PATRIOT WELL SOLUTIONS

Company BILL BARRETT CORP
Well ANSCHUTZ EQUUS FARMS 4-62-28-1609C
Field WATTENBERG
County WELD
State COLORADO CountryUSA

RADIAL CEMENT BOND LOG
GAMMA RAY
CCL

Company BILL BARRETT CORP
Well ANSCHUTZ EQUUS FARMS 4-62-28-1609C
Field WATTENBERG
County WELD
State COLORADO Country USA

Location: API #: 05123427400000
SHL: 950' FNL & 316' FWL NWNW
LAT 40.287386
LONG -104.33735
SEC 28 TWP 4N RGE 62W

Other Services
Temp

Permanent Datum GL Elevation 4574'
Log Measured From KB 20' ABOVE GL
Drilling Measured From KB

Elevation
K.B. 4594'
D.F. 4594'
G.L. 4574'

Date	FEBRUARY 27, 2018
Run Number	ONE
Depth Driller	UNK
Depth Logger	5950'
Bottom Logged Interval	5949'
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Density / Viscosity	UNK
Max. Recorded Temp.	209 F
Estimated Cement Top	SEE LOG
Time Well Ready	ROA
Time Logger on Bottom	15:30
Equipment Number	1012
Location	BRIGHTON, CO
Recorded By	SCHUMAN
Witnessed By	MR C NOLAN

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36#	SURFACE	878'
Prot. String	7"	23#	SURFACE	6613'
Production String	4.5"	11.6#	5753'	16249'
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

LOG CORRELATED TO RIG KB
LOG RAN WITH 0 PSI APPLIED AT SURFACE
THANK YOU FOR USING PATRIOT WELL SOLUTIONS!
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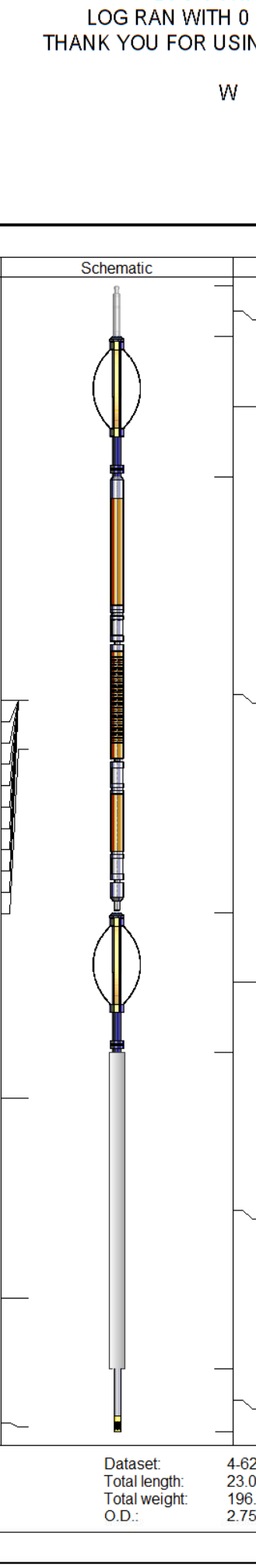


Sensor	Offset (ft)	Description	Length (ft)	O.D. (in)	Weight (lb)
		Cable_Head-1_7/16 Titan 1 7/16" Cable Head	1.02	1.44	3.31
		CENT-PTS275	2.83	2.75	
WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVFCAL WVF3FT WVF5FT	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 13.69	RBT-Probe LT Radii (1704050) RADII LT	8.75	2.75	106.50
		CENT-PTS275	2.83	2.75	
CCL	6.69				
		GR-Probe275dig (080828) Probe 2.75 High Temperature	6.36	2.75	57.00
GR	2.67				
TEMP	0.08	TEMP-1.375TEMP (080714) Temperature Tool	1.25	1.38	30.00

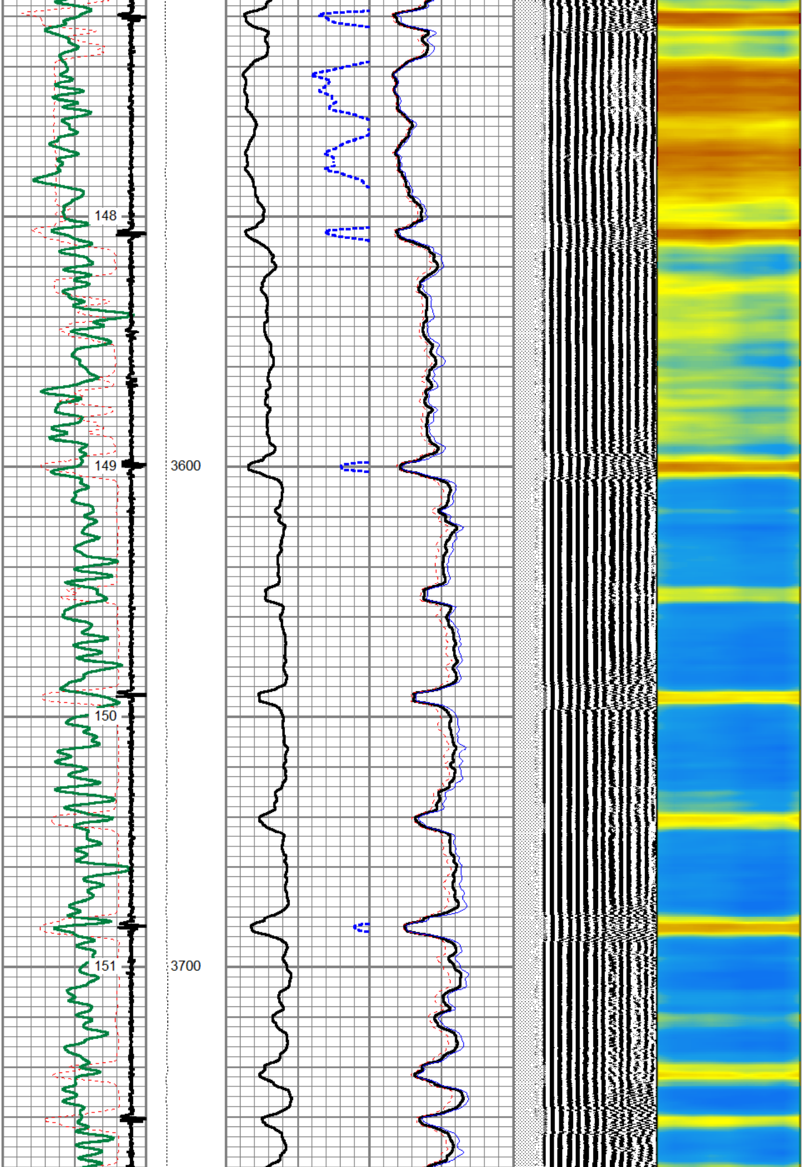
Dataset: 4-62-28-1609c.db: field/well/run1/pass3
Total length: 23.04 ft
Total weight: 196.81 lb
O.D.: 2.75 in

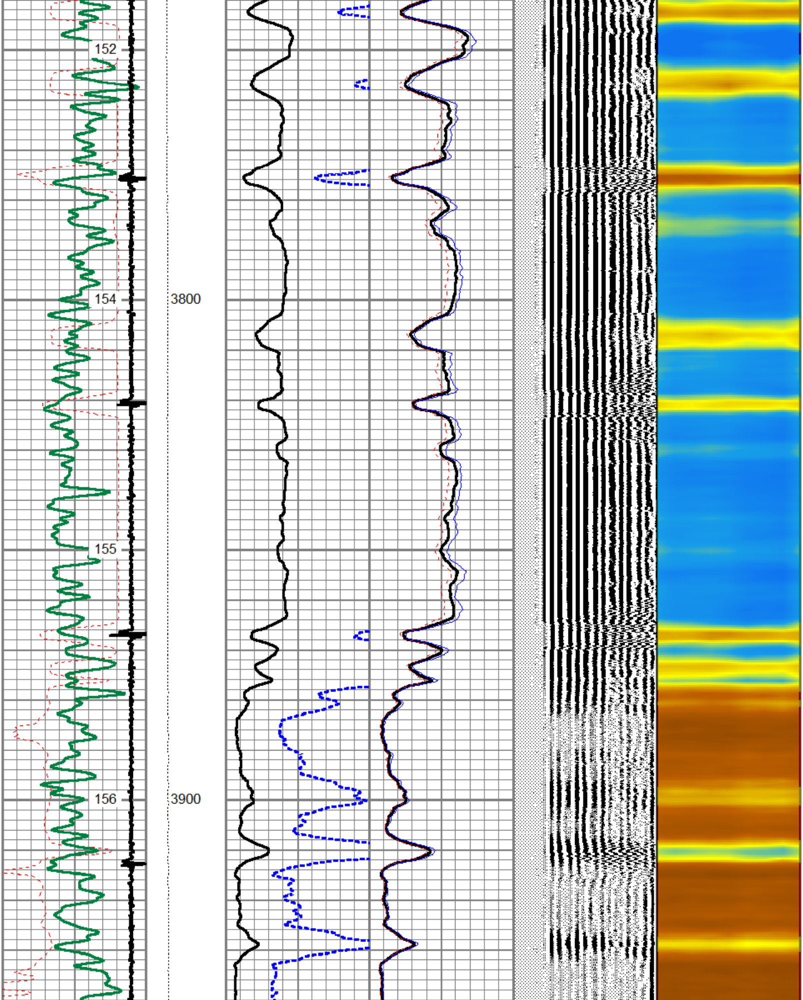
PATRIOT WELL SOLUTIONS

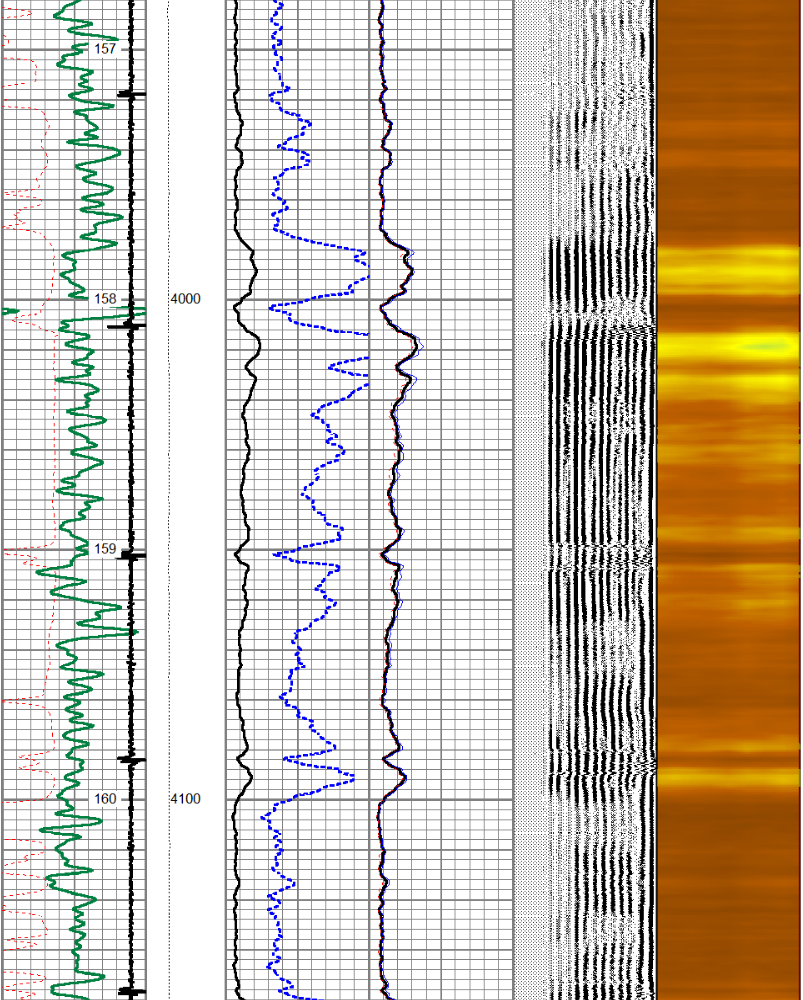
MAIN PASS

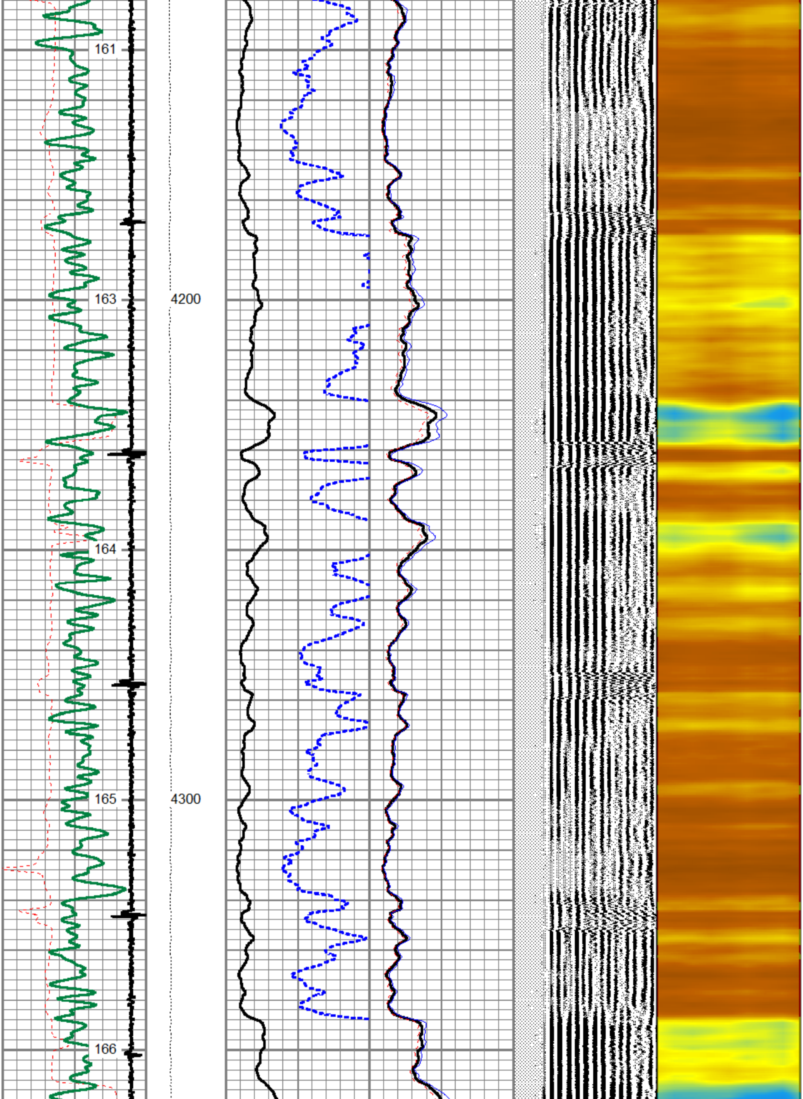
LOGGED WITH 0 PSI APPLIED AT SURFACE

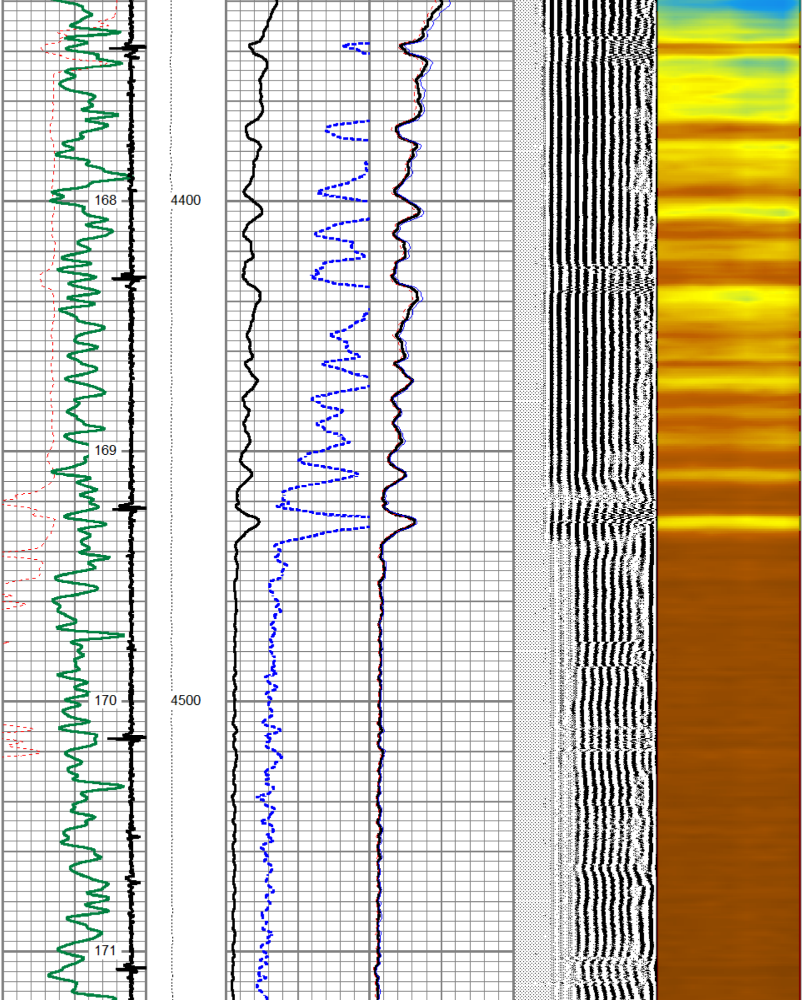
Database File 4-62-28-1609c.db
Dataset Pathname pass3
Presentation Format 1patriotradii
Dataset Creation Tue Feb 27 16:50:14 2018
Charted by Depth in Feet scaled 1:240

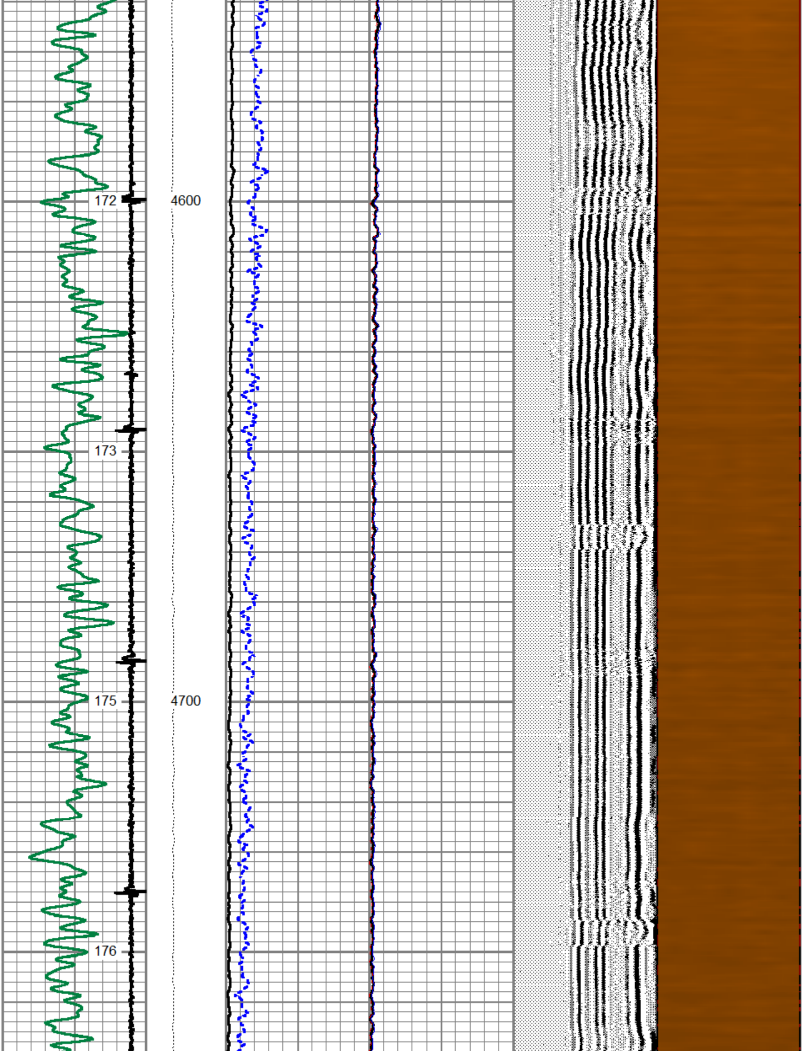


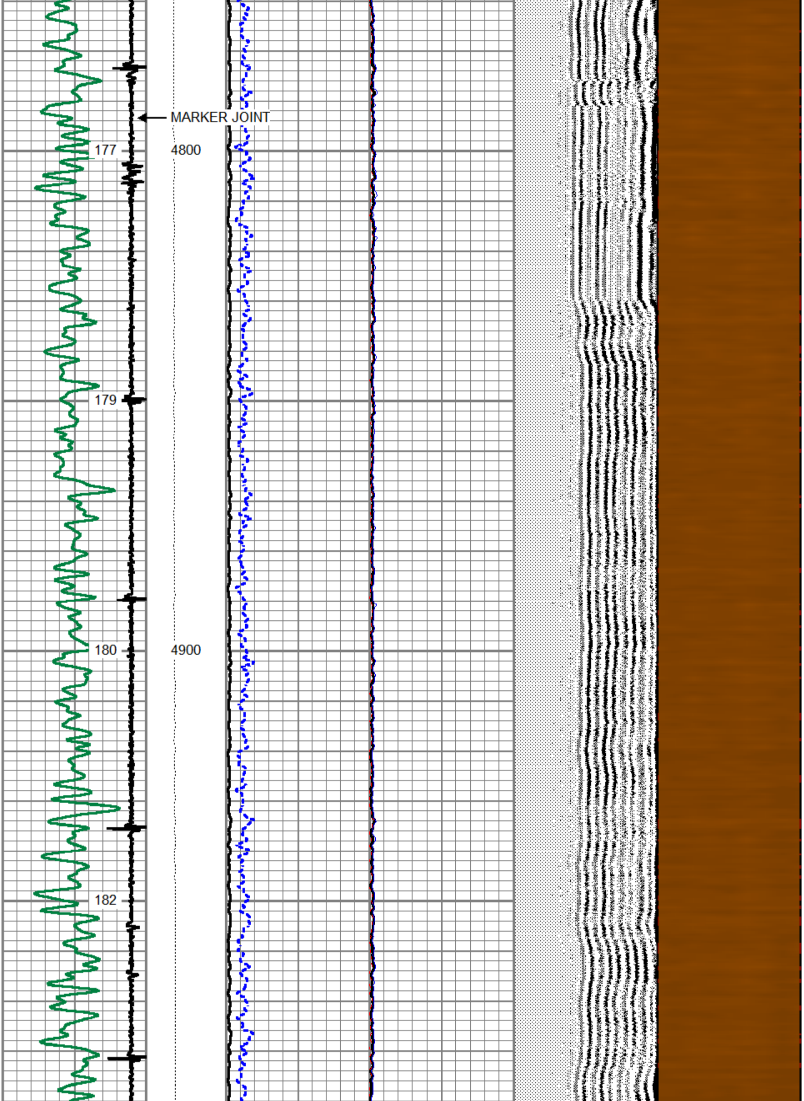


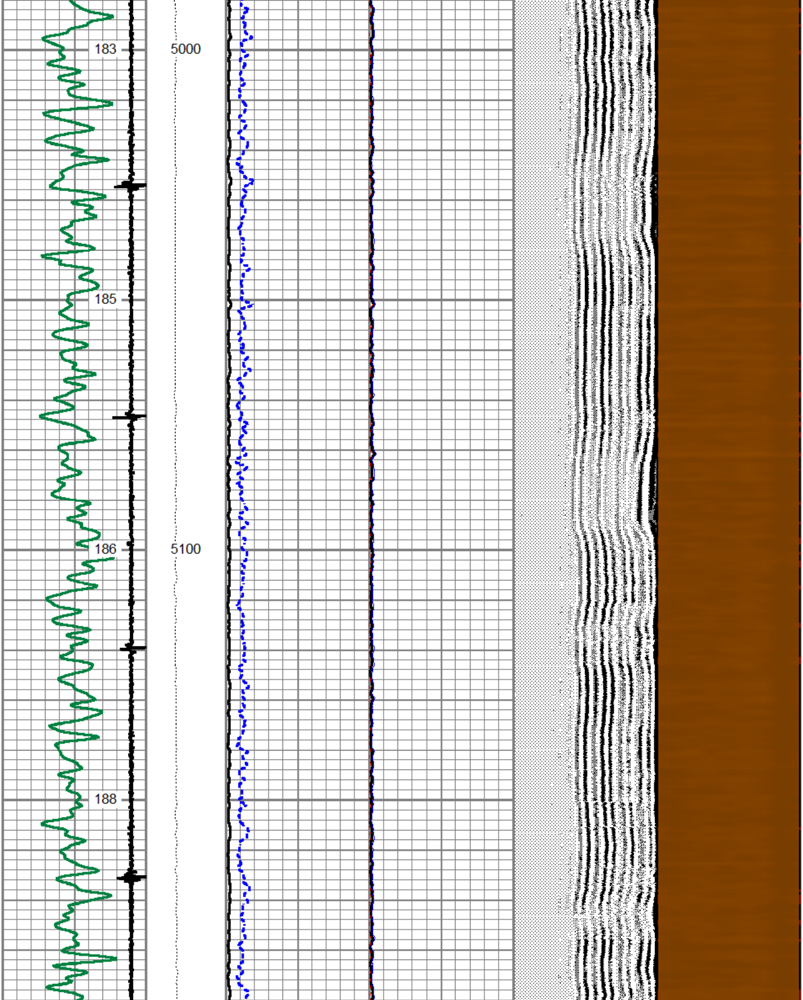


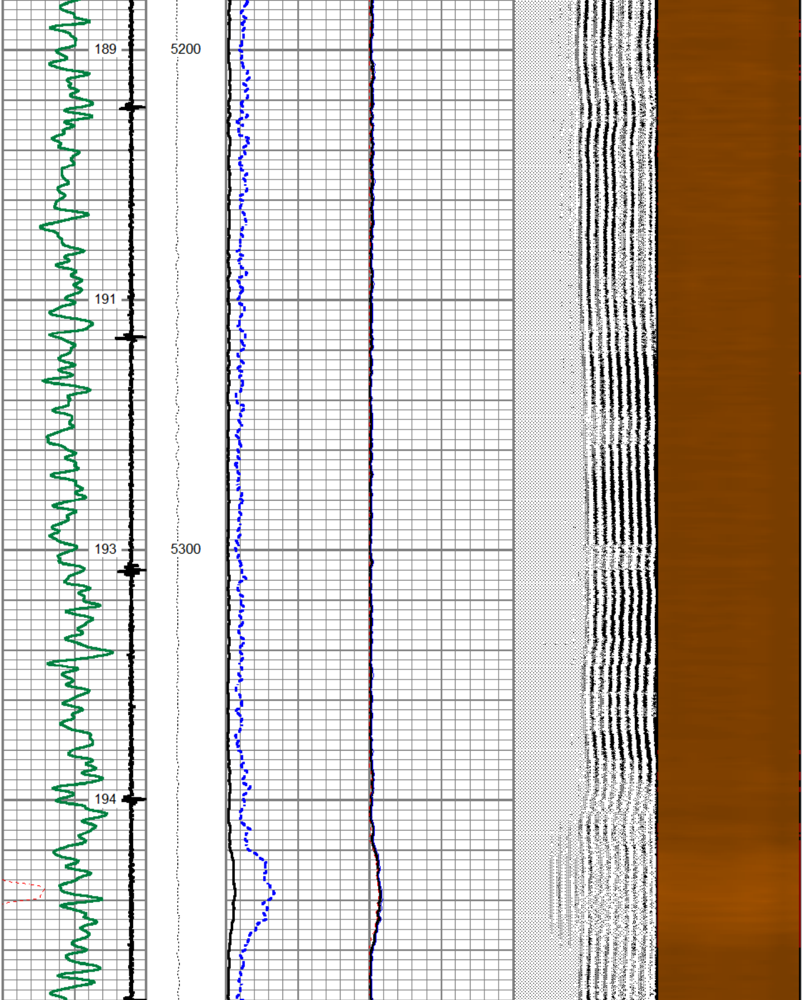


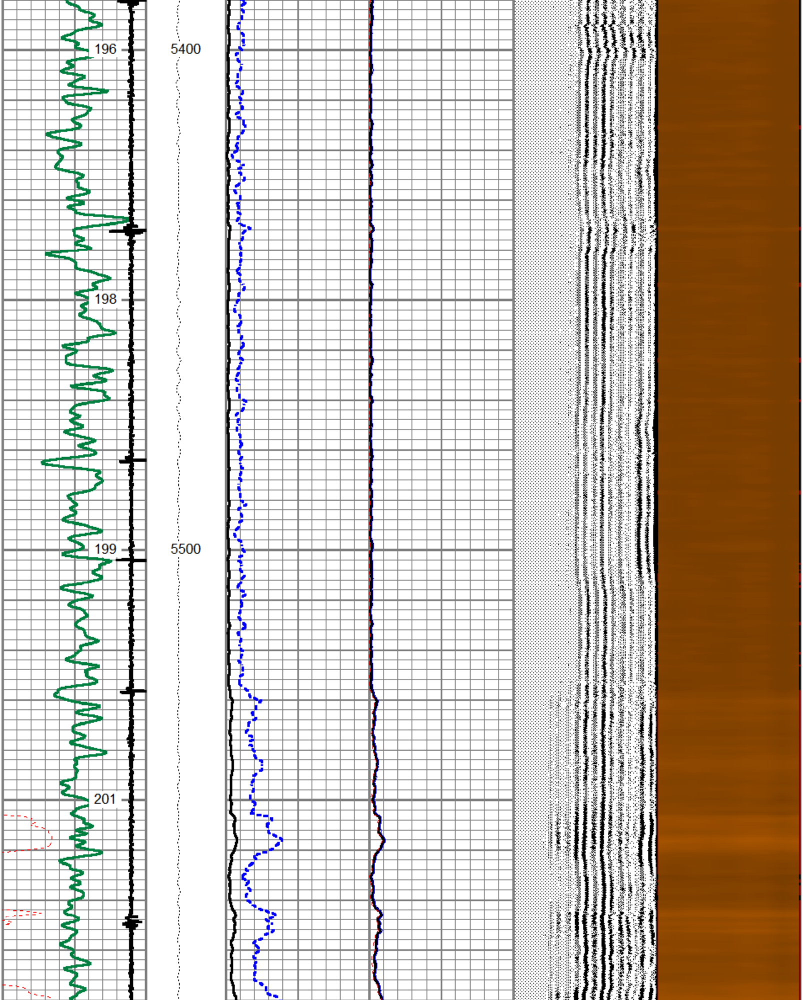


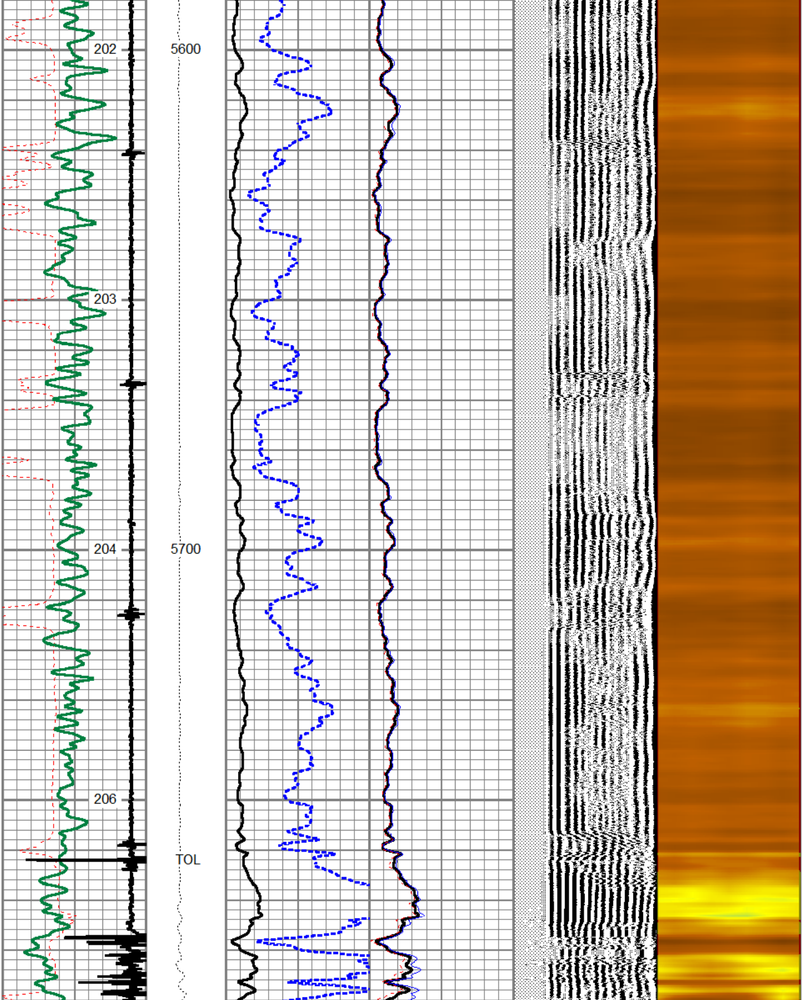


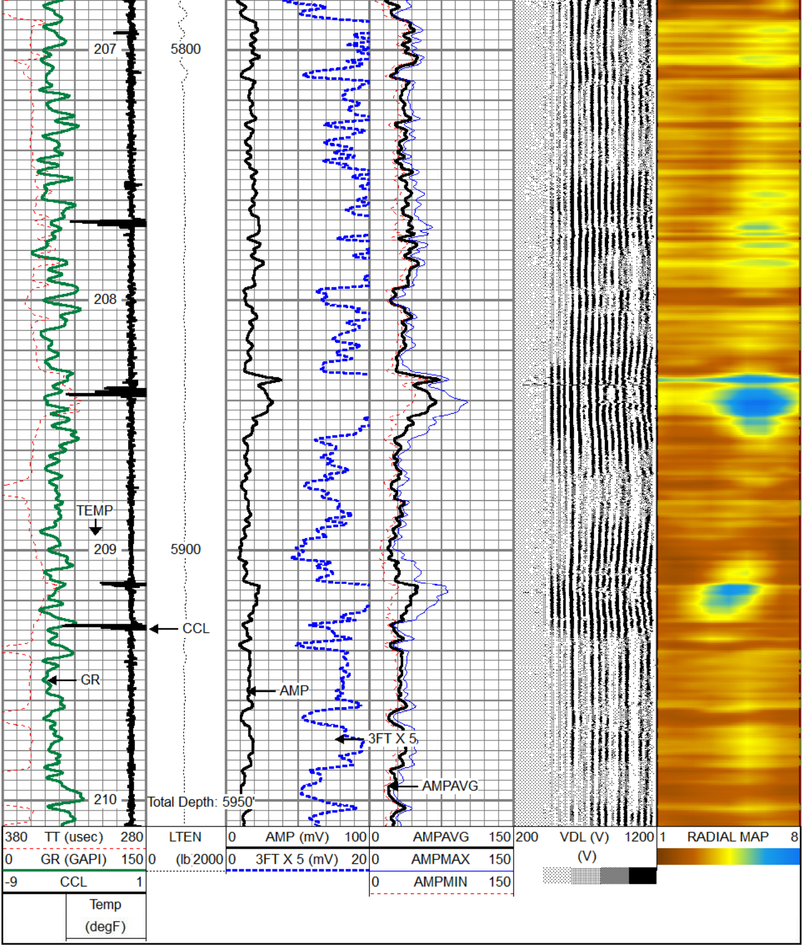












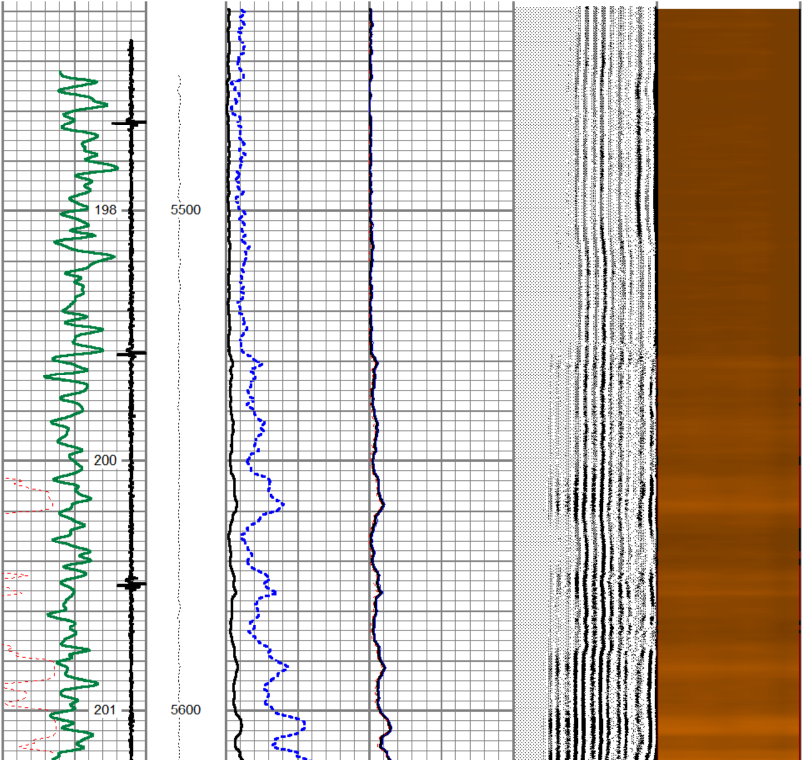
PATRIOT
WELL SOLUTIONS

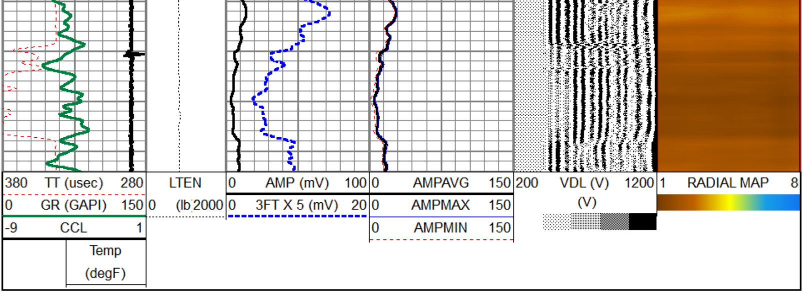
REPEAT PASS

LOGGED WITH 0 PSI APPLIED AT SURFACE

Database File	4-62-28-1609c.db
Dataset Pathname	pass1
Presentation Format	1patriotradii
Dataset Creation	Tue Feb 27 16:43:22 2018
Charted by	Depth in Feet scaled 1:240

380 TT (usec) 280	LTEN	0 AMP (mV) 100	0 AMPAVG 150	200 VDL (V) 1200	1 RADIAL MAP 8
0 GR (GAPI) 150	0 (lb 2000	0 3FT X 5 (mV) 20	0 AMPMAX 150	(V)	
-9 CCL 1			0 AMPMIN 150		
Temp (degF)					





Calibration Report

Database File 4-62-28-3225c.db
Dataset Pathname pass1.2
Dataset Creation Tue Feb 27 10:51:44 2018

Temperature Calibration Report

Serial Number: 080714
Tool Model: 1.375TEMP
Performed: Mon Feb 26 18:20:42 2018

	Reference	Reading
Low Reference:	0.00 degF	0.00 cps
High Reference:	100.00 degF	1000.00cps

Gain: 0.09
Offset: 9.10
Delta Spacing 2

Gamma Ray Calibration Report

Serial Number: 080828
Tool Model: Probe275dig
Performed: Mon Feb 26 18:26:45 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.1500 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 1704050
Tool Model: Probe LT Radii

Calibration Casing Diameter: 7.000 in
Calibration Depth: 1002.962 ft

Master Calibration, performed Mon Feb 26 09:38:57 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.018	0.982	1.000	62.165	57.000	1.200
CAL	0.009	1.739				
5'	0.023	1.000	1.000	62.165	62.623	0.800
SUM						
S1	0.185	1.173	0.500	100.000	98.000	-24.800
S2	0.010	1.047	0.500	100.000	95.469	0.034
S3	0.040	1.079	0.500	100.000	95.272	-1.000
S4	0.019	1.049	0.500	100.000	96.125	-0.300
S5	0.012	1.006	0.500	100.000	99.616	-0.205
S6	0.010	0.978	0.500	100.000	102.289	0.700
S7	0.013	0.959	0.500	100.000	104.680	0.000
S8	0.021	0.966	0.500	100.000	104.756	-4.700

PATRIOT
WELL SOLUTIONS

Company	BILL BARRETT CORP		
Well	ANSCHUTZ EQUUS FARMS 4-62-28-1609C		
Field	WATTENBERG		
County	WELD		
State	COLORADO	Country	USA