



CUSTOMER	PDC ENERGY
DISTRICT	3021
ADDRESS	821 WCR 27, Brighton, CO 80603
PHONE	303-857-7948

AFE #			PO:		
LEASE NAME / NUMBER			API WELL NUMBER		
Wells Ranch 13-2			05-123-23173		
SECTION	TOWNSHIP	RANGE	COUNTY, STATE		
NWSW 2	5N	63W	Weld, CO		
WELL PERMIT NUMBER					
JOB TYPE			CM-P2A-PERM.		
Vehicle Type			Single		

TICKET	BCO-1912-0109
DATE	12/17/2019
CREW INFORMATION	
SUPERVISOR	Tony Yates
PUMP UNIT	44-5046
NUMBERS	
ARRIVAL (D&T)	12/17/19 9:30 AM
DEPARTURE (D&T)	12/17/19 1:30 PM

Service & Equipment Charges

[illegible]

Materials & Products 13

[illegible]

Customer Stamp

Customer Name Printed _____

Customer Signature _____

Date Signed _____



Job Summary

Ticket Number		Ticket Date	
TN#	BCO-1912-0109	12/17/2019	
COUNTY	COMPANY	API Number	
Weld	PDC ENERGY	05-123-23173	
WELL NAME	RIG	JOB TYPE	
Wells Ranch 13-2	Ranger 34	CM-P2A-PERM.	
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP	
40.42672 -104.41131	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	1650	1350		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	14	618	399		

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		399	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		1724	1650		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2 3/8	4.7		1724	0		

CEMENT DATA

Stage 1:	From Depth (ft):	1724	To Depth (ft):	1350
Type: Stub Plug	Volume (sacks):	128	Volume (bbls):	30.3
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% Type 3		14.8	1.33	6.32
Stage 2:	From Depth (ft):	618	To Depth (ft):	35
Type: Surface Plug	Volume (sacks):	218	Volume (bbls):	51.5
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% Type 3		14.8	1.33	6.32
Stage 3:	From Depth (ft):	35	To Depth (ft):	0
Type: Top Off	Volume (sacks):	9.3	Volume (bbls):	2.2
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% Type 3		14.8	1.33	6.32
Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.

SUMMARY

Preflushes:	3 bbls of Fresh Water	Calculated Displacement (bbl):	Stage 1	Stage 2
	5 bbls of Fresh Water	Actual Displacement (bbl):	5.2	
	bbls of		5.2	
Total Preflush/Spacer Volume (bbl):	8	Plug Bump (Y/N):		Bump Pressure (psi):
Total Slurry Volume (bbl):	84	Lost Returns (Y/N):		(if Y, when)
Total Fluid Pumped	97.2			
Returns to Surface:	Cement	4.5 bbls		

Job Notes (fluids pumped / procedures / tools / etc.): Pumped 3 bbls water. Pumped 30.3 bbls cement at 14.8 ppg. Displaced 5.2 bbls water to balance. Rig pulled up to 618'. Pumped 5 bbls water. Pumped 51.5 bbls cement at 14.8 ppg to surface. Topped off well with 2.2 bbls cement. See job log for details.

Thank You For Using

NexTier Completion Solutions

Customer Representative Signature: _____

NEXTIER

12/17/2019



Client
Ticket No.
Location
Comments

PDC
BCO-1912-0109
2-5N-63W
See job log for details

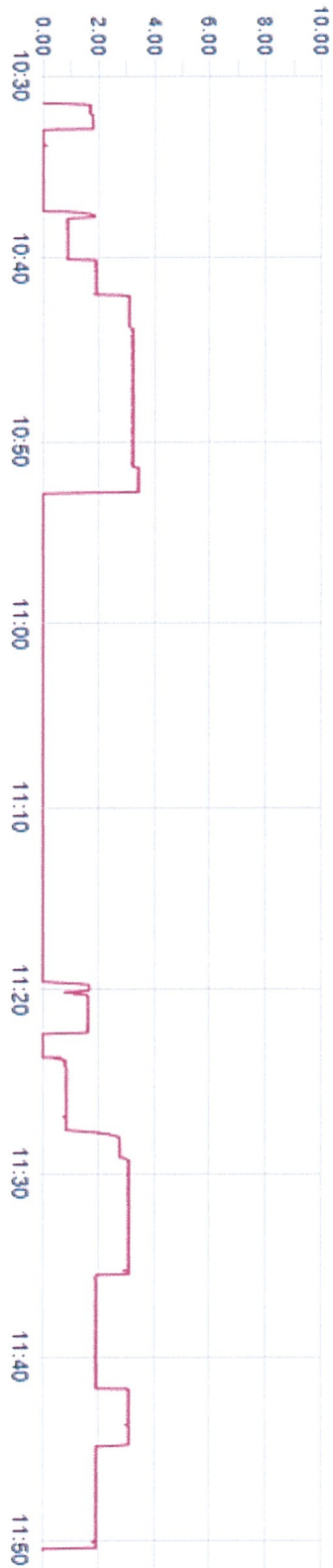
Client Rep
Well Name
Job Type

Chris Eberle
Wells Ranch 13-2
Abandonment plugs

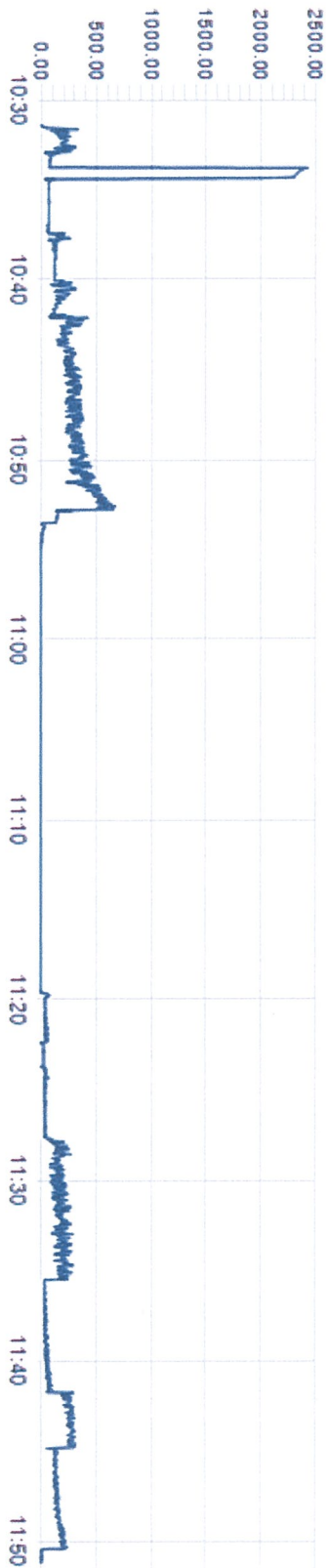
Supervisor
Unit No.
Service District
Job Date

Tony Yates
445046
Brighton CO
12/17/2019

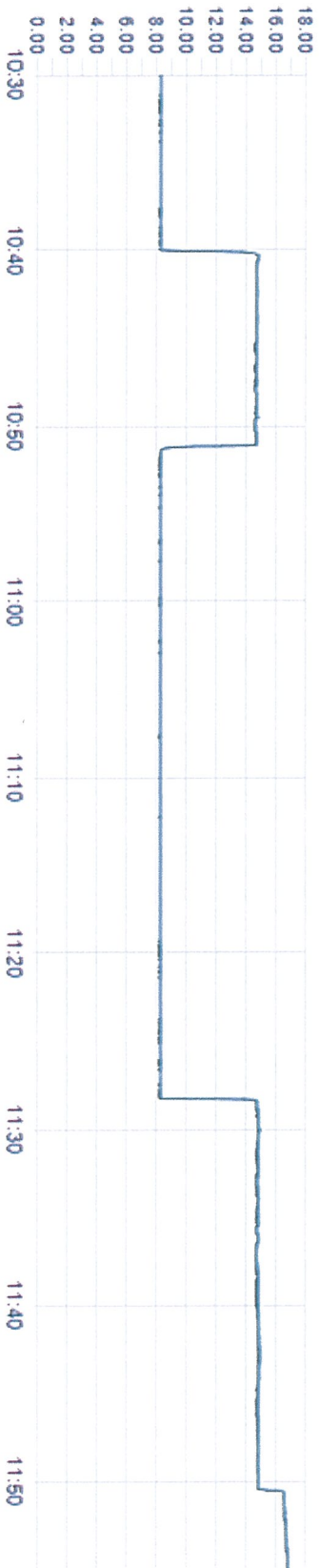
Unit 445046 Rate Total
(bpm)



Unit 445046 Pump Pressure
(psi)



Unit 445046 Density
(lb/gal)



NextTier

12/17/2019

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: 30002003
Well Name: WELLS RANCH 13-2	Field: WATTENBERG - 90750	County: WELD	State: COLORADO	Rig Name & Number: RANGER ENERGY SERVICES RIG# 5534
API #:	AFE #:		Date: 12/12/2019	Wireline Unit # 222
SERVICE NOTES: (1) 3.625" Gauge Ring to 6639' (4) Set STS 10K CIBP in 4-1/2" csg @ 6321' (7) Cut 4-1/2" csg @ 1650' (2) Set STS 10K CIBP in 4-1/2" csg @ 6589' (5) Cement Dump Bail 2sx @ 6321' (3) Cement Dump Bail 2sx @ 6589' (6) Radial Bond Log from 2750' - Surface				Engineer: J.JOHNSON
				Engineer: T. VAN NEST
				Operator:
				Operator:

RUN	CODE	DESCRIPTIONS	QTY	UNIT PRICE	DISCOUNT	AMOUNT
16-Dec	1000-001	Set Up Charge Cased Hole Unit	1			
	3000-001	Packoff Operation Charge0#-1000#	1			
1	8000-009	Junk Catcher / Gauge Ring Depth Charge	6620			
16-Dec	8000-010	Junk Catcher / Gauge Ring Operation Charge	1			
2	8000-001	Bridge Plug Depth Charge	6590			
16-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	6590			
16-Dec	7000-007	Dump Bailer Operation Charge	1			
4	8000-001	Bridge Plug Depth Charge	6320			
16-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	6320			
16-Dec	7000-007	Dump Bailer Operation Charge	1			
6	4000-019	Radial Cement Bond Log Depth Charge	2750			
16-Dec	4000-020	Radial Cement Bond Log Operation Charge	2750			
	4000-009	Simultaneous Gamma Ray Log Depth Charge	2750			
	4000-010	Simultaneous Gamma Ray Log Operation Charge	2750			
	4000-013	Simultaneous CCL Log Depth Charge	2750			
	4000-014	Simultaneous CCL Log Operation Charge	2750			
7	5000-011	Jet Cutter Depth Charge	1650			
16-Dec	5000-014	Jet Cutter Operation Charge for Casing	1			
8						
12-Dec						
9						

Customer Signature:	Customer Name Printed:	Ranger Energy Services Representative Signature:	Ranger Energy Services Representative:
	MR. CHRIS EBERLE		JOEL JOHNSON

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