



# Pumping Service Report

9187261

Client Name PDC Energy, Inc.	Well Name Alles 22S-432	Job Date March 08, 2014	Call Sheet 1039605
Client Representative Jim Flesner	Location NE SE Sec 22:T5N:R55W	Job Type Plugback Whipstock	Rig Ensign Drilling Inc. 14

## Well Profile

Well Type:	Oil
Maximum Treating Pressure (psi):	
Predicted Bottom Hole Static Temperature (°F):	225.00 @ -
Bottom Hole Circulating Temperature (°F):	190.00 @ -
Bottom Hole Logged Temperature (°F):	- @ -

## Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.750	25.000	0.000	7,398.000		

## Casing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
9.625	36.000	J-55	2,020.0	3,520.0	72.90	8.921	10.625	0.0	943.0

## Drill Pipe

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
4.000	14.000	X	14,390.000	78.860	3.340	5.250	0.000	7,277.000

## Products

### Plug 1

From Depth (ft): 7321  
To Depth (ft): 6821  
Plug Type: Well Stability  
Acids/Blends/Fluids:  
Pickle: 200 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 40.8 (bbl)  
+ 0.5 % of CFR (Preblend),  
+ 0.2 % of AS-3 (Preblend),  
+ 0.25 % of LTR (Preblend).  
Preflush: 17 bbl of Visweep

### Plug 2

From Depth (ft): 6821  
To Depth (ft): 6221  
Plug Type: Whipstock  
Acids/Blends/Fluids:  
Plug: 300 Sacks of 0-1-0 Type III, Density = 17.5 lb/gal, Volume Pumped = 48.8 (bbl)  
+ 1 % of CFR (Preblend),  
+ 0.2 % of AS-3 (Preblend),  
+ 0.2 % of LTR (Preblend)  
Preflush: 17 bbl of Visweep