RADIAL BOND LOG WITH GAMMA RAY

AXIS ENERGY SERVICES

Comp.	ANADARKO PETROLEUM COMPANY
Well	HSR-COGBURN 2-29A
Field	WATTENBERG
Co.	WELD
State	COLORADO

Company ANADARKO PETROLEUM COMPANY
Well HSR-COGBURN 2-29A
Field WATTENBERG
County WELD **State** COLORADO

Location: API # : 05-123-19181
SW NE
SEC 29 TWP 3N RGE 67W

Other Services: NONE

Permanent Datum GL Elevation 4790'
Log Measured From KB 11' Above Perm. Datum
Drilling Measured From KB

Elevation
K.B. 4790'
D.F.
G.L. 4779'

Date of Service	17-OCT-2025
Run Number	ONE
Depth Driller or PBTD	7927'
Depth Logger	4200'
Bottom Log Interval	4200'
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	PLATTEVILLE, CO
Recorded By	P COOPER
Witnessed By	V.ILDEFONSO

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8-5/8"	24#	SURFACE	590'
Production Casing	4-1/2"	11.6#	SURFACE	7563'
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.
CORRELATED TO PREVIOUS LOG

THANK YOU FOR USING PIONEER ENERGY SERVICES!

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

Sensor	Offset (ft)	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	11.94	PROBE-RBT-DIGITAL-RBL-DCT (070641) Probe 2 3/4" Radii Bond with Temp-Corrosion Package	9.21	2.75	105.00
WVFS7	11.94				
WVFS6	11.94				
WVFS5	11.94				
WVFS4	11.94				
WVFS3	11.94				
WVFS2	11.94				
WVFS1	11.94				
WVFCAL	11.94				
WVF3FT	11.94				
WVF5FT	10.94				
HEADVOLT	7.76				
		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_hsr-cogburn 2-29a_0512319181_4200ft-surface_0psi_101725.db: field/well/run1/pass4
Total length: 20.88 ft
Total weight: 198.00 lb
O.D.: 2.75 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\oxy_hsr-cogburn 2-29a_0512319181_4200ft-surface_0psi_
Dataset field/well/run1/pass4/_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

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MAIN LOG

ZERO PSI APPLIED AT SURFACE

Database File	oxy_hsr-cogburn 2-29a_0512319181_4200ft-surface_0psi_101725.db
Dataset Pathname	pass4
Presentation Format	pinr_scbl
Dataset Creation	Fri Oct 17 13:50:17 2025
Charted by	Depth in Feet scaled 1:240

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

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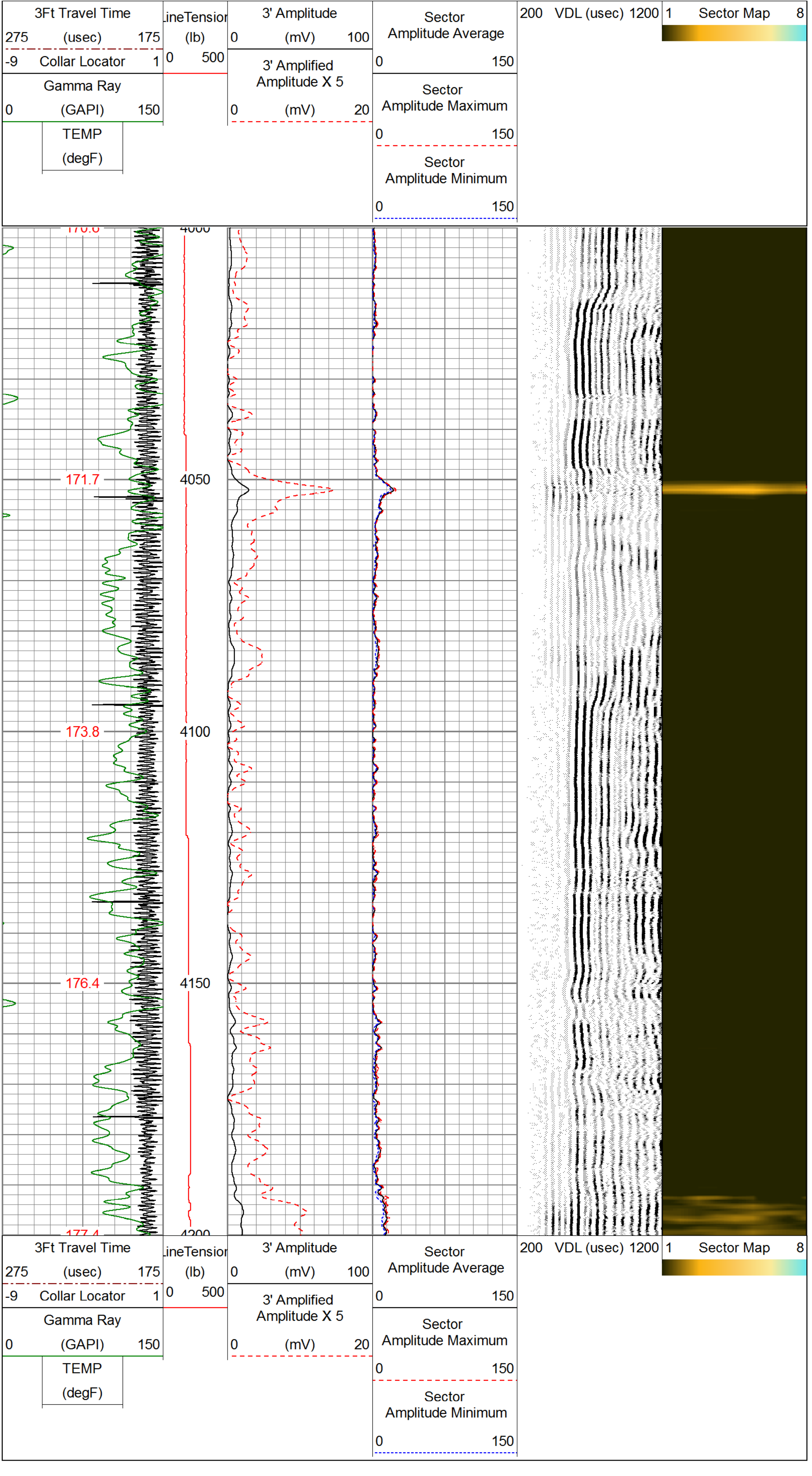
REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File	oxy_hsr-cogburn 2-29a_0512319181_4200ft-surface_0psi_101725.db
Dataset Pathname	pass3
Presentation Format	pinr_scbl
Dataset Creation	Fri Oct 17 13:46:20 2025
Charted by	Depth in Feet scaled 1:240

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



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Gamma Ray		0 (mV) 20	0 150		
0 (GAPI) 150			Sector Amplitude Minimum		
TEMP (degF)			0 150		

Calibration Report

Database File	oxy_hsr-cogburn 2-29a_0512319181_4200ft-surface_0psi_101725.db
Dataset Pathname	pass3
Dataset Creation	Fri Oct 17 13:46:20 2025

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:	070641	
Tool Model:	RBL-DCT	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	3343.633	ft

Master Calibration, performed Fri Oct 17 13:39:39 2025:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.018	0.987	0.700	81.196	83.084	-0.779
CAL	1.266	1.304				
5'	0.018	0.836	0.700	81.196	98.399	-1.033
SUM						
S1	0.013	0.944	0.000	100.000	107.425	-1.383
S2	0.016	0.945	0.000	100.000	107.713	-1.757
S3	0.017	0.984	0.000	100.000	103.395	-1.709
S4	0.016	1.006	0.000	100.000	100.944	-1.592
S5	0.015	1.025	0.000	100.000	99.047	-1.528
S6	0.015	1.062	0.000	100.000	95.473	-1.425
S7	0.014	1.050	0.000	100.000	96.474	-1.325
S8	0.015	0.977	0.000	100.000	103.941	-1.556

Air Zero Calibration, performed Fri Oct 17 12:43:10 2025:

	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:	070641	
Tool Model:	RBL-DCT	
Performed:	(Not Performed)	
	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	1.00 degF	1.00 degF
Gain:	1.00	
Offset:	0.00	
Delta Spacing	1	

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Company	ANADARKO PETROLEUM COMPANY
Well	HSR-COGBURN 2-29A
Field	WATTENBERG
County	WELD
State	COLORADO