



Job Summary

Ticket Number	Ticket Date
TN# FL1660	4/16/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-43546
WELL NAME	RIG	JOB TYPE
Ehrlich 5M-343	Ensign 158	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NW NW 5 5N 64W	Klosterman, Austin	Dean Haight

EMPLOYEES		
Doran, Ben	Vieaux, Jon	
Kopp, Jeff		

WELL PROFILE			
Max Treating Pressure (psi):	3000	Bottom Hole Static Temperature (°F):	210
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	1690	13937		
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	J-55	0	1690		
Production	5.5	20	P-110	0	13932		

CEMENT DATA

Stage 1:	From Depth (ft):	0	To Depth (ft):	0
Type: Weighted Spacer	Volume (sacks):	170	Volume (bbls):	40

Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.
100% Poz F+0.1% WG-4P		12.5	1.29	5.91

Stage 2:	From Depth (ft):	0	To Depth (ft):	4000
Type: Lead	Volume (sacks):	790	Volume (bbls):	194

Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.
100% 50:50:0(POZ:Type III:GEL)+0.3% ASM-3+2% FWC-2+0.5% FL-17+0.2% C-20		13.5	1.38	6.54

Stage 3:	From Depth (ft):	4000	To Depth (ft):	13937
Type: Tail	Volume (sacks):	1525	Volume (bbls):	489

Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.
100% 35:65:0(POZ:G:GEL)+25% Silica Flour+0.3% ASM-3+0.5% FL-17+0.2% C-49		13.5	1.80	8.78

SUMMARY

Preflushes:	40 bbls of Mudflush	Calculated Displacement (bbl):	Stage 1	Stage 2
	40 bbls of Weighted Spacer	Actual Displacement (bbl)	308.5	
Total Preflush/Spacer Volume (bbl):	80	Plug Bump (Y/N):	Y	Bump Pressure (psi):
Total Slurry Volume (bbl):	683	Lost Returns (Y/N):	N	(if Y, when)
Total Fluid Pumped	1071			
Returns to Surface:	Cement	15 bbls		

Job Notes (fluids pumped / procedures / tools / etc.): Job went according to program and customer's request. Job went well.

Thank You For Using
O - TEX Pumping

Customer Representative Signature:

