30-30N-18E

Patterson

Sector Bond Log

Company	El Paso Energy Raton L.L.C.
Well	VPRD-64
Field	Castle Rock
County	Colfax
State	NM

Location: 14' FSL & 1981' FEL

SEC. ~~26~~ 30 TWP. ~~32N~~ 30N RGE. ~~20E~~ 18E

Other Services

Permanent Datum: Ground Level Elevation 8652'
Log Measured From: Ground Level
Drilling Measured From: Ground Level

Elevation
K.B. —
D.F. —
G.L. 8652'

Company El Paso Energy
Well VPRD-64
Field Castle Rock
County Colfax
State NM

Date	4-2-01
Run Number	One
Depth Driller	2007'
Depth Logger	2004'
Bottom Logged Interval	2000'
Top Log Interval	Surface
Open Hole Size	7 7/8"
Type Fluid	Water
Density / Viscosity	
Max. Recorded Temp.	95 Deg. F
Estimated Cement Top	Surface
Time Well Ready	Portable Mast
Time Logger on Bottom	15:40
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	326'				
Two	7 7/8"	0	2085'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"		0	321'
Prot. String				
Production String	5 1/2"		0	2007'
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

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Main Pass

Database File: vd64sb.db
Dataset Pathname: pass2
Presentation Format: sector
Dataset Creation: Mon Apr 02 15:51:43 2001 by Log 6.0
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 200	0 AMPMAX (mV) 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG (mV) 100		
0 AMP3FT (mV) 100	0 AMPMIN (mV) 100		
	18 CCL -2		

0 GR (GAPI) 200	0 AMPMAX (mV) 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG (mV) 100		
0 AMP3FT (mV) 100	0 AMPMIN (mV) 100		
	18 CCL -2		

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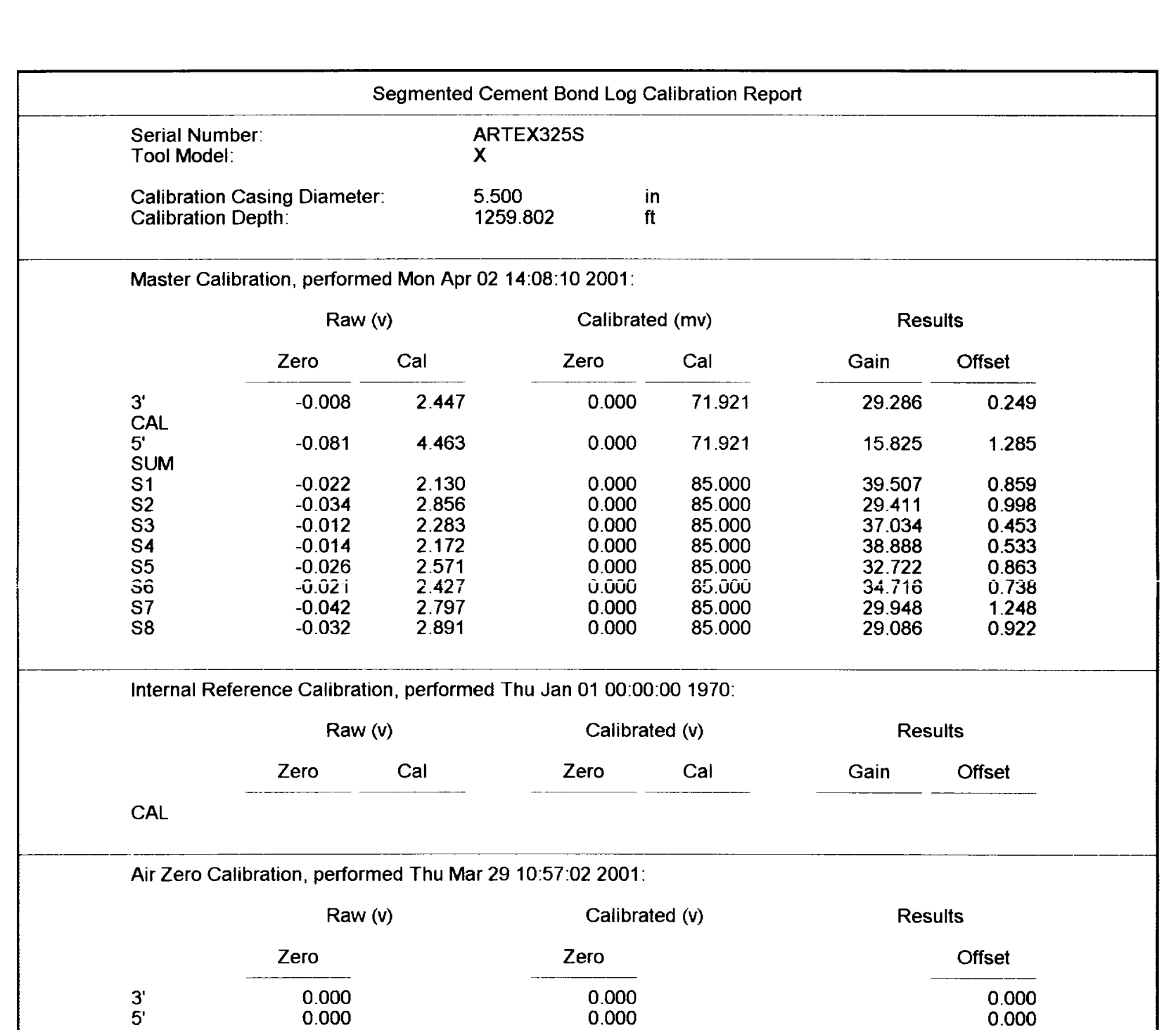
Repeat Section

Database File: vd64sb.db
Dataset Pathname: pass1
Presentation Format: sector
Dataset Creation: Mon Apr 02 15:45:59 2001 by Log 6.0
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 200	0 AMPMAX (mV) 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG (mV) 100		
0 AMP3FT (mV) 100	0 AMPMIN (mV) 100		
	18 CCL -2		



0 GR (GAPI) 200	0 AMPMAX (mV) 100	200 WVF5FT 1200	1 Sector Map 8
400 TT3FT (usec) 200	0 AMPAVG (mV) 100		
0 AMP3FT (mV) 100	0 AMPMIN (mV) 100		
	18 CCL -2		

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 Mon Apr 02 14:08:10 2001:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.008	2.447	0.000	71.921	29.286	0.249
CAL						
5'	-0.081	4.463	0.000	71.921	15.825	1.285
SUM						
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