RADIAL CEMENT BOND LOG

Company OCCIDENTAL PETROLEUM CORPORATION
Well XCEL 12N-22HZ
Field WATTENBERG
County WELD
State CO CountryUSA

Company OCCIDENTAL PETROLEUM CORPORATION
Well XCEL 12N-22HZ
Field WATTENBERG
County WELD
State CO **Country** USA

Location: API #: 05-123-38390

649' FSL & 1846' FWL SESW
Lat/Long: 40.06004889 / -104.8985
SEC 27 TWP 1N RGE 67W

Other Services
NONE

Permanent Datum	GROUND LEVEL	Elevation 5026'	
Log Measured From	KELLY BUSHING	16' ABOVE GL	
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 5042'
D.F. N/A
G.L. 5026'

Date	24 JUNE 2022		
Run Number	ONE		
Depth Driller	14685'		
Depth Logger	1450'		
Bottom Logged Interval	1448'		
Top Log Interval	SURFACE		
Open Hole Size	8.75"		
Type Fluid	WATER		
Density / Viscosity	8.3#		
Max. Recorded Temp.	90*F		
Estimated Cement Top	SEE LOG		
Time Well Ready	10:30		
Time Logger on Bottom	11:30		
Equipment Number	8045		
Location	WINDSOR, CO		
Recorded By	SCHUMAN		
Witnessed By	MR DAVID ALMARAZ		

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 PPF	SURFACE	1060'
Prot. String				
Production String	7"	26 PPF	SURFACE	7990'
Liner	4.5"	11.6 PPF	7206'	14670'

<<< Fold Here >>>

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 PES LOG DATED 2/13/2014
LOG RAN WITH 0 PSI AT SURFACE
THANK YOU FOR CHOOSING THE WIRELINE GROUP!

TWG
THE WIRELINE
GROUP

MAIN PASS

LOGGED WITH ZERO PSI AT SURFACE
5"=100'

Database File	0512338390_xcel 12n-22hz_oxy.db
Dataset Pathname	cbl/pass3
Presentation Format	rbt-gct8acc
Dataset Creation	Fri Jun 24 11:41:13 2022
Charted by	Depth in Feet scaled 1:240

Gamma Ray
0 (GAPI) 200
TT3FT
370 (usec) 270
0 Inclination (deg) 90
TEMP
(degF)

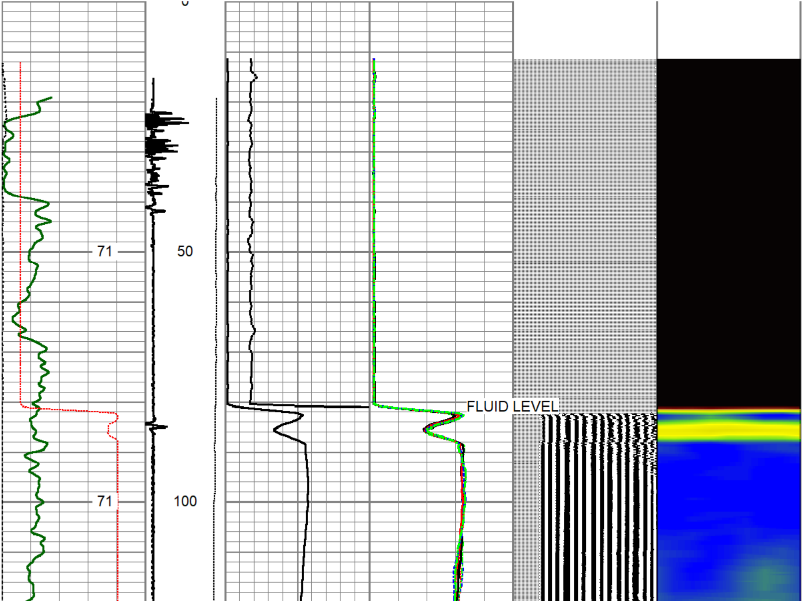
-1 CCL 9
LTEN
(lb)
0 3000
LSPD
(ft/min)
0 100

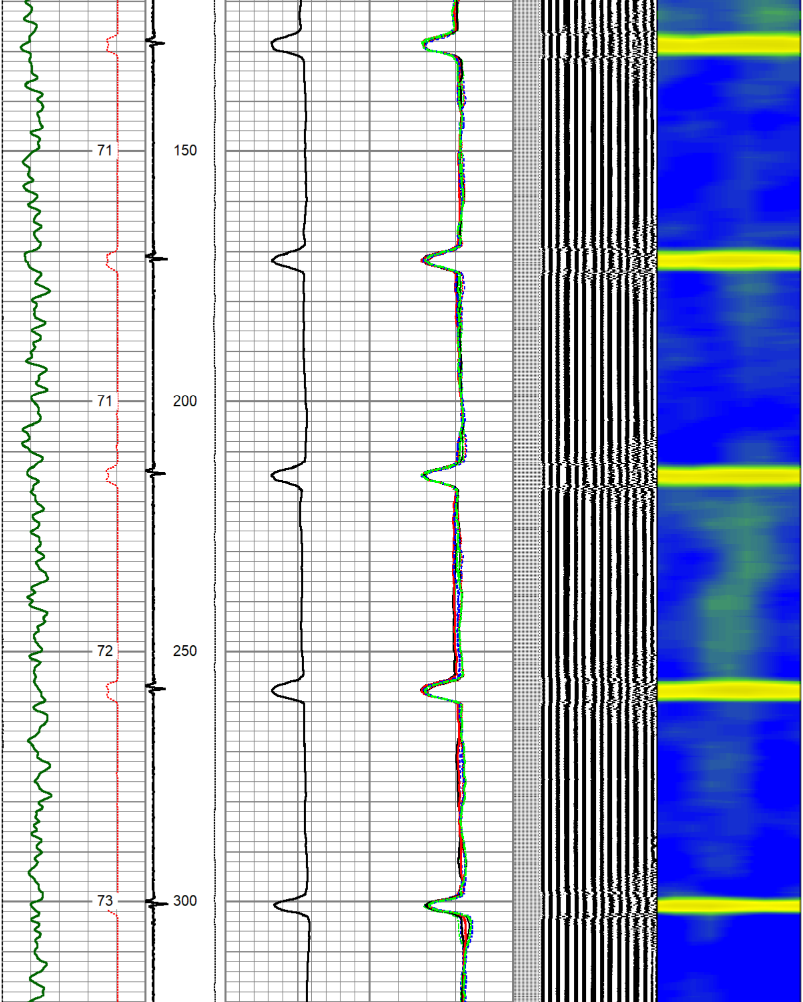
0 AMP (mV) 100
0 AMPx10 (mV) 10

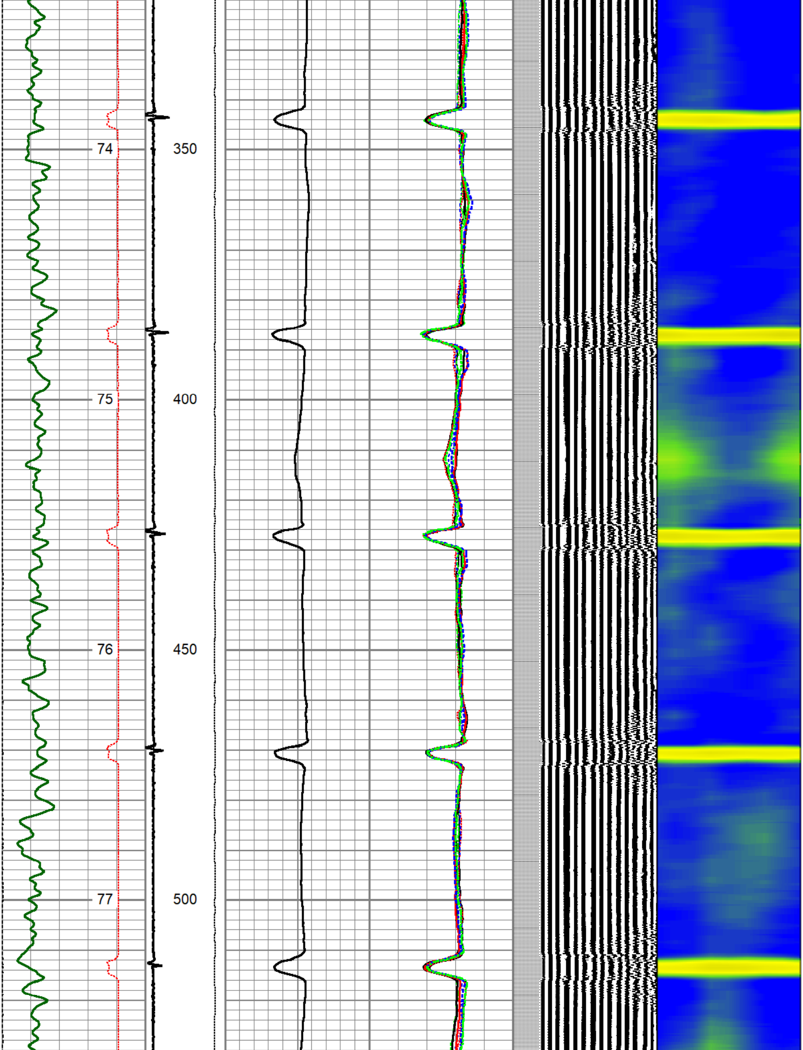
-5 AMPS1 150
-5 AMPS2 150
-5 AMPS3 150
-5 AMPS4 150
-5 AMPS5 150
-5 AMPS6 150
-5 AMPS7 150
-5 AMPS8 150

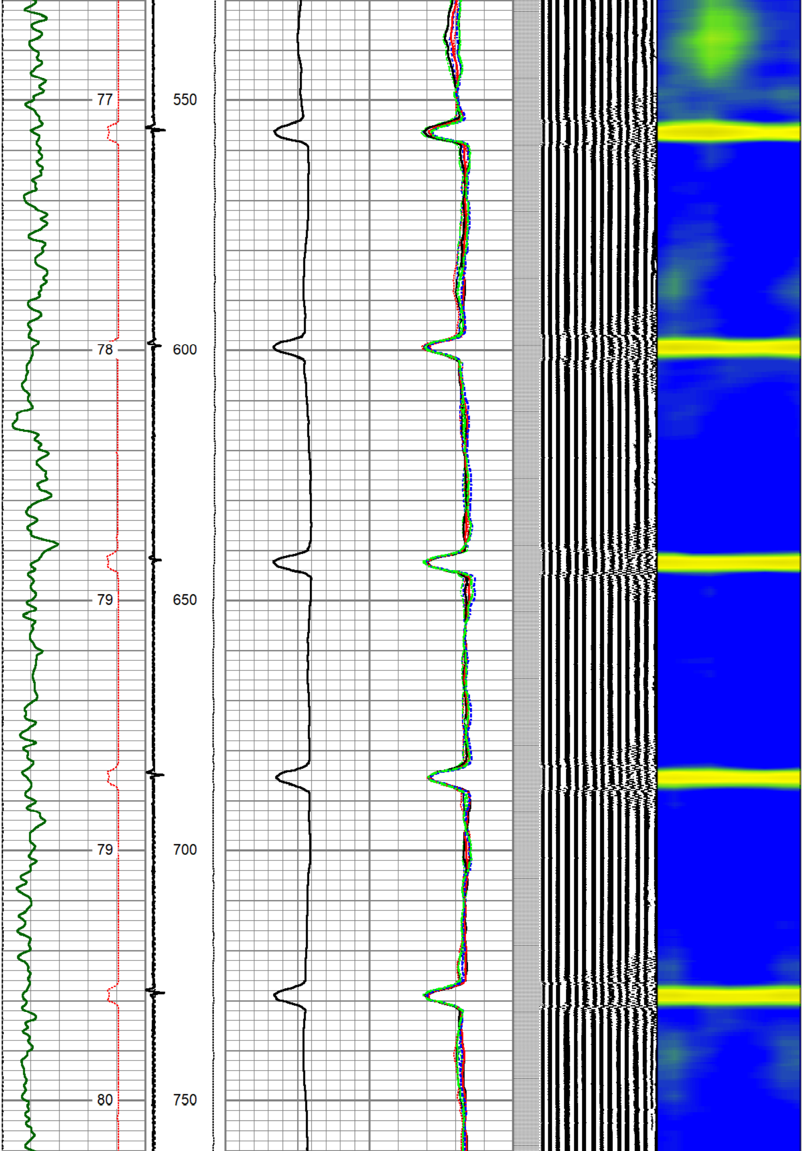
VDL
200 (usec) 1200

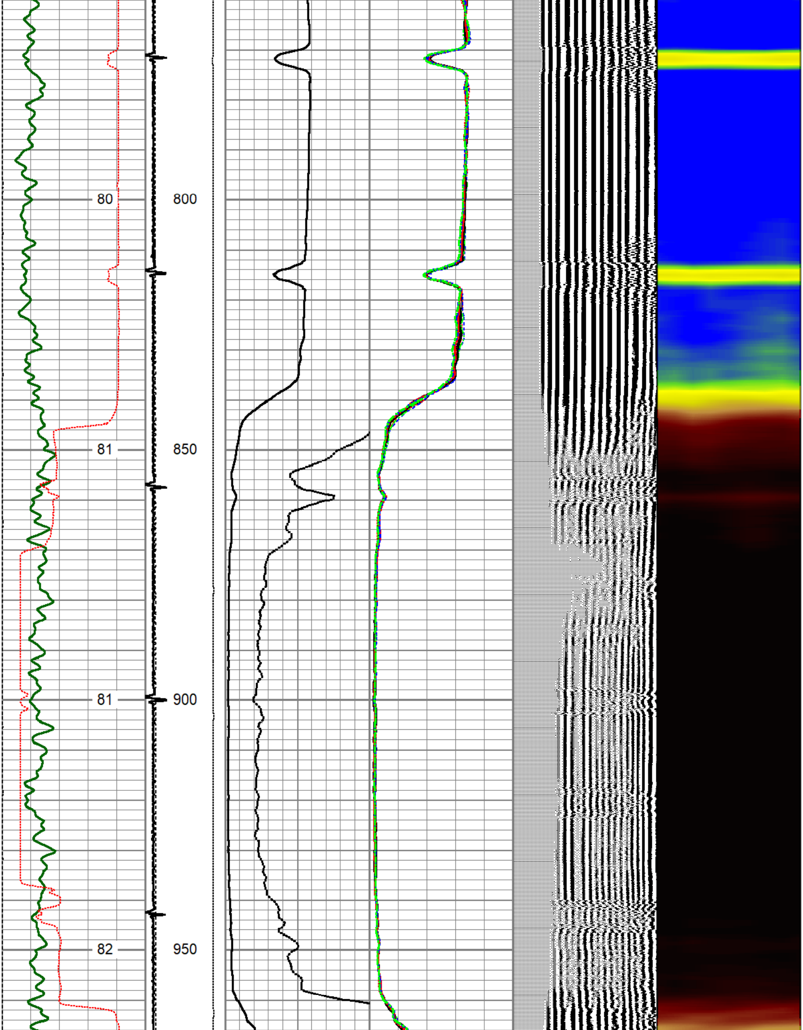
1 Cement Map 8

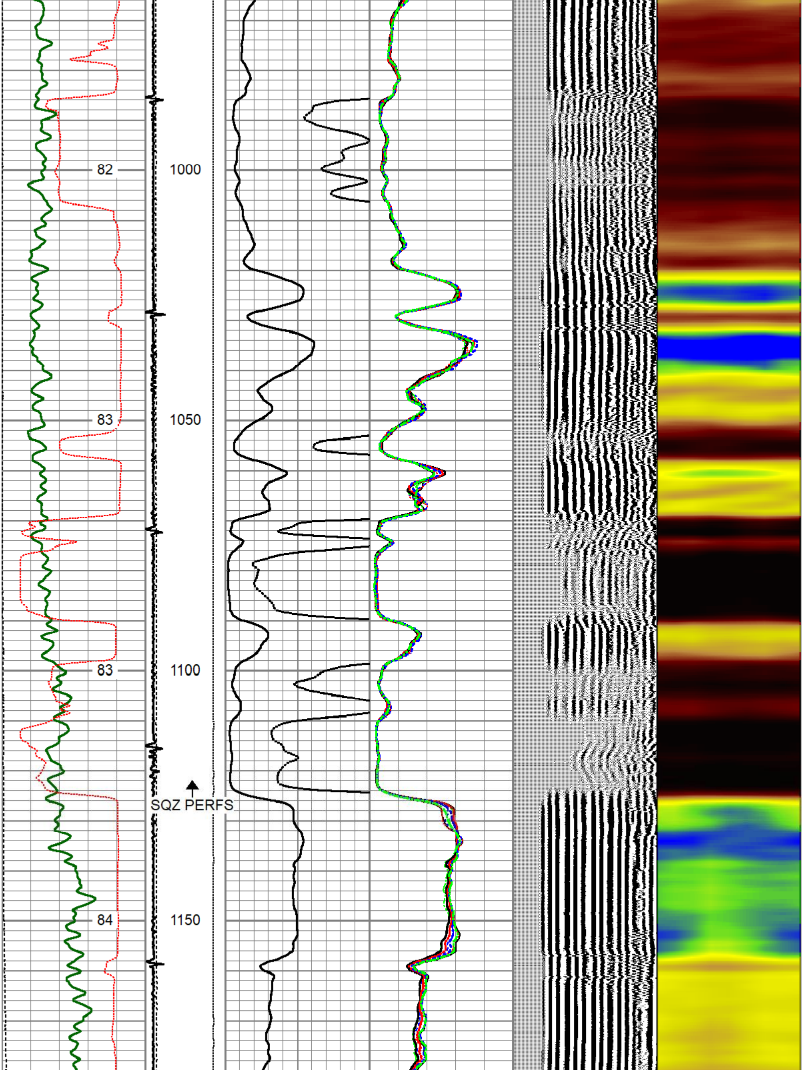


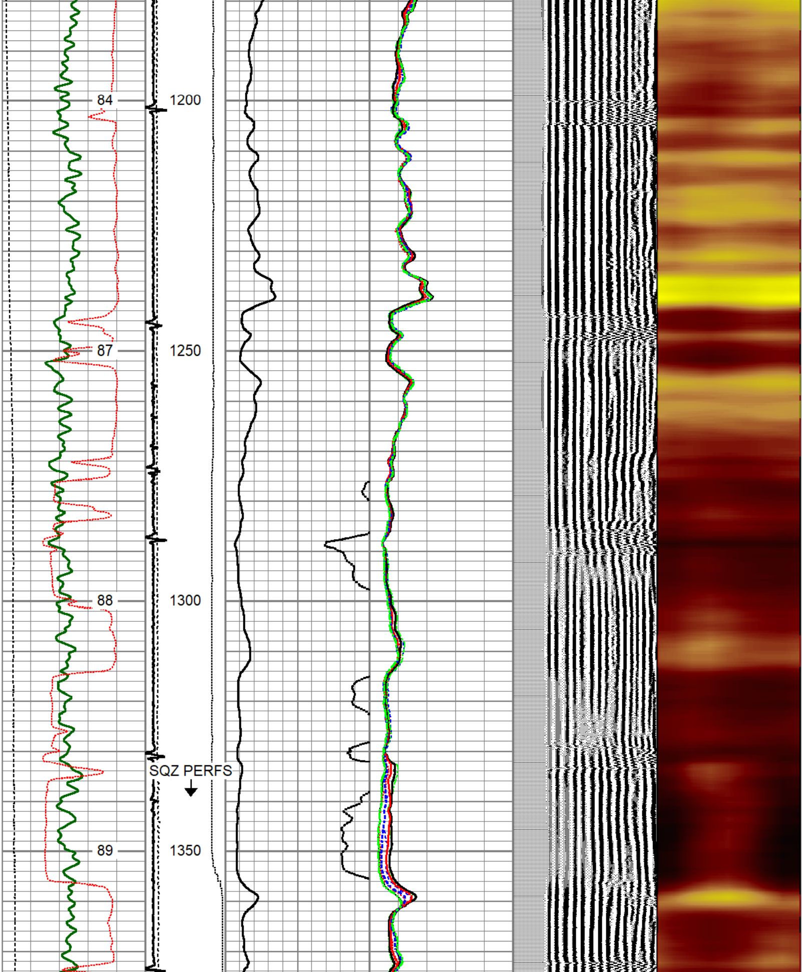


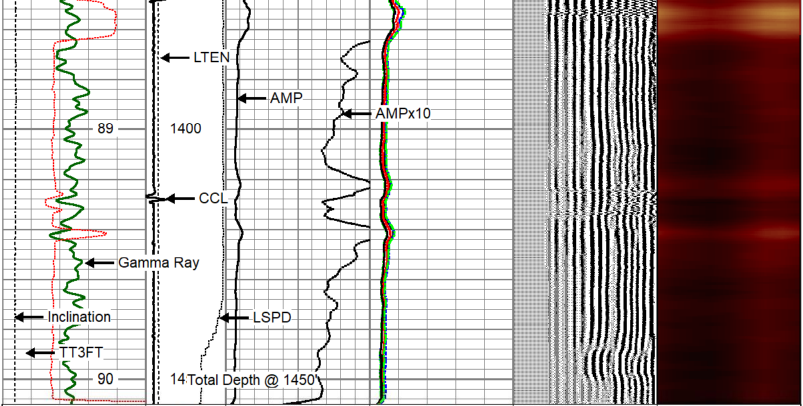












Gamma Ray	-1 CCL 9	0 AMP (mV) 100	-5 AMPS1 150	VDL	1 Cement Map 8
0 (GAPI) 200	LTEN (lb) 0 3000	0 AMPx10 (mV) 10	-5 AMPS2 150	200 (usec) 1200	
TT3FT 370 (usec) 270			-5 AMPS3 150		
0 Inclination (deg) 90	LSPD (ft/min) 0 100		-5 AMPS4 150		
TEMP (degF)			-5 AMPS5 150		
			-5 AMPS6 150		
			-5 AMPS7 150		
			-5 AMPS8 150		

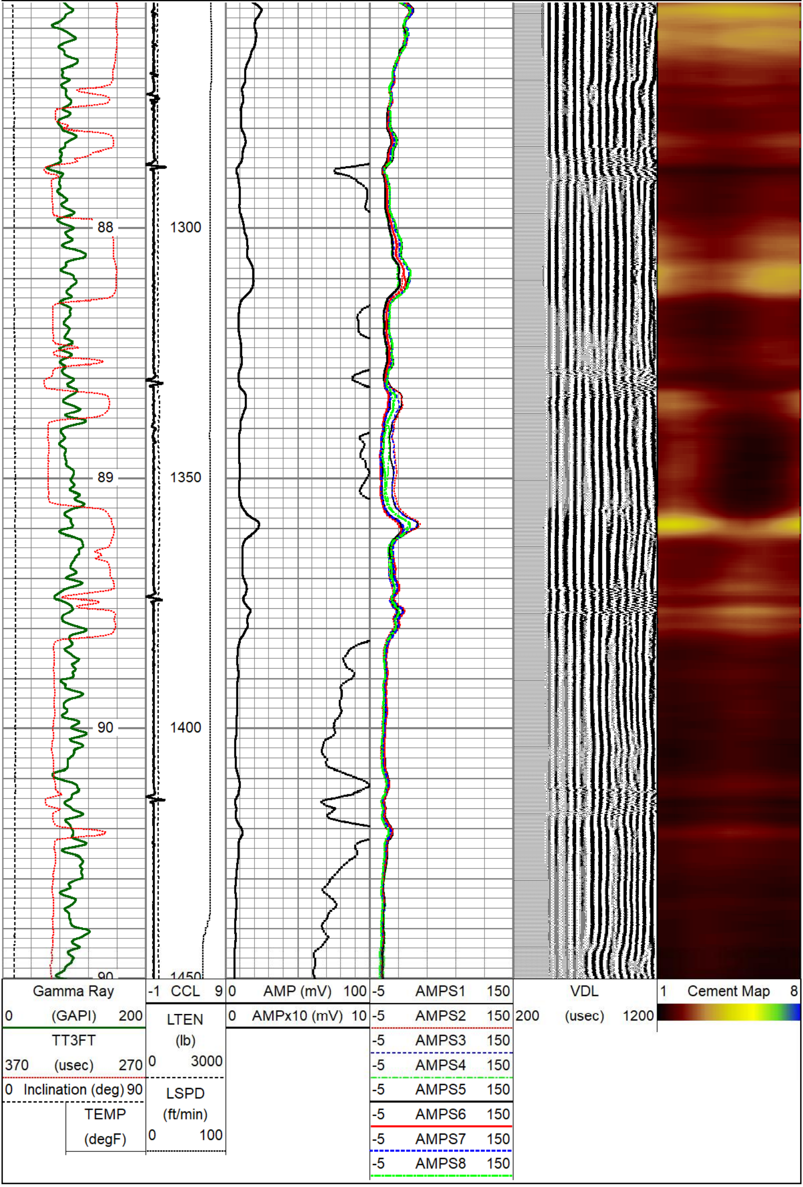
TWG
THE WIRELINE
GROUP

REPEAT SECTION

LOGGED WITH ZERO PSI AT SURFACE
5"=100'

Database File	0512338390_xcel 12n-22hz_oxy.db
Dataset Pathname	cbl/pass2
Presentation Format	RBT-GC~1
Dataset Creation	Fri Jun 24 11:36:33 2022
Charted by	Depth in Feet scaled 1:240

Gamma Ray	-1 CCL 9	0 AMP (mV) 100	-5 AMPS1 150	VDL	1 Cement Map 8
0 (GAPI) 200	LTEN (lb) 0 3000	0 AMPx10 (mV) 10	-5 AMPS2 150	200 (usec) 1200	
TT3FT 370 (usec) 270			-5 AMPS3 150		
0 Inclination (deg) 90	LSPD (ft/min) 0 100		-5 AMPS4 150		
TEMP (degF)			-5 AMPS5 150		
			-5 AMPS6 150		
			-5 AMPS7 150		
			-5 AMPS8 150		



Calibration Report

Database File	0512338390_xcel 12n-22hz_oxy.db
Dataset Pathname	cbl/pass0
Dataset Creation	Fri Jun 24 10:12:28 2022

Gamma Ray Calibration Report

Serial Number:	FW1905-206	
Tool Model:	Probe275	
Performed:	Thu Jun 16 13:45:10 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9474	GAPI/cps

Temperature Calibration Report

Serial Number:	FW1905-206	
Tool Model:	Probe275	
Performed:	Thu Jun 16 13:22:47 2022	
	Reference	Reading
Low Reference:	100.00 degF	6258.73
High Reference:	350.00 degF	26472.00
Gain:	0.01	
Offset:	22.59	
Delta Spacing	2	

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1211130-7.0	
Tool Model:	RBTC3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1334.718	ft

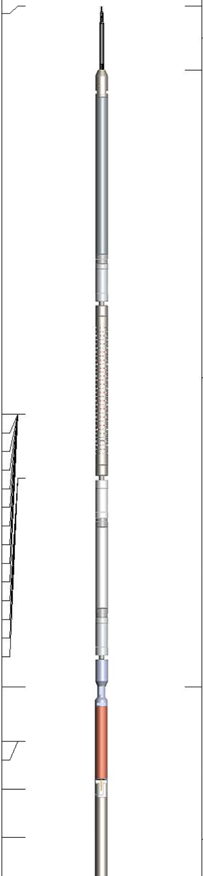
Master Calibration, performed Fri Jun 17 10:07:42 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.010	0.835	1.500	62.221	84.478	1.368
CAL	0.007	1.052				
5'	0.018	0.674	1.500	62.221	106.192	0.319
SUM						
S1	0.006	0.772	0.000	100.000	130.552	-0.805
S2	0.012	0.802	0.000	100.000	126.590	-1.533
S3	0.012	0.838	0.000	100.000	121.033	-1.469
S4	0.013	0.864	0.000	100.000	117.455	-1.518
S5	0.013	0.842	0.000	100.000	120.616	-1.522
S6	0.010	0.796	0.000	100.000	127.264	-1.283
S7	0.011	0.752	0.000	100.000	135.072	-1.519
S8	0.009	0.758	0.000	100.000	133.562	-1.221

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
ErrCt	15.39					
			Cable-Head-Titan 1 7/16" Cable Head	1.00	1.44	1.00
			RBT-RBTC3 (FW1211130-7.0)	9.62	2.75	90.00
WVFS8	9.02					
WVFS7	9.02					
WVFS6	9.02					
WVFS5	9.02					
WVFS4	9.02					
WVFS3	9.02					
WVFS2	9.02					
WVFS1	9.02					
WVFCAL	9.02					
WVF3FT	9.02					
RBT_ACCZ	8.02					
RBT_ACCY	8.02					
RBT_ACCX	8.02					
WVF5FT	8.02					
WVFSYNC	4.77					
DCCL	3.92					
CCL	3.92					
TEMP	3.17					
GR	2.42		GCT-Probe275 (FW1905-206) Probe 2 3/4" Gamma Ray CCL w/Temperature	4.77	2.75	40.00

Dataset: 0512338390_xcel 12n-22hz_oxy.db: field/well/cbl/pass0
Total length: 15.39 ft
Total weight: 131.00 lb
O.D.: 2.75 in

TWG
THE WIRELINE
GROUP

Company	OCCIDENTAL PETROLEUM CORPORATION		
Well	XCEL 12N-22HZ		
Field	WATTENBERG		
County	WELD		
State	CO	**Country**	USA