

Company: PDC Energy Inc  
 Well Name: Wideman Federal 22-G-302  
 APN: 0612438000  
 County/Parish: WELD  
 State: COLO/CO  
 Country: USA  
 Job Number: 1521052  
 Date Acquired: 10/15/2017  
 Rig ID: Ensign 152

Survey Company: Ensign Directional  
 D01 Jhusi Gulligo  
 D02 Dan Hansen  
 D03 Louie Accone  
 MWD1 Ryan Ryan  
 MWD2 Ryan Ryan  
 MWD3  
 MWD4

Log measurements: Gamma, RCP  
 Depth measured from: Start: 0 ft, End: ft, Date: 10/15/2017  
 Maximum temperature: Start: 0 ft, End: ft, Date: 10/15/2017  
 Casing: Depth: 1697 ft, Size: 9.875"  
 Mud Type: Water  
 Density: Rft.: Rmc.: Kft.: 4.72 ft, Rft.: 8.75 ft

Run	Bit Size	Gamma Survey	Start	Depth	End	Start	Depth	End
1	12.25"	0 ft	1697 ft	1697 ft	10/15/17	10/15/17	10/15/17	10/15/17
2	8.5"	55.54 ft	1697 ft	1697 ft	10/15/17	10/15/17	10/15/17	10/15/17
3								
4								
5								
6								
7								
8								
9								
10								

Intermediate: 1697 ft, 9.875"  
 Ensign Directional uses its best efforts to provide its customers with accurate information and interpretations in conjunction with services performed but will not be held liable or responsible for the accuracy of such information or interpretation.

