

Company: PDC Energy Inc

Well Name: Fern 11V-304

API: 0512344581

County/Area: WELD

State: COLORADO

Country: USA

Job Number: 152-129

Field: Waterberg

Rig Id: Ensign 152

Survey Company: Ensign Directional

DD1 Dan Hansen

DD2 Daryl Bailey

DD3 Joel Engstrom

MWD Ryan Paul

MWD Matt Perry

MWD Jeff Jaso

Log Measurements: Gamma, ROP				Depth		Date	
Log measured from:				Start:	0 ft	3/6/2018	
Maximum temperature:				End:	15142 ft	3/11/2018	

Casing	Depth	Size	Mud Type	Visier	KB	Elevations
Surface:	1641 ft	9.5 in				
Intermediate:				Viscosity:	fmc:	fmc:
					fmc:	fmc:
					GR:	4618 ft
					DF:	4642 ft

Run	Bit Size	Gamma	Survey	Start	Depth	End	Start	Dates	End
1	8.5 in	58.55 ft	54.55 ft	1632 ft	6589 ft	3-7-2018	3-9-2018		
2	8.5 in	58.55 ft	54.55 ft	1632 ft	6589 ft	3-7-2018	3-9-2018		
3	8.5 in	58.55 ft	54.55 ft	1632 ft	6589 ft	3-7-2018	3-9-2018		
4									
5									
6									
8									
9									
10									

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.

