



# Job Summary

Ticket Number

TN#

FL3350

Ticket Date

3/21/2018

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-21805
WELL NAME	RIG	JOB TYPE
J & L Farms 12-20	Ensing 313	Balanced Plugs
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
Sec 20 - 6 N - 63 W	Scott, Derek	Ryan Beam

**EMPLOYEES**

Watkins, Robert		
Cicalla, David		
Field, Tony		

**WELL PROFILE**

Max Treating Pressure (psi):	1000	Bottom Hole Static Temperature (*F):	0
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)
	14	365	750		
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		0	365		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	4.5	10.5		0	2885		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2.375	4.7		0	2885		

**CEMENT DATA**

Stage 1:	From Depth (ft):	2640	To Depth (ft):	2885
Type: Plug 1	Volume (sacks):	20	Volume (bbls):	4
Cement & Additives:		Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
100% Class G		15.8	1.15	5.00
Stage 2:	From Depth (ft):	133	To Depth (ft):	844
Type: Plug 2	Volume (sacks):	310	Volume (bbls):	63.5
Cement & Additives:		Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
100% Class G+1% CaCl <sub>2</sub>		15.8	1.16	5.00
Stage 3:	From Depth (ft):	0	To Depth (ft):	133
Type: Plug 3	Volume (sacks):	42	Volume (bbls):	8.5
Cement & Additives:		Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
100% Class G		15.8	1.15	5.00
Stage 4:	From Depth (ft):	0	To Depth (ft):	0
Type: Top off	Volume (sacks):	7	Volume (bbls):	1.5
Cement & Additives:		Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
100% Class G		15.8	1.15	5.00

**SUMMARY**

Preflushes:	9 bbls of	Fresh Water	Calculated Displacement (bbl):	Stage 1	Stage 2
	bbls of		Actual Displacement (bbl):	10.1	
	bbls of			10.1	
Total Preflush/Spacer Volume (bbl):	9		Plug Bump (Y/N):	N/A	Bump Pressure (psi): N/A
Total Slurry Volume (bbl):	77.5		Lost Returns (Y/N):	N	(if Y, when)
Total Fluid Pumped	96.6				
Returns to Surface:	Cement	1 bbls			

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

Job went well.

Customer Representative Signature:

Thank You For Using  
O-TEX Cementing

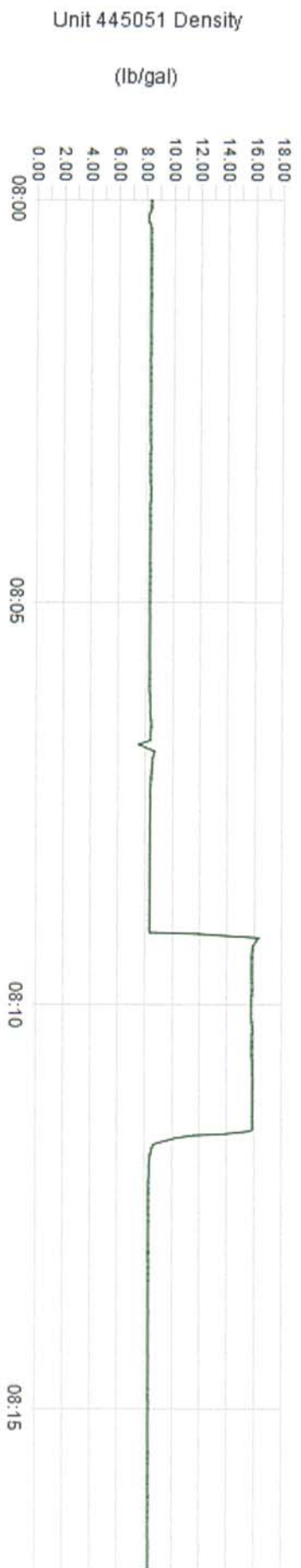
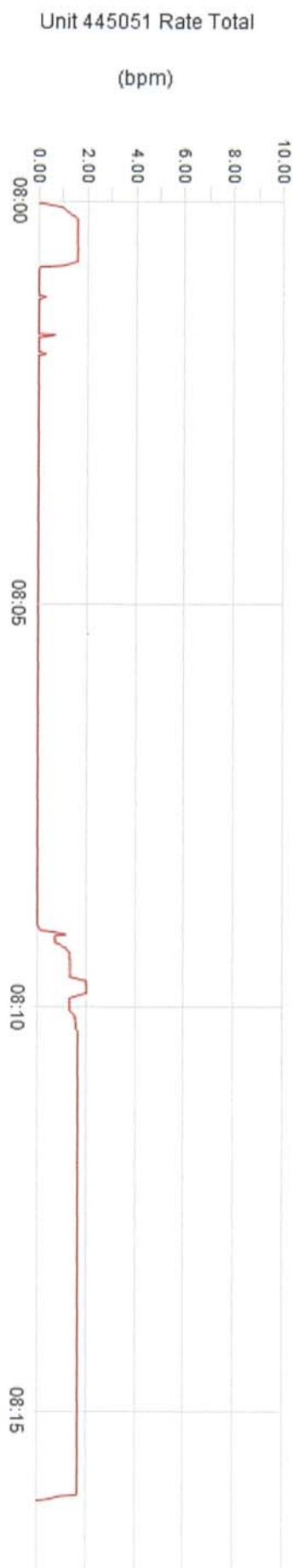
C&J ENERGY SERVICES DRILLING & CEMENTING		CEMENTING JOB LOG		Project Number		Job Date	
O-Tex Location		Customer		FL3350		3/21/2018	
Brighton, Colorado 303-857-7948		PDC Energy, Inc.		State		County	
Lease Name		O-Tex Field Supervisor		CO		Weld	
J & L Farms 12-20		Scott, Derek		Customer Representative		Phone	
Job Type		Man Hours		Ryan Beam		970-405-8585	
Balanced Plugs		36		API Number		05-123-21805	
USE THIS FORM TO NOTE ANY ISSUES ENCOUNTERED WITH THE PERFORMANCE OF THIS JOB.							
THIS MAY INCLUDE TIME AT THE SHOP, ON THE ROAD OR DELAYS WITH DRILLING CONTRACTOR.							
DATE	TIME	VOLUME	RATE	PRESS		JOB PROCEDURES	
				CSG	Tbg.		
3/21/2018	7:00					Arrive on location	
3/21/2018	7:05					Tailgate meeting	
3/21/2018	7:10					Spot trucks/Rig in	
3/21/2018	7:53					Safety meeting	
3/21/2018	7:58	1	bbl	1.50	200	Fill lines/Establish circulation	
3/21/2018	8:00				2900	Pressure test	
3/21/2018	8:02					Batch up cement	
3/21/2018	8:07	4	bbl	2.00	20	Pump 20sx Neat G @ 15.8ppg 1.15yield	
3/21/2018	8:10	10.1	bbl	2.00	100	Displace	
3/21/2018	8:15					Stop/Open return to balance/Wait for rig to cut and pull casing	
3/21/2018	13:35	1	bbl	1.50	150	Hook back up and Establish circulation	
3/21/2018	13:37				2400	Pressure test	
3/21/2018	13:39	7	bbl	0.75	50	Fresh ahead	
3/21/2018	13:46	72	bbl	1.50	160	Pump 310sx G+ 1% CaCl2 and 42sx G neat, to surface @ 15.8ppg	
3/21/2018	14:43					Stop/Wait for rig to pull tubing	
3/21/2018	15:10	0.5		1.50	10	Top off well with 7sx G Neat @ 15.8ppg	
3/21/2018	15:13					Stop/Wait to see if cement will fall	
3/21/2018	15:30					Did not fall/Wash up	
3/21/2018	15:45					Rig down	
3/21/2018	15:55					Pre-departure meeting	
3/21/2018	16:00					Leave location	
JOB CALCULATIONS							
CASING DATA							
ANNULAR DATA							
PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW							



Client  
Ticket No. 3350  
Location SWMW20-6N-63W  
Comments 20sx neat g @ 15.8ppg

Client Rep Ryan Beam  
Well Name J&L Farms 12-20  
Job Type Abandonment Plugs

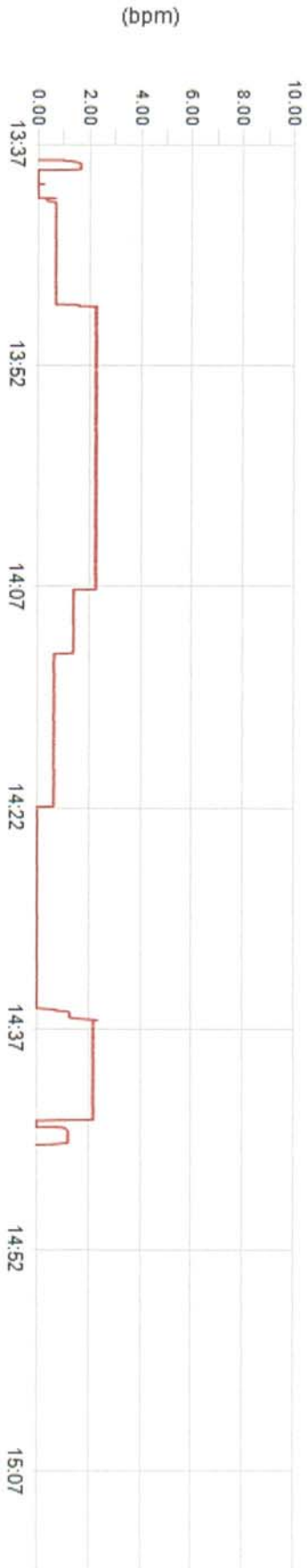
Supervisor Derek Scott  
Unit No. 445051  
Service District Brighton, CO  
Job Date 03/21/2018



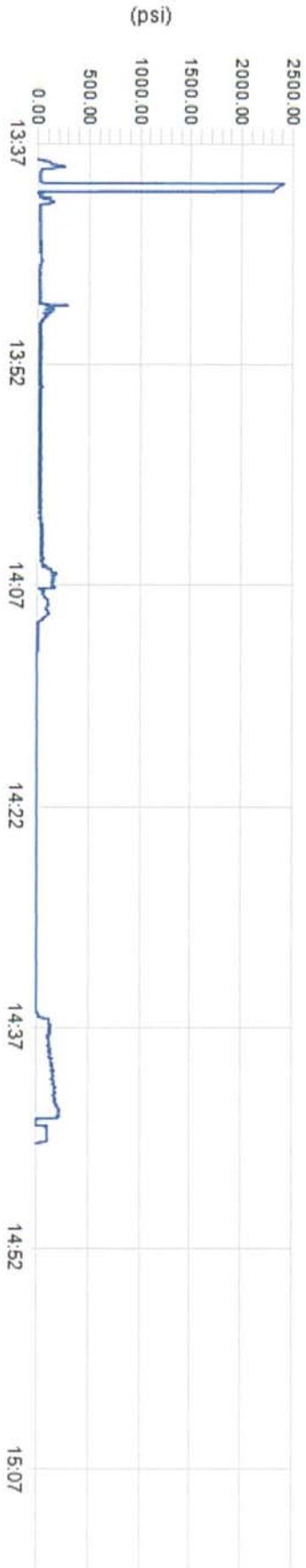


<b>Client</b>	PDC Energy	<b>Client Rep</b>	Ryan Beam	<b>Supervisor</b>	Derek Scott
<b>Ticket No.</b>	3350	<b>Well Name</b>	J&L Farms 12-20	<b>Unit No.</b>	445051
<b>Location</b>	SWNW20-6N-63W	<b>Job Type</b>	Abandonment Plugs	<b>Service District</b>	Brighton, CO
<b>Comments</b>	See Job log			<b>Job Date</b>	03/21/2018

Unit 445051 Rate Total



Unit 445051 Pump Pressure



Unit 445051 Density

