

PHOENIX SURVEYS, INC.									
Company	Noble Energy Inc.								
Well	Booth N25-32D								
Field	Wattenberg								
County	Weld	State/Province		Colorado					
Logbook#	2161-FSL & 206-FEL NENSE			Cora Siggins					
Sec. 26	Twp. 5N Rpe. 67W			Neutron					
BHL	2459 FNL & 1172 FNL SWNW			Microlog					
Sec. 25	Twp. 5N Rpe. 67W			Elevation					
GL	Elevation 4949			K B 4955 D F 4954 O L 4949					
Log Measure	From KB								
Log Interval	From KB								
Run Number	February 2, 2017								
Depth	7722								
Depth Logger	7720								
Top Log Interval	7720								
Calving	725								
Calving Chatter	725								
Calving Logger	725								
Depth	7722								
Type Fluid in Hole	Clean Gel								
Barrel / Viscosity	9.3 / 55								
pH Fluid Loss	4.0 / 6.8								
Flowback / Solids	6.8 / 6.8								
Run @ Rate	3.76 @ 55 F								
Run @ Rate	2.59 @ 55 F								
Run @ Rate	4.10 @ 55 F								
Run @ Rate	1.40 @ 55 F								
Run @ Rate	1.14 @ 214 F								
Time Correlation Stopped	1650.271								
Time Loggs on Bottom	214 F								
Temperature	214 F								
Equipment Name	52								
Location	Bartman, CO								
Region	Bartman, CO								
Survey By	February 2, 2017								
Survey Date	February 2, 2017								

All measurements are options based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or reliability of any interpretation. We and our employees shall not 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 subject to our general terms and conditions set out in our current Price Schedule.

Comments

Annular volume calculated for 4.5" casing  
 Ensign Drilling Rig 55  
 Thank you for using Phoenix Surveys!!  
 API #: 05-123-31660-00

No repeat due to tool malfunction.

Database File: 11427.db  
 Dataset Pathname: final  
 Presentation: Ent:

Dataset Creation: Wed Feb 02 16:29:43 2011 Chaired by: Depth in Feet scaled 1:240			
6	Density Caliper (in)	16	
30	Gamma Ray (GAPI)	130	
100	SP (mV)	200	
	SP (mV) (%)		
2	Deep Resistivity (Ohm-m)	200	Density Porosity (pu)
2	Medium Resistivity (Ohm-m)	200	Neutron Porosity (pu)
2	Shallow Resistivity (Ohm-m)	200	
2	RI (Ohm-m)	200	

