TWG THE WIRELINE GROUP

RADIAL CEMENT BOND LOG

Company	OCCIDENTAL PETROLEUM CORP.
Well	SCHLAGEL 5-8HZ
Field	WATTENBERG
County	WELD
State	CO
Country	USA

Location: API #: 0512351485
SHL: 2206' FSL & 2274' FEL NWSE
Lat/Long: 40.253729 / -104.913028
SEC 5 TWP 3N RGE 67W

Other Services
GAUGE
RING

Permanent Datum GROUND LEVEL Elevation 4870'
Log Measured From KELLY BUSHING 29' ABOVE GL
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4899'
D.F. N/A
G.L. 4870'

Date	26 MARCH 2023
Run Number	ONE
Depth Driller	24348'
Depth Logger	6745'
Bottom Logged Interval	6743'
Top Log Interval	SURFACE
Open Hole Size	7.875"
Type Fluid	FRESH WATER
Density / Viscosity	8.3#
Max. Recorded Temp.	217° F
Estimated Cement Top	SEE LOG
Time Well Ready	ROA
Time Logger on Bottom	11:30
Equipment Number	8048
Location	WINDSOR, CO
Recorded By	SCHUMAN
Witnessed By	MR CHAD COPELAND

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36PPF L-80 8RD	SURFACE	1912'
Prot. String				
Production String	5.5"	17PPF P110 ICY W46	SURFACE	24334'
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 MARKER JOINT AT 6373'
LOG RAN WITH 2800 PSI AT SURFACE.
THANK YOU FOR CHOOSING THE WIRELINE GROUP!

TWG THE WIRELINE GROUP

MAIN PASS

LOGGED WITH 2800 PSI AT SURFACE
5"=100'

Database File	0512351485_schlagel 5-8hz_oxy.db
Dataset Pathname	CBL/pass3
Presentation Format	rbt-gct8acc
Dataset Creation	Sun Mar 26 11:40:02 2023
Charted by	Depth in Feet scaled 1:240

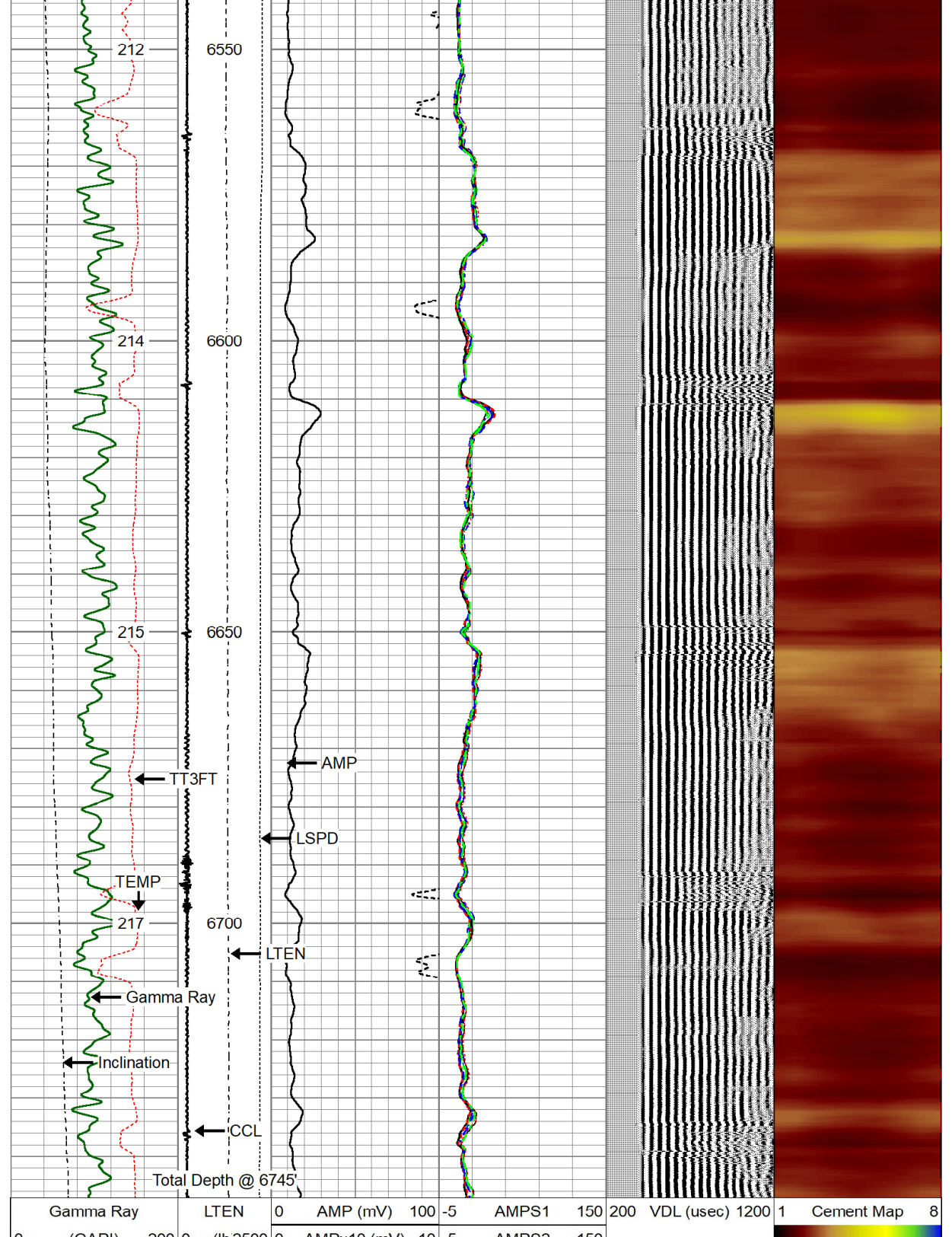
Gamma Ray 0 (GAPI) 200
TT3FT 330 (usec) 230
0 Inclination (deg) 90
TEMP (degF)
LTEN 0 (lb 2500
-1 CCL 9
LSPD (ft/min) 0 100
0 AMP (mV) 100
0 AMPx10 (mV) 10
-5 AMPS1 150
-5 AMPS2 150
-5 AMPS3 150
-5 AMPS4 150
-5 AMPS5 150
-5 AMPS6 150
-5 AMPS7 150
-5 AMPS8 150
200 VDL (usec) 1200
1 Cement Map 8

REPEAT SECTION

LOGGED WITH 2800 PSI AT SURFACE
5"=100'

Database File	0512351485_schlagel 5-8hz_oxy.db
Dataset Pathname	CBL/pass2
Presentation Format	rbt-gct8acc
Dataset Creation	Sun Mar 26 11:34:30 2023
Charted by	Depth in Feet scaled 1:240

Gamma Ray 0 (GAPI) 200
TT3FT 330 (usec) 230
0 Inclination (deg) 90
TEMP (degF)
LTEN 0 (lb 2500
-1 CCL 9
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
200 VDL (usec) 1200
1 Cement Map 8



Gamma Ray 0 (GAPI) 200
TT3FT 330 (usec) 230
0 Inclination (deg) 90
TEMP (degF)
LTEN 0 (lb 2500
-1 CCL 9
LSPD (ft/min) 0 100
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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
200 VDL (usec) 1200
1 Cement Map 8

Calibration Report

Database File	0512351485_schlagel 5-8hz_oxy.db
Dataset Pathname	CBL/pass2
Dataset Creation	Sun Mar 26 11:34:30 2023

Gamma Ray Calibration Report

Serial Number:	110255	
Tool Model:	GCTacc_6-Pin-Base	
Performed:	Mon Feb 27 18:31:09 2023	
Calibrator Value:	165.0	GAPI
Background Reading:	72.3	cps
Calibrator Reading:	300.9	cps
Sensitivity:	1.2000	GAPI/cps

Inclinometer Calibration Report

Performed: Thu Sep 22 15:14:31 2022

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-910.00	1566.00	-1.00	1.00	gee
Y Accelerometer	-989.00	1748.00	-1.00	1.00	gee
Z Accelerometer	1.02	-895.47	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	1311-19_5.5	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	989.361	ft

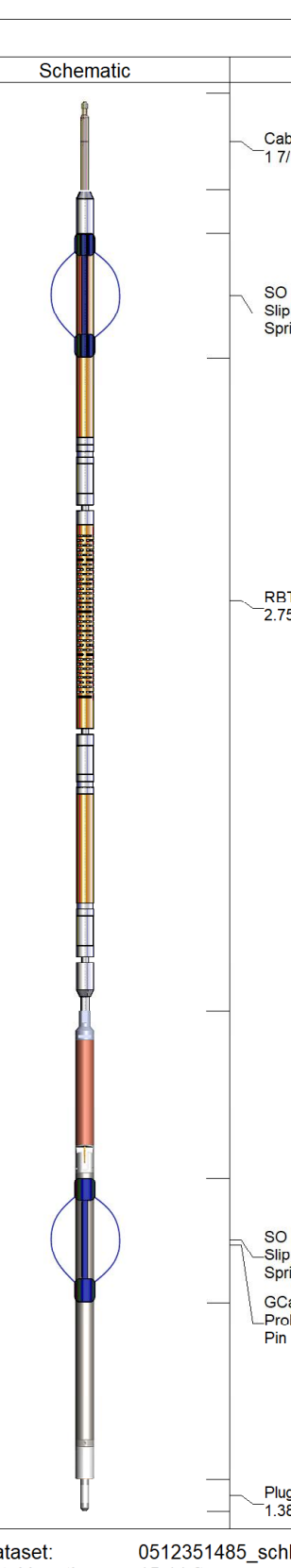
Master Calibration, performed Mon Feb 27 19:00:20 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.012	0.979	1.000	71.921	71.537	1.864
CAL	-0.014	1.001				
5'	-0.008	0.939	1.000	71.921	74.886	1.607
SUM						
S1	-0.011	1.008	0.000	100.000	98.121	1.083
S2	-0.012	1.014	0.000	100.000	97.477	1.152
S3	-0.013	1.019	0.000	100.000	96.941	1.241
S4	-0.013	0.999	0.000	100.000	98.879	1.242
S5	-0.012	0.978	0.000	100.000	100.959	1.246
S6	-0.012	0.974	0.000	100.000	101.396	1.196
S7	-0.012	0.983	0.000	100.000	100.555	1.167
S8	-0.012	0.988	0.000	100.000	99.994	1.173

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
GCT_FMWR	15.11		Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
mSec_Count	15.11					
RBT_Status	15.11					
Error_Ct	15.11					
			SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
WVFS8	9.58		RBT8acc-Probe275acc (1311-19_5.5) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
WVFS7	9.58					
WVFS6	9.58					
WVFS5	9.58					
WVFS4	9.58					
WVFS3	9.58					
WVFS2	9.58					
WVFS1	9.58					
WVF3FT	9.58					
WVF5FT	8.58					
GCT_HV	5.72					
RBT_HV	5.33					
RBT_ACCZ	5.33					
RBT_ACCY	5.33					
RBT_ACCX	5.33					
WVFSYNC	5.33					
WVFCAL	5.33					
CCL$2	4.72					
CCL$1	4.72					
GCT_TEMP	3.84		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
GR	3.04		GCacc-GCTacc_6-Pin-Base (110255) Probe 2.75" Gamma Ray - CCL w/ Temp and 6 Pin Bottom	5.00	2.75	
GCT_IntTemp	2.00					
GCT_ACCZ	0.33					
GCT_ACCY	0.33					
GCT_ACCX	0.33		Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

Dataset:	0512351485_schlagel 5-8hz_oxy.db: field/well/CBL/pass2
Total length:	15.11 ft
Total weight:	143.00 lb
O.D.:	3.25 in

Company	OCCIDENTAL PETROLEUM CORP.		
Well	SCHLAGEL 5-8HZ		
Field	WATTENBERG		
County	WELD		
State	CO	Country	USA