



Job Summary

Ticket Number	Ticket Date
TN# BCO-1912-0121	12/19/2019

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-22789
WELL NAME	RIG	JOB TYPE
Wells Ranch	Ranger 34	CM-P2A-PERM.
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.42656 -104.4065	Tony Yates	Chris Eberle

EMPLOYEES		

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

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	10	1750	1450		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	14	613	400		

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 5/8	24		400	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Casing	4 1/2	10.5		1808	1750		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

CEMENT DATA

Stage 1:
Type: **Stub plug**

From Depth (ft): **1808** To Depth (ft): **1450**
Volume (sacks): **130** Volume (bbls): **30.8**

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Type 3	14.8	1.33	6.32

Stage 2:
Type: **Surface Plug**

From Depth (ft): **613** To Depth (ft): **32**
Volume (sacks): **212** Volume (bbls): **50.3**

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% type 3	14.8	1.33	6.32

Stage 3:
Type: **Top Off**

From Depth (ft): **32** To Depth (ft): **0**
Volume (sacks): **8.5** Volume (bbls): **2**

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Type 3	14.8	1.33	6.32

Stage 4:
Type:

From Depth (ft): To Depth (ft):
Volume (sacks): Volume (bbls):

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

SUMMARY

Preflushes:	5 bbls of Fresh Water	Calculated Displacement (bbl):	5.6	Stage 1	Stage 2
	5 bbls of Fresh Water	Actual Displacement (bbl):	5.1		
Total Preflush/Spacer Volume (bbl):	10	Plug Bump (Y/N):		Bump Pressure (psi):	
Total Slurry Volume (bbl):	82.5	Lost Returns (Y/N):		(if Y, when)	
Total Fluid Pumped	97.6				
Returns to Surface:	Cement 4 bbls				

Job Notes (fluids pumped / procedures / tools / etc.): **Pumped 5 bbls water. Pumped 30.2 bbls cement at 14.8 ppg. Displaced 5.1 bbls water to balance. Rig pulled up to 613'. Established circulation with 5 bbls water. Pumped 50.3 bbls cement at 14.8 ppg to surface. Topped off well with 2 bbls cement. See job log for details.**

Customer Representative Signature: _____ **Thank You For Using**
NexTier Completion Solutions

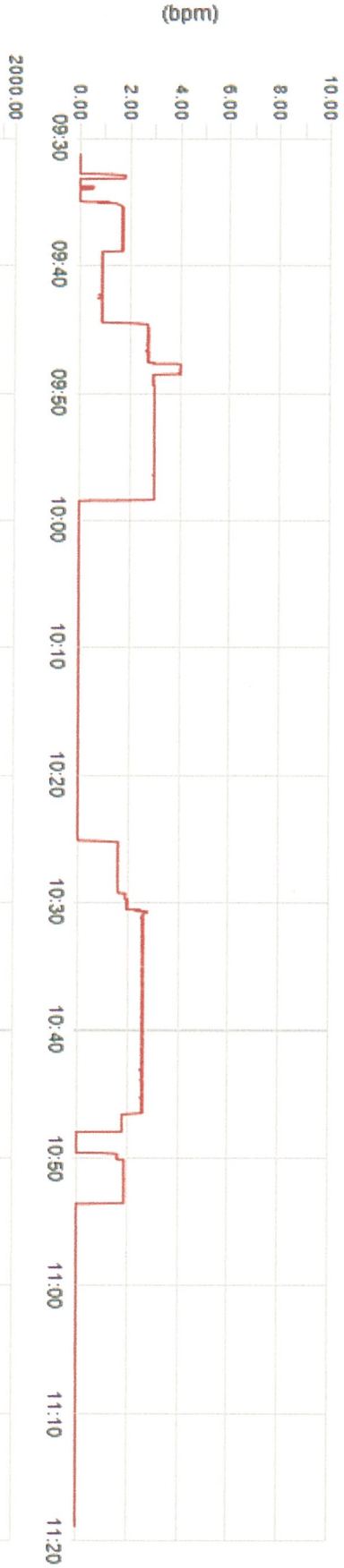


Client PDC
Ticket No. BCO-1912-0121
Location 40.42656 / -104
Comments See job log

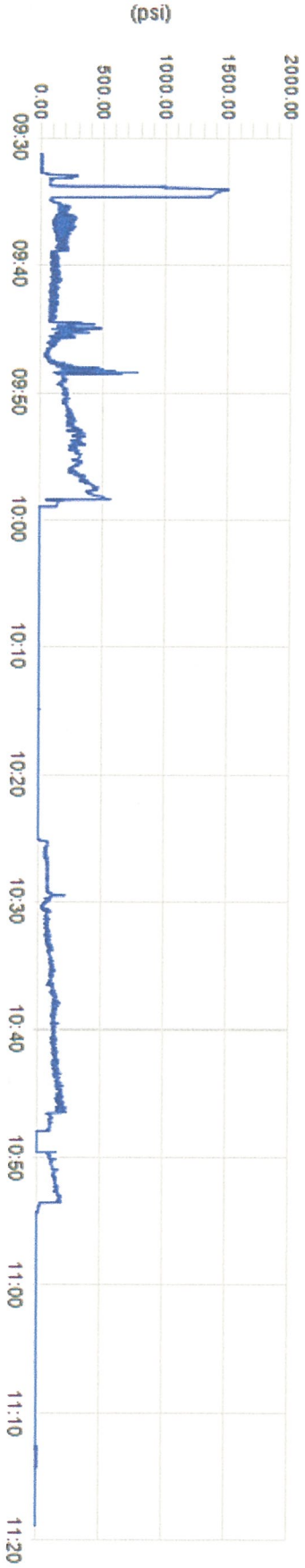
Client Rep Ryan Beam
Well Name Wells ranch 23-2
Job Type Abandonment Plugs

Supervisor Tony Yates
Unit No. 445046
Service District Brighton CO
Job Date 12/19/2019

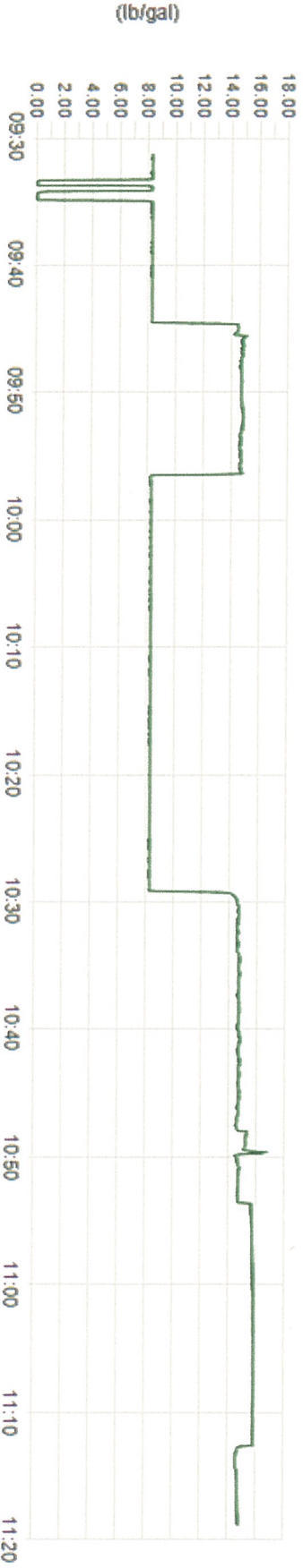
Unit 445046 Rate Total



Unit 445046 Pump Pressure



Unit 445046 Density



RANGER ENERGY SERVICES, LLC

WIRELINE DIVISION

3333 Center Dr.
Milliken, CO.
80543



Company Name: PDC ENERGY, INC.		Company Address: 1775 SHERMAN STREET SUITE 3000 DENVER, CO 80203			Field Ticket Number: 10001327	
Well Name: WELLS RANCH 23-2		Field: WATTENBERG - 90750	County: WELD	State: COLORADO	Rig Name & Number: RANGER ENERGY SERVICES RIG# 5534	
API #: 05-123-22789		AFE #:		Date: 12/18/2019	Wireline Unit # 222	
SERVICE NOTES: (1) 3.625" Gauge Ring to 6617' (4) Set STS 10K CIBP in 4-1/2" csg @ 6298' (7) 4-1/2" Casing Cut @ 1750' (2) Set STS 10K CIBP in 4-1/2" csg @ 6581' (5) Cement Dump Bail 2sx @ 6298' (3) Cement Dump Bail 2sx @ 6581' (6) Radial Bond Log from 2000' - Surface					Engineer:	A, Reagan
					Operator:	T.VANNEST
					Operator:	

RUN	CODE	DESCRIPTIONS	QTY	UNIT PRICE	DISCOUNT	AMOUNT
18-Dec	1000-001	Set Up Charge Cased Hole Unit	1			
18-Dec	3000-001	Packoff Operation Charge0#-1000#	1			
1	8000-009	Junk Catcher / Gauge Ring Depth Charge	6617			
18-Dec	8000-010	Junk Catcher / Gauge Ring Operation Charge	1			
2	8000-001	Bridge Plug Depth Charge	6581			
18-Dec	8000-015	Setting Tool Rental, per tool	1			
	8000-002	Bridge Plug Operation Charge	1			
	8000-014	Standard Set Power Charge	1			
3	7000-006	Dump Bailer Depth Charge	6581			
18-Dec	7000-007	Dump Bailer Operation Charge	1			
4	8000-001	Bridge Plug Depth Charge	6298			
18-Dec	8000-015	Setting Tool Rental, per tool	1			
	8000-002	Bridge Plug Operation Charge	1			
	8000-014	Standard Set Power Charge	1			
5	7000-006	Dump Bailer Depth Charge	6298			
18-Dec	7000-007	Dump Bailer Operation Charge	1			
6	4000-019	Radial Cement Bond Log Depth Charge	2000			
18-Dec	4000-020	Radial Cement Bond Log Operation Charge	2000			
	4000-009	Simultaneous Gamma Ray Log Depth Charge	2000			
	4000-010	Simultaneous Gamma Ray Log Operation Charge	2000			
	4000-013	Simultaneous CCL Log Depth Charge	2000			
	4000-014	Simultaneous CCL Log Operation Charge	2000			
7	5000-011	Jet Cutter Depth Charge	1750			
18-Dec	5000-014	Jet Cutter Operation Charge for Casing	1			

Customer Signature:	Customer Name Printed:	Ranger Energy Services Representative Signature	Ranger Energy Services Representative:
	MR. CHRIS EBERLE		ANDREW REAGAN

The above estimated charges and data shown are subject to change by Ranger Energy Services, LLC. Payment terms are net 30 Days.