



Daily Completion Operations

Date: 3/28/2018

Report #: 2.0

Well Name: Peterson 43-13

Well Name Peterson 43-13	Operator PDC Energy Inc.	API 05123204650000	Well Number 105.001218	Last Mod By RABeam	
District Evans	Field Name Wattenberg	County Weld	State CO		
Well Type Development	Surface Legal Location NESE 13 6N 65W	Spud Date 10/25/2001	Original KB Elevation (ft) 4,695.00	Ground Elevation (ft) 4,685.00	KB-Ground Distance (ft) 10.00

Daily Operation: 3/28/2018 06:00 - 3/28/2018 18:00

AFE Number	Job Category Abandon	Objective ABANDON WELL	Start Date 3/27/2018	End Date 3/28/2018	Primary Job Type Abandon Well LOE	Secondary Job Type
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Rigs

Contractor Ranger Energy Services	Rig Number 022
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Daily Operations

Report Start Date 3/28/2018	Report End Date 3/28/2018	Daily Field Est Total (Cost) 21,883.28	Cum Field Est To Date (Cost) 44,101.67
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Status at Reporting Time

Operations Summary

CREW TO LOCATION
WELL WAS DEAD THIS AM, OPENED WELL TO FLAT TANK. P/U MULE SHOE AND TIH OUT OF DERRICK 55 JTS TBG TO PUT EOT @ 1736' KB (136' INSIDE CSG STUB). R/U RIG PUMP, LOADED TBG AND BACKSIDE, ESTABLISHED CIRCULATION AND CONDITIONED HOLE. SHUT DOWN PUMP, WELL WAS STATIC. R/U O-TEX CEMENT SERVICES. RETESTED LINES TO 2500 PSI. MIXED UP AND PUMPED 154 SACKS (31.5 BBLs) 15.8 PPG CEMENT MIXED W/ 2% CaCl FROM 1736' TO 1300'. GOOD CIRCULATION THROUGHOUT ENTIRE JOB AT 2 BBL/MIN RATE. DISPLACED PLUG W/ 5 BBLs FRESH WATER TO BALANCE PLUG. R/D CEMENTERS. POOH L/D ON FLOAT 33 JTS TBG TO PUT EOT @ 702'. R/U CEMENTERS AND RETESTED LINES. MIXED UP AND PUMED 264 SACKS (54 BBLs) 15.8 PPG CEMENT PRE BLENDED TO 2% CaCl AS LEAD. FOLLOWED BY 30 SACKS (6 BBLs) 15.8 PPG G NEAT CEMENT TAIL FROM 702' TO SURFACE. GOOD CIRCULATION THROUGHOUT ENTIRE JOB AT 2 BBL/MIN RATE. RETURNED 2 BBLs CEMENT TO TANK. R/D CEMENTERS AND POOH L/D ON FLOAT 22 JTS TBG AND MULE SHOE. TOPPED OFF WELL W/ 10 SACKS (2 BBLs). TOTAL CEMENT PUMPED WAS 304 SACKS (62 BBLs). R/D CEMENTERS TO WASH UP. N/D BOPS AND CLEANED EQUIPMENT. DUG UP WELL. CUT AND CAPPED WELL 6' BELOW GROUND LEVEL. WELDED ON MARKER PLATE. BURIED WELL AND TURNED OVER TO CONSTRUCTION TO ABANDON FLOWLINE.

THIS IS THE FINAL REPORT.

NOTE THERE WAS 38 JTS 4 1/2" 10.5# CSG AND 219 JTS 2 3/8" 4.70# J-55 TBG SOLD TO KARST. THERE WAS ALSO (2) 10' PUP JOINTS FMTD FROM WELL TO PDC INVENTORY.

Operations Next Report Period

RDMO

Weather	Temperature (*F)	Hole Condition	Road Condition
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Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code	Code Des	Com
06:00	07:00	1.00	1.00	TRAV	Travel - To Location	
07:00	07:30	0.50	1.50	CIRC	Circulating	
07:30	09:30	2.00	3.50	CEMT	Cement Squeeze	PUMPED STUB PLUG FROM 1736' TO 1300'
09:30	10:30	1.00	4.50	RTRIP	Tripping	
10:30	11:30	1.00	5.50	CIRC	Circulating	
11:30	13:30	2.00	7.50	CEMT	Cement Squeeze	PUMPED SURFACE PLUG FROM 702' TO SURFACE
13:30	14:00	0.50	8.00	RTRIP	Tripping	
14:00	15:00	1.00	9.00	SRIG	Rig Up/Down	
15:00	17:00	2.00	11.00	ROTH	Other Rig Work	CUT AND CAP WELL
17:00	18:00	1.00	12.00	TRAV	Travel - From Location	



Well History

Well Name: Peterson 43-13

API 05123204650000		Surface Legal Location NESE 13 6N 65W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,685.00	Original KB Elevation (ft) 4,695.00	KB-Ground Distance (ft) 10.00	Spud Date 10/25/2001 00:00	Rig Release Date 10/30/2001 00:00	On Production Date 12/19/2001	Abandon Date			

Job

Drilling - original, 10/25/2001 00:00

Job Category Drilling	Primary Job Type Drilling - original	Start Date 10/25/2001	End Date 10/30/2001	Objective Drill a New Codell Well
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Daily Operations

Start Date	Summary	End Date
10/25/2001	Mid Continent Rig #1: MIRU. Drill rat and mouse holes and spud 12 1/4" hole.	
10/26/2001	Mid Continent Rig #1: TD 12 1/4" hole at 419'. Condition hole and short trip - preparing to trip out to run 8 5/8" surface casing.	
10/27/2001	Mid Continent Rig #1: TD 12 1/4" hole at 419'. Ran 8 5/8" surface casing, 10 joints. Set @401'. Cemented w/295sks. Plug down @11AM.	
10/28/2001	Drilling 7 7/8" hole @3791'.	
10/29/2001	Drilling 7 7/8" hole @5786'.	
10/30/2001	MCE Rig #1: TD 7 7/8" hole @ 7175' KB. MIRU PSI and ran Comp Density/Comp Neutron/Dual Induction log. LTD @ 7185' KB. RU casing crew and ran 14' shoe joint, 166 joints of 10.5 #/ft, M-65, 4 1/2" casing with 1 joint of 11.6 #/ft, N-80 on top of string. Casing set @ 7175' KB. Latch down insert @ 7161' KB. MIRU Halliburton. Pumped 10 bbl pre flush, 10 bbl mud flush, 56 bbl 50/50 poz + additives (250 sx), 152 bbl HLC III + additives (220 sx) and 42 bbl Premium G + additives (140 sx). Released wiper plug and displaced with 114 bbl treated water. Plug down OK @ 10:10 pm. ECT @ 3150' KB. Released rig @ 11:00 pm.	

Initial Completion, 10/31/2001 00:00

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 10/31/2001	End Date 1/24/2002	Objective Complete a New Codell Well
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Daily Operations

Start Date	Summary	End Date
10/31/2001	Logged hole ran & cemented production casing.	
11/5/2001	MIRU Nuex Wireline. Ran GRVDL/CBL. PBTD found @ 7175' KB. Cement top @ 3050' KB. Perforated the Codell from 6936' to 6944' KB with 24, .34 diameter holes, 3 spf, 120 deg phasing. RDMO Nuex.	
11/8/2001	MIRU BJ Services. Frac'd the Codell with 2774 bbl Vistar 20/18 and 225700# 20/40 mesh white sand. Breakdown @ 2824 psig; MTP - 3870 psig; ATP - 3625 psig; AIR - 16.4 bpm; 4 ppa sand; ISIP - 3653 psig; 108 bbl flush; Open well to tank on 12/64 choke.	
1/23/2002	MIRU completion rig. Kill well with 2% KCL. NU BOPs & tally in hole with 2 3/8 tubing. Tag sand fill @ 6950'. Pull 1 stand & SDFN.	
1/24/2002	RU circ pump & clean out hole to 7119. (Codell 6934-42). Circ 45 mins on btm. Land tubing with 219 jts + (2) 10' subs @ 6920 KB depth. Flange up wellhead & RDMO comp rig.	

Tubing Repair, 1/23/2002 00:00

Job Category Completion/Workover	Primary Job Type Tubing Repair	Start Date 1/23/2002	End Date 1/24/2002	Objective
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Daily Operations

Start Date	Summary	End Date
1/23/2002	MIRU completion rig. Kill well with 2% KCL. NU BOPs & tally in hole with 2 3/8 tubing. Tag sand fill @ 6950'. Pull 1 stand & SDFN.	
1/24/2002	RU circ pump & clean out hole to 7119. (Codell 6934-42). Circ 45 mins on btm. Land tubing with 219 jts + (2) 10' subs @ 6920 KB depth. Flange up wellhead & RDMO comp rig.	



Daily Completion Operations

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Daily Operation: 3/28/2018 06:00 - 3/28/2018 18:00

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Rigs

Contractor Ranger Energy Services	Rig Number 022
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Daily Operations

Report Start Date 3/28/2018	Report End Date 3/28/2018	Daily Field Est Total (Cost) 21,883.28	Cum Field Est To Date (Cost) 44,101.67
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Operations Next Report Period

RDMO

Weather	Temperature (*F)	Hole Condition	Road Condition
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Daily Operation: 3/28/2018 06:00 - 3/28/2018 18:00

AFE Number PA000767	Job Category Abandon	Objective ABANDON WELL	Start Date 3/27/2018	End Date 3/28/2018	Primary Job Type Abandon Well LOE	Secondary Job Type
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Rigs

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Operations Next Report Period

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Daily Completion Operations

Date: 3/27/2018

Report #: 1.0

Well Name: Peterson 43-13

Well Name Peterson 43-13	Operator PDC Energy Inc.	API 05123204650000	Well Number 105.001218	Last Mod By RABeam	
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Well Type Development	Surface Legal Location NESE 13 6N 65W	Spud Date 10/25/2001	Original KB Elevation (ft) 4,695.00	Ground Elevation (ft) 4,685.00	KB-Ground Distance (ft) 10.00

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Rigs

Contractor Ranger Energy Services	Rig Number 022
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Daily Operations

Report Start Date 3/27/2018	Report End Date 3/27/2018	Daily Field Est Total (Cost) 22,218.39	Cum Field Est To Date (Cost) 22,218.39
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Status at Reporting Time

Operations Summary

MIRU RANGER RIG #22
IWP TBG- 300 PSI, CSG- 300 PSI, SURFACE CSG- 0 PSI. HELD SAFETY MEETING AND FUNCTION TESTED BOPS. OPENED WELL TO FLAT TANK TO BLOW DOWN. R/U RIG PUMP, LOADED TBG AND BACKSIDE, ESTABLISHED CIRCULATION AND ROLLED HOLE CLEAN. N/D WELL HEAD TREE AND N/U BOPS. TALLY OUT TO DERRICK 54 JTS TBG AND POOH L/D ON FLOAT 165 JTS TBG AND (2) 10' PUP JOINTS. TOTAL TBG IN THE HOLE WAS 219 JTS 2 3/8" 4.70# J-55 8RD TBG AND (2) 10' PUP JOINT. R/U RANGER WIRELINE. P/U RIH W/ 3.625" GAUGE RING AND JUNK BASKET DOWN TO 6900'. POOH L/D GAUGE RING. P/U RIH W/ STS 4 1/2" 10K CIBP. CORRELATE WITH LOG AND SET CIBP #1 @ 6886' KB (50' ABOVE TOP CODELL PERFS). DUMP BAILED 2 SACKS OF CEMENT ON TOP OF CIBP. POOH. P/U RIH W/ STS 4 1/2" 10K CIBP #2 AND SET @ 6584' KB (50' ABOVE TOP OF NIO FORMATION). DUMP BAILED 2 SACKS OF CEMENT ON TOP OF CIBP. POOH. R/D WIRELINE. R/U RIG PUMP, LOADED CSG WITH FRESH WATER, CLOSED RAMS AND PRESSURE TESTED CSG TO 1000 PSI. HELD FOR 15 MIN. GOOD TEST. N/D BOPS AND WELL HEAD. P/U CSG SPEAR. UNLANDED CSG AND N/U SURFACE SPOOL AND BOPS. WORKED CSG. CSG FREE TO 2000'. SET CSG IN SLIPS. R/U WIRELINE. RIH W/ JET CUTTER AND CUT CSG AT 1600'. POOH R/D WIRELINE. POOH L/D ON FLOAT 38 JTS 4 1/2" 10.5# CSG. CHANGED EQUIPMENT OVER TO 2 3/8" . SWI, SDFD, CREW TO THE YARD.

Operations Next Report Period

PUMP BALANCED PLUG AND SURFACE PLUG

Weather	Temperature (°F)	Hole Condition	Road Condition
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Time Log

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07:00	08:00	1.00	2.00	RMOV	Rig Move	
08:00	08:30	0.50	2.50	SRIG	Rig Up/Down	
08:30	09:30	1.00	3.50	CIRC	Circulating	
09:30	10:00	0.50	4.00	BOPI	Install BOP's	
10:00	11:30	1.50	5.50	RTRIP	Tripping	
11:30	13:30	2.00	7.50	EWLO	Other	SET CIBPS ABOVE FORMATION TOPS
13:30	14:00	0.50	8.00	PTST	Pressure Test	GOOD CSG TEST TO 1000 PSI
14:00	15:00	1.00	9.00	ROTH	Other Rig Work	UNLANDED CSG AND WORKED STRETCH
15:00	16:00	1.00	10.00	EWLO	Other	CUT CSG AT 1600'
16:00	17:00	1.00	11.00	RTRIP	Tripping	
17:00	18:00	1.00	12.00	TRAV	Travel - From Location	

RANGER ENERGY SERVICES, LLC

WIRELINE DIVISION

3333 Center Dr
Milliken, Co



Service Date:

Company Name: PDC		Company Address:			Field Ticket Number: 30001852
Well Name: PETERSON 43-13		Field: WATTENBERG	County: WELD	State: COLORADO	Rig Name & Number: Ranger Rig #22
SERVICE NOTES: JCGR TO 6900' / Set STS CIBP at 6886' with 2 sx cement / Set STS CIBP @ 6584' with 2 sx cement/ JC 4.5" casing @ 1600'				Date: 3/27/2018	Wireline Unit # 222 Engineer: J. JOHNSON Operator: T. VAN NEST Operator:

RUN	CODE	DESCRIPTIONS	QTY	UNIT PRICE	DISCOUNT	AMOUNT
1	1000-001	Set Up Charge Cased Hole Unit	1			
	3000-001	Packoff Operation Charge 0#-1000#	1			
	2000-003	API Type 6BX, 5,000 lb. WP 13-3/8" and smaller	1			
2	8000-009	Junk Catcher / Gauge Ring Depth Charge	6900			
	8000-010	Junk Catcher / Gauge Ring Operation Charge	1			
3	8000-001	Bridge Plug Depth Charge	6886			
	8000-002	Bridge Plug Operation Charge	1			
4	8000-015	Setting Tool Rental, per tool	1			
	7000-006	Dump Bailer Depth Charge	6886			
	7000-007	Dump Bailer Operation Charge	1			
5	8000-001	Bridge Plug Depth Charge	6584			
	8000-002	Bridge Plug Operation Charge	1			
	8000-015	Setting Tool Rental, per tool	1			
	7000-006	Dump Bailer Depth Charge	6584			
	7000-007	Dump Bailer Operation Charge	1			
6	5000-011	Jet Cutter Depth Charge	1600			
	5000-014	Jet Cutter Operation Charge for Casing	1			
7	8000-014	Standard Set Power Charge	2			

Customer Signature:	Customer Name Printed: RYAN BEAM	Ranger Energy Services Representative Signature:
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The above estimated charges and data shown are subject to change by Ranger Energy Services, LLC. Payment terms are net 30 Days.



Job Summary

Ticket Number	Ticket Date
TN# FL3411	3/28/2018

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-20465
WELL NAME	RIG	JOB TYPE
Peterson 43-13	Ranger #22	Balanced Plugs
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NESE 13-6N-65W	Scott, Derek	Ryan Beam

EMPLOYEES		
Watkins, Robert		
Melgarejo, Eduardo		
Courtney, Brad		

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	401	1600		
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	401		
Production	4.5	10.5		1600	1736		
Tubing	2.375	4.7		0	1736		

CEMENT DATA

Stage 1:	From Depth (ft):	1300	To Depth (ft):	1736
Type: Plug 1	Volume (sacks):	154	Volume (bbls):	31.5
Cement & Additives:				
100% Class G+2% CaCl2				
	Density (ppg)	15.8	Yield (ft ³ /sk)	1.15
	Water Req.	5.00		

Stage 2:	From Depth (ft):	94	To Depth (ft):	702
Type: Plug 2	Volume (sacks):	264	Volume (bbls):	54
Cement & Additives:				
100% Class G+2% CaCl2				
	Density (ppg)	15.8	Yield (ft ³ /sk)	1.16
	Water Req.	5.00		

Stage 3:	From Depth (ft):	0	To Depth (ft):	94
Type: Plug 2	Volume (sacks):	30	Volume (bbls):	6
Cement & Additives:				
100% Class G				
	Density (ppg)	15.8	Yield (ft ³ /sk)	1.15
	Water Req.	5.00		

Stage 4:	From Depth (ft):	0	To Depth (ft):	0
Type: Top off	Volume (sacks):	10	Volume (bbls):	2
Cement & Additives:				
100% Class G				
	Density (ppg)	15.8	Yield (ft ³ /sk)	1.15
	Water Req.	5.00		

SUMMARY

Preflushes:	12 bbls of Fresh Water	Calculated Displacement (bbl):	5	Stage 1	Stage 2
	bbls of	Actual Displacement (bbl):	5		
	bbls of	Plug Bump (Y/N):	N/A	Bump Pressure (psi):	N/A
Total Preflush/Spacer Volume (bbl):	12	Lost Returns (Y/N):	N (if Y, when)		
Total Slurry Volume (bbl):	93.5				
Total Fluid Pumped	110.5				
Returns to Surface:	Cement 1 bbls				

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

Plug 2) Filled up well with 60bbls (294sx) Topped off well with 2bbls (10sx). Job went well.

Customer Representative Signature: _____

Thank You For Using
O-TEX Cementing



Service Location: Brighton, Colorado 303-857-7948
 Service Address: 821 County Road 27, Brighton, CO 80603

FIELD RECEIPT

TN # FL3411

Service Date:	3/28/2018	Well Name:	Peterson 43-13
Customer:	PDC Energy, Inc.	Job Type:	Balanced Plugs
Address:	PO Box 26	Service Supervisor:	Scott, Derek
City:	Attn: Accounts Payable	Pump #1	445047
St:	Bridgeport	Pump #2	
Customer Rep:	WV 26330		
	Ryan Beam		

REF #	Description	unit of measure	unit price	quan	gross	disc	net
CM006	O-Tex Ultra Premium Cement (94lbs/ft3)	94SACK	\$ 38.20	458			
CP018	Calcium Chloride	LBS	\$ 1.22	786			
CT002	Pump Charge 0-2000'	4-HRS	\$ 3,234.33	1			
JM001	Data Acquisition System	JOB	\$ 1,437.48	1			
AE014	Environmental Fee*	JOB	\$ 228.69	1			
ML001	Pickup Mileage	UNTMIL	\$ 4.26	40			
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	\$ 7.32	40			
ML003	Bulk Cement Delivery/Return	MILE	\$ 2.95	878			
MIX001	Bulk Material Mixing Service Charge	SCF	\$ 3.27	621			

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: _____

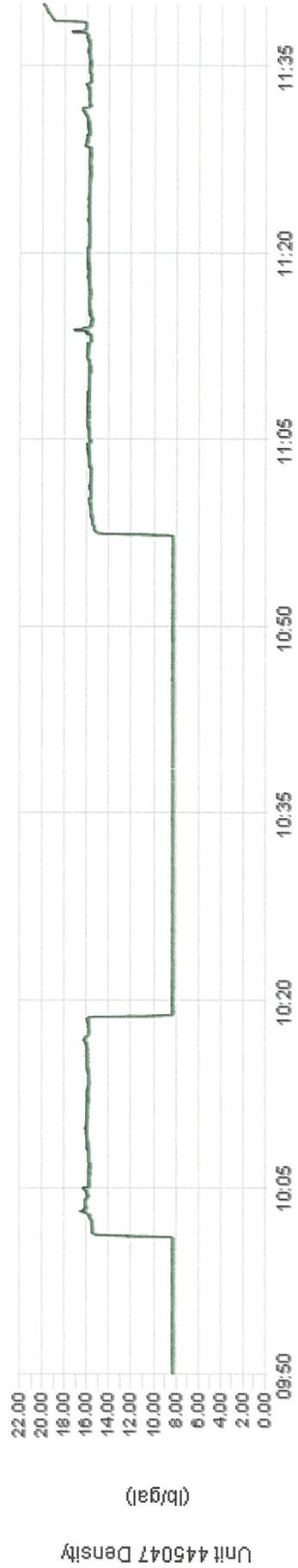
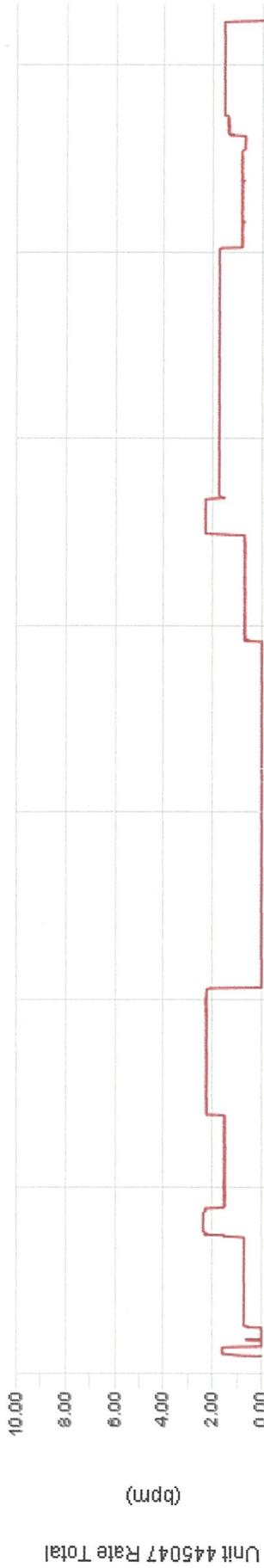
DISCLAIMER OF LIABILITY: With respect to this report, neither C&J Energy Services nor any of their employees, express or implied, including the warranties of merchantability and fitness for a particular purpose, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.



Client: PDC Energy
 Ticket No.: 3411
 Location: NESE 13-6N-65W
 Comments: See job log

Client Rep: Ryan Beam
 Well Name: Peterson 43-13
 Job Type: Abandonment Plugs

Supervisor: Derek Scott
 Unit No.: 445047
 Service District: Brighton, CO
 Job Date: 03/28/2018





Field Ticket #

21539

NO. 21539

Date

3/27/2018

Sater Tools and Services LLC, 2424 6th Ave, Greeley Co 80631 Office 970-356-4644 Fax 970-356-0185

Bill To Customer:	P D C	PO#		Lease Name:	Peterson	Well #:	43-13
Address:	3801 Carson Ave	Field:		County:	Weld	St:	CO
City:	Evans	Legal Description:		Job Type:		Invoice Ref. #:	
State:	CO	Zip:	80620	Casing Sz & Wt:	4-1/2 11.6#	OCSG #:	
Ordered By:	Ryan Beam			Service Man:	MERCED TERRAZAS		

NO.	RENTALS/SALES	QTY
1	Rental of TIW valve	1
2		
3		
4		
5		
6		
7		
8	Rental of 9487 casing spear	1
9	Rental of 9487 3.941 spear grapple	1
10	Rental of 2-3/8 reg pin x 2-3/8 IF box, 2-3/8 IF spear extension and lifting sub	3
11		
12		
13		
14	Rental of 8-5/8 surface head adopter pool	1
Subtotal Taxable Charges		
SERVICE MANS TIME		
	Service mans time	1
	Inspection charges	9
Subtotal Non-Taxable Charges		
MILEAGE		
	Mileage	20
Subtotal Non-Taxable Charges		

Terms: Net 30 Days

Authorized Agent: _____ Date: 3/27/18