

# Job Summary

Ticket Number	Ticket Date
TN# <b>BCO-1902-0084</b>	<b>2/17/2019</b>

COUNTY	COMPANY	API Number
<b>Weld</b>	<b>PDC ENERGY</b>	<b>05-123-47822</b>
WELL NAME	RIG	JOB TYPE
<b>Popham 11N</b>	<b>Ensign 161</b>	<b>Production Casing</b>
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
<b>40.33695 -104.53751</b>	<b>Francisco Flores</b>	<b>Brady Sharp</b>

EMPLOYEES		
Tony Yates	Daniel M.	
Justin Lacome	Miguel L.	
Austin Holdaway		

WELL PROFILE			
Max Treating Pressure (psi):	3500	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	Oil

## Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
	8.5 in	12136	1674		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)

## Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Surface	9.625	36		1674	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Production	4.5	20		12136	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)

## CEMENT DATA

Stage 1:	From Depth (ft):	2379	To Depth (ft):	2232	
	Type: <b>Non-latex Lead</b>				
	Volume (sacks):	25	Volume (bbls):	6	
Cement & Additives:			Density (ppg)	Yield (ft^3/sk)	Water Req.
			14	1.37	5.98

Stage 2:	From Depth (ft):	6894	To Depth (ft):	2379	
	Type: <b>Latex Lead</b>				
	Volume (sacks):	755	Volume (bbls):	184.2	
Cement & Additives:			Density (ppg)	Yield (ft^3/sk)	Water Req.
			14	1.37	4.71

Stage 3:	From Depth (ft):	12136	To Depth (ft):	6894	
	Type: <b>Non-latex Tail</b>				
	Volume (sacks):	985	Volume (bbls):	214	
Cement & Additives:			Density (ppg)	Yield (ft^3/sk)	Water Req.
			14.5	1.22	5.41

Stage 4:	From Depth (ft):	2232	To Depth (ft):	0	
	Type: Barite				
	Volume (sacks):		Volume (bbls):	150	
Cement & Additives:			Density (ppg)	Yield (ft^3/sk)	Water Req.
			12.5	1.34	18.98

SUMMARY						
Preflushes:	3 bbls of	Fresh Water	Calculated Displacement (bbl):	268.7	Stage 1	Stage 2
	150 bbls of	Weighted Spacer	Actual Displacement (bbl):	268.7		
	bbls of					
Total Preflush/Spacer Volume (bbl):	153		Plug Bump (Y/N):	Y	Bump Pressure (psi):	3900
Total Slurry Volume (bbl):	404.2		Lost Returns (Y/N):	N	(if Y, when)	
Total Fluid Pumped	830.9					
Returns to Surface:	Spacer	47 bbls				

Job Notes (fluids pumped / procedures / tools / etc.): TD@12,136'. WSS@12,104'. TVD@6717'. Mix/pump 150bbls of 12.5ppg weighted spacer(Barite) followed by 25sx@14ppg 1.37Y of non-latex lead. Mix/pump 755sx@14ppg 1.37Y of latex lead. Mix/pump 985sx@14.5ppg non-latex tail. ETCC@2232'. Displacement 268.7 bbls of fresh water/ added chemicals. Brought 47 bbls of barite back to surface. Counter read correct displacement at 268.7 but straps on displacement tanks was @212 bbls away. Bumped plug@3900 psi. BWSS@2400psi floats held. Pumped job per customers request. Job went well. Thank you!

Thank You For Using

Customer Representative Signature:

CJES O-TEX Cementing

### Cement Job Log

[illegible]