



PHOENIX SURVEYS, INC.  
HIGH RESOLUTION INDUCTION

Company	Great Western Oil & Gas LLC	Other Services	
Well	HCW 24-53	Deviation	
Field	LaPoudre	Location	
County	Weld	State/Prov	Colorado
Location	1319 FSL & 1321 FWL		
	Sec 24 Twp - 6N Rge - 67W		
GL		Elevation	4757
Permanent Datum			
Log Measured From	K/B		
Drilling Measured From	K/B		
Date	January 15, 2011		
Run Number	7336		
Depth Logged	7300		
Bottom Logged Interval	7300		
Top Log Interval			
Casing	558		
Casing Offset	558		
Casing Logger	32530		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3 / 5.0		
pH / Fluid Loss	8.0 / 0.0		
Source of Sample	Flowline		
Run @ Mass Temp	2.50 @ 62 F		
Run @ Mass Temp	4.60 @ 62 F		
Source of Run / Run	Measure / Calc		
Run @ Bit	1.07 @ 208 F		
Time Circulation Stopped	0915		
Time Logger on Bottom	1830		
Equipment Temperature	2530 F		
Equipment Number	52		
Location	Brighton, CO		
Recorded By	Shawn Schuman		
Witnessed By	Jay Pope		

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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 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

Annular volume calculated for 4.5" casing  
Ensign Drilling Rig 7  
Thank you for using Phoenix Surveys.  
API #: 05-123-31501  
No repeat pass due to hole conditions.

