A PLUS
WELL SERVICE
Farmington, N.M.

CEMENT BOND LOG AMPLITUDE/GAMMA RAY/CCL FINAL PRINT

Company	KINDER MORGAN
Well	COTTONWOOD CANYON UNIT # 6X
Field	ABO REEF
County	CATRON
State	NEW MEXICO

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Well COTTONWOOD CANYON UNIT # 6X
Field ABO REEF
County CATRON **State** NEW MEXICO

Location: API # : 30-003-20033

381' FNL & 229' FWL

SEC 10 TWP 1N RGE 21W

Other Services

Permanent Datum	GROUND LEVEL	Elevation	6802'
Log Measured From	RKB 12'		
Drilling Measured From	RKB 12'		

Elevation
K.B. 6814'
D.F. N/A
G.L. 6802'

Date	7/26/17		
Run Number	ONE		
Depth Driller	3033'	PBTD 3028'	
Depth Logger	2400'		
Bottom Logged Interval	2400'		
Top Log Interval	700'		
Open Hole Size	4 3/4"		
Type Fluid	H20		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	SEE LOG		
Time Well Ready	12:50		
Time Logger on Bottom	1:00		
Equipment Number	420/26/PROBE3/GR		
Location	FARMINGTON		
Recorded By	S.HATCH		
Witnessed By	MR.P.MCNIEL		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13 3/4"	54#	SURF.	110'
Prot. String	8 5/8"	36#	SURF.	950'
Production String	5 1/2"	15.5#	SURF.	1724'
Liner				
PRODUCTION	2 7/8"	N/A	SURF.	3028'

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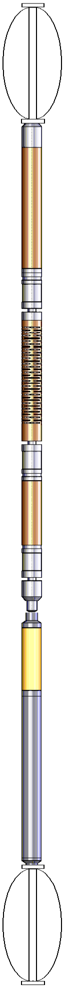
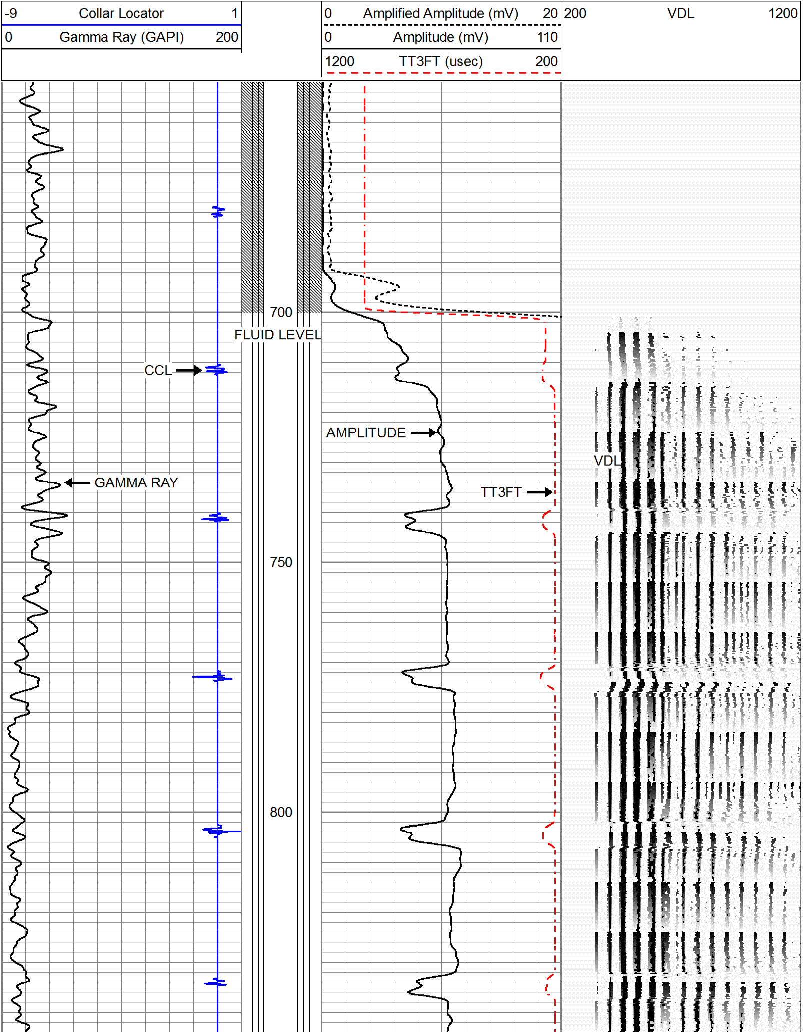
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

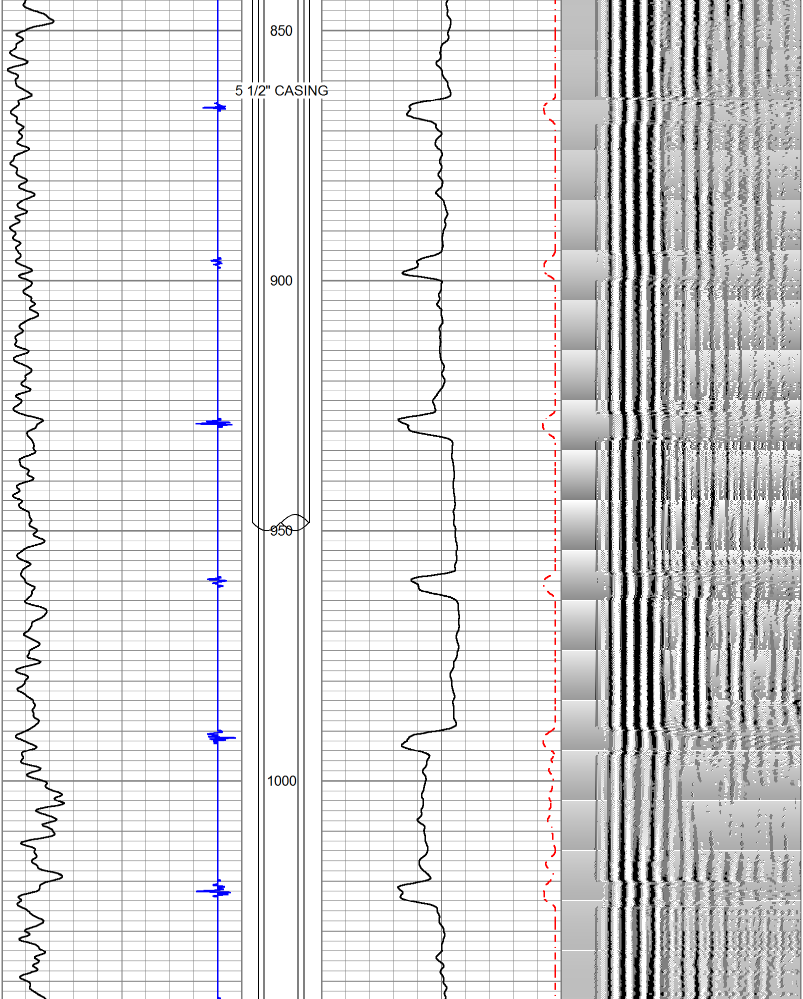
Comments

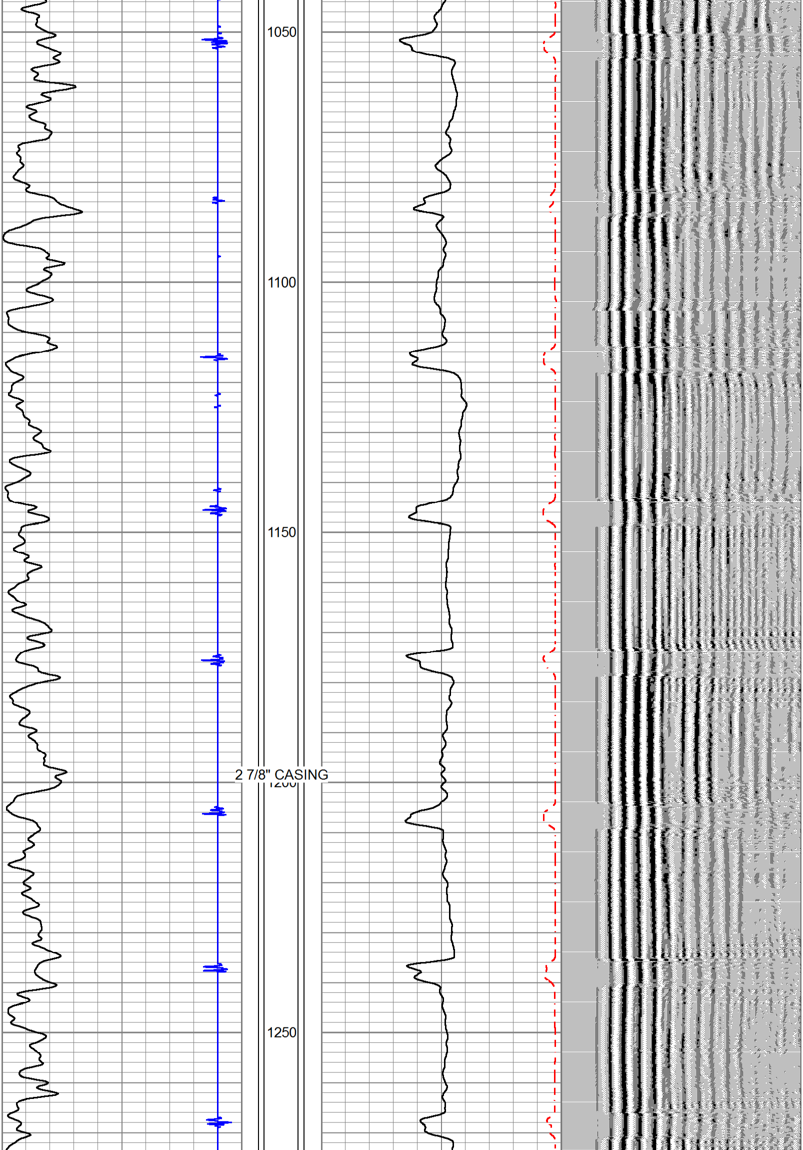
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CSSROLLER	2.20	1.69	4.41
			CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5FT	9.97					
WVFSYNC	6.78					
CCL	5.84					
			Probe (275) Probe 2.75" 4 Channel Pulse	4.58	2.75	30.00
GR	3.10					
HEADVOLT	2.20					
			CSSROLLER	2.20	1.69	4.41

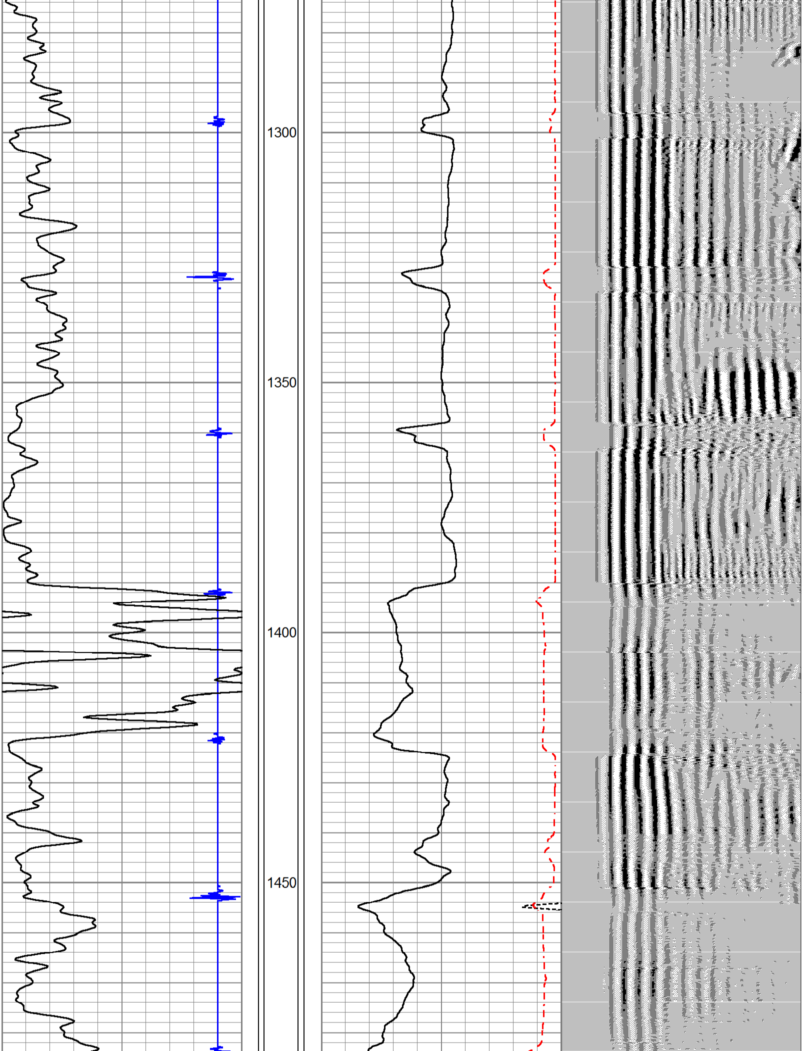
Dataset:	cttnwd6x.db: field/well/run1/pass4.1
Total length:	17.90 ft
Total weight:	98.82 lb
O.D.:	2.75 in

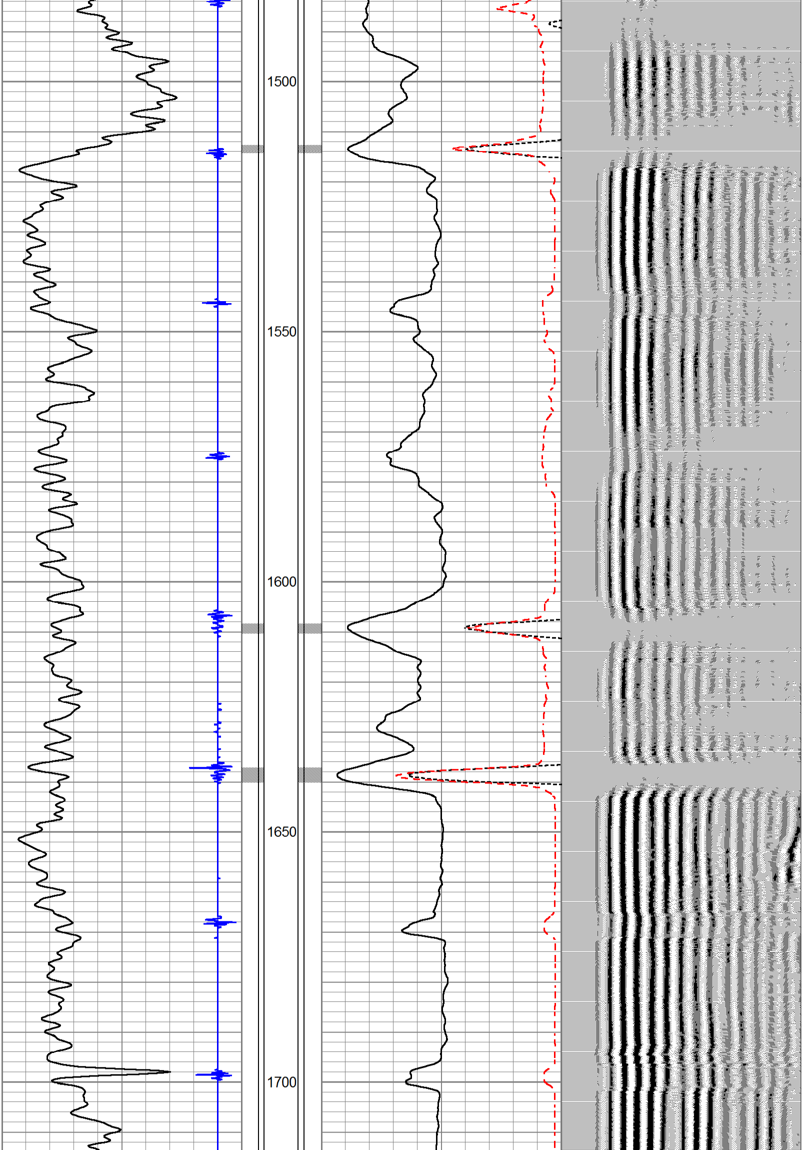
Database File	cttnwd6x.db
Dataset Pathname	pass4.1
Presentation Format	4
Dataset Creation	Wed Jul 26 14:05:10 2017
Charted by	Depth in Feet scaled 1:240

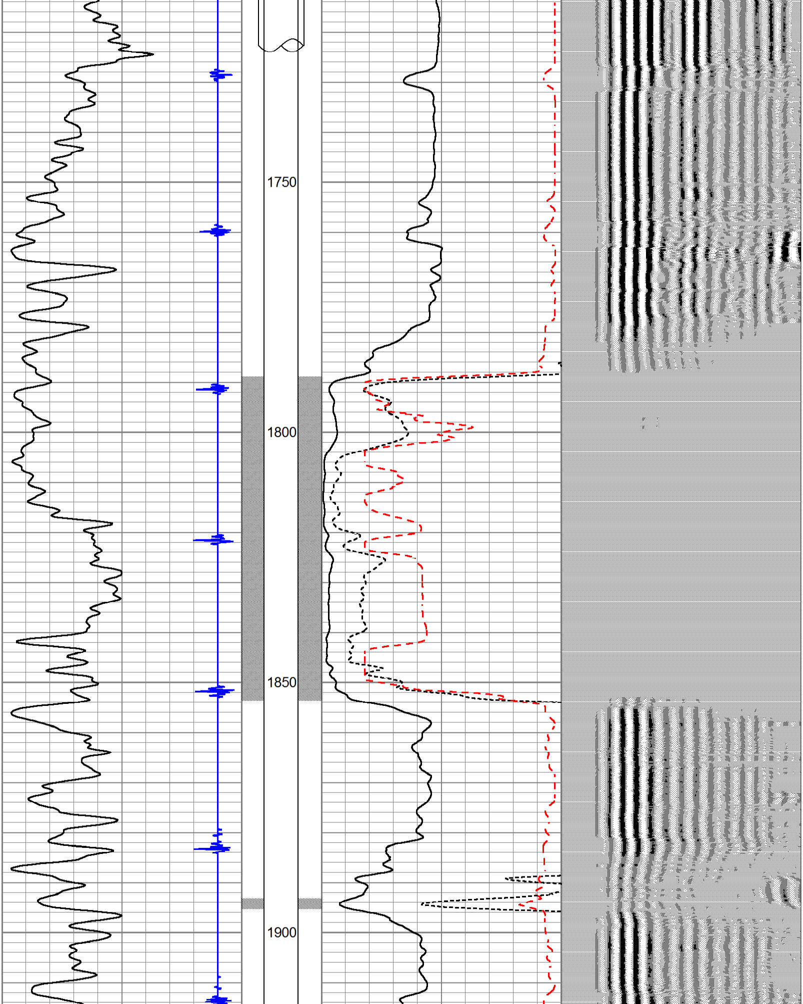


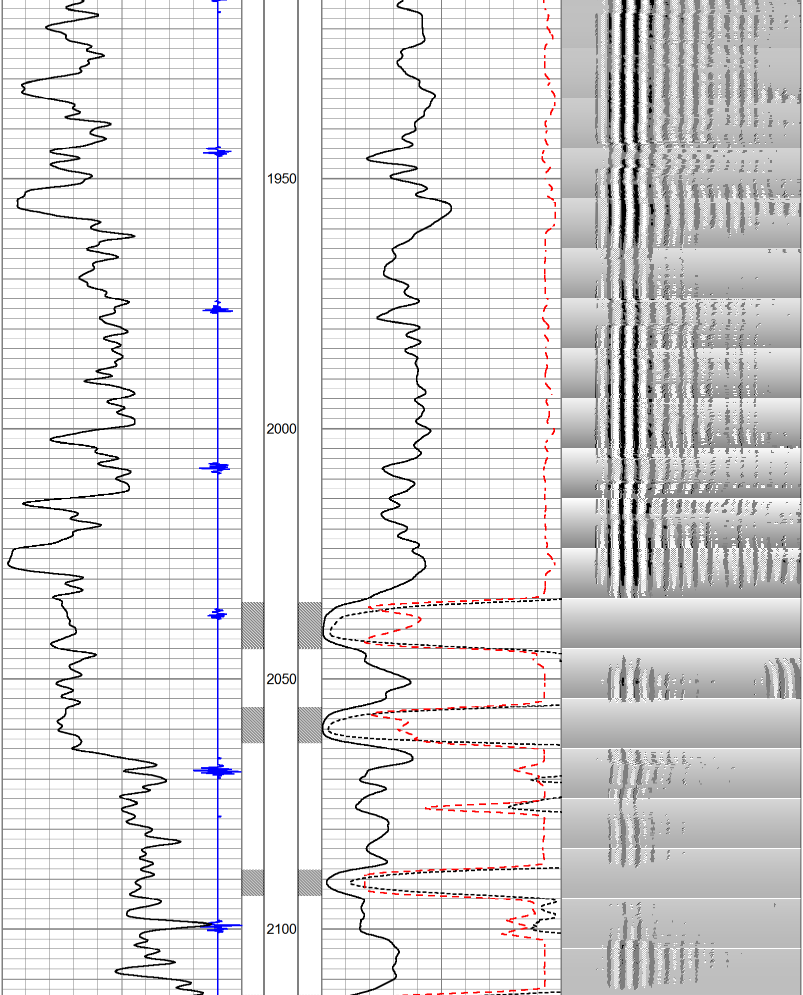


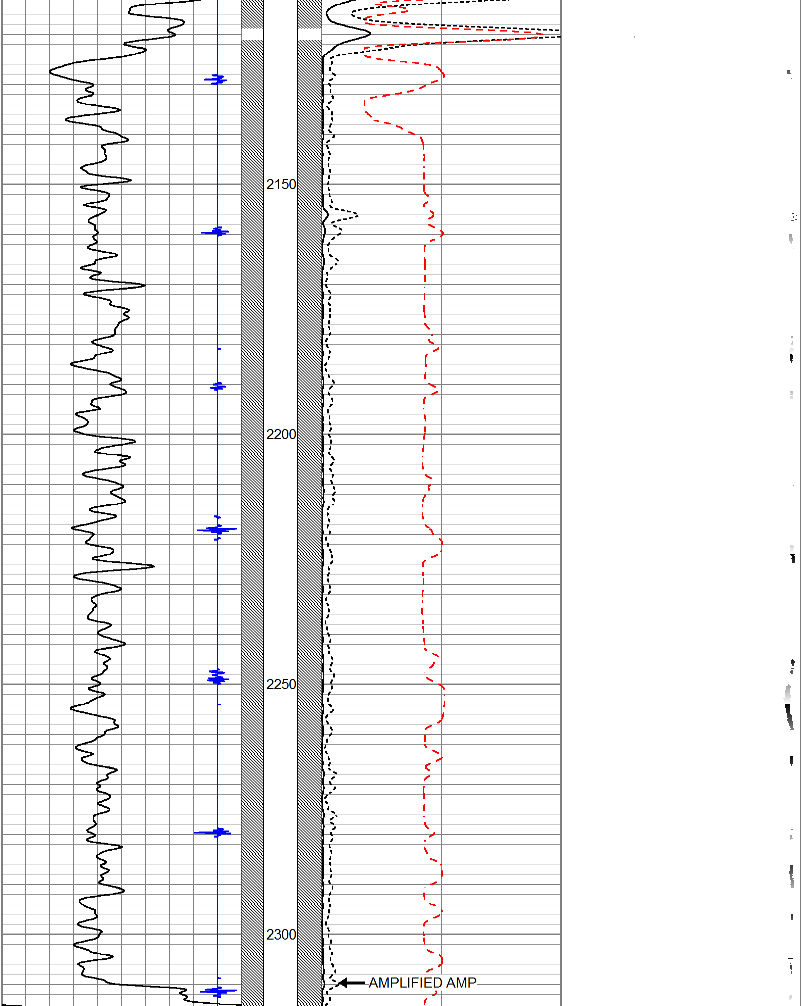


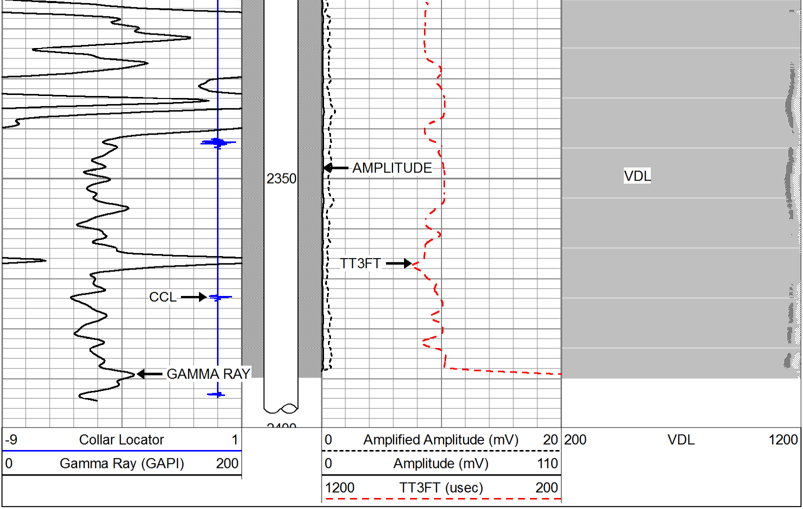












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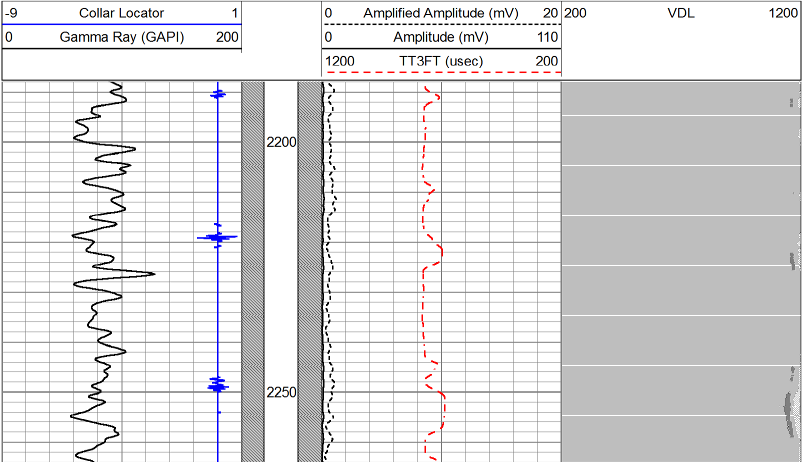

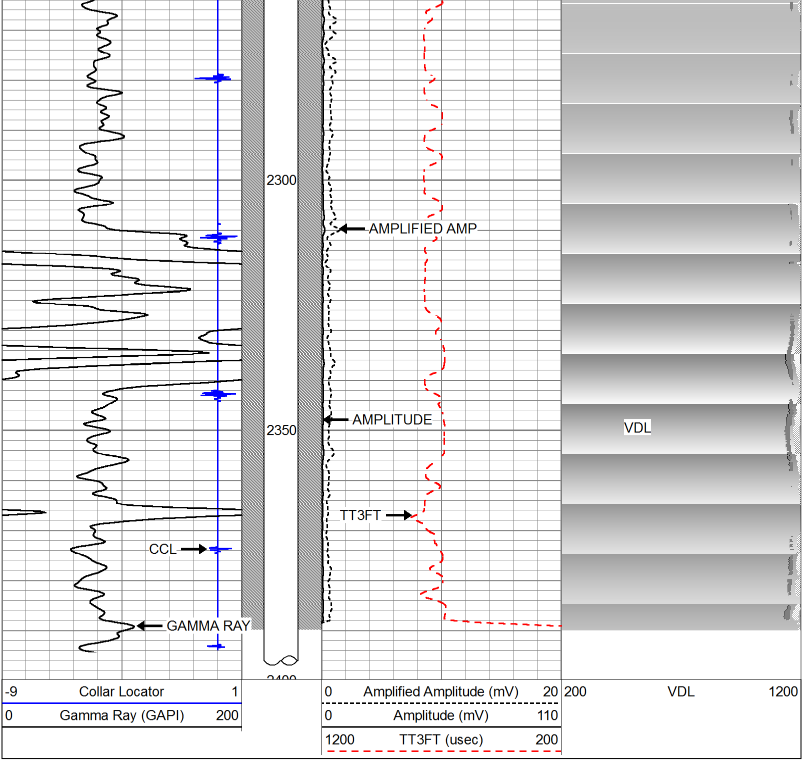

Calibration Report

Database File	cttnwd6x.db
Dataset Pathname	pass4.1
Dataset Creation	Wed Jul 26 14:05:10 2017

Gamma Ray Calibration Report

Serial Number:	275	
Tool Model:	Probe	
Performed:	Thu May 09 10:03:43 2013	
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: 275
Tool Model: Probe

Calibration Casing Diameter: 2.875 in
Calibration Depth: 0.000 ft

Master Calibration, performed Wed Jul 26 14:04:56 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.014	0.252	0.450	61.000	255.022	-3.212
CAL						
5'	0.018	0.180	0.450	61.000	375.390	-6.453
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

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

Air Zero Calibration, performed Tue Mar 22 13:58:21 2016:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1			
S2			
S3			
S4			
S5			
S6			
S7			
S8			