CEMENT BOND LOG WITH GAMMA RAY

AXIS ENERGY SERVICES

Comp. ANADARKO PETROLEUM COMPANY
Well SHERWOOD L30-30D
Field WATTENBERG
Co. WELD
State COLORADO

Company	ANADARKO PETROLEUM COMPANY
Well	SHERWOOD L30-30D
Field	WATTENBERG
County	WELD
State	COLORADO
Location:	API # : 05-123-31127
	NW NW
	SEC 30 TWP 3N RGE 66W
Other Services	NONE

					Elevation
Permanent Datum	GL	Elevation	4820'	K.B.	4832'
Log Measured From	KB	12'	Above Perm. Datum	D.F.	
Drilling Measured From	KB			G.L.	4820'

Date of Service	18-NOVEMBER-2023
Run Number	ONE
Depth Driller or PBTD	8113'
Depth Logger	NA
Bottom Log Interval	3600'
Top Log Interval	SURFACE
Open Hole Size	NA
Type Fluid	WATER
Fluid Level	FULL
Fluid Density	NA
Max. Recorded Temperature	SEE LOG
Max. Wellhead Pressure	ZERO
Wellhead Connection	NA
Estimated Cement Top	SEE LOG
Unit Number	3791
Wireline Size	1/4"
Location	FT MORGAN
Recorded By	P COOPER
Witnessed By	V.ILDEFONSO

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8-5/8"	24#	SURFACE	655'
Production Casing	4-1/2"	11.6#	SURFACE	8103'
Liner Record				

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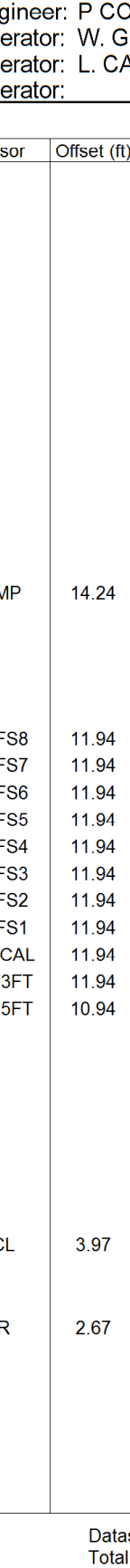
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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.
CORRALATED TO PREVIOUS LOG

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: P COOPER Operator: W. GROSZ Operator: L. CASTILLO Operator:	SCBL	

Sensor	Offset (ft)	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
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
TEMP	14.24					
WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVFCAL WVF3FT WVF5FT	11.94 11.94 11.94 11.94 11.94 11.94 11.94 11.94 11.94 11.94 10.94		PROBE-RBT-DIGITAL-RBL-DCT (FW1210-40) Probe 2 3/4" Radii Bond with Temp-Corrosion Package	9.21	2.75	105.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
CCL	3.97					
GR	2.67		PROBE-GR/CCL-DIGITAL-275 Probe GR-CCL (070529) Probe 2 3/4" Gamma Ray / CCL DIGITAL	4.54	2.75	60.00
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00

Dataset: oxy_sherwoodl30-30d_0512331127_11182023_rcbl.db: field/well/run1/pass5.1
Total length: 20.88 ft
Total weight: 198.00 lb
O.D.: 2.75 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\oxy_sherwoodl30-30d_0512331127_11182023_rcbl.db
Dataset field/well/run1/pass5.1/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV
TEMP	7.875	100	4.5	0.304	11.6	0	1

MINATTN db/ft	PERFS	PPT usec	SRFTEMP degF	TDEPTH ft
0.8	No	0	0	0

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

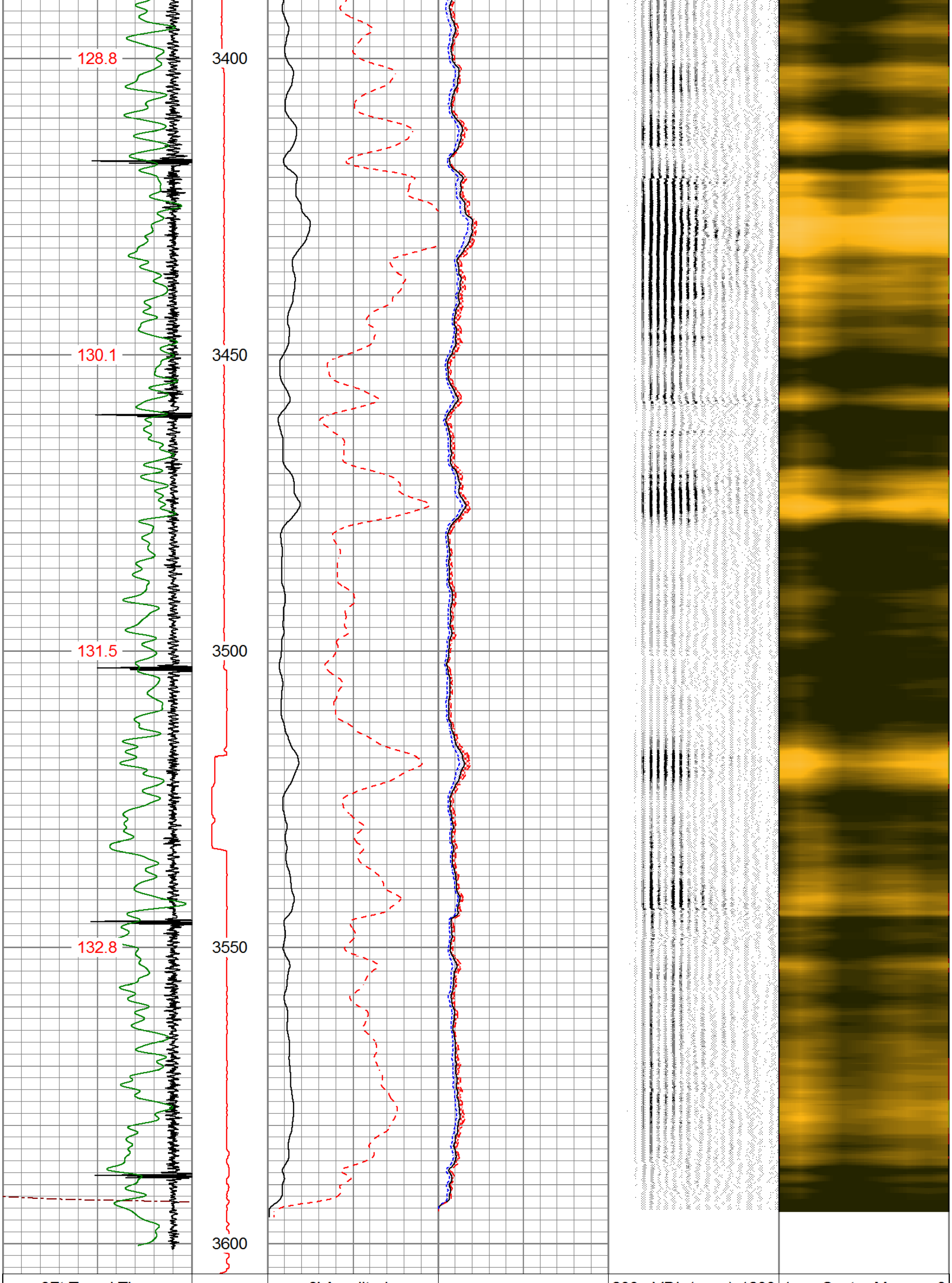
AXIS ENERGY SERVICES

MAIN LOG

ZERO PSI APPLIED AT SURFACE

Database File	oxy_sherwoodl30-30d_0512331127_11182023_rcbl.db
Dataset Pathname	pass5.1
Presentation Format	pinr_scbl
Dataset Creation	Sat Nov 18 08:58:49 2023
Charted by	Depth in Feet scaled 1:240

3Ft Travel Time: 275 (usec) 175
Collar Locator: -9 1
Gamma Ray: 0 (GAPI) 150
TEMP (degF)
LineTension (lb): 0 500
3' Amplitude: 0 (mV) 100
3' Amplified Amplitude X 5: 0 (mV) 20
Sector Amplitude Average: 0 150
Sector Amplitude Maximum: 0 150
Sector Amplitude Minimum: 0 150
VDL (usec): 200 1200
Sector Map: 1 8



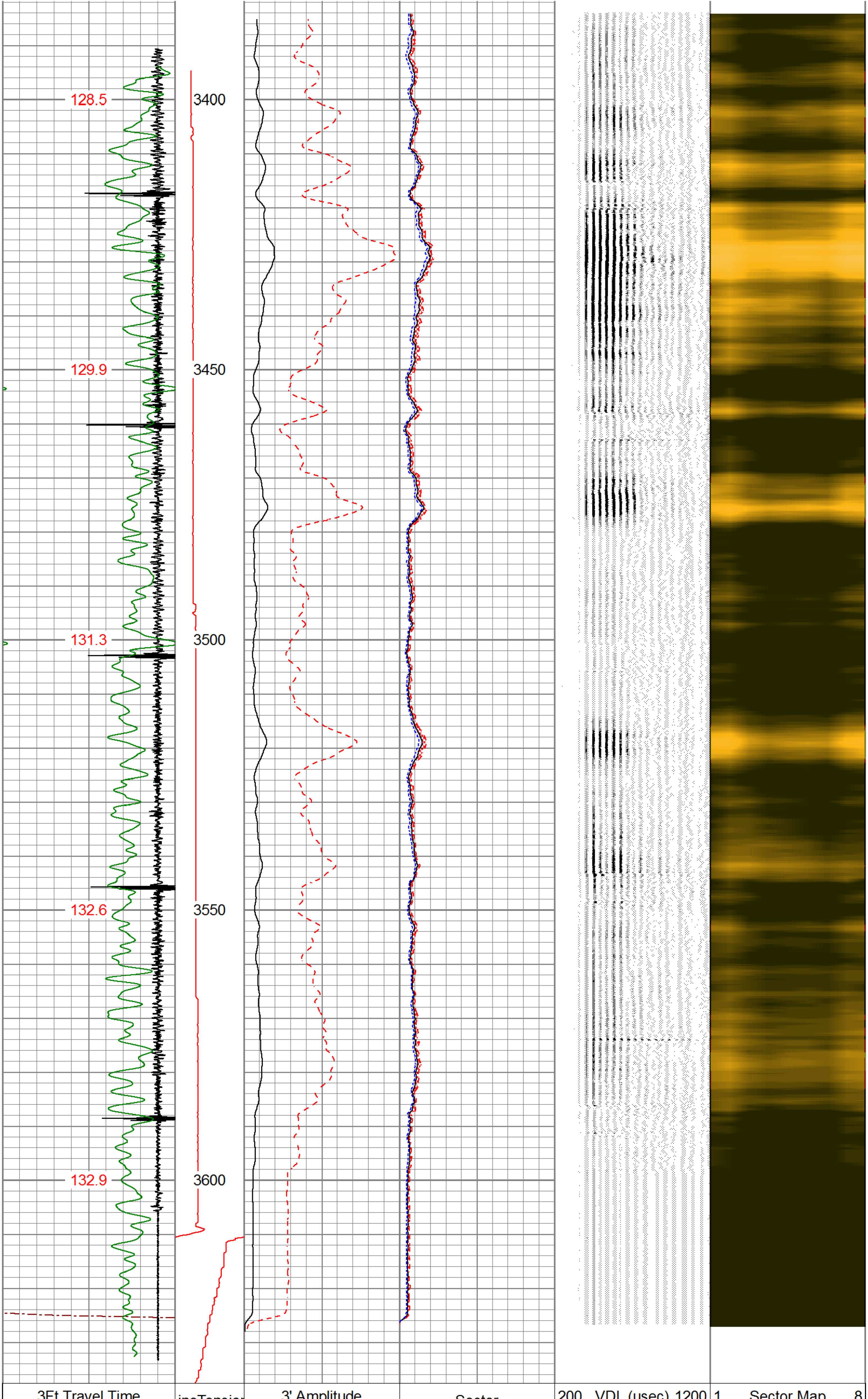
3Ft Travel Time	LineTension	3' Amplitude	Sector Amplitude Average	200 VDL (usec) 1200	1 Sector Map 8
275 (usec) 175	(lb)	0 (mV) 100	0 150		
-9 Collar Locator 1	0 500	3' Amplified Amplitude X 5	Sector Amplitude Maximum		
Gamma Ray 0 (GAPI) 150		0 (mV) 20	0 150		
TEMP (degF)			Sector Amplitude Minimum 0 150		

REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File oxy_sherwoodl30-30d_0512331127_11182023_rcbl.db
Dataset Pathname pass4
Presentation Format pinr_scbl
Dataset Creation Sat Nov 18 08:09:21 2023
Charted by Depth in Feet scaled 1:240

3Ft Travel Time	LineTension	3' Amplitude	Sector Amplitude Average	200 VDL (usec) 1200	1 Sector Map 8
275 (usec) 175	(lb)	0 (mV) 100	0 150		
-9 Collar Locator 1	0 500	3' Amplified Amplitude X 5	Sector Amplitude Maximum		
Gamma Ray 0 (GAPI) 150		0 (mV) 20	0 150		
TEMP (degF)			Sector Amplitude Minimum 0 150		



3Ft Travel Time	LineTension	3' Amplitude	Sector Amplitude Average	200 VDL (usec) 1200	1 Sector Map 8
275 (usec) 175	(lb)	0 (mV) 100	0 150		
-9 Collar Locator 1	0 500	3' Amplified Amplitude X 5	Sector Amplitude Maximum		
Gamma Ray 0 (GAPI) 150		0 (mV) 20	0 150		
TEMP (degF)			Sector Amplitude Minimum 0 150		

Calibration Report

Database File oxy_sherwoodl30-30d_0512331127_11182023_rcbl.db
Dataset Pathname pass5.1
Dataset Creation Sat Nov 18 08:58:49 2023

Gamma Ray Calibration Report

Serial Number:	070529	
Tool Model:	275 Probe GR-CCL	
Performed:	(Not Performed)	
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:	FW1210-40	
Tool Model:	RBL-DCT	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	0.000	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.153	0.700	81.196	69.820	0.700
CAL	1.518	1.529				
5'	0.000	1.023	0.700	81.196	78.710	0.700
SUM						
S1	-0.001	1.136	0.000	100.000	87.926	0.123
S2	0.000	1.201	0.000	100.000	83.270	-0.001
S3	-0.000	1.311	0.000	100.000	76.300	0.004
S4	0.000	1.526	0.000	100.000	65.513	-0.001
S5	-0.005	1.578	0.000	100.000	63.166	0.296
S6	-0.005	1.423	0.000	100.000	70.025	0.369
S7	-0.002	1.191	0.000	100.000	83.813	0.158
S8	-0.002	1.087	0.000	100.000	91.834	0.144

Air Zero Calibration, performed Sat Nov 18 07:32:36 2023:

	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: FW1210-40
Tool Model: RBL-DCT
Performed: Sat Oct 19 07:13:49 2019

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

Gain: 0.83
Offset: 0.00
Delta Spacing 1

Company	ANADARKO PETROLEUM COMPANY
Well	SHERWOOD L30-30D
Field	WATTENBERG
County	WELD
State	COLORADO