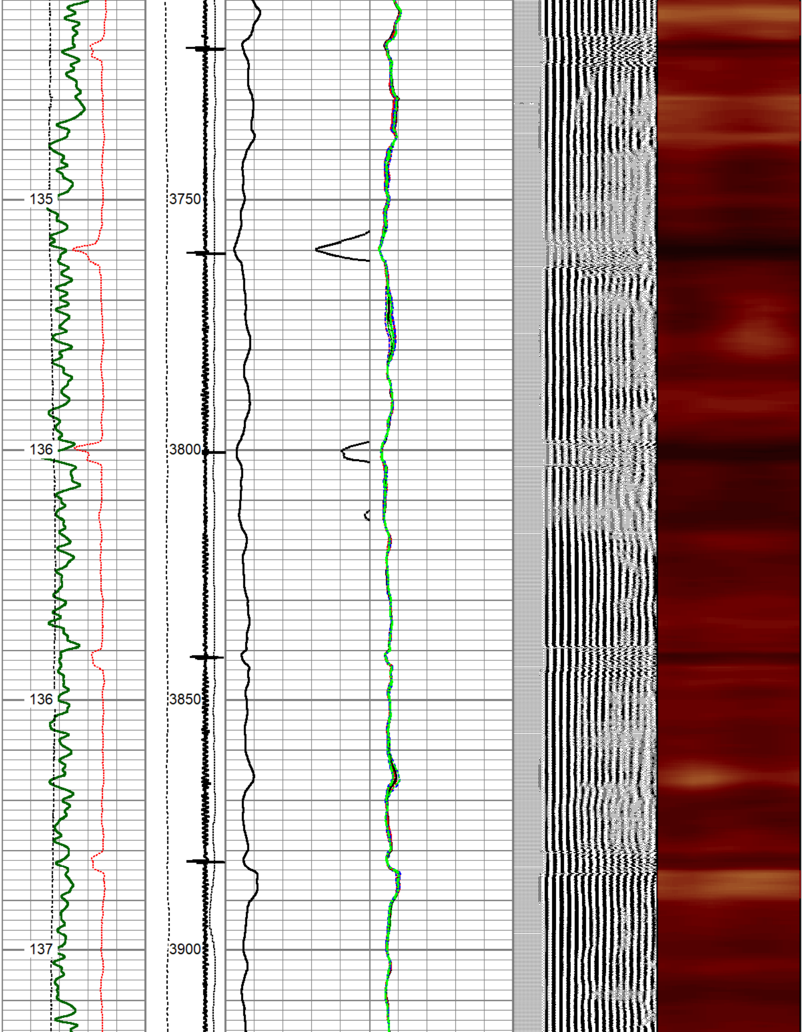
THE WIRELINE GROUP

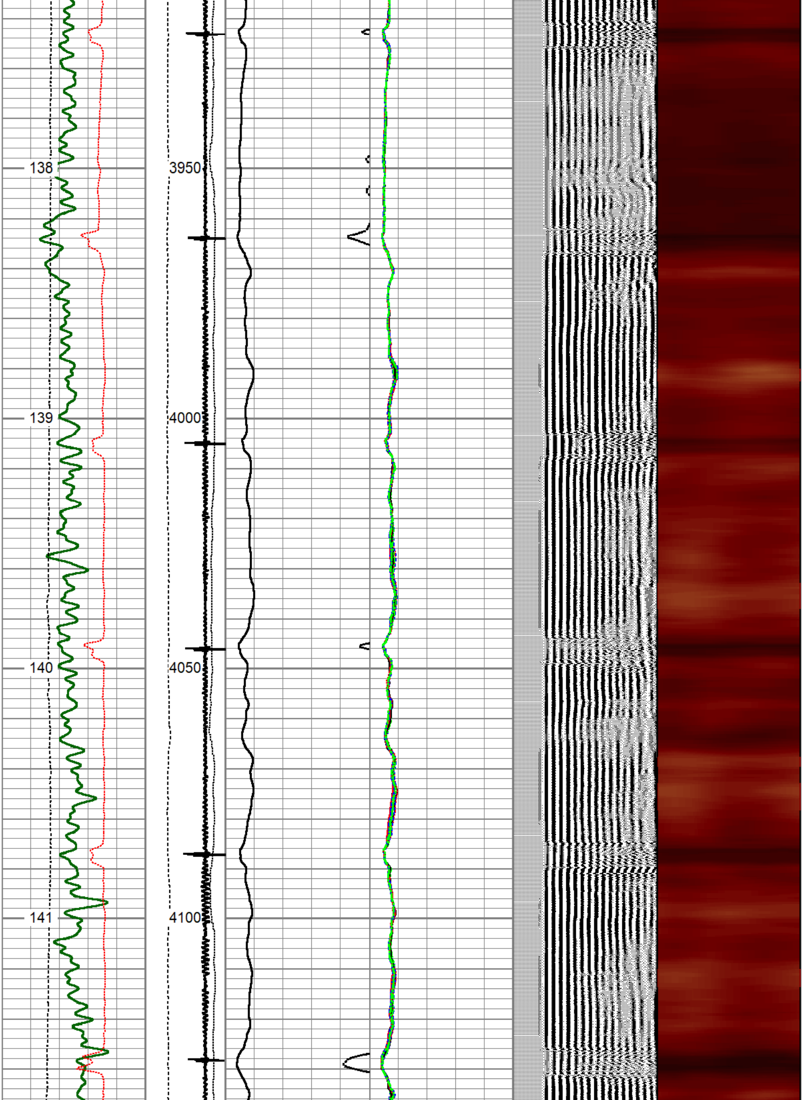
MAIN PASS

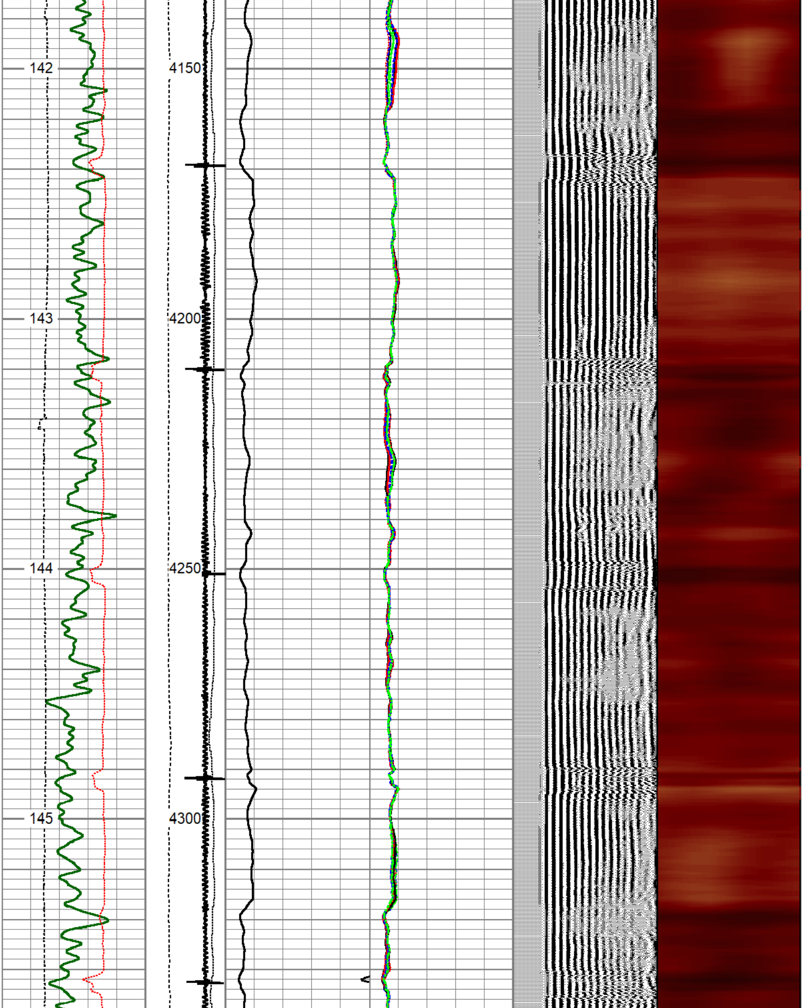
LOGGED WITH 2800 PSI AT SURFACE
5"=100'

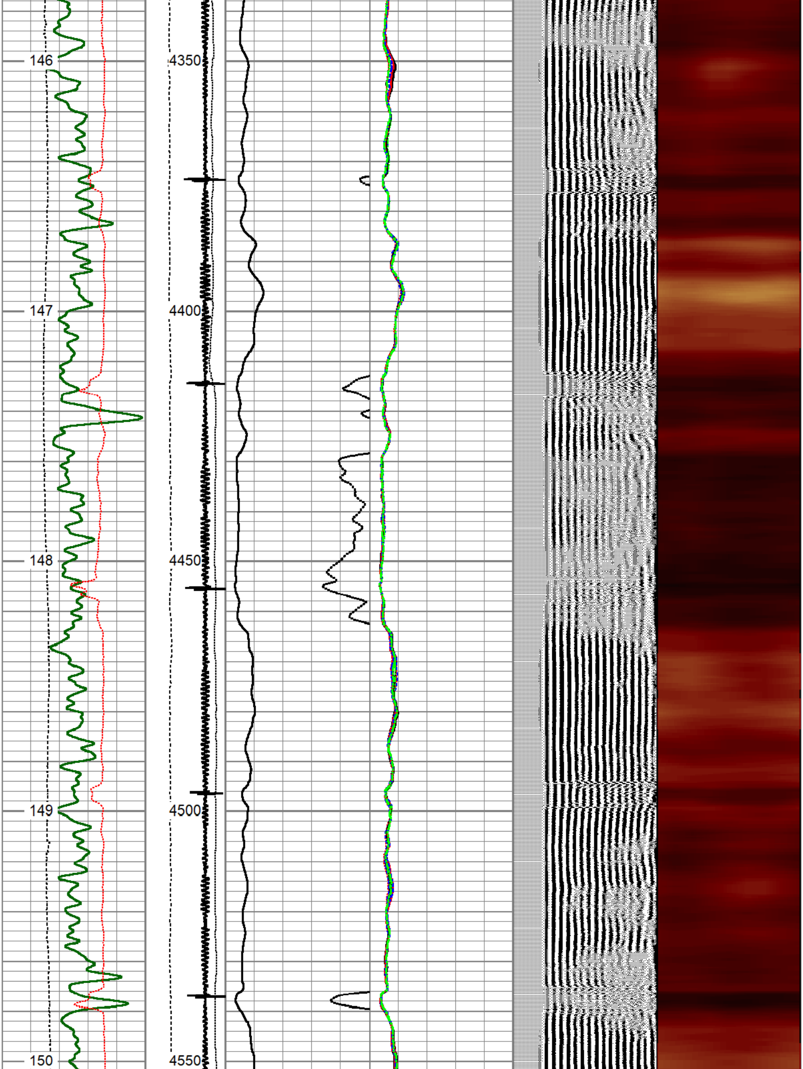
Database File	0512351599_sbj 13-7hz_oxy.db
Dataset Pathname	cbl/pass4
Presentation Format	rbt-gct8acc
Dataset Creation	Wed Feb 02 08:54:29 2022
Charted by	Depth in Feet scaled 1:240

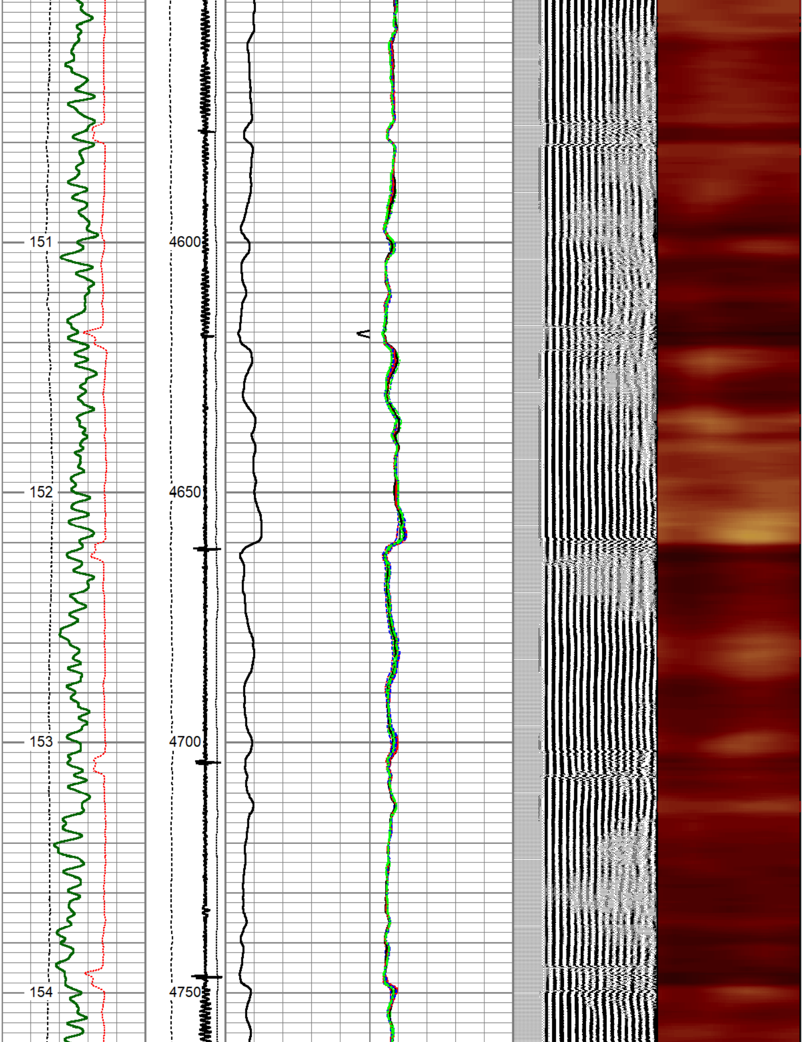
Gamma Ray 0 (GAPI) 200	LTEN (lb) 0 3000	0 AMP (mV) 100	-5 AMPS1 150	VDL 200 (usec) 1200
TT3FT 335 (usec) 235	-3 CCL 1	0 AMPx10 (mV) 10	-5 AMPS2 150	1 Cement Map 8
0 Inclination (deg) 90	LSPD (ft/min) 0 -100		-5 AMPS3 150	
TEMP (degF)			-5 AMPS4 150	
			-5 AMPS5 150	
			-5 AMPS6 150	
			-5 AMPS7 150	
			-5 AMPS8 150	

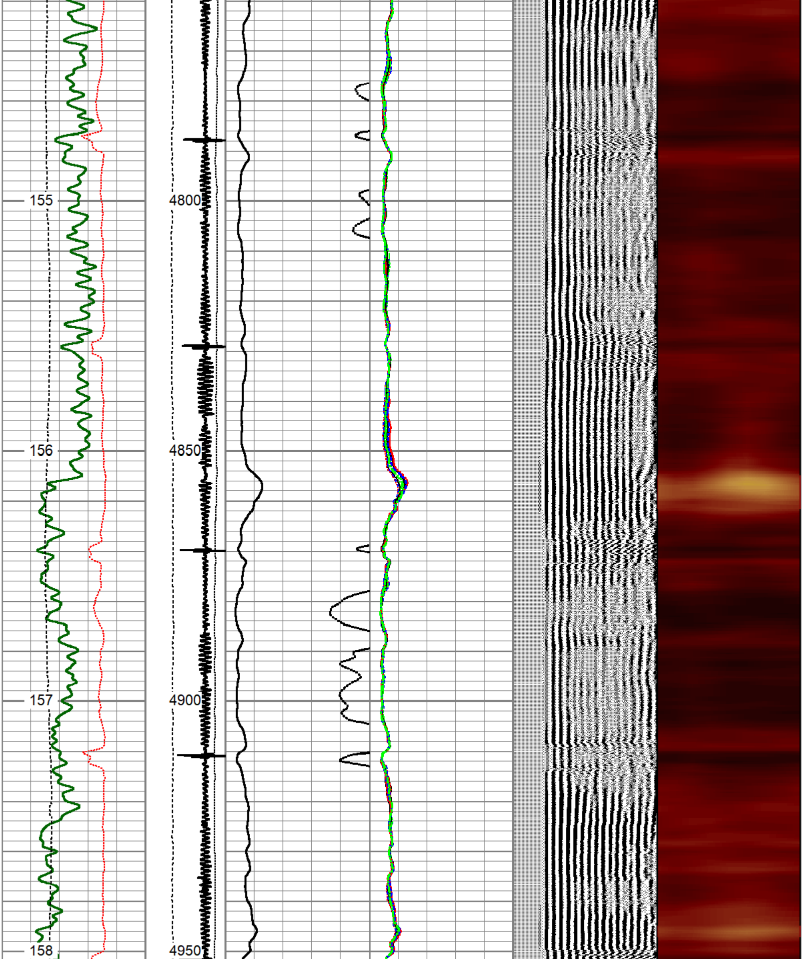


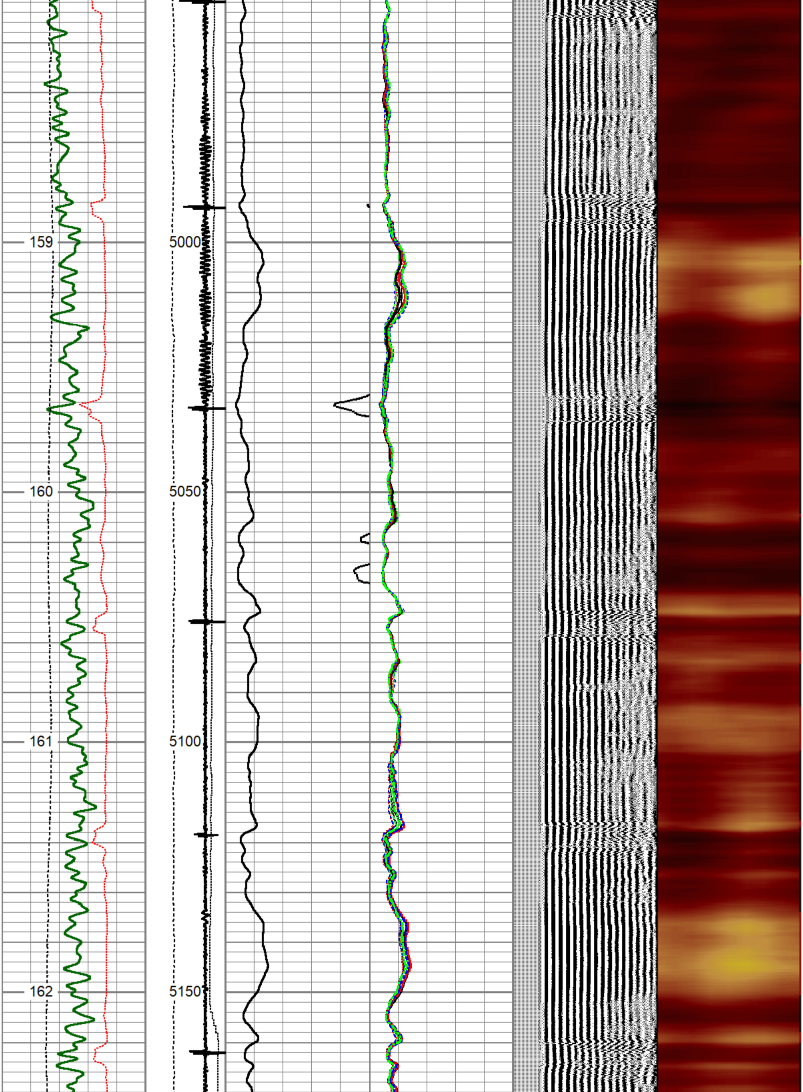


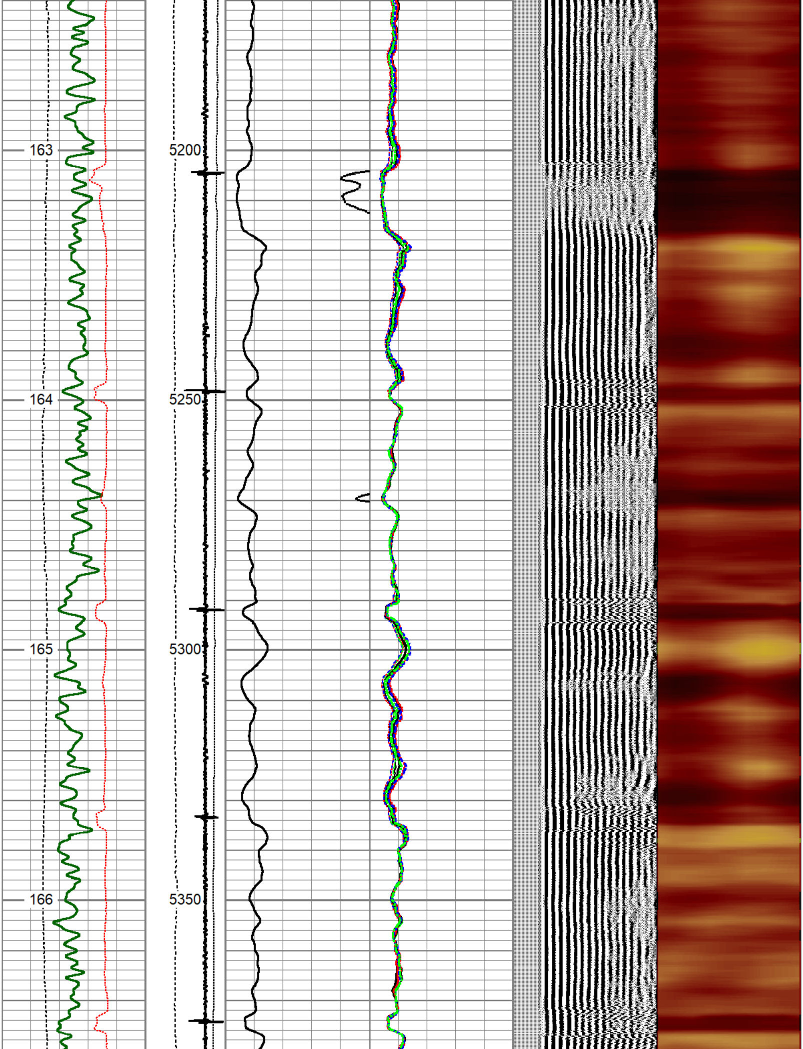


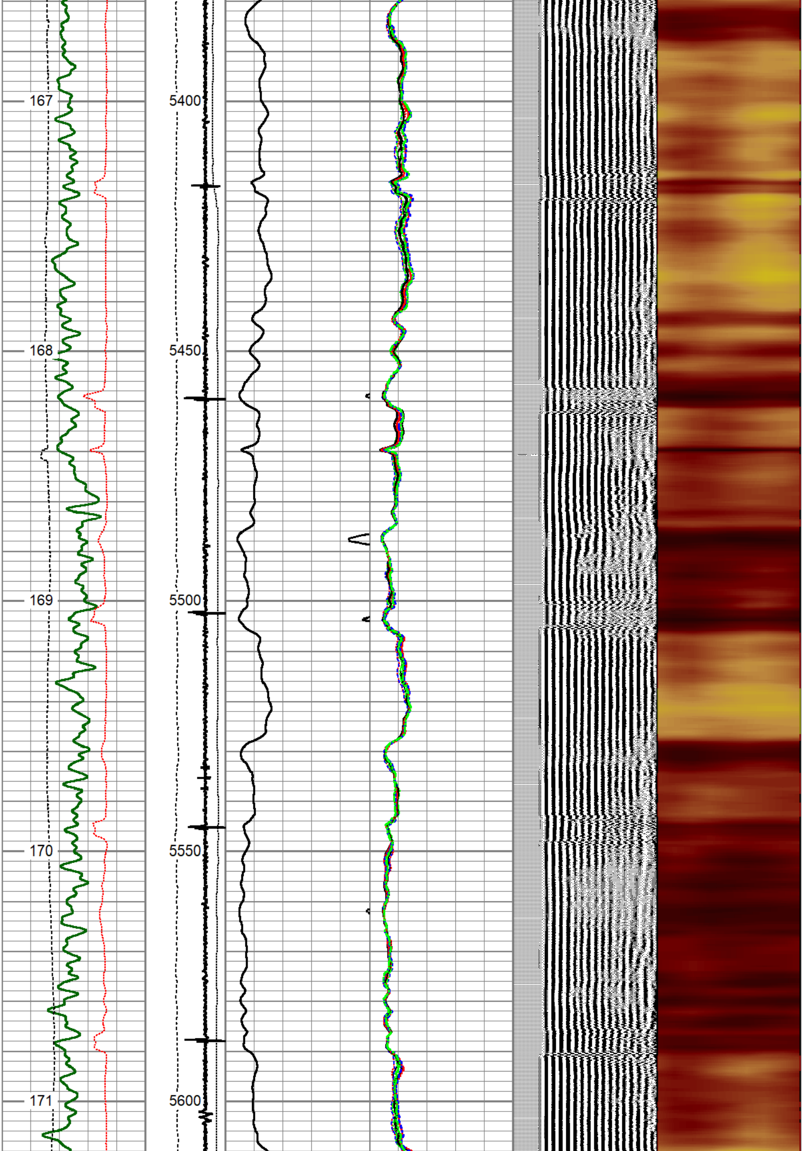


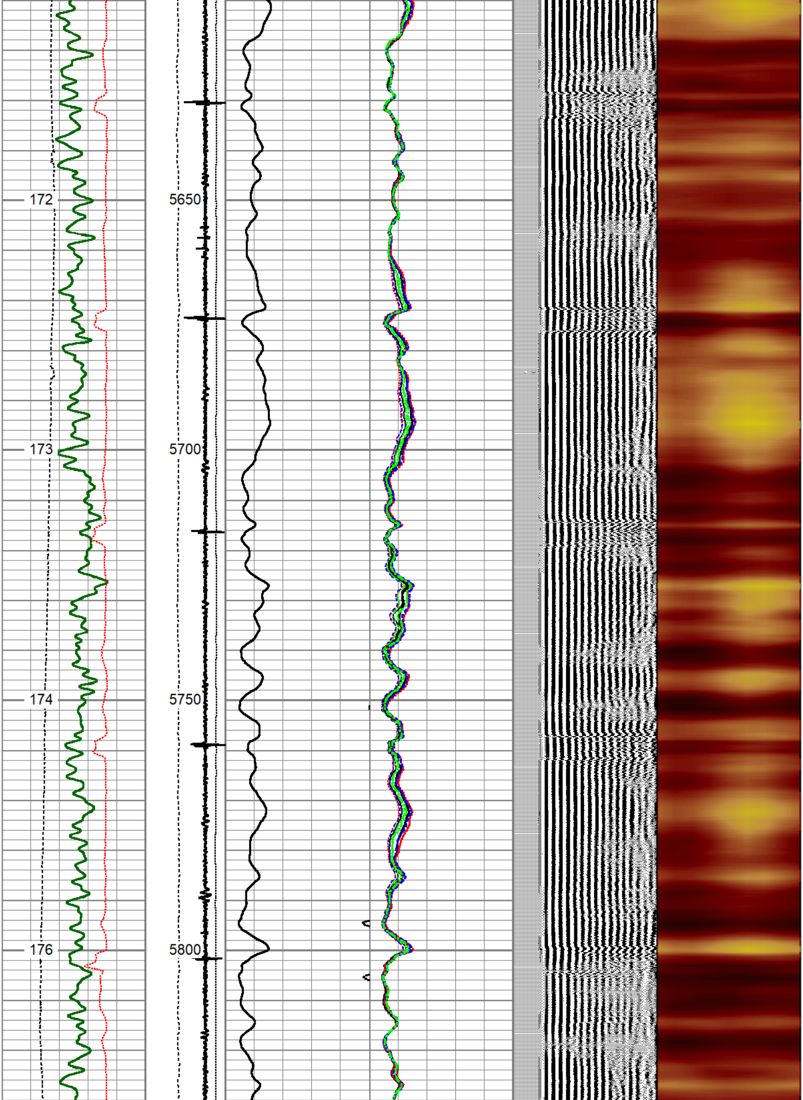


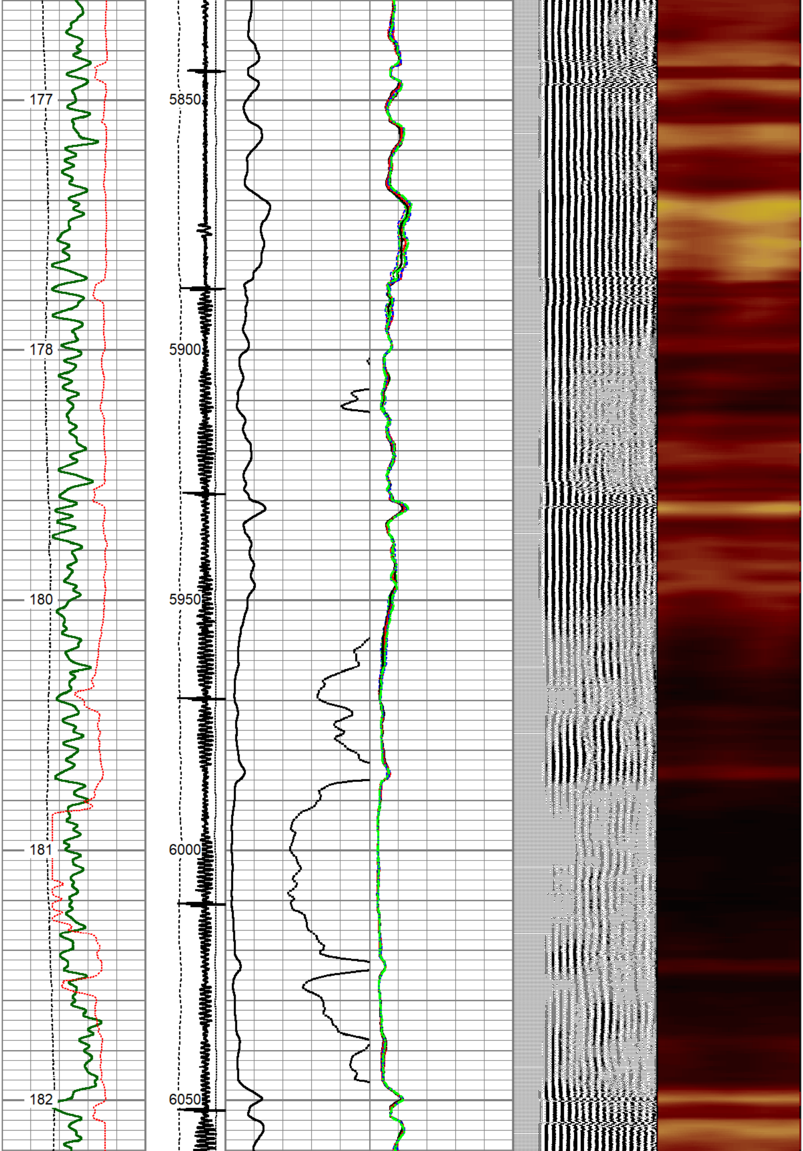


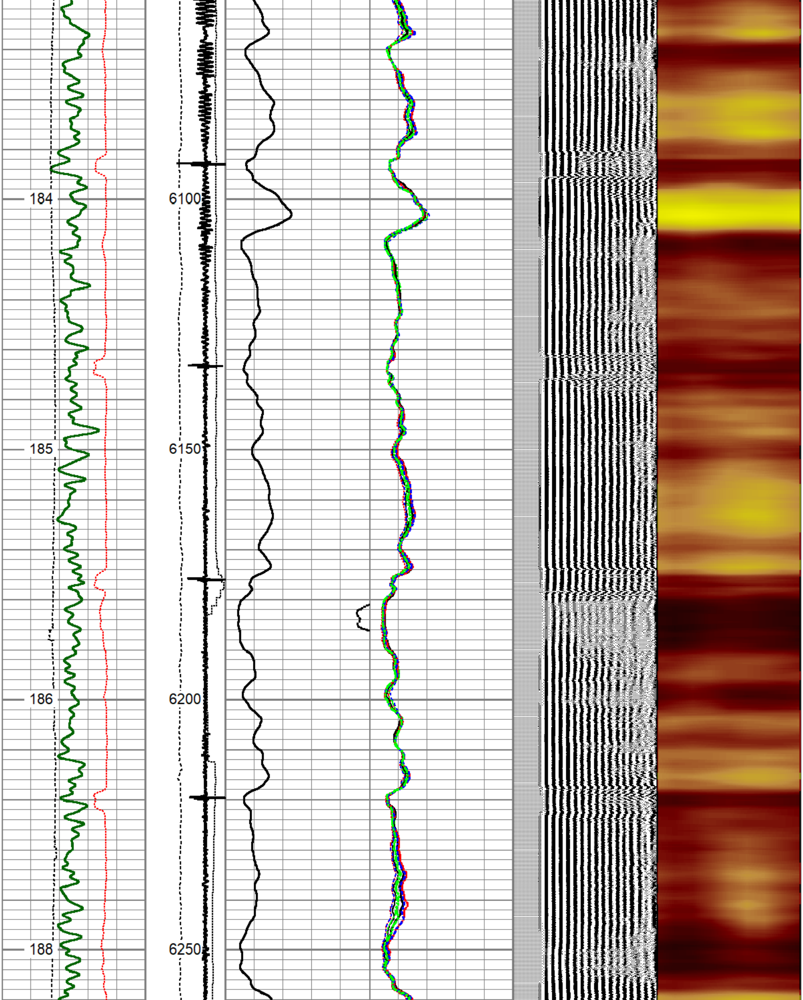


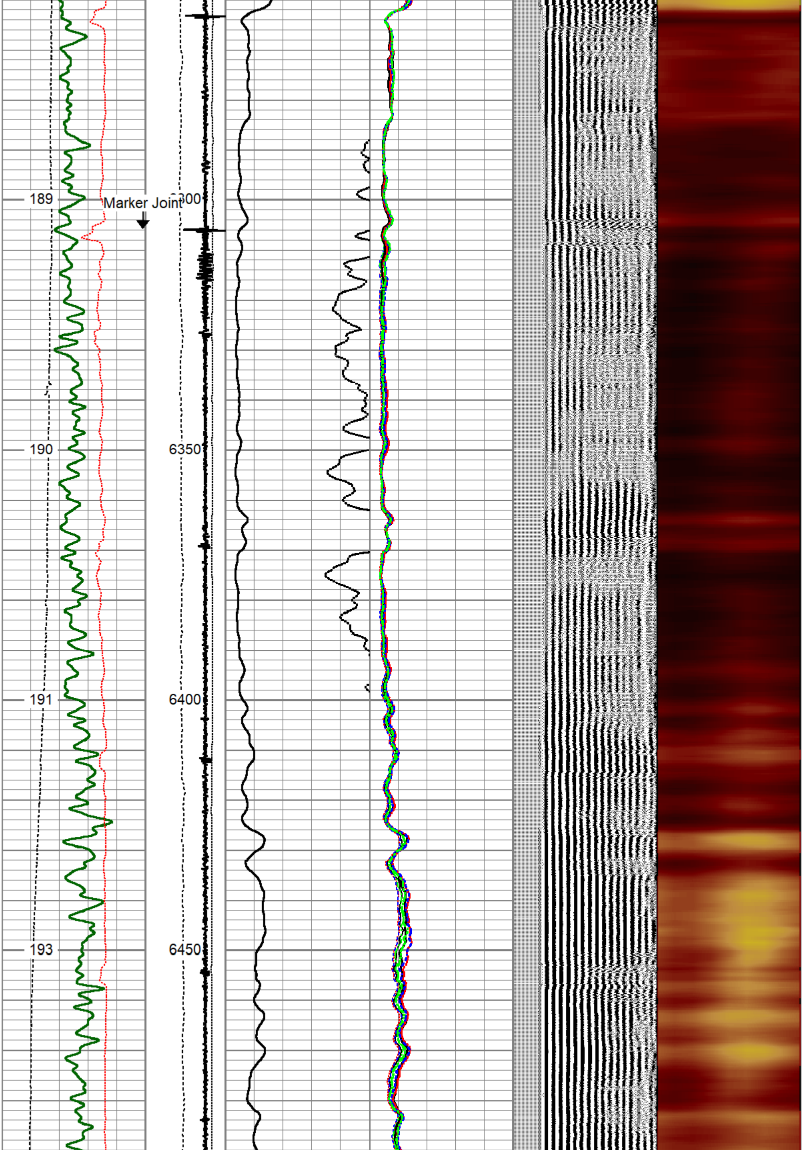


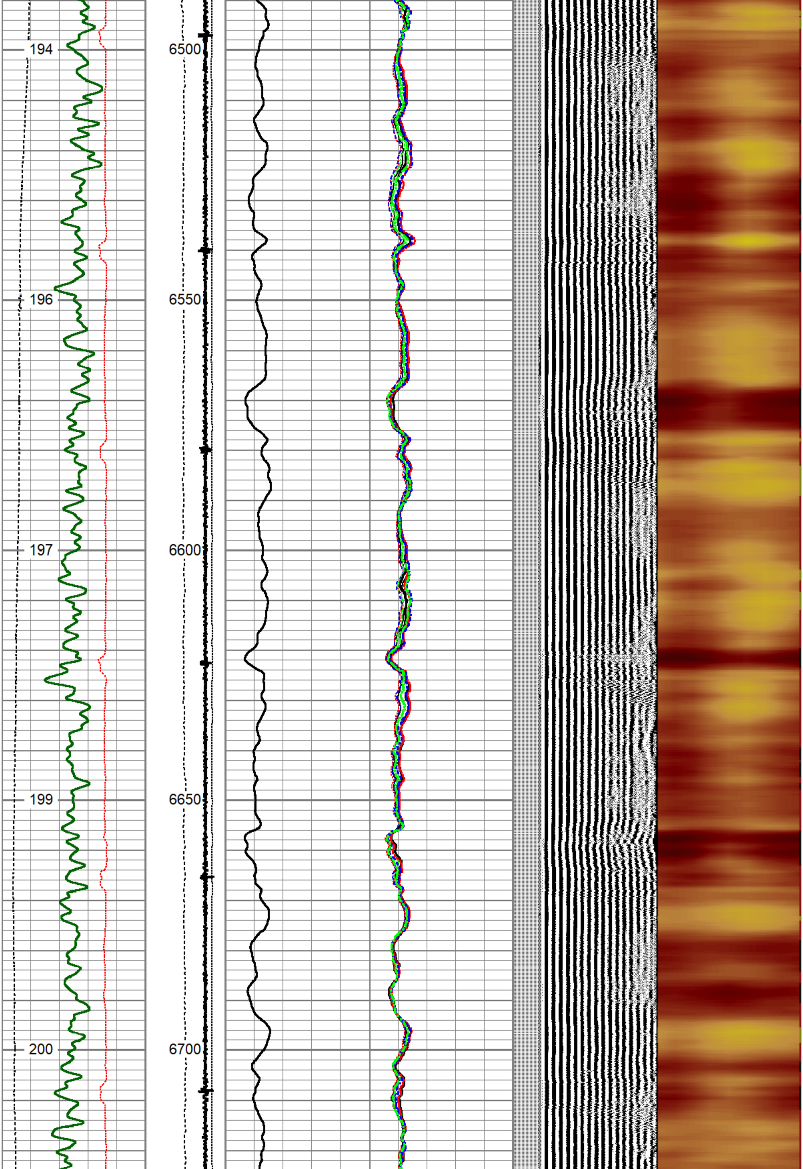


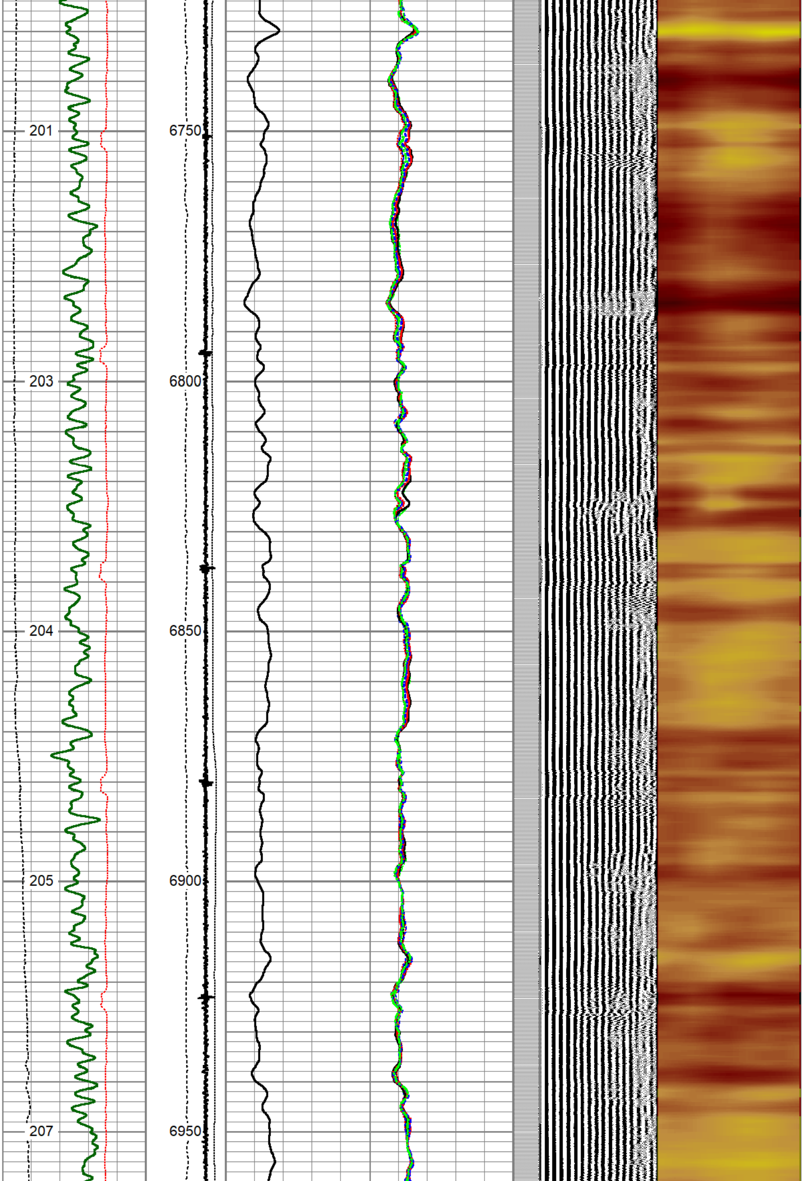


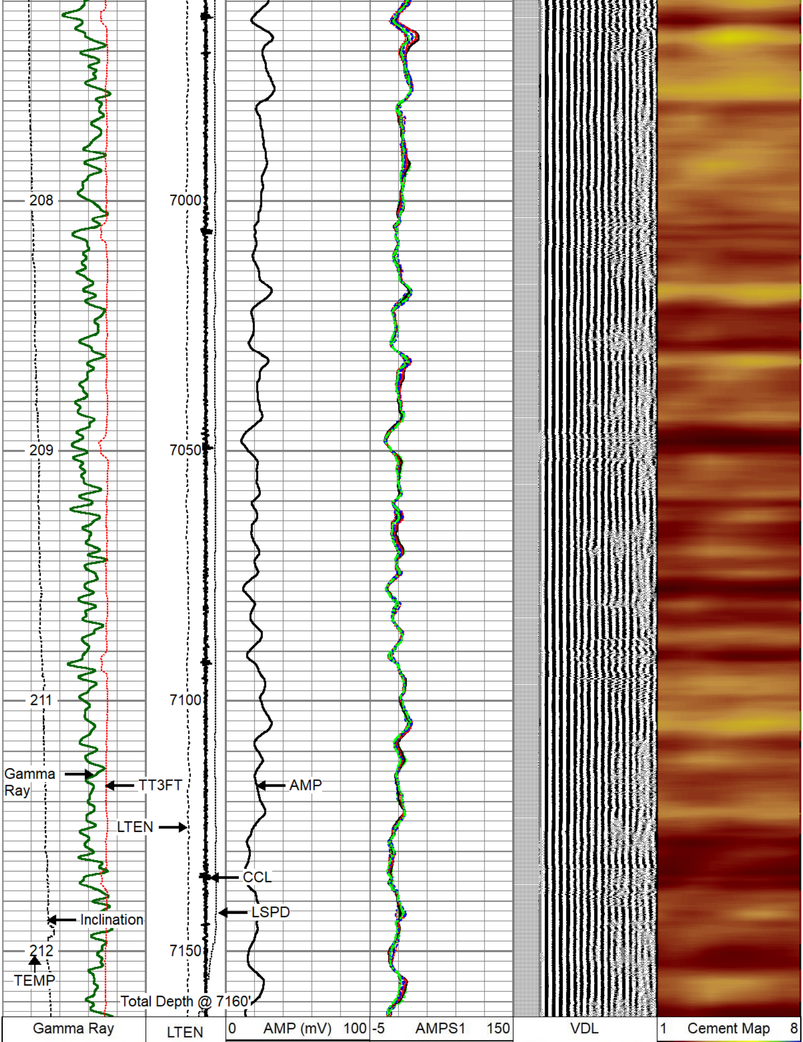












0 (GAPI) 200	(lb)	0 AMPx10 (mV) 10	-5 AMPS2 150	200 (usec) 1200	
TT3FT	0 3000		-5 AMPS3 150		
335 (usec) 235	-3 CCL 1		-5 AMPS4 150		
0 Inclination (deg) 90	LSPD		-5 AMPS5 150		
TEMP	(ft/min)		-5 AMPS6 150		
(degF)	0 -100		-5 AMPS7 150		
			-5 AMPS8 150		

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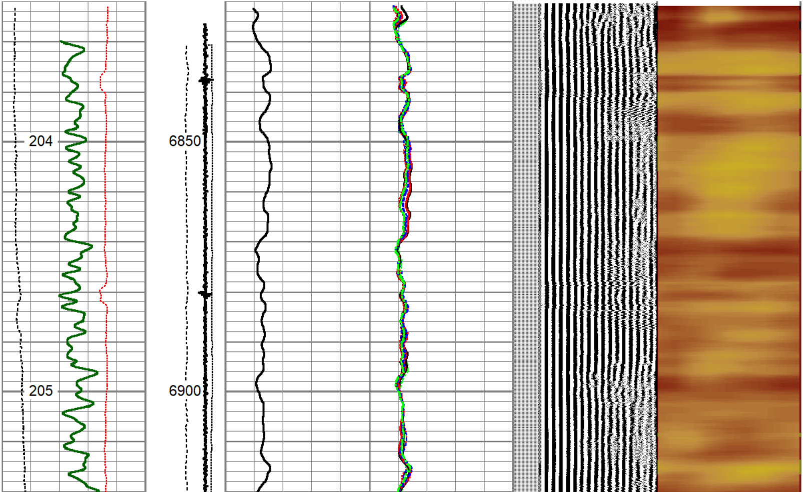
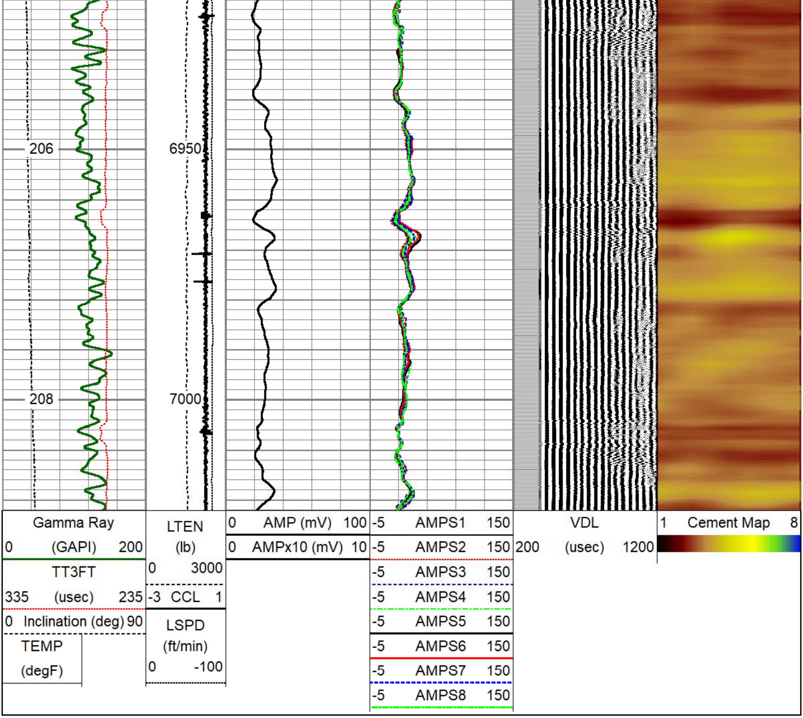
REPEAT SECTION

LOGGED WITH ZERO PSI AT SURFACE
5"=100'

Database File	0512351599_sbj 13-7hz_oxy.db
Dataset Pathname	cbl/pass3
Presentation Format	rbt-gct8acc
Dataset Creation	Wed Feb 02 08:47:36 2022
Charted by	Depth in Feet scaled 1:240

Gamma Ray	LTEN	0 AMP (mV) 100	-5 AMPS1 150	VDL	1 Cement Map 8
0 (GAPI) 200	(lb)	0 AMPx10 (mV) 10	-5 AMPS2 150	200 (usec) 1200	
TT3FT	0 3000		-5 AMPS3 150		
335 (usec) 235	-3 CCL 1		-5 AMPS4 150		
0 Inclination (deg) 90	LSPD		-5 AMPS5 150		
TEMP	(ft/min)		-5 AMPS6 150		
(degF)	0 -100		-5 AMPS7 150		
			-5 AMPS8 150		





Calibration Report

Database File	0512351595_sbj 13-13hz_oxy.db
Dataset Pathname	cbl/pass1
Dataset Creation	Mon Jan 31 10:53:58 2022

Gamma Ray Calibration Report

Serial Number:	1401-17	
Tool Model:	GCT275-0000	
Performed:	Fri Jan 28 14:50:15 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 120663-5.5
Tool Model: RADII-275C

Calibration Casing Diameter: 5.500 in
Calibration Depth: 1609.620 ft

Master Calibration, performed Mon Jan 31 11:08:23 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.005	1.006	1.000	71.921	83.756	0.659
CAL	0.005	1.011				
5'	0.006	0.944	1.000	71.921	75.557	0.572
SUM						
S1	0.005	1.012	0.000	100.000	99.364	-0.522
S2	0.010	1.016	0.000	100.000	99.358	-0.976
S3	0.009	1.008	0.000	100.000	100.082	-0.894
S4	0.005	1.006	0.000	100.000	99.934	-0.517
S5	0.005	0.994	0.000	100.000	101.106	-0.512
S6	0.004	1.012	0.000	100.000	99.133	-0.353
S7	0.002	1.033	0.000	100.000	97.019	-0.207
S8	0.003	1.039	0.000	100.000	96.531	-0.325

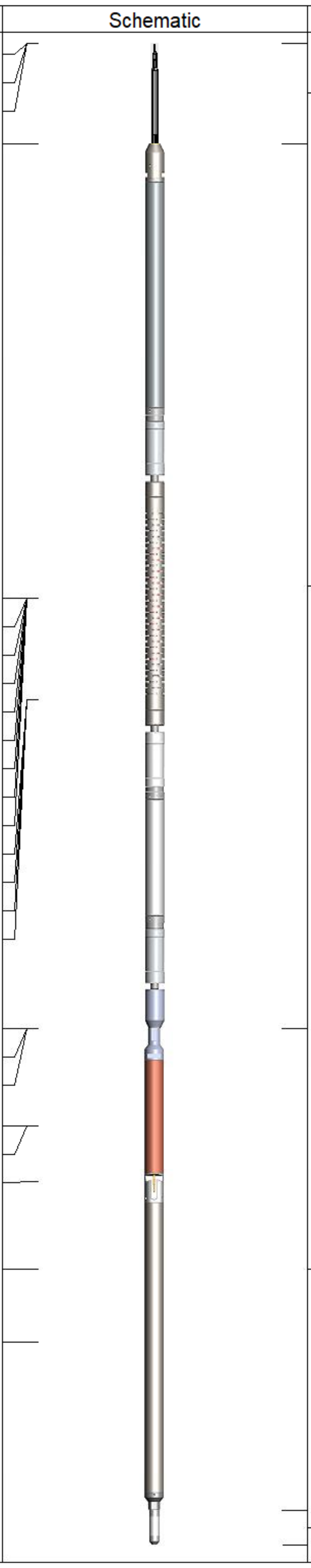
Inclinometer Calibration Report

Performed: Fri Jan 28 14:46:19 2022

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-935.00	951.00	-1.00	1.00	gee
Y Accelerometer	-960.00	909.00	-1.00	1.00	gee
Z Accelerometer	10.80	899.18	0.00	1.00	gee

Sensor	Offset (ft)
mSec_Count	14.85
RBT_Status	14.85
Error_Ct	14.85
RBT_HV	13.85
WVFS8	9.35
WVFS7	9.35
WVFS6	9.35
WVFS5	9.35
WVFS4	9.35
WVFS3	9.35
WVFS2	9.35
WVFS1	9.35
WVF3FT	9.35
RBT_ACCZ	8.35
RBT_ACCY	8.35
RBT_ACCX	8.35
WVF5FT	8.35
GCT_HV	5.10
WVFSYNC	5.10
WVFCAL	5.10
CCL$2	4.14
CCL$1	4.14
GCT_Temp	3.59
GR	2.72
GCT_IntTemp	2.00

Schematic



Description	Length (ft)	O.D. (in)	Weight (lb)
Cable-Head-Titan 1 7/16" Cable Head	1.00	1.44	1.00
RBT8-RADII-275C (120663-5.5) Probe 2.75" RADII 8 Sector Bond Tool	8.75	2.75	
GC-GCT275-0000 (1401-17) Probe 2.75" Gamma Ray - CCL w/ Temp	4.77	2.75	55.00
Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

Dataset:	0512351599_sbj 13-7hz_oxy.db: field/well/cbl/pass1
Total length:	14.85 ft
Total weight:	57.00 lb
O.D.:	2.75 in

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Company	**OCCIDENTAL PETROLEUM CORPORATION**		
Well	**SBJ 13-7HZ**		
Field	**WATTENBERG**		
County	**WELD**		
State	**CO**	**Country**	**USA**