Patterson

Sector Bond Log

Company El Paso Energy
Well VPRD-31
Field Castle Rock
County Colfax
State NM

Company El Paso Energy Raton L.L.C.
Well VPRD-31
Field Castle Rock
County Colfax State NM
Location 1048' FNL & 2335' FWL
SEC. 16 TWP. 30N RGE. 18E
Other Services

Permanent Datum Ground Level Elevation 8256'
Log Measured From Ground Level
Drilling Measured From Ground Level
Elevation K.B. ---- D.F. ---- G.L. 8256'

Date	4-3-01
Run Number	One
Depth Driller	2242'
Depth Logger	2237'
Bottom Logged Interval	2233'
Top Log Interval	Surface
Open Hole Size	7 7/8"
Type Fluid	Water
Density / Viscosity	
Max. Recorded Temp.	107 Deg. F
Estimated Cement Top	Surface
Time Well Ready	Portable Mast
Time Logger on Bottom	10:45
Equipment Number	00
Location	Weston
Recorded By	Funk
Witnessed By	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
One	11"	0	316'				
Two	7 7/8"	0	2290'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"		0	303'
Prot. String				
Production String	5 1/2"		0	2242'
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.

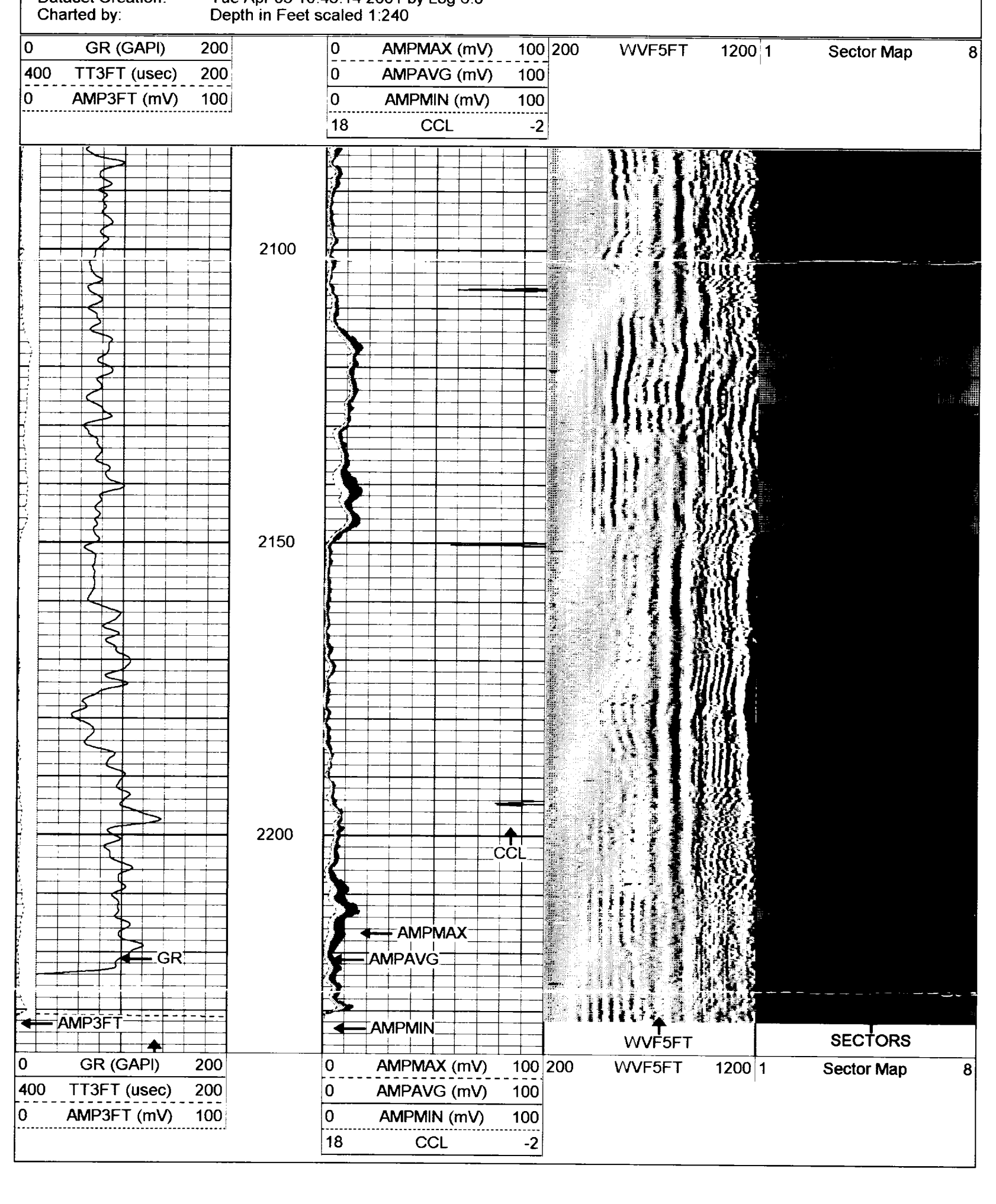
Comments

Patterson Main Pass

Database File: vd31sb.db
Dataset Pathname: pass2
Presentation Format: sector
Dataset Creation: Tue Apr 03 10:54:14 2001 by Log 6.0
Charted by: Depth in Feet scaled 1:240

Patterson Repeat Section

Database File: vd31sb.db
Dataset Pathname: pass1
Presentation Format: sector
Dataset Creation: Tue Apr 03 10:48:14 2001 by Log 6.0
Charted by: Depth in Feet scaled 1:240



Segmented Cement Bond Log Calibration Report

Serial Number:	ARTEX325S	
Tool Model:	X	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	1259.802	ft

Master Calibration, performed Tue Apr 03 08:38:32 2001:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3' CAL	-0.008	2.447	0.500	71.921	29.083	0.747
5' SUM	-0.081	4.463	0.000	71.921	15.825	1.285
S1	-0.022	2.130	0.000	85.000	39.507	0.859
S2	-0.034	2.856	0.000	85.000	29.411	0.998
S3	-0.012	2.283	0.000	85.000	37.034	0.453
S4	-0.014	2.172	0.000	85.000	38.888	0.533
S5	-0.026	2.571	0.000	85.000	32.722	0.863
S6	-0.021	2.427	0.000	85.000	34.716	0.738
S7	-0.042	2.797	0.000	85.000	29.948	1.248
S8	-0.032	2.891	0.000	85.000	29.086	0.922

Internal Reference Calibration, performed Thu Jan 01 00:00:00 1970:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed Thu Mar 29 10:57:02 2001:

	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

Gamma Ray Calibration Report

Serial Number:	ARTEX325S	
Tool Model:	X	
Performed:	Tue Mar 06 12:14:48 2001	
Calibrator Value:	200	GAPI
Background Reading:	90	cps
Calibrator Reading:	301	cps
Sensitivity:	1	GAPI/cps