Company ANADARKO PETROLEUM CORP
Well MIRACLE 10-12
Field WATTENBERG
County LARIMER
State CO

NEXTIER
COMPLETION SOLUTIONS

RADIAL BOND LOG
GAMMA RAY / CCL
CEMENT BOND / VDL

Company	ANADARKO PETROLEUM CORP		
Well	MIRACLE 10-12		
Field	WATTENBERG		
County	LARIMER	State	CO

Location: API # : 0506906407

2484' FSL & 2611' FEL

SEC 12 TWP 5N RGE 68W

Other Services

Permanent Datum	GL	Elevation	4963'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4979'
D.F. 4978'
G.L. 4963'

Date	24 MARCH 2020
Run Number	ONE
Depth Driller	7965'
Depth Logger	990'
Bottom Logged Interval	990'
Top Log Interval	SURFACE
Casing Size	4 1/2 11.6#
Type Fluid	WATER
Max. Recorded Temp.	N/A
Estimated Cement Top	---
Time Well Ready	8:30am
Time Logger On Bottom	9:00am
Unit Number	20054
Tool Size / ID Number	2.75 RBL
Location	HWY 34 & CR 3
Recorded By	MICHAEL RAMSEY
Witnessed By	NATE WINDHOLZ

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8"	24 #	SURFACE	684'
Prot. String				
Production String	4-1/2"	11.6 #	SURFACE	7953'
Liner				

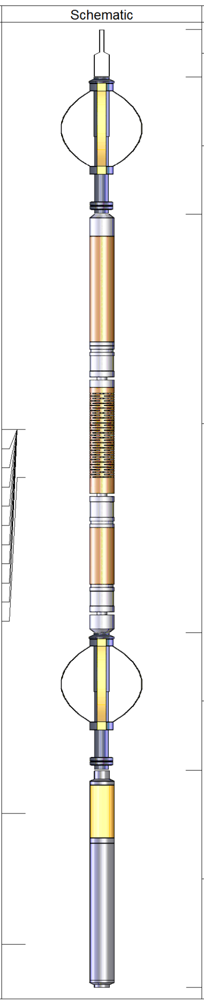
<<< Fold Here >>>

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

THANK YOU FOR USING NEXTIER COMPLETION SOLUTIONS!

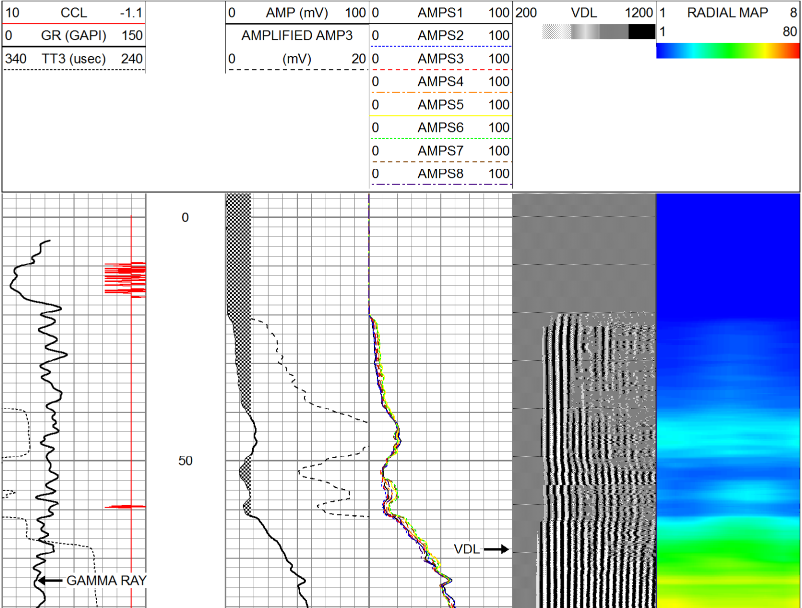
LOG NOT CORRELATED USED 16' KB

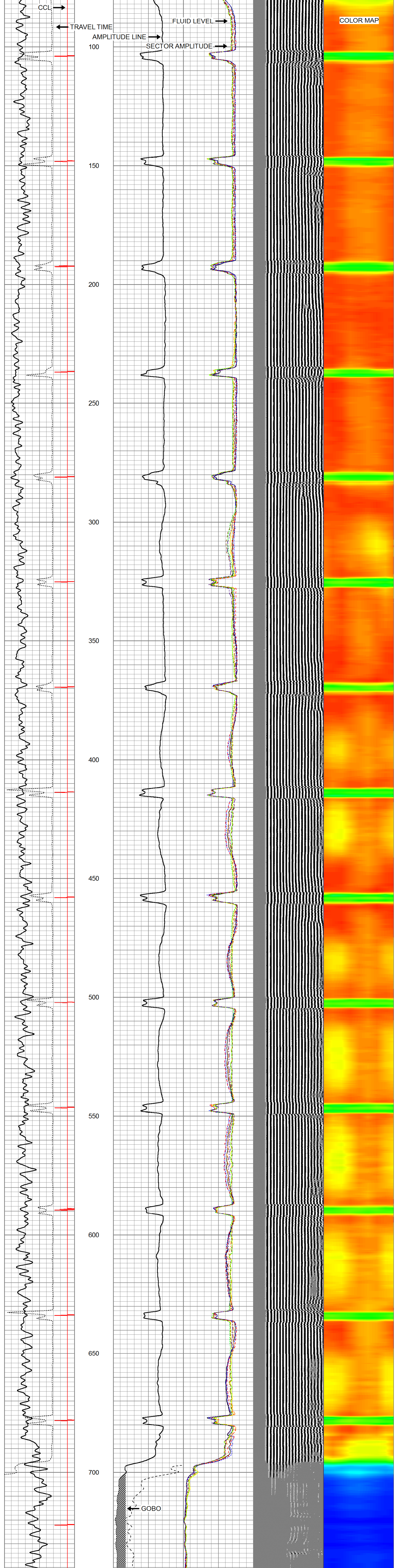


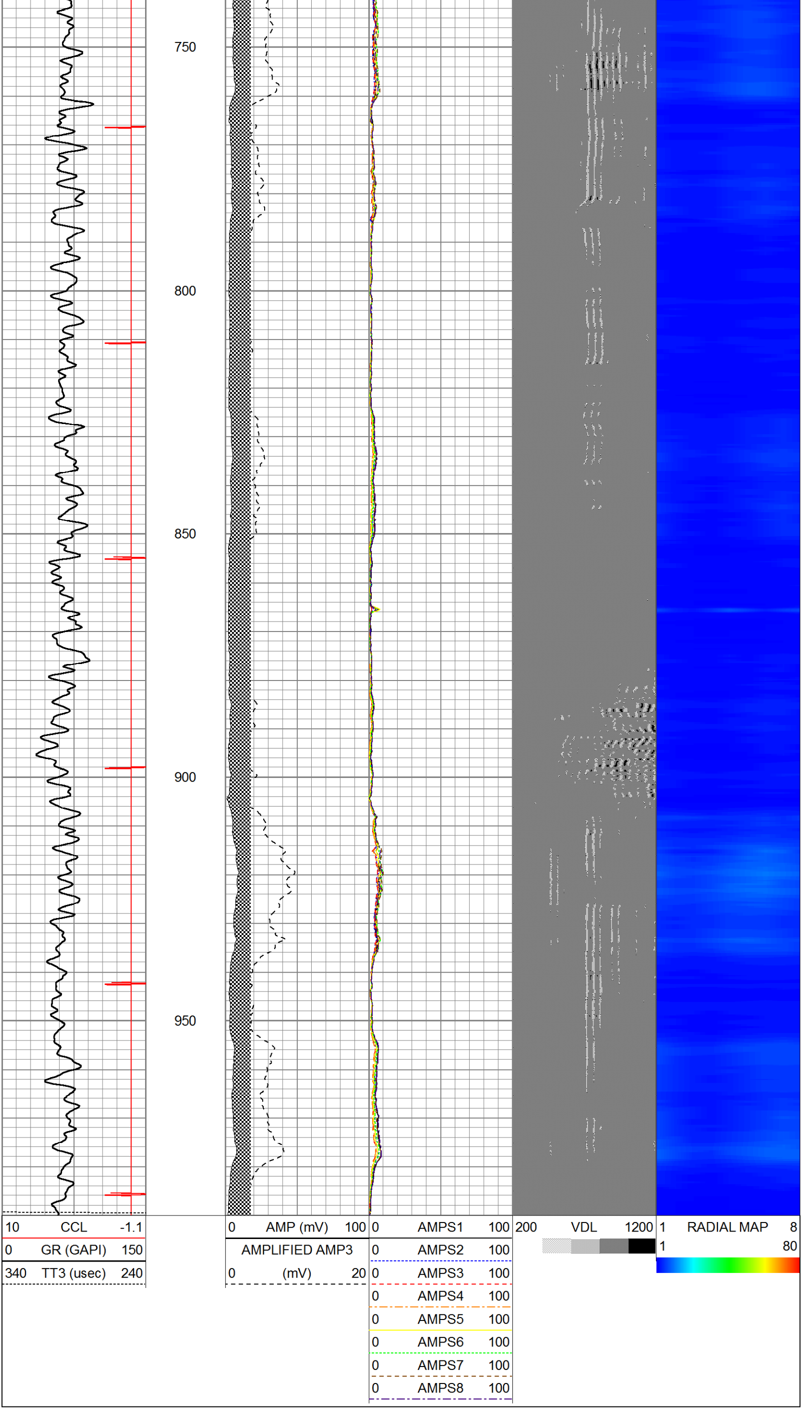
Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	10.00
		Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 10.67	RBT-Probe (101020) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
		Probe Probe 2 3/4 Centralizer	2.88	2.75	20.00
CCL	3.63	GR-Probe275dig (101010) Probe Gamma CCL	4.54	2.75	57.00
GR	0.90				

Dataset:	miracle 10-12 oxy rbl.db: field/well/run1/pass2
Total Length:	20.04 ft
Total Weight:	197.00 lb
O.D.	2.75 in

Database File:	miracle 10-12 oxy rbl.db
Dataset Pathname:	pass2
Presentation Format:	zwag
Dataset Creation:	Tue Mar 24 09:04:01 2020 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240







Calibration Report

Database File: miracle 10-12 oxy rbl.db
Dataset Pathname: pass2
Dataset Creation: Tue Mar 24 09:04:01 2020 by Log 7.0 B1

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION Fri Dec 28 09:41:10 2018

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			GAPI/cps

PRIMARY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 101020
Tool Model: Probe

Calibration Casing Diameter: 4.500 in
Calibration Depth: 4551.200 ft

Master Calibration, performed Mon Mar 23 12:39:59 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.012	1.468	1.500	81.196	53.867	2.120
CAL	-0.012	1.644				
5'	-0.012	1.264	1.500	81.196	62.456	2.245
SUM						
S1	-0.011	1.686	0.000	81.921	48.247	0.554
S2	-0.011	1.666	0.000	81.921	48.840	0.554
S3	-0.012	1.542	0.000	81.921	52.715	0.618
S4	-0.011	1.374	0.000	81.921	59.130	0.679
S5	-0.012	1.226	0.000	81.921	66.179	0.773
S6	-0.012	1.215	0.000	81.921	66.801	0.771
S7	-0.012	1.374	0.000	81.921	59.123	0.686
S8	-0.012	1.621	0.000	81.921	50.179	0.582

Internal Reference Calibration, performed Fri Jan 13 14:30:16 2012:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.012	1.644	1.000	0.000

Air Zero Calibration, performed Tue Feb 25 13:16:04 2014:

	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