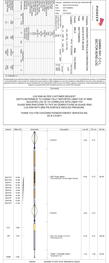
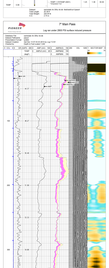
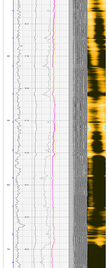
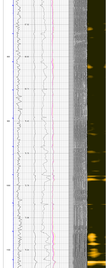
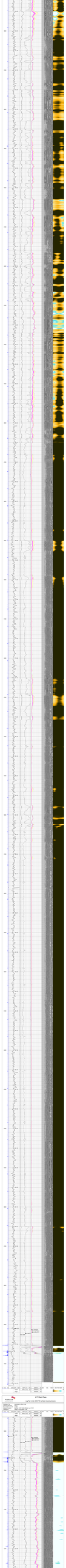


LOG RUN IN RIH WITH MAXR TRACTEC
BOTTOM HOLE PRESSURE TO SURFACE TEMPERATURE GRADIENT OF 1.5000 DEGF/100FT
PRESSURE GRADIENT OF 0.4340 PSI/FT WITH A SURFACE PRESSURE OF 14.7 PSI
LOGGED WITH 0.5 INCH STANDOFF ON THE TRACTOR
LOGGED WITH 1.5 INCH STANDOFF ON THE TOOLSTRING
THANK YOU FOR CHOOSING POWERED ENERGY SERVICES INC.





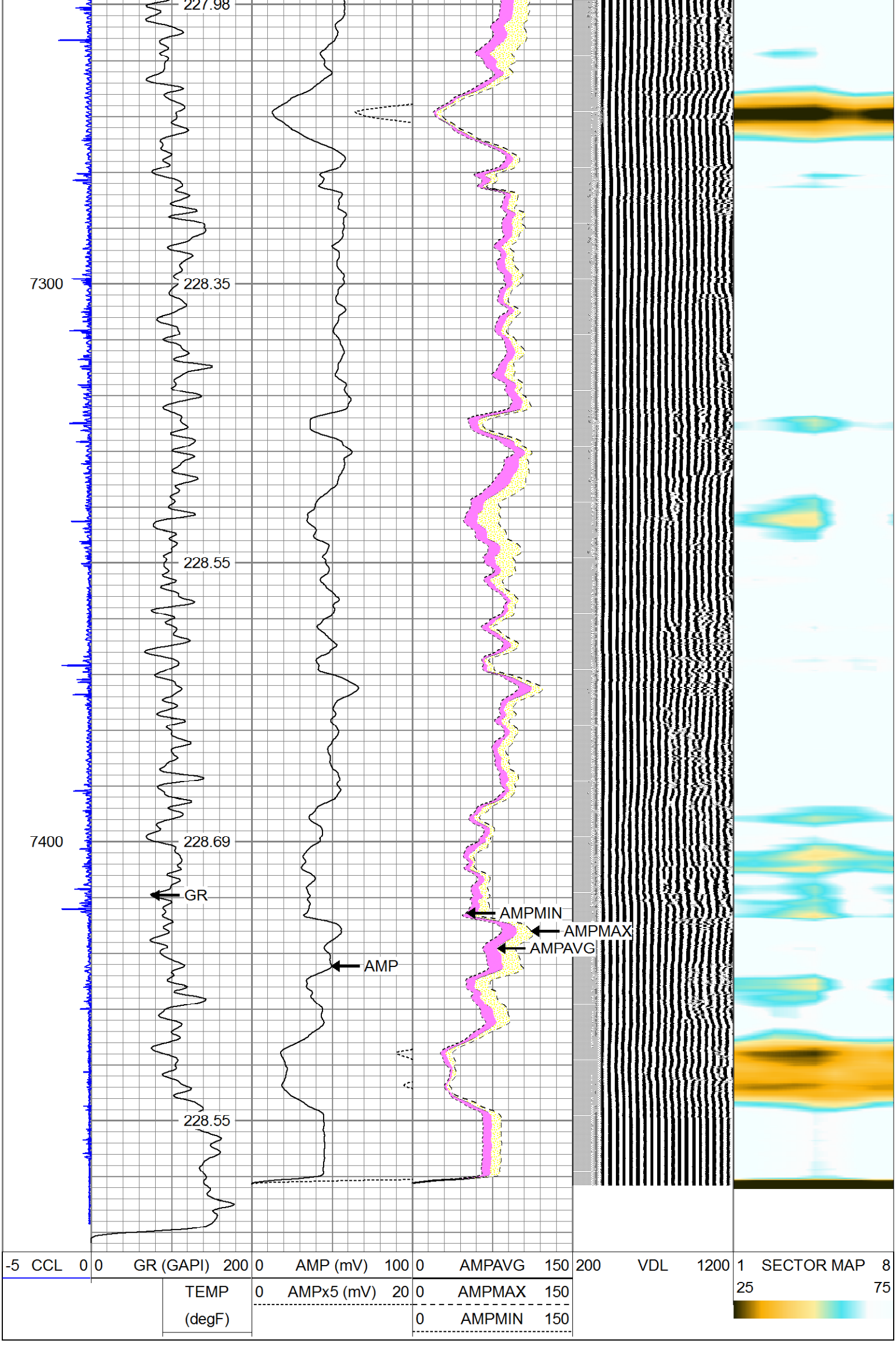




KT Tube Trips

Log Time Codes 2000 Plus Active Horizontal Sequence

Drilling Activity Code: DRLG
Activity Description: DRILL 12-1/4 HOLE SECTION
Start Depth: 2,000.00 ft
End Depth: 2,000.00 ft
Start Time: 2000
End Time: 2000
Duration: 0 hr
Mud Type: WBM
Density: 9.2 ppg
Viscosity: 45 s/qt
PV: 18 cP
YP: 12 lbf/100ft²
Gels 10s: 4
Gels 10m: 6
Fluid Loss: 5.2 mL/30min
Solids: 6.5 %
Sand: 0.5 %
MBT: 12.5 lb/bbl
pH: 9.5
Pm: 0.8
Pf: 0.4
Mf: 1.2
Chlorides: 1,200 mg/L
Calcium: 120 mg/L
Magnesium: 40 mg/L
Potassium: 3.5 %
Hardness: 160 mg/L
Lime: 2.5 lb/bbl
Excess Lime: 1.0 lb/bbl
Solids Analysis: 6.5 %
Low Gravity Solids: 5.8 %
Barite: 0.7 %
Oil: 0 %
Water: 93.5 %
Retort Solids: 6.5 %
Retort Oil: 0 %
Retort Water: 93.5 %
Oil/Water Ratio: 0/100
Electrical Stability: 650 V
HTHP Fluid Loss: 12.0 mL/30min
HTHP Temperature: 250 °F
Cake Thickness: 2/32 in
Cake Quality: Good
Comments: Drilling ahead in 12-1/4 hole section. Maintaining mud weight at 9.2 ppg. Adding LCM as needed for seepage. Monitoring gas readings closely. Solids control equipment running efficiently. Shaker screens clean. Mud temperature 120 °F. Pump pressure 2,800 psi. Flow rate 450 gpm. Bit nozzles 3 x 20. Weight on bit 25 klbs. Rotary speed 120 rpm. Torque 8,000 ft-lbs. Hole condition good. No tight spots. Circulating time 45 min. Mud volume 1,200 bbl. Adding barite to maintain density. Running survey every 90 ft. Inclination 0.5°. Azimuth 180°. Tool face 0°. Build rate 0°/100 ft. Turn rate 0°/100 ft. Dog leg severity 0°/100 ft. Vertical section 0 ft. Displacement 0 ft. Coordinates 0 N, 0 E. Ready to continue drilling.



Calibration Report

Database File: sackstate 4n-30hz rbl.db
Dataset Pathname: pass4
Dataset Creation: Sat Dec 13 07:43:43 2014 by Log 7.0 B1

Temperature Calibration Report

Serial Number: 0001
Tool Model: 1.375TEMP
Performed: Wed Dec 10 17:24:24 2014

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

Gain: 0.10
Offset: 0.00
Delta Spacing 2

Gamma Ray Calibration Report

Serial Number: 111211
Tool Model: Probe
Performed: Sun Jun 13 13:33:21 1993

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: Base
Tool Model: Probe

Calibration Casing Diameter: 7.000 in
Calibration Depth: 519.842 ft

Master Calibration, performed Fri Dec 12 15:37:53 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.018	0.998	0.000	62.165	63.416	-1.136
CAL	0.012	1.510				
5'	0.012	0.733	0.000	62.165	86.316	-1.064
SUM						
S1	0.024	0.838	0.000	100.000	122.857	-2.998
S2	0.027	0.862	0.000	100.000	119.700	-3.219
S3	0.027	0.947	0.000	100.000	108.721	-2.981
S4	0.031	1.070	0.000	100.000	96.264	-2.964
S5	0.035	1.161	0.000	100.000	88.803	-3.137
S6	0.020	1.138	0.000	100.000	89.474	-1.791
S7	0.030	1.023	0.000	100.000	100.691	-3.003
S8	0.026	0.905	0.000	100.000	113.751	-2.995

Internal Reference Calibration, performed Wed Aug 21 11:08:58 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	1.510	1.000	0.000

Air Zero Calibration, performed Wed Aug 21 10:24:02 2013:

	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

PIONEER
Pioneer Energy Services

Company	ANADARKO PETROLEUM CORPORAT
Well	SACK STATE 4N-30HZ
Field	WATTENBERG
County	WELD
State	COLORADO