RADIAL CEMENT BOND LOG

TWG THE WIRELINE GROUP

Company OCCIDENTAL PETROLEUM CORP.
Well BERRY FARMS 8-4HZ
Field WATTENBERG
County WELD
State CO Country USA

Company	OCCIDENTAL PETROLEUM CORP.
Well	BERRY FARMS 8-4HZ
Field	WATTENBERG
County	WELD
State	CO
Country	USA

Location: API # : 0512351859
SHL: 1423' FNL & 939' FEL SENE
Lat/Long: 40.243721 / -104.908182
SEC 8 TWP 3N RGE 67W

Other Services
GAUGE
RING

Permanent Datum GROUND LEVEL Elevation 4817'
Log Measured From KELLY BUSHING 20' ABOVE GL
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4837'
D.F. N/A
G.L. 4817'

Date	31 MARCH 2023
Run Number	ONE
Depth Driller	22519'
Depth Logger	6690'
Bottom Logged Interval	6688'
Top Log Interval	SURFACE
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	8.3#
Max. Recorded Temp.	224* F
Estimated Cement Top	SEE LOG
Time Well Ready	ROA
Time Logger on Bottom	07:45
Equipment Number	8048
Location	WINDSOR, CO
Recorded By	SCHUMAN
Witnessed By	MR DJ ANDERSON

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36PPF L80 8RD	SURFACE	1855'
Prot. String				
Production String	5.5"	17PPF P110 ICY W461	SURFACE	22504'
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 6300'
LOG RAN WITH 2800 PSI AT SURFACE
THANK YOU FOR CHOOSING THE WIRELINE GROUP!

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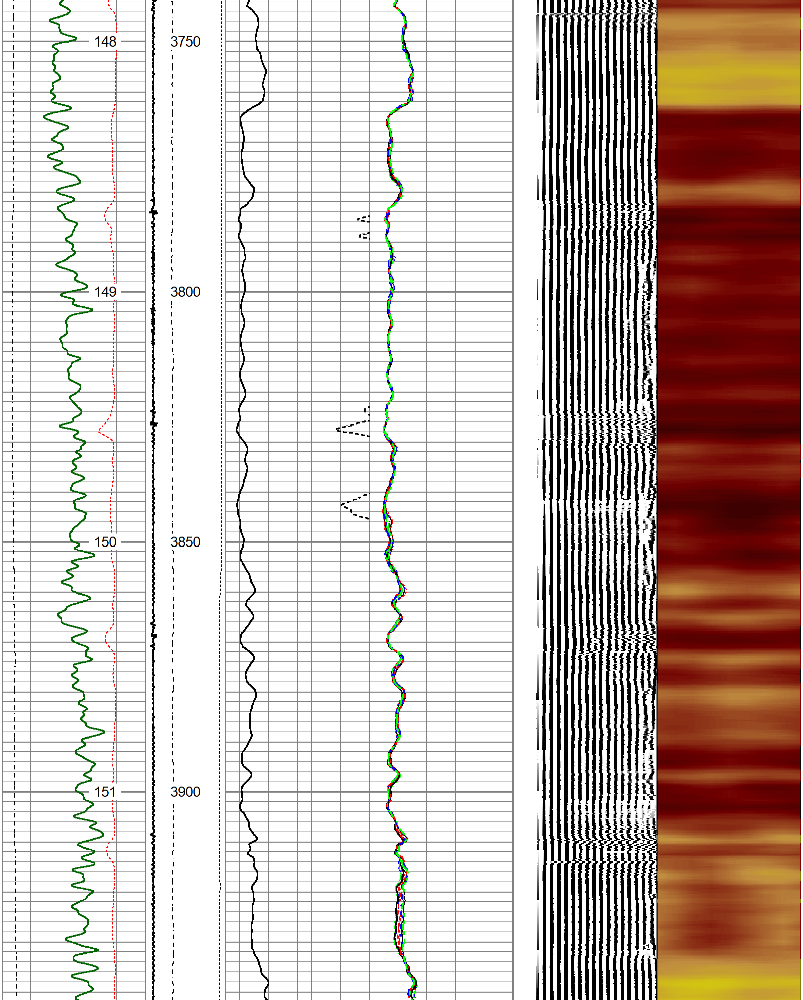
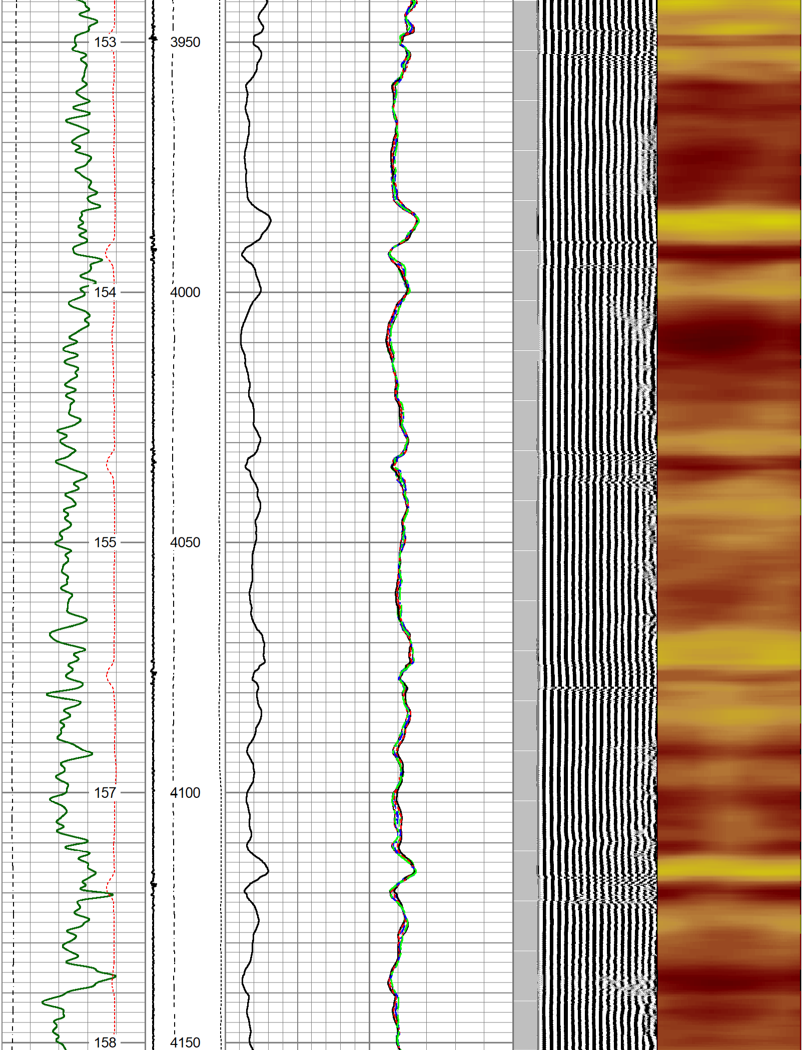
MAIN PASS

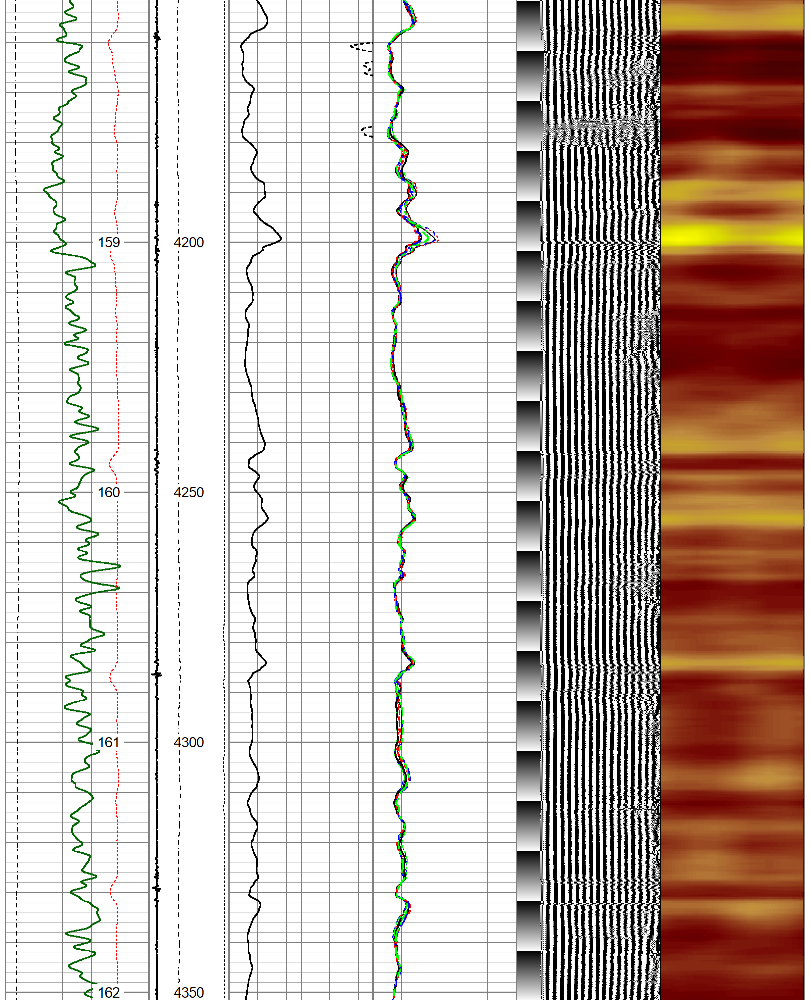
LOGGED WITH 2800 PSI AT SURFACE
5"=100'

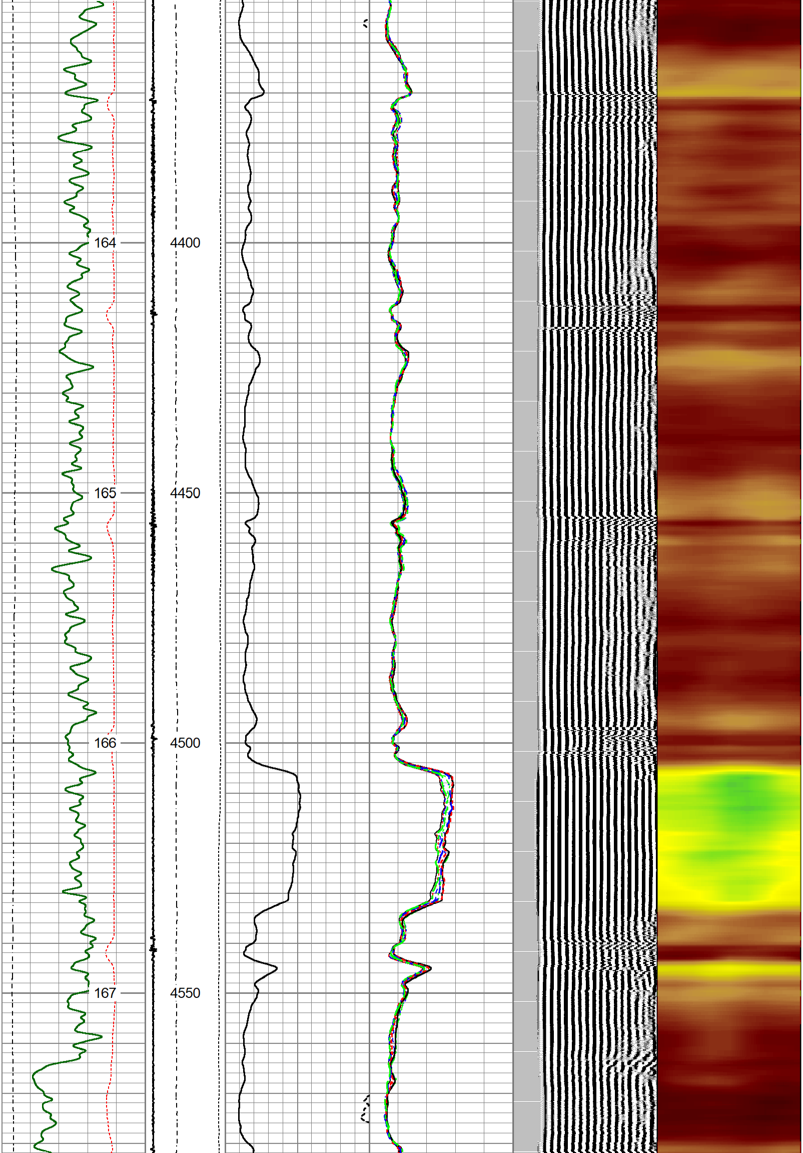
Database File	0512351859_berry farms 8-4hz_oxy.db
Dataset Pathname	cbl/pass2
Presentation Format	rbt-gct8acc
Dataset Creation	Fri Mar 31 07:49:20 2023
Charted by	Depth in Feet scaled 1:240

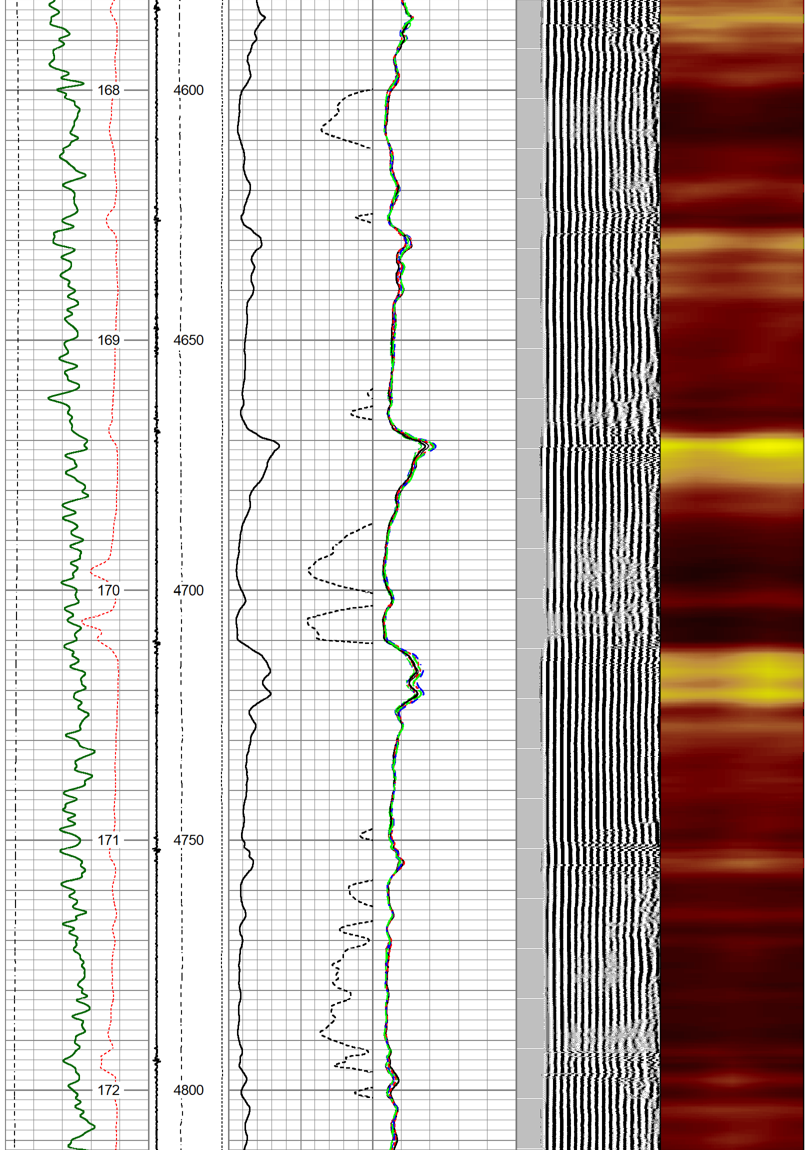
Gamma Ray	LTEN	0 AMP (mV) 100	-5 AMPS1 150	200 VDL (usec) 1200	1 Cement Map 8
0 (GAPI) 200	0 (lb 2500	0 AMPx10 (mV) 10	-5 AMPS2 150		
TT3FT	-1 CCL 9		-5 AMPS3 150		
330 (usec) 230	LSPD		-5 AMPS4 150		
0 Inclination (deg) 90	(ft/min)		-5 AMPS5 150		
TEMP	0 100		-5 AMPS6 150		
(degF)			-5 AMPS7 150		
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

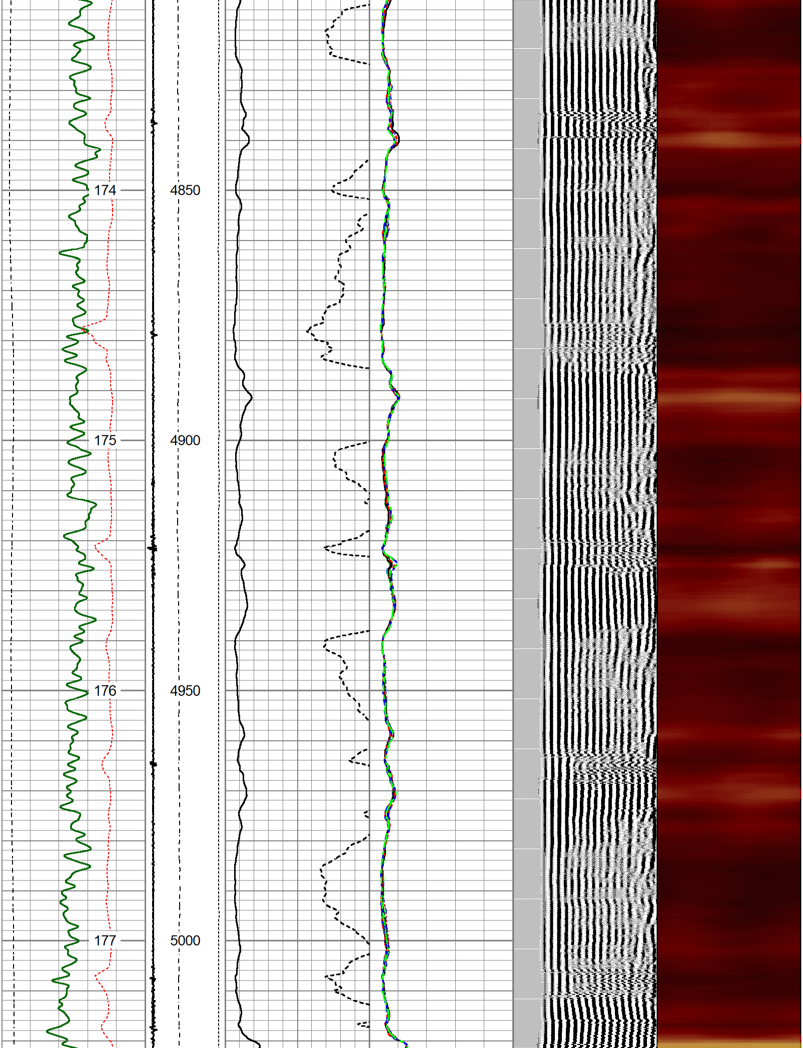


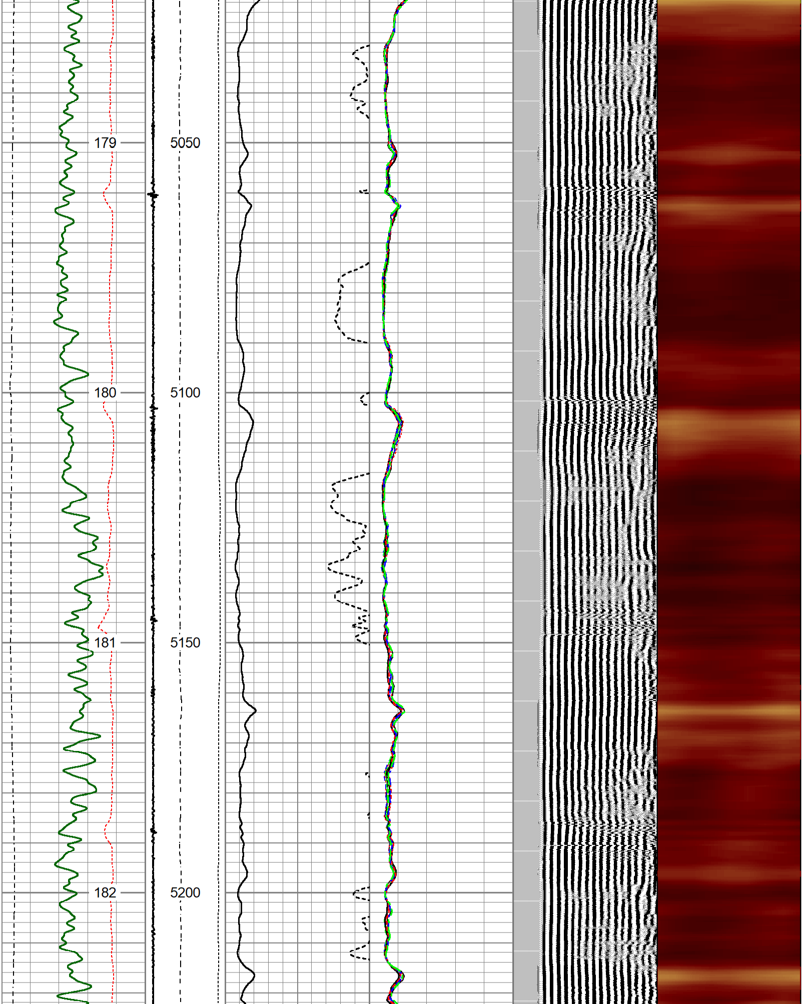


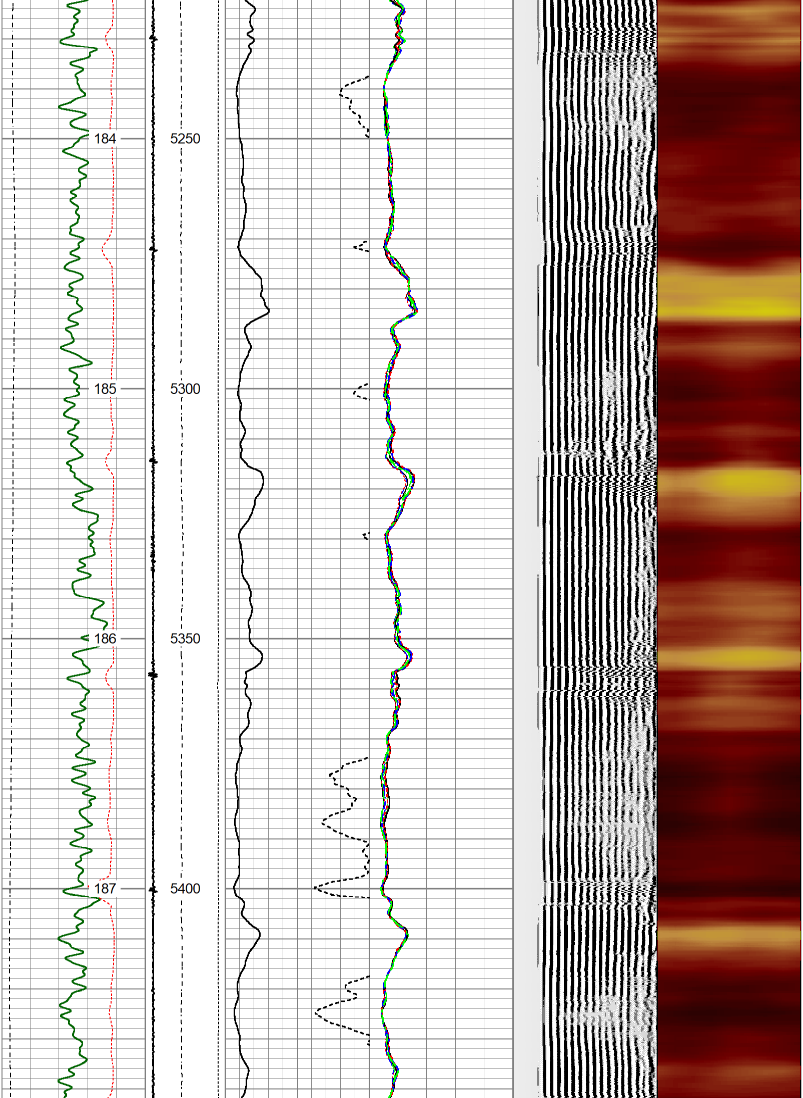


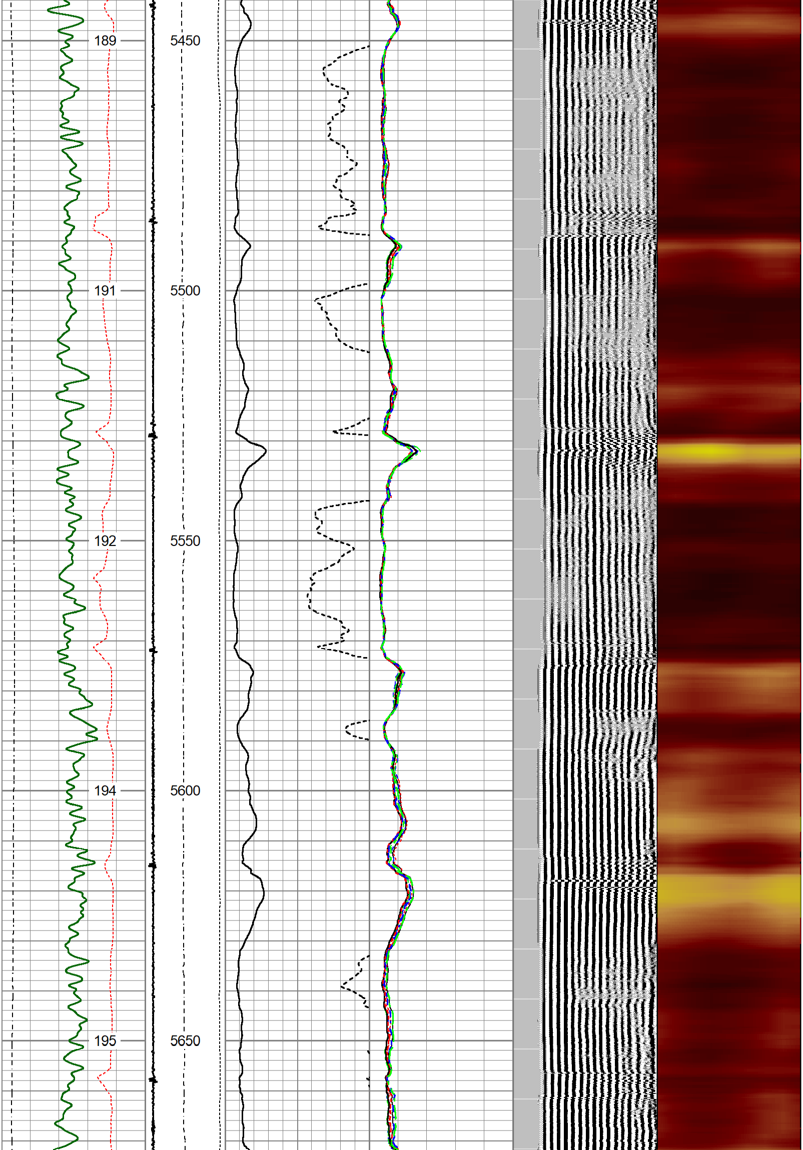


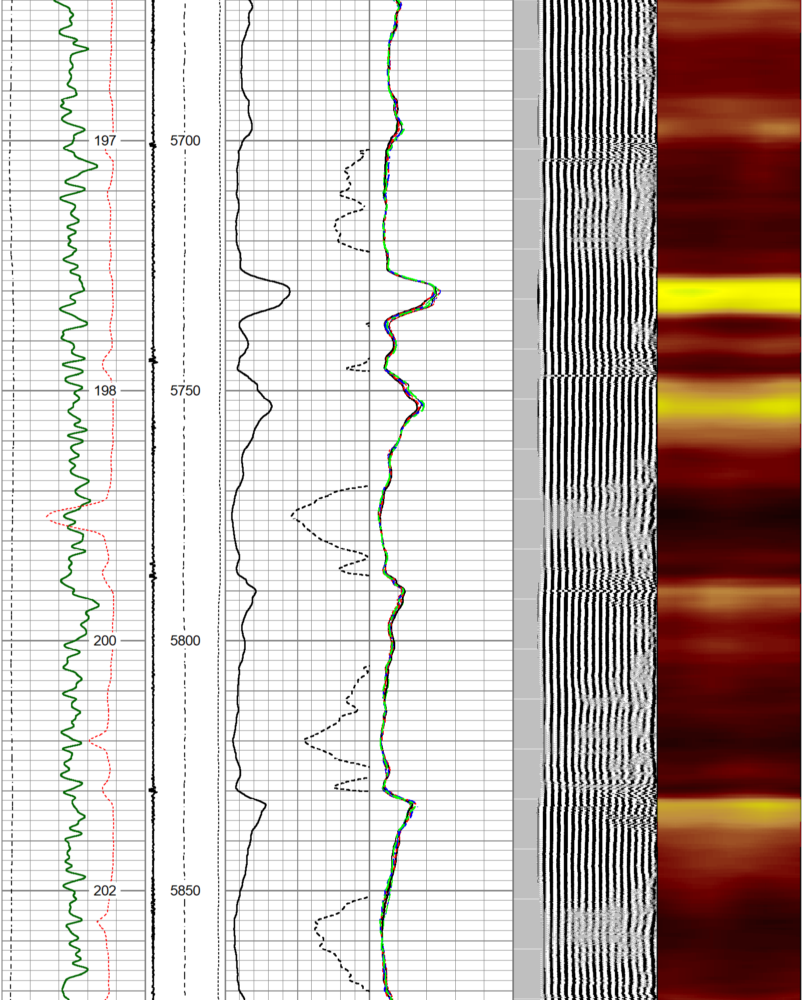


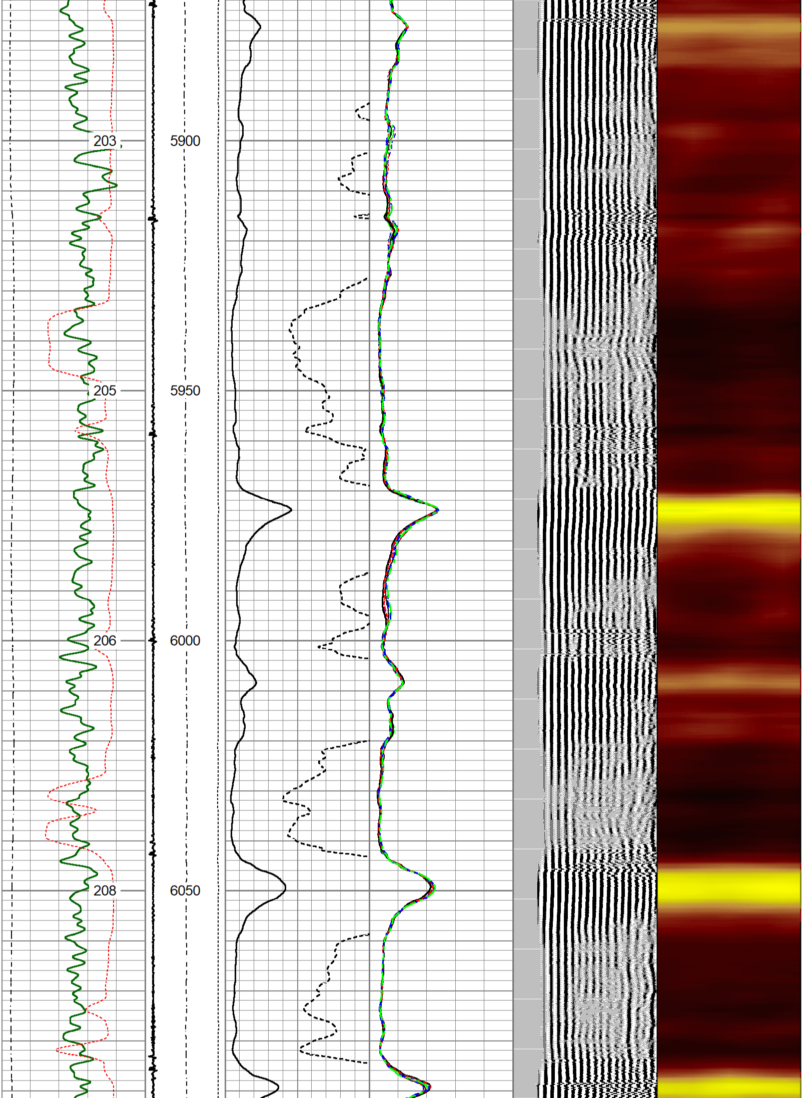


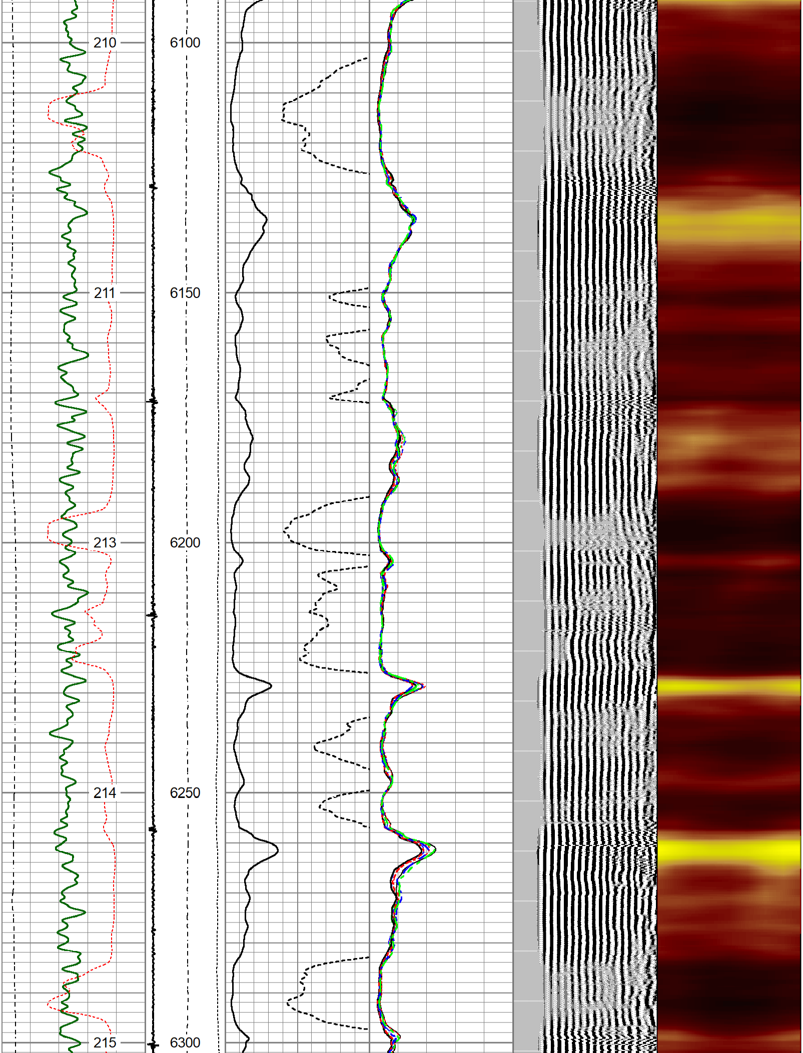


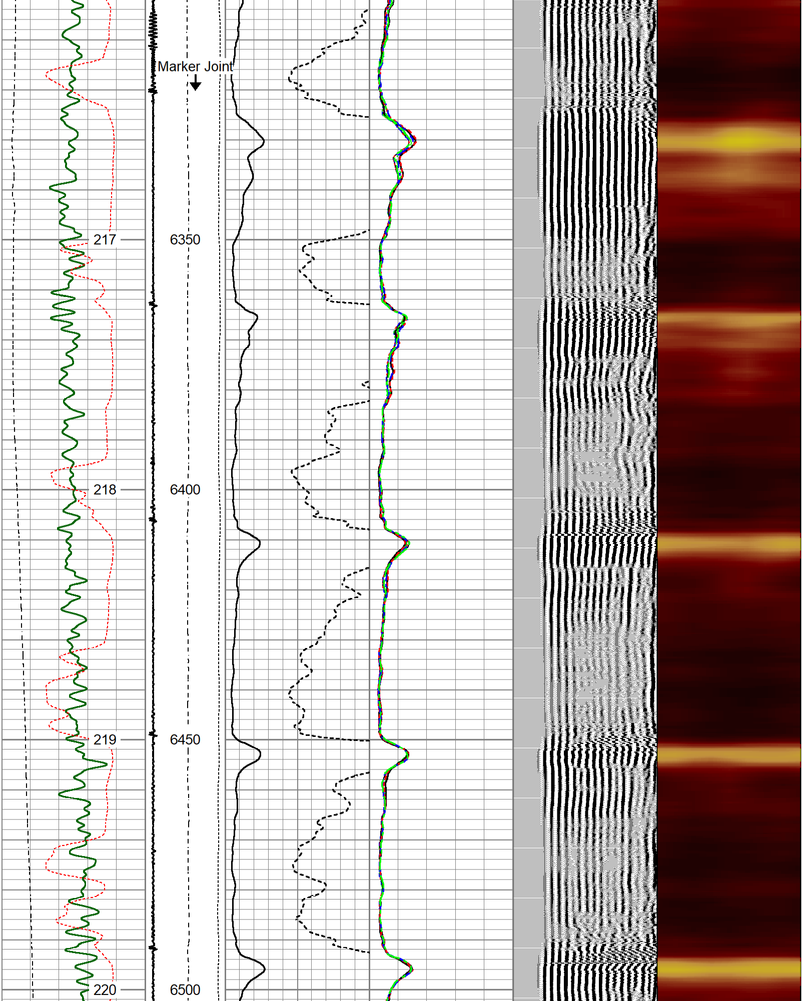


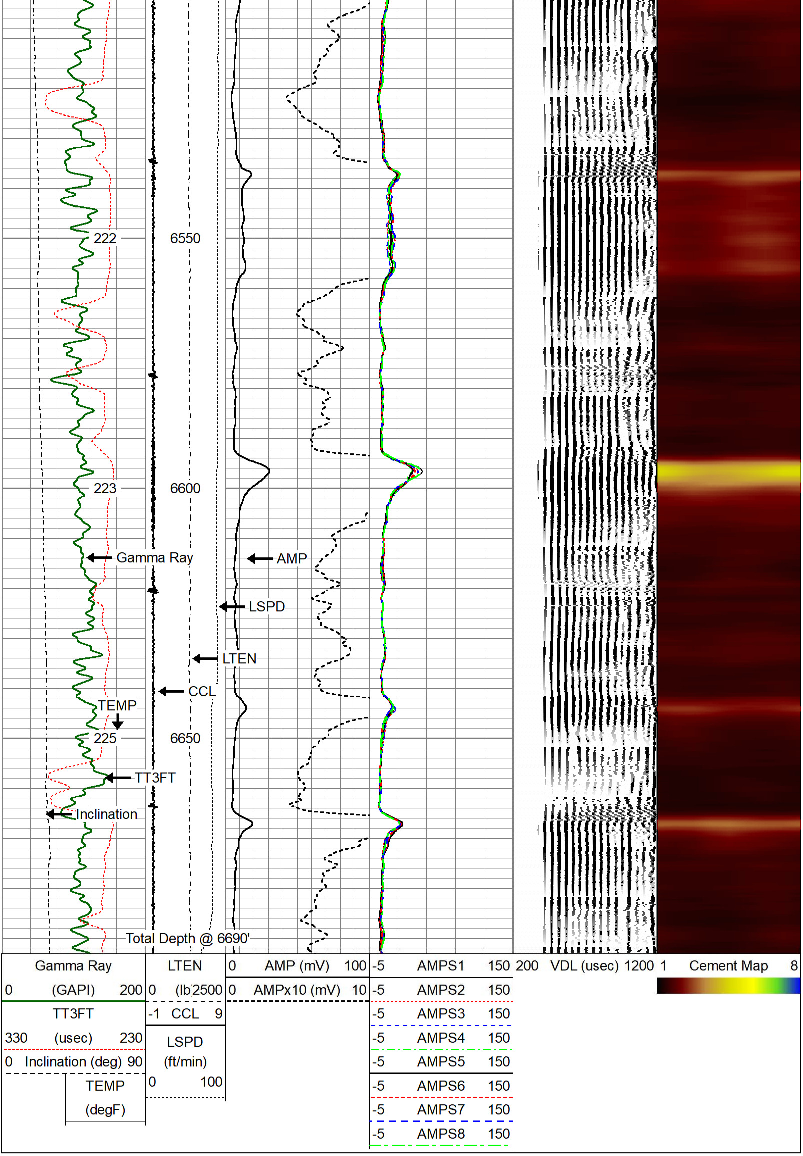












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REPEAT SECTION

LOGGED WITH 2800 PSI AT SURFACE
5"=100'

Database File	0512351859_berry farms 8-4hz_oxy.db
Dataset Pathname	cbl/pass1
Presentation Format	rbt-gct8acc
Dataset Creation	Fri Mar 31 07:43:28 2023
Charted by	Depth in Feet scaled 1:240

Gamma Ray
0 (GAPI) 200
TT3FT
330 (usec) 230
0 Inclination (deg) 90
TEMP
(degF)

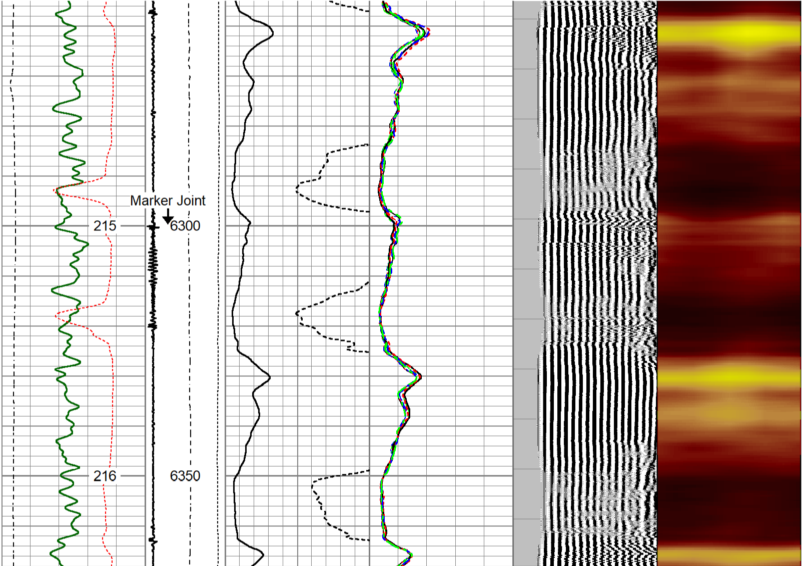
LTEN
0 (lb 2500
-1 CCL 9
LSPD
(ft/min)
0 100

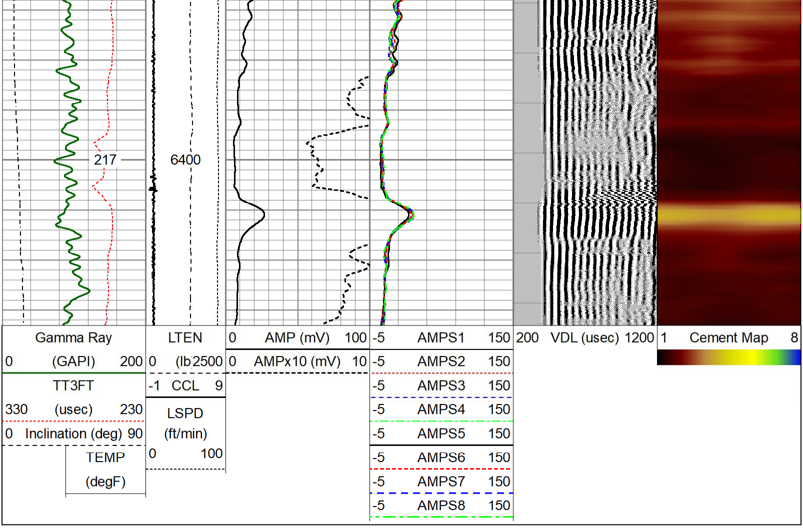
0 AMP (mV) 100
0 AMPx10 (mV) 10

-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





Calibration Report

Database File	0512351859_berry farms 8-4hz_oxy.db
Dataset Pathname	cbl/pass1
Dataset Creation	Fri Mar 31 07:43:28 2023

Compensated Neutron Calibration Report

Model: CNT - 275Dig
Serial Number: FW1409-35(NOT RAN)

SHOP CALIBRATION Mon Nov 21 10:18:48 2022

	Cal Tube	Units
Tank Ratio	11.6940	SS/LS
LS Detector	68.71	cps
SS Detector	748.49	cps
Tool Ratio	10.8929	SS/LS
Tool Gain	1.0735	----

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:	0.9502	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:	120633_5.5	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	1927.381	ft

Master Calibration, performed Mon Mar 6 11:45:39 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.007	0.905	1.000	71.921	75.969	0.450
CAL	0.005	1.007				
5'	0.009	0.852	1.000	71.921	84.090	0.273
SUM						
S1	0.007	0.898	0.000	100.000	112.221	-0.797
S2	0.006	0.949	0.000	100.000	106.080	-0.671
S3	0.017	0.955	0.000	100.000	106.558	-1.794
S4	0.007	0.939	0.000	100.000	107.322	-0.803
S5	0.006	0.908	0.000	100.000	110.922	-0.685
S6	0.005	0.887	0.000	100.000	113.350	-0.576
S7	0.005	0.872	0.000	100.000	115.387	-0.606
S8	0.006	0.863	0.000	100.000	116.680	-0.674

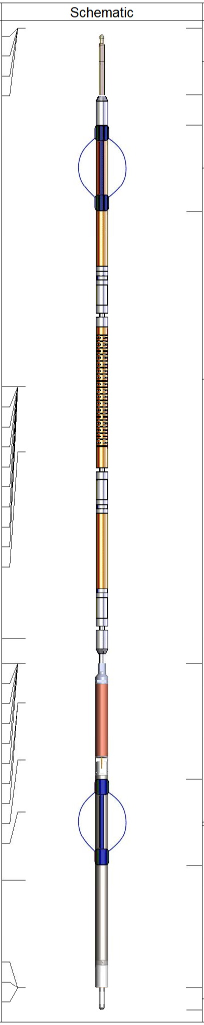
Inclinometer Calibration Report

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)
GCT_FMWR	15.11
mSec_Count	15.11
RBT_Status	15.11
Error_Ct	15.11
WVFS8	9.58
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
GR	3.04
GCT_IntTemp	2.00
GCT_ACCZ	0.33
GCT_ACCY	0.33
GCT_ACCX	0.33

Schematic



Description	Length (ft)	O.D. (in)	Weight (lb
Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
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
RBT8acc-Probe275acc (120633_5.5) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
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
GCacc-GCTacc_6-Pin-Base (110255) Probe 2.75" Gamma Ray - CCL w/ Temp and 6 Pin Bottom	5.00	2.75	
Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

Dataset:	0512351859_berry farms 8-4hz_oxy.db: field/well/cbl/pass1
Total length:	15.11 ft
Total weight:	143.00 lb
O.D.:	3.25 in

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Company	OCCIDENTAL PETROLEUM CORP.
Well	BERRY FARMS 8-4HZ
Field	WATTENBERG
County	WELD
State	CO
Country	USA