



Job Summary

Ticket Number	Ticket Date
TN# BCO-1901-0170	1/31/2019

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-23063
WELL NAME	RIG	JOB TYPE
Howard Lake 42-9	Ensign 354	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.50217 -104.54747	Francisco Flores	Eduardo Chavez

EMPLOYEES		
<i>Anthony Staples</i>		
<i>Serge Dzmityriyev</i>		
<i>Mike Arthur</i>		

WELL PROFILE			
Max Treating Pressure (psi):	1500	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)
	10	1800	532		
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	8.625	24		532	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	4.5	10.5		1800			
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2.375	4.7	J55	1920	0		

CEMENT DATA

Stage 1:	From Depth (ft):	1920	To Depth (ft):	1198
Type: Stub Plug	Volume (sacks):	255	Volume (bbls):	60.4
Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.
100% CJ922		14.8	1.33	6.32

Stage 2:	From Depth (ft):	738	To Depth (ft):	0
Type: Surface Plug	Volume (sacks):	363	Volume (bbls):	86
Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.
100% CJ922		14.8	1.33	6.32

Stage 3:	From Depth (ft):	180	To Depth (ft):	0
Type: Surface Plug	Volume (sacks):	55	Volume (bbls):	13
Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.
100% CJ922		14.8	1.33	6.32

Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	
Cement & Additives:		Density (ppg)	Yield (ft ³ /sk)	Water Req.

SUMMARY

Preflushes:	16 bbls of Fresh Water	Calculated Displacement (bbl):	4.6	Stage 1	Stage 2
		Actual Displacement (bbl):	4.6		
Total Preflush/Spacer Volume (bbl):	16	Plug Bump (Y/N):		Bump Pressure (psi):	
Total Slurry Volume (bbl):	159.4	Lost Returns (Y/N):		(if Y, when)	
Total Fluid Pumped	180				
Returns to Surface:	Cement	7 bbls			

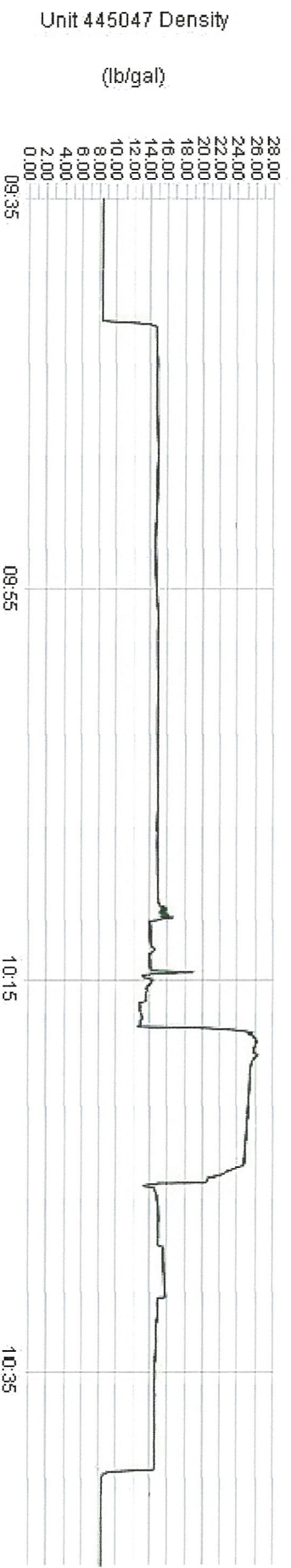
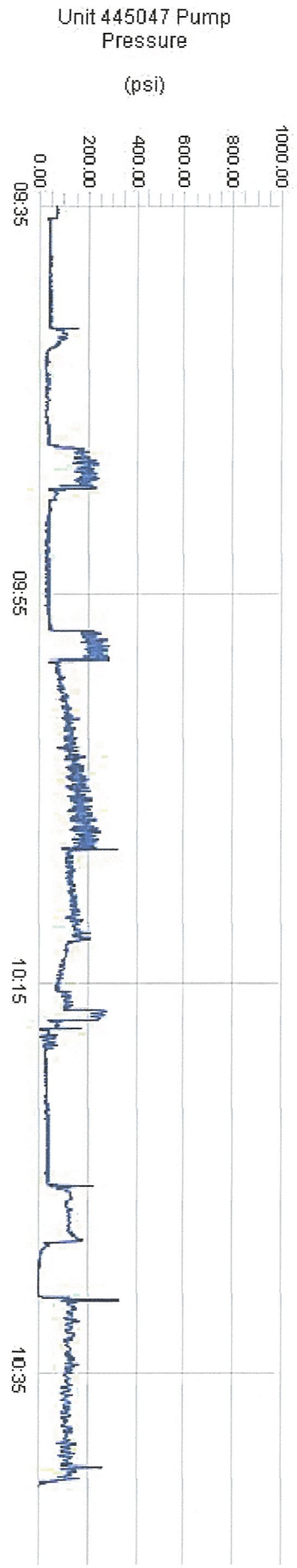
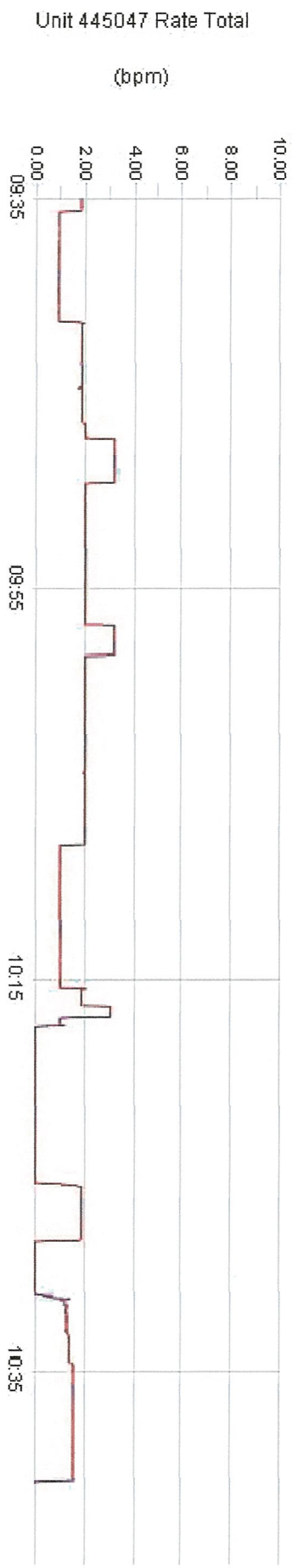
Job Notes (fluids pumped / procedures / tools / etc.):

Casing cut@1800'. End of tubing@1920'. 10" OH from 1800' to 532'. Stub plug- Mix & pump 255sx@14.8ppg 1.33Y. ETOC@1198'. Pulled tubing to 738' Mix & pump 287sx@14.8ppg 1.33Y before we lost circulation. Switched bulk trucks and mixed & pumped 75sx@14.8ppg 1.33Y shut down due to loss of circulation. Rig manager made the call to shut down and pull out tubing and waiting for cement to set up to go tag it. Rig crew tagged cement@180' around 14:00. Established circulation then mixed & pumped 55sx@14.8ppg 1.33Y. Brought cement to surface. Pumped job per customers request.

Thank You For Using
CJES O-TEX Cementing

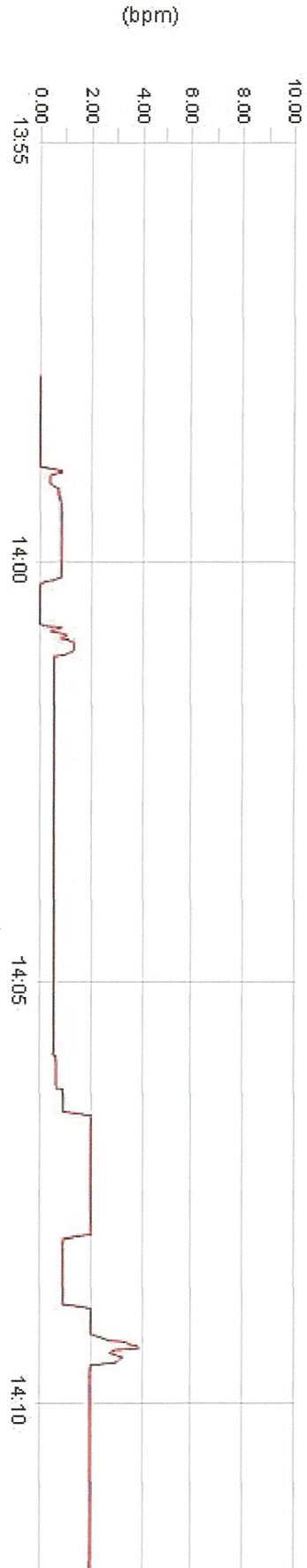
Customer Representative Signature: _____

Client	PDC Energy	Client Rep	Eduardo Chavez	Supervisor	Francisco Flores
Ticket No.	19010170	Well Name	Howard Lake 42-9	Unit No.	445047
Location	SENE 9 6N 64W 6PM	Job Type	Abandonment Plugs	Service District	Brighton
Comments	363sx@14.8ppg 1.33Y			Job Date	01/31/2019

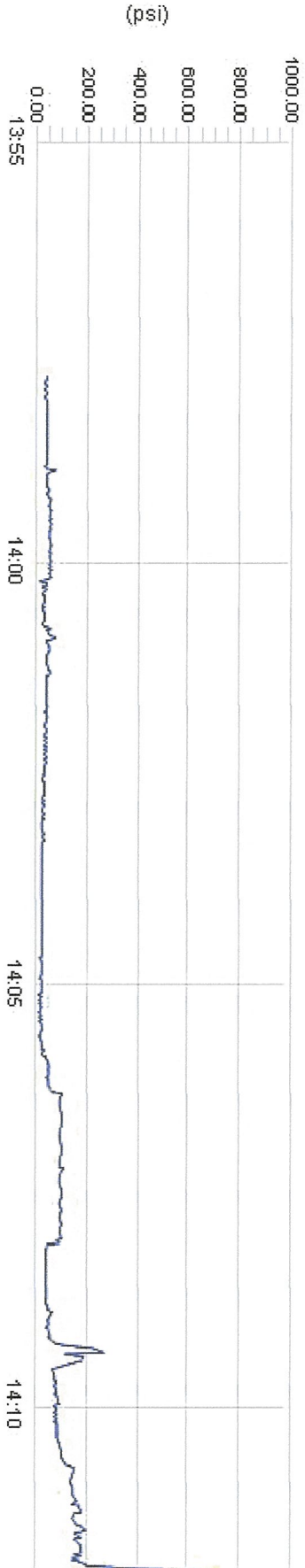


Client	PDC Energy	Client Rep	Eduardo Chavez	Supervisor	Francisco Flores
Ticket No.	19010170	Well Name	Howard Lake 42-9	Unit No.	445047
Location	SENE 9 6N 64W 6PM	Job Type	Abandonment Plugs	Service District	Brighton
Comments	55sx@14:8ppg 1.33Y			Job Date	01/31/2019

Unit 445047 Rate Total



Unit 445047 Pump Pressure



Unit 445047 Density

