

Company: PDC Energy, Inc  
Well Name: SNOWMASS 5N  
API: 0523448600  
County/State: WELD  
State: COLORADO

Country: USA  
Job number: 152-100  
Field: Wainberg

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Rig ID: Ensign 152

Survey Company: Ensign Directional

DDI: Jesus Gonzalez

DDI: Ben Hansen

DDI: Ryan Price

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Log measurements: Gamma, ECP	Depth	Date
Start: 0 ft	Start: 0 ft	9/7/2017
End: 5255 ft	End: 5255 ft	9/7/2017

Depth	Size	Mud Type	Viscosity	Temp	Elevations
Surface: 1670 ft	9.5 in				KB: 4634 ft
Intermediate:					GL: 4637 ft

Run	Bit Size	Gamma	Survey	Depth	Start	End	Start	End	Days
1	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
2	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
3	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
4	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
5	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
6	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
7	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
8	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
9	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft
10	8.5"	53.53	ft	62.53	ft	1670	ft	16255	ft

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.

