



DUAL SPACED CEMENT BOND LOG

Interpretations are all

Company	CRUSADER ENERGY, LLC
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Well	DUNIVAN 1-11
Field	WINDMILL

County	BACA	State	COLORADO	Other Services
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SEC 11 TWP 32 RGE 43W

Permanent Datum	Elevation
Log Measured From	3856
Drilling Measured From	K.B. 3867
	D.F. 3866
	G.L. 3866

	4-25-08			
Number	ONE			
Critter	3350			
owner	3362			
owner	3362			

in Logged Interval	3362			in electrical
og Interval	2200			ase of gross
g Size	4 1/2"			
fluid	WATER			

Recorded Temp.	Well Ready	ated Cement Top	by Viscosity
2450			

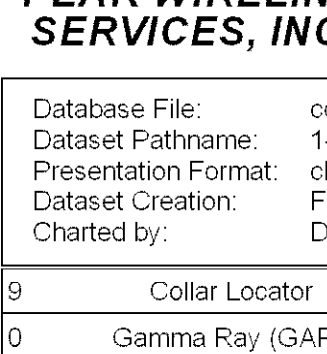
ment Number	TR-117		
on	CHEYENNE WELLS, CO		
ided By	HENDERSON		
	POULSON		

Borehole Record		Tubing Record		
Number	Bit From To	Size	Weight From To	
ONE	17 1/2" 0 254			
TWO	7 7/8" 854 3350			

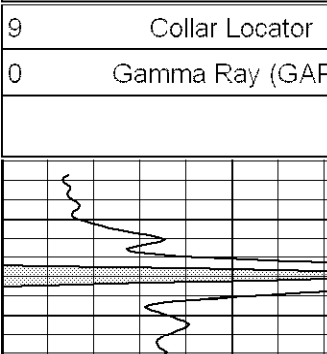
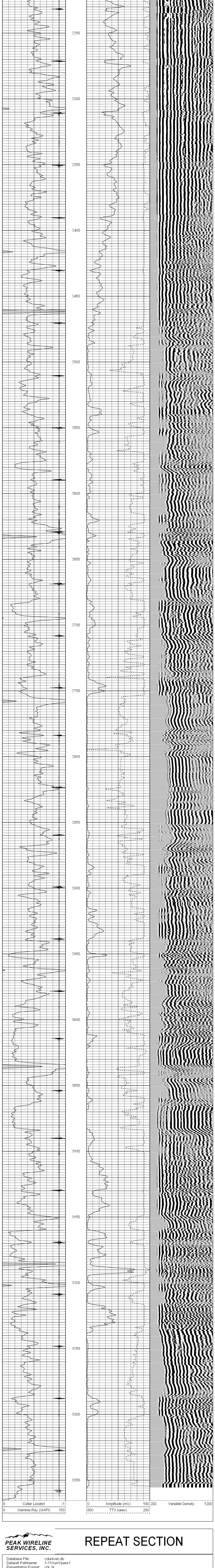
Record	Size	Waist	Top	Bottom
6 String	13 3/8"	36"	0	854

Condition String	4 1/2"	10.5#	0	3350	<<< F
					All interior of any

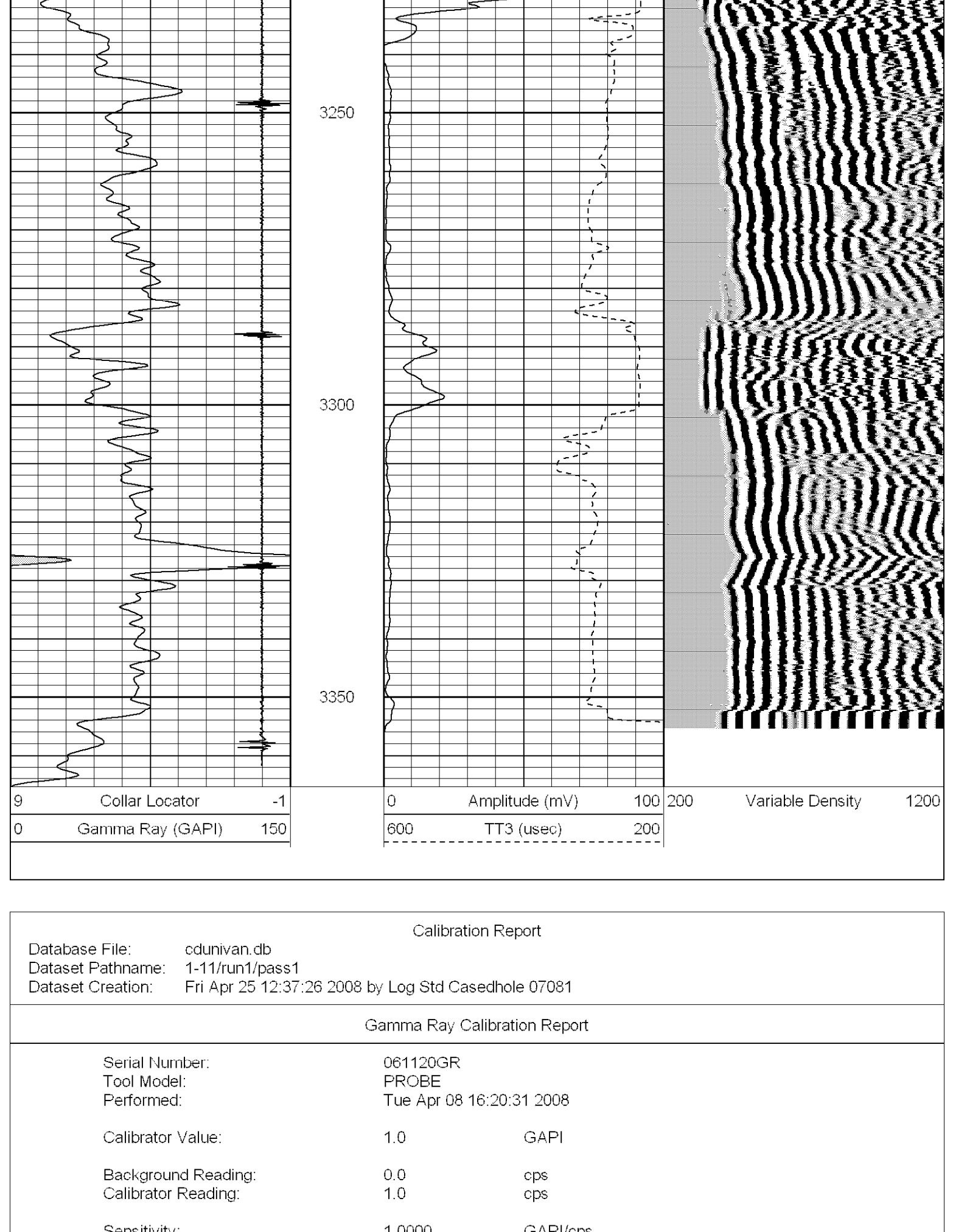
expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.
Comments



0	Amplitude (mV)	100	200
600	TT3 (usec)	200	



0	Amplitude (mV)	100	200	Variable De
600	TT3 (usec)	200		



Cement Bond Lo

Serial Number:	602
Tool Model:	Pengo
Performed:	Fri Apr 25 12:34:24 2008
Depth:	433.659 ft

4.5 in

3' Spacing 5' Spacing

Signal Zero:	1	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.00893555	0.00205078	V
Reading in Free Pipe:	1.88152	1.70437	V

Gain:	42.8265	47.6973
Offset:	0.617322	-0.0978168