

Well Name: Polar Queen 33-21

TD: 2,270.0

API/UWI 05-071-09637-0000	Surface Legal Location	License/Lease Number	Field Name RATON-OTHER	State COLORADO
Well Profile VERTICAL	Original KB Elevation (ft) 7,170.00	KB-Ground Distance (ft) 9.00	KB-Casing Flange Distance (ft)	KB-Tubing Head Distance (ft)

Most Recent Job

Job Category WORKOVER	Primary Job Type WOV	Secondary Job Type	Start Date 10/5/2011	End Date
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VERTICAL - Original, 6/7/2016 8:13:30 AM

MD (ftKB)	Incl (°)	TVD (ftKB)	Vertical schematic (actual)	
6.6				No.:1-1; Des:Conductor; OD:12 1/4 in; Top MD:9.0 ftKB; Length:15.00 ft
8.9		No.:1; Des:Conductor; OD:12 1/4 in; ID:0 in; Top MD:9.0 ftKB; Length:15.00 ft		
24.0		No.:2-2; Des:Centralizer; OD:8 5/8 in; ID:8.097 in; Top MD:62.1 ftKB; Length:32.70 ft		
94.8		No.:2-4; Des:Centralizer; OD:8 5/8 in; ID:8.097 in; Top MD:126.5 ftKB; Length:32.72 ft		
159.1		No.:2-6; Des:Centralizer; OD:8 5/8 in; ID:8.097 in; Top MD:223.4 ftKB; Length:31.74 ft		
255.2		No.:2-8; Des:Centralizer; OD:8 5/8 in; ID:8.097 in; Top MD:319.7 ftKB; Length:31.66 ft		
351.4		No.:2-10; Des:Centralizer; OD:8 5/8 in; ID:8.097 in; Top MD:417.2 ftKB; Length:32.88 ft		
450.1		No.:2-12; Des:Centralizer; OD:8 5/8 in; ID:8.097 in; Top MD:546.2 ftKB; Length:32.92 ft		
579.1		No.:2-14; Des:Centralizer; OD:8 5/8 in; ID:8.097 in; Top MD:675.7 ftKB; Length:31.97 ft		
675.9		No.:2-16; Des:Centralizer; OD:8 5/8 in; ID:8.097 in; Top MD:773.4 ftKB; Length:31.60 ft		
773.3			No.:2-17; Des:Guide Shoe; OD:8 5/8 in; ID:8.097 in; Top MD:805.0 ftKB; Length:1.00 ft	
806.1			No.:2; Des:Surface; OD:8 5/8 in; ID:8.097 in; Top MD:8.5 ftKB; Length:797.47 ft	
985.9				
1,109.9				
1,130.9				
1,149.9				
1,171.9				
1,373.0				
1,381.9				No.:3-2; Des:Centralizer; OD:5 1/2 in; ID:4.892 in; Top MD:1,480.3 ftKB; Length:42.11 ft
1,522.3				No.:3-4; Des:Centralizer; OD:5 1/2 in; ID:4.892 in; Top MD:1,606.6 ftKB; Length:42.10 ft
1,568.9				No.:3-6; Des:Centralizer; OD:5 1/2 in; ID:4.892 in; Top MD:1,732.9 ftKB; Length:42.12 ft
1,648.6				No.:3-8; Des:Centralizer; OD:5 1/2 in; ID:4.892 in; Top MD:1,859.2 ftKB; Length:42.11 ft
1,774.9				No.:3-10; Des:Centralizer; OD:5 1/2 in; ID:4.892 in; Top MD:1,957.6 ftKB; Length:42.08 ft
1,859.3				No.:3-12; Des:Centralizer; OD:5 1/2 in; ID:4.892 in; Top MD:2,083.9 ftKB; Length:42.07 ft
1,949.1				No.:3-14; Des:External Casing Packer; OD:5 1/2 in; Top MD:2,168.1 ftKB; Length:13.27 ft
1,957.7				No.:3-15; Des:Centralizer; OD:5 1/2 in; ID:4.892 in; Top MD:2,181.3 ftKB; Length:42.09 ft
2,084.0				No.:3-17; Des:Centralizer; OD:5 1/2 in; Top MD:2,237.1 ftKB; Length:14.46 ft
2,111.9				No.:3-18; Des:Float Shoe; OD:5 1/2 in; Top MD:2,251.6 ftKB; Length:1.40 ft
2,151.9				No.:3; Des:Production; OD:5 1/2 in; ID:4.892 in; Top MD:6.5 ftKB; Length:2,246.48 ft
2,181.4				
2,237.2				
2,251.6				
2,270.0				

Des:Surface Casing Cement;
Depth MD:0.0-806.0 ftKB;
Date:10/1/2008

Des:Production Casing Cement;
Depth MD:22.0-1,150.0 ftKB;
Date:10/3/2008

Des:Production Casing Cement;
Depth MD:1,143.0-2,253.0 ftKB;
Date:10/3/2008

PIONEER

NATURAL RESOURCES

Schematic - Current

Proposed

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Most Recent Job

Job Category WORKOVER	Primary Job Type WOV	Secondary Job Type	Start Date 10/5/2011	End Date
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VERTICAL - Original, 6/7/2016 8:13:24 AM

MD (ftKB)	Incl (°)	TVD (ftKB)	Vertical schematic (actual)
6.6			
8.9			
24.0			
94.8			
159.1			
255.2			
351.4			
450.1			
579.1			
675.9			
773.3			
806.1			
985.9			
1,109.9			
1,130.9			
1,149.9			
1,171.9			
1,373.0			
1,381.9			
1,522.3			
1,568.9			
1,648.6			
1,774.9			
1,859.3			
1,949.1			
1,957.7			
2,084.0			
2,111.9			
2,151.9			
2,181.4			
2,237.2			
2,251.6			
2,270.0			