



ENSIGN WELL SERVICES

24020 Weld County Road 46, LaSalle, Colorado 80645
Telephone (970) 284-6006



RIG/UNIT #: 354
TOUR: Day Shift

DAILY WORK RECORD

Ticket No: 4043496-SO4

DATE: 09-Apr-18, 06:00

Page: 1 of 1

COMPANY			
PDC ENERGY, INC		LOCATION: GREEN 11-24 (CO, Station: Lasalle)	
ATTENTION: ACCOUNTS PAYABLE		PO:	
BRIDGEPORT, West Virginia, USA 26330		AFE:	



CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	9.50	406.50	3,861.75
Rig Up	1.00	290.00	290.00
Crew Travel	2.00	193.60	387.20
Bird Bath Rental	1.00	30.80	30.80
Tubing Wiper Rubber	1.00	48.00	48.00
Thread Dope	1.00	40.00	40.00
CHARGES & EXPENDABLES SUB-TOTAL			4,657.75
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 4,657.75

ROD & TUBING DETAILS			
ROD DETAILS			
PULLED	SIZE:	PLAIN:	SCRAPERS:
PONYS:			
RAN	SIZE:	PLAIN:	SCRAPERS:
PONYS:			
NOTES:			
TUBING DETAILS			
PULLED	SIZE:	JOINTS:	TALLY:
RAN	SIZE:	JOINTS:	TALLY:
LANDED AT:		NIPPLE AT:	
NOTES:			
PUMP DETAILS			
SIZE:		TYPE:	SERIAL #:

PRESSURE TESTS						
FUNCTION BOP	TIME TO OPERATE (s)	LOW (psi)	TIME (min)	HIGH (psi)	TIME (min)	TEST DATE & TIME
INITIAL ACCUM. PRESSURE:		FINAL ACCUM. PRESSURE:		RECHARGE TIME:		
DAILY WALK AROUND: Not run		RAM SAVER: NO		EMERGENCY HORN TEST: Not run		
LEL TEST: Not run		CROWN SAVER: Not run		EMERGENCY ENGINE KILLS: Not run		
DETAILED INSPECTION DATE:				SCBA DRILL DATE:		
MAN DOWN DRILL DATE:				RIG RESCUE DRILL DATE:		
BOP DRILL DATE:				BOP DRILL DURATION:		
IADC DETAILED INSPECTION DATE:						
WEATHER: Partly Cloudy		WIND: Light		TEMP: 0 °F		H2S (%): 0.0

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
09-Apr-18, 06:00	09-Apr-18, 18:30	12.50	BOP - Nipple Up/Down - BOPE & Wellhead	Crew traveled to loc crew held safety meeting check press 0/0 open to work tank function test BOP test good TITH w/ 51jnts CICR stinger R/U tbg swivel circ subs into CICR @ 1615' w/ 51jnts 2x10' sub 2' sub R/D tbg swivel MIRU cementers held safety meeting pumped 10bbl sapp sweep 40bbl fresh spacer mix/pump 155sxs cement displaced 4.2bbl R/D cementers TOTD 26jnts to derrick L/D 25jnts to trailer MIRU wireline RIH jet cutter cut csg @ 750' R/D wireline R/D work floor tbg equip N/D BOP wellhead remove 8 5/8 cap/packing P/U lift sub unland csg from slips N/U 8 5/8 spool BOP R/U work floor csg equip L/D 18jnts 4 1/2" csg to trailer change equip to 2 3/8 TITH w/ mule shoe 27jnts 2 3/8 tbg to 850' R/U Kelly circ well clean R/D Kelly R/U cementers mix/pump 290sxs 850' to surf R/D cementers L/D 27jnts to trailer R/D work floor tbg equip N/D BOP 8 5/8 spool top off with 10sxs wash up lines/equip R/D rig R/D pump/tank prep rig/equip for rig move crew cleaned loc crew/traveled home
TOTAL TIME: 12.50 hours				

CREW DETAILS									
ROLE	NAME	START TIME	DURATION (hrs)	TRAVEL TIME (hrs)	PERS. VEH.	TRAVEL DIST (mi)	SUB.	DIST FROM RES (mi)	INJURY FREE
Service Rig Manager	Matthew McGraw	09-Apr-18, 06:00	12.50	0.00	No	0.00		0.00	Yes
Operator	Ever Valverde	09-Apr-18, 06:00	12.50	0.00	No	0.00		0.00	Yes
Derrickhand	Jose Luna Morales	09-Apr-18, 06:00	12.50	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	09-Apr-18, 06:00	12.50	0.00	No	0.00		0.00	Yes
Relief Operator	Jorge Acosta	09-Apr-18, 06:00	12.50	0.00	No	0.00		0.00	Yes

SIGNATURES	
RIG MANAGER/SUPERVISOR'S SIGNATURE: 	The customer agrees that the contractor ("Ensign") will perform the work and supply the materials ("the work") as described within and in accordance with the conditions set out in the IADC contract and in accordance with all exhibits, specifications, schedules and/or parts (if any) attached hereto. OPERATOR'S REP. SIGNATURE:  Bud Holman 970-301-3897



ENSIGN WELL SERVICES

24020 Weld County Road 46, LaSalle, Colorado 80645
Telephone (970) 284-6006



RIG/UNIT #: 354
TOUR: Day Shift

DAILY WORK RECORD

Ticket No: 4043496-SO3

DATE: 06-Apr-18, 06:00

Page: 1 of 1

COMPANY				
PDC ENERGY, INC		LOCATION: GREEN 11-24 (CO, Station: Lasalle)		PO:
ATTENTION: ACCOUNTS PAYABLE				AFE:
BRIDGEPORT, West Virginia, USA 26330				



CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	6.00	406.50	2,439.00
Crew Travel	6.00	193.60	1,161.60
Bird Bath Rental	1.00	30.80	30.80
CHARGES & EXPENDABLES SUB-TOTAL			3,631.40
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 3,631.40

ROD & TUBING DETAILS			
ROD DETAILS			
PULLED	SIZE:	PLAIN:	SCRAPERS:
RAN	SIZE:	PLAIN:	SCRAPERS:
NOTES:			
TUBING DETAILS			
PULLED	SIZE:	JOINTS:	TALLY:
RAN	SIZE:	JOINTS:	TALLY:
LANDED AT:			
NIPPLE AT:			
NOTES:			
PUMP DETAILS			
SIZE:		TYPE:	SERIAL #:

PRESSURE TESTS						
FUNCTION BOP	TIME TO OPERATE (s)	LOW (psi)	TIME (min)	HIGH (psi)	TIME (min)	TEST DATE & TIME
INITIAL ACCUM. PRESSURE:		FINAL ACCUM. PRESSURE:		RECHARGE TIME:		
DAILY WALK AROUND: Not run		RAM SAVER: NO		EMERGENCY HORN TEST: Not run		
LEL TEST: Not run		CROWN SAVER: Not run		EMERGENCY ENGINE KILLS: Not run		
DETAILED INSPECTION DATE:				SCBA DRILL DATE:		
MAN DOWN DRILL DATE:				RIG RESCUE DRILL DATE:		
BOP DRILL DATE:				BOP DRILL DURATION:		
IADC DETAILED INSPECTION DATE:						
WEATHER: Snowing		WIND: Light		TEMP: 0 °F		H2S (%): 0.0

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
06-Apr-18, 06:00	06-Apr-18, 18:00	12.00	Rig - Pick Up/Lay Down Tubular	Crew traveled to loc crew held safety meeting check press 0/0 open to tank function test BOP test good L/D 49jnts 2 3/8 tbg MIRU wireline RIH squeeze gun shoot bottom holes @ 1900' shoot top holes @ 1600' RIH CICR set @ 1615' R/D wireline crew drained pump/lines crew cleaned loc crew traveled home
TOTAL TIME: 12.00 hours				

CREW DETAILS									
ROLE	NAME	START TIME	DURATION (hrs)	TRAVEL TIME (hrs)	PERS. VEH.	TRAVEL DIST (mi)	SUB.	DIST FROM RES (mi)	INJURY FREE
Service Rig Manager	Matthew McGraw	06-Apr-18, 06:00	12.00	0.00	No	0.00		0.00	Yes
Derrickhand	Jose Luna Morales	06-Apr-18, 06:00	12.00	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	06-Apr-18, 06:00	12.00	0.00	No	0.00		0.00	Yes
Relief Operator	Jorge Acosta	06-Apr-18, 06:00	12.00	0.00	No	0.00		0.00	Yes

SIGNATURES	
RIG MANAGER/SUPERVISOR'S SIGNATURE: 	The customer agrees that the contractor ("Ensign") will perform the work and supply the materials ("the work") as described within and in accordance with the conditions set out in the IADC contract and in accordance with all exhibits, specifications, schedules and/or parts (if any) attached hereto. OPERATOR'S REP. SIGNATURE:  Bud Holman 970-301-3897



ENSIGN WELL SERVICES

24020 Weld County Road 46, LaSalle, Colorado 80645
Telephone (970) 284-6006



RIG/UNIT #: 354
TOUR: Day Shift

DAILY WORK RECORD

Ticket No: 4043496-SO2

DATE: 05-Apr-18, 06:00

Page: 1 of 1

COMPANY		
PDC ENERGY, INC	LOCATION: GREEN 11-24 (CO, Station: Lasalle)	PO:
ATTENTION: ACCOUNTS PAYABLE		AFE:
BRIDGEPORT, West Virginia, USA 26330		

CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	12.00	406.50	4,878.00
Crew Travel	2.00	193.60	387.20
Bird Bath Rental	1.00	30.80	30.80
Thread Dope	1.00	40.00	40.00
CHARGES & EXPENDABLES SUB-TOTAL			5,336.00
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 5,336.00

CUSTOMER STAMP



ROD & TUBING DETAILS			
ROD DETAILS			
PULLED	SIZE:	PLAIN:	SCRAPERS:
PONYS:			
RAN	SIZE:	PLAIN:	SCRAPERS:
PONYS:			
NOTES:			
TUBING DETAILS			
PULLED	SIZE:	JOINTS:	TALLY:
RAN	SIZE:	JOINTS:	TALLY:

LANDED AT:	NIPPLE AT:
NOTES:	
PUMP DETAILS	
SIZE:	SERIAL #:

PRESSURE TESTS						
FUNCTION BOP	TIME TO OPERATE (s)	LOW (psi)	TIME (min)	HIGH (psi)	TIME (min)	TEST DATE & TIME
INITIAL ACCUM. PRESSURE:		FINAL ACCUM. PRESSURE:		RECHARGE TIME:		
DAILY WALK AROUND: Not run		RAM SAVER: NO		EMERGENCY HORN TEST: Not run		
LEL TEST: Not run		CROWN SAVER: Not run		EMERGENCY ENGINE KILLS: Not run		
DETAILED INSPECTION DATE:				SCBA DRILL DATE:		
MAN DOWN DRILL DATE:				RIG RESCUE DRILL DATE:		
BOP DRILL DATE:				BOP DRILL DURATION:		
IADC DETAILED INSPECTION DATE:						
WEATHER: Partly Cloudy		WIND: Calm		TEMP: 0 °F		H2S (%): 0.0

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
05-Apr-18, 06:00	05-Apr-18, 20:00	14.00	BOP - Nipple Up/Down - BOPE & Wellhead	Crew traveled to loc crew held safety meeting check press 0/0 open to tank function test BOP test good R/D work floor tbq equip N/D BOP wellhead removed 8 5/8 cap packing P/U 4 1/2" lift sub unland csg from slips N/U spool BOP R/U work floor csg equip work stretch pulled 0-60K got 14" stretch free to 1800' MIRU wireline RIH CBL log to 3000' log to surface R/D wireline R/D work floor csg equip N/D BOP 8 5/8 spool landing 4 1/2" csg in slips N/U well head BOP R/Uwork floor tbq equip TITH w/ 99jnts to 3103' circ well 1hr MIRU cementers mix/pump 20sxs inside 4 1/2" csg displaced 11bbl R/D cementers TOTH 50jnts to derrick wash up lines/equip shut in well drained pump/lines crew cleaned loc crew traveled home
TOTAL TIME: 14.00 hours				

CREW DETAILS									
ROLE	NAME	START TIME	DURATION (hrs)	TRAVEL TIME (hrs)	PERS. VEH.	TRAVEL DIST (mi)	SUB.	DIST FROM RES (mi)	INJURY FREE
Service Rig Manager	Matthew McGraw	05-Apr-18, 06:00	14.00	0.00	No	0.00		0.00	Yes
Operator	Ever Valverde	05-Apr-18, 06:00	14.00	0.00	No	0.00		0.00	Yes
Derrickhand	Jose Luna Morales	05-Apr-18, 06:00	14.00	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	05-Apr-18, 06:00	14.00	0.00	No	0.00		0.00	Yes
Relief Operator	Jorge Acosta	05-Apr-18, 06:00	14.00	0.00	No	0.00		0.00	Yes

SIGNATURES	
RIG MANAGER/SUPERVISOR'S SIGNATURE: 	The customer agrees that the contractor ("Ensign") will perform the work and supply the materials ("the work") as described within and in accordance with the conditions set out in the IADC contract and in accordance with all exhibits, specifications, schedules and/or parts (if any) attached hereto. OPERATOR'S REP. SIGNATURE:  Bud Holman 970-301-3897



ENSIGN WELL SERVICES

24020 Weld County Road 46, LaSalle, Colorado 80645

Telephone (970) 284-6006



RIG/UNIT #: 354
TOUR: Day Shift

DAILY WORK RECORD

Ticket No: 4043496-SO1

DATE: 04-Apr-18, 06:00

Page: 1 of 1

COMPANY	
PDC ENERGY, INC	LOCATION: GREEN 11-24 (CO, Station: Lasalle)
ATTENTION: ACCOUNTS PAYABLE	PO:
BRIDGEPORT, West Virginia, USA 26330	AFE:

CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	12.00	406.50	4,878.00
Rig Up	1.00	290.00	290.00
Crew Travel	2.00	193.60	387.20
Bird Bath Rental	1.00	30.80	30.80
Tubing Wiper Rubber	1.00	48.00	48.00
CHARGES & EXPENDABLES SUB-TOTAL			5,634.00
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 5,634.00



CUSTOMER STAMP

ROD & TUBING DETAILS			
PULLED	SIZE:	PLAIN:	SCRAPERS:
PONYS:			
RAN	SIZE:	PLAIN:	SCRAPERS:
PONYS:			
NOTES:			
TUBING DETAILS			
PULLED	SIZE:	JOINTS:	TALLY:
RAN	SIZE:	JOINTS:	TALLY:
LANDED AT:			
NIPPLE AT:			
NOTES:			
PUMP DETAILS			
SIZE:	TYPE:	SERIAL #:	

PRESSURE TESTS								
FUNCTION BOP	TIME TO OPERATE (s)	LOW (psi)	TIME (min)	HIGH (psi)	TIME (min)	TEST DATE & TIME		
INITIAL ACCUM. PRESSURE:		FINAL ACCUM. PRESSURE:		RECHARGE TIME:				
DAILY WALK AROUND: Not run		RAM SAVER: NO		EMERGENCY HORN TEST: Not run				
LEL TEST: Not run		CROWN SAVER: Not run		EMERGENCY ENGINE KILLS: Not run				
DETAILED INSPECTION DATE:				SCBA DRILL DATE:				
MAN DOWN DRILL DATE:				RIG RESCUE DRILL DATE:				
BOP DRILL DATE:				BOP DRILL DURATION:				
IADC DETAILED INSPECTION DATE:								
WEATHER: Partly Cloudy		WIND: Calm		TEMP: 0 °F		H2S (%): 0.0		

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
04-Apr-18, 06:00	04-Apr-18, 21:00	15.00	BOP - Nipple Up/Down - BOPE & Wellhead	Crew traveled to loc crew held safety meeting move rig/equip to next loc removed well fence spot in rig/equip R/U rig R/U pump/tank check press 500/800/0 bleed off to work tank circ well w/ 120bbl circ 1hr clean function test BOP test good R/D Kelly N/D well lubricator master valve N/U 3K flange N/U BOP R/U work floor tbq equip unland tbq from well head TOTH 98jnts to derrick L/D 132jnts to trailer keeping hole loaded MiRU wireline RIH gauge ring to 7200' RIH CIBP #1 set @ 7170' dump 2sxs RIH CIBP #2 set @ 6904' dump 2sxs press test plug/csg to 1000psi test good RIH jet cutter cut csg @ 3000' R/D wireline shut in well crew cleaned loc crew traveled home
TOTAL TIME: 15.00 hours				

CREW DETAILS									
ROLE	NAME	START TIME	DURATION (hrs)	TRAVEL TIME (hrs)	PERS. VEH.	TRAVEL DIST (mi)	SUB.	DIST FROM RES (mi)	INJURY FREE
Service Rig Manager	Matthew McGraw	04-Apr-18, 06:00	15.00	0.00	No	0.00		0.00	Yes
Operator	Ever Valverde	04-Apr-18, 06:00	15.00	0.00	No	0.00		0.00	Yes
Derrickhand	Jose Luna Morales	04-Apr-18, 06:00	15.00	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	04-Apr-18, 06:00	15.00	0.00	No	0.00		0.00	Yes
Relief Operator	Jorge Acosta	04-Apr-18, 06:00	15.00	0.00	No	0.00		0.00	Yes

SIGNATURES	
RIG MANAGER/SUPERVISOR'S SIGNATURE: 	The customer agrees that the contractor ("Ensign") will perform the work and supply the materials ("the work") as described within and in accordance with the conditions set out in the IADC contract and in accordance with all exhibits, specifications, schedules and/or parts (if any) attached hereto. OPERATOR'S REP. SIGNATURE:  Bud Holman 970-301-3897



SERVICE ORDER CONTRACT

Customer: **PDC Energy, Inc.**

Ticket Number: **FL3480**

Lease & Well Number: **Green 11-24**

Date: **4/9/2018**

In consideration of the services and materials to be sold and/or provided by C&J Spec-Rent Services, Inc. ("C&J") under this service order, the above-named customer ("Customer") agrees that:

The services and materials quoted under this service order are based on the best information available at the time that this quotation was prepared. When the actual work is performed the amounts and types of services and materials may require adjustments any pre-quoted items in service order. Actual amounts and types of services and materials will be charged at the time the work is performed. Unit prices from C&J's current price list and discounts quoted are applied as per this service order, unless otherwise noted. Except as otherwise provided for herein, this service order is only for the materials and services quoted hereunder.

The prices and discounts reflected herein are based on C&J being awarded the work on a first call basis. Prices may be adjusted if the work is not on a first call basis. Prices are valid for a period of thirty (30) days following this quotation. Taxes, if any, will be applied to the actual invoice.

All services and materials sold and/or provided by C&J are subject to the terms of C&J's "Contractor's Standard Terms and Conditions" document (the "Terms and Conditions"), which contains provisions concerning risk allocation and warranties associated with C&J's services. The parties hereby agree that all materials and services will be furnished pursuant to the Terms and Conditions and this service order. A copy of the Terms and Conditions is attached to this proposal.

BY SIGNING IN THE SPACE PROVIDED BELOW, CUSTOMER (I) ACKNOWLEDGES RECEIPT OF A COPY OF THE TERMS AND CONDITIONS, AND (II) AGREES THAT THE TERMS AND CONDITIONS SHALL GOVERN ALL SERVICES AND MATERIALS SOLD AND/OR PROVIDED HEREUNDER. THE UNDERSIGNED FURTHER WARRANTS AND REPRESENTS THAT THE UNDERSIGNED IS AUTHORIZED TO EXECUTE THIS SERVICE ORDER AS CUSTOMER'S AGENT.

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

Customer Authorized Agent: _____



Job Summary

Ticket Number	Ticket Date
TN# FL3480	4/9/2018

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-22851
WELL NAME	RIG	JOB TYPE
Green 11-24	Ensign 354	Balanced Plugs
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NWNW 24 7N65W	Douglass, Brian	Bud Holman

EMPLOYEES

McFarland, James		
Melgarejo, Eduardo		

WELL PROFILE

Max Treating Pressure (psi):	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	544	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	J-55	0	544		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	4.5	10.5	P-110	0	1900	750	850
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	1615		

CEMENT DATA

Stage 1:
Type: Plug 1
From Depth (ft): 1487 To Depth (ft): 1900
Volume (sacks): 155 Volume (bbls): 31.7

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Class	15.8	1.15	5.00

Stage 2:
Type: Plug 2 Lead
From Depth (ft): 78 To Depth (ft): 850
Volume (sacks): 275 Volume (bbls): 57

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Class G+2% CaCl2	15.8	1.16	5.00

Stage 3:
Type: Plug 2 Tail
From Depth (ft): 0 To Depth (ft): 78
Volume (sacks): 25 Volume (bbls): 5

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Class G	15.8	1.15	5.00

SUMMARY

	Stage 1	Stage 2
Preflushes:		
10 bbls of SAPP	6.25	
45 bbls of Fresh Water	4.2	
Calculated Displacement (bbl):		
Actual Displacement (bbl):		
Total Preflush/Spacer Volume (bbl):	55	
Plug Bump (Y/N):	n/a	Bump Pressure (psi): n/a
Total Slurry Volume (bbl):		
Lost Returns (Y/N):	n (if Y, when)	
Total Fluid Pumped	59.2	
Returns to Surface:	Cement 1 bbls	

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

fill lines. Pressure test to 2000 psi. 10 bbls of sapp. 40 bbls of h2o. 31.7 bbls of cement @ 15.8ppg (155sx). Displace 4.2 bbls of h2o. 2nd plug. Fill lines. Pressure test to 1000 psi. 5 bbls of h2o. 57 bbls of cement @ 15.8ppg (275sx with calcium). then 3 bbls of G Neat (15sx). then topped off well with 2 bbls of cement @ 15.8ppg (10sx). pumped job per program and customers request.

Thank You For Using
O-TEX Cementing

Customer Representative Signature: _____

C&J ENERGY SERVICES O-TEX CEMENTING		CEMENTING JOB LOG		Project Number		Job Date	
O-Tex Location		Customer		FL3480		4/9/2018	
Brighton, Colorado 303-857-7948		PDC Energy, Inc.		State		County	
Lease Name		O-Tex Field Supervisor		CO		Weld	
Green 11-24		Douglass, Brian		Customer Representative		Phone	
Job Type		Man Hours		Bud Holman		970-301-3897	
Balanced Plugs				API Number		05-123-22851	
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.		
4/9/2018	9:30					arrive on location	
	9:35					tailgate meeting	
	9:40					spot trucks	
	9:50					rig in	
	10:00					safety meeting	
	10:14	1	bbl	1.50		150	fill lines
	10:15					2000	pressure test lines
	10:16	10	bbl	2.00		300	sapp
	10:23	40	bbl	2.00		260	fresh h2o
	10:50	31.7	bbl	1.40		50	mix and pump cement @ 15.8ppg (155sx)
	11:16	4.2	bbl	1.00			displace fluid
	11:21						shutdown/ rig sting out
	11:30						wash pump
	11:35						wait for 2nd plug
	14:03	1	bbl	1.50		75	fill lines
	14:04					1000	pressure test lines
	14:06	5	bbl	1.00		80	establish circulation
	14:10	60	bbl	2.00		120	mix and pump cement @ 15.8ppg
	14:40						shutdown
	15:15	2	bbl	0.25		10	top off well
15:25						wash pump	
15:45						rig out	
16:00						leave location	
JOB CALCULATIONS							
1st Plug: 2 3/8 4.7# .00387 EOT: 1615'							
4.5 10.5# .0159 0-1900'							
Holes@ 1600' and 1900'							
Retainer@ 1615'							
2nd Plug: 2 3/8 4.7# .00387 EOT: 850'							
8 5/8 24# Surface Casing: 0-544'							
4.5 10.5# Production Casing: .0159 750-850' / 14" OH: 544-750'							
CASING DATA							
ANNULAR DATA							
PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW							



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

FIELD RECEIPT

TN # FL3480

Service Date:	4/9/2018	Well Name:	Green 11-24	Job Type:	Balanced Plugs
Customer:	PDC Energy, Inc.	County:	Weld	Service Supervisor:	Douglass, Brian
Address:	PO Box 26	State:	CO	Pump #1	445052
City:	Attn: Accounts Payable	API #	05-123-22851	Pump #2	
St:	Bridgeport	AFE #			
Customer Rep:	WV 26330				
	Bud Holman				

REF #	Description	unit of measure	unit price	quan
CM006	O-Tex Ultra Premium Cement (94lbs/ft3)	94SACK	\$ 38.20	155
CP022	SAPP (MFC35)	LBS	\$ 13.82	100
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	45
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	\$ 7.32	45
ML003	Bulk Cement Delivery/Return	MILE	\$ 2.95	328
MX001	Bulk Material Mixing Service Charge	SCF	\$ 3.27	155
CM006	O-Tex Ultra Premium Cement (94lbs/ft3)	94SACK	\$ 38.20	295
CP018	Calcium Chloride	LBS	\$ 1.22	517
ML003	Bulk Cement Delivery/Return	MILE	\$ 2.95	901
MX001	Bulk Material Mixing Service Charge	SCF	\$ 3.27	431
CC015	Pump Charge Additional Hours	UNTHRS	\$ 588.06	2
AE012	Bulk Unit Additional Hours	UNTHRS	\$ 130.68	2

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, makes any warranty, 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
Ticket No.
Location
Comments

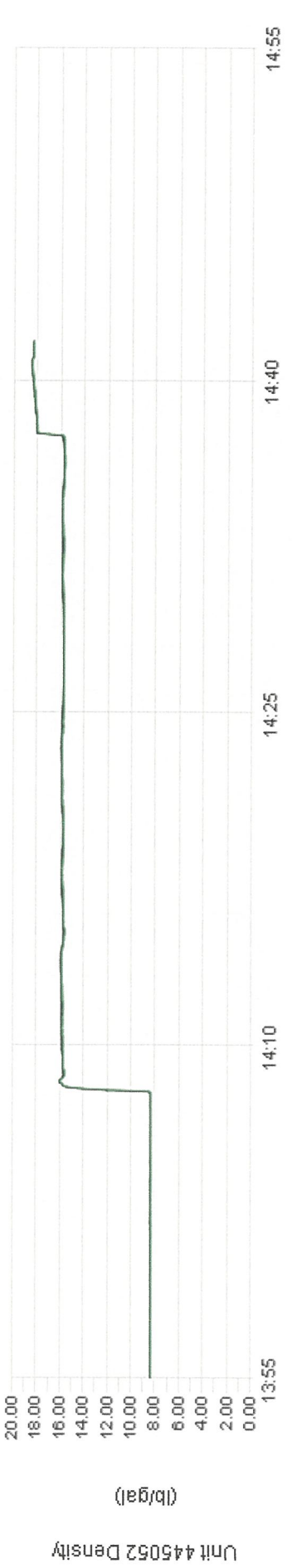
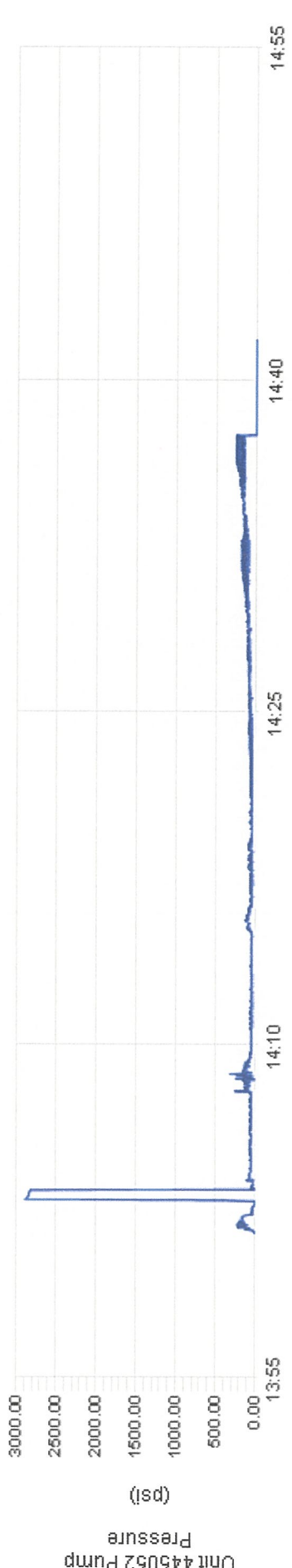
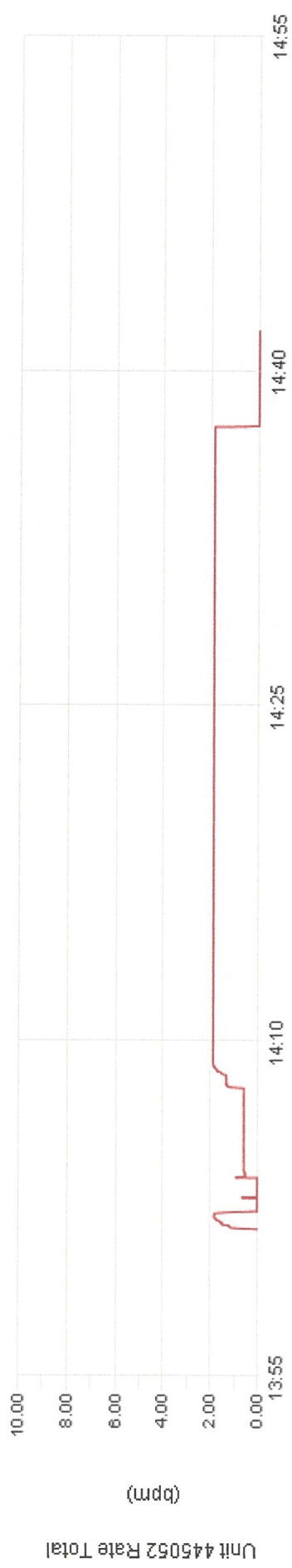
PDC ENERGY INC
3480
NW NW SEC24-T7N-R65W
2ND PLUG

Client Rep
Well Name
Job Type

MR. BUD HOLMAN
GREEN 11-24
Abandonment Plugs

Supervisor
Unit No.
Service District
Job Date

BRIAN DOUGLASS
445052
BRIGHTON, CO
04/09/2018



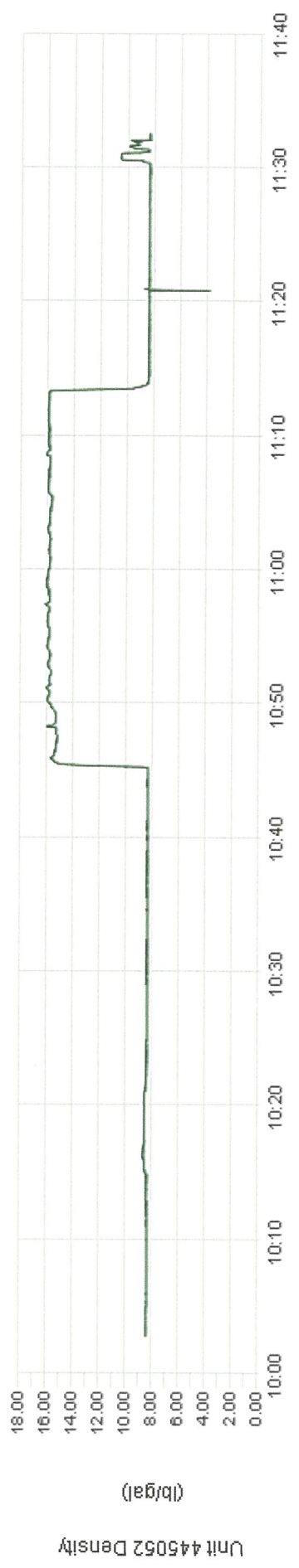
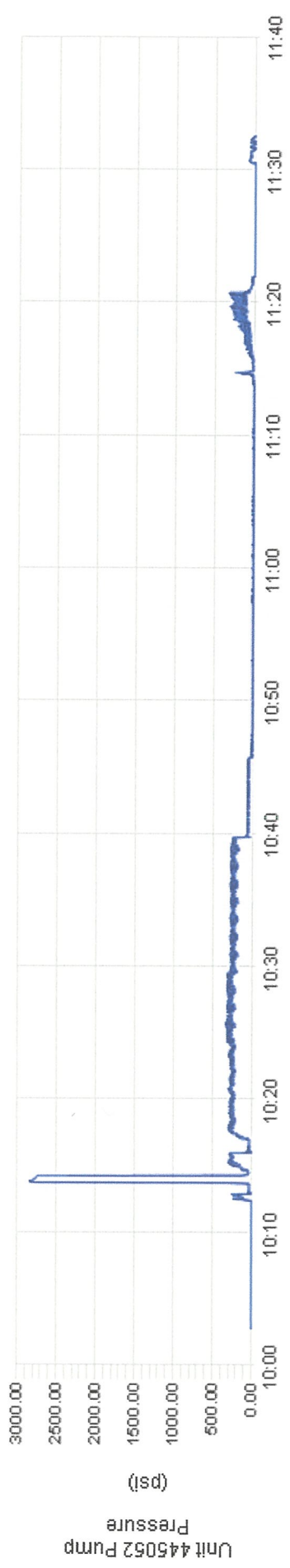
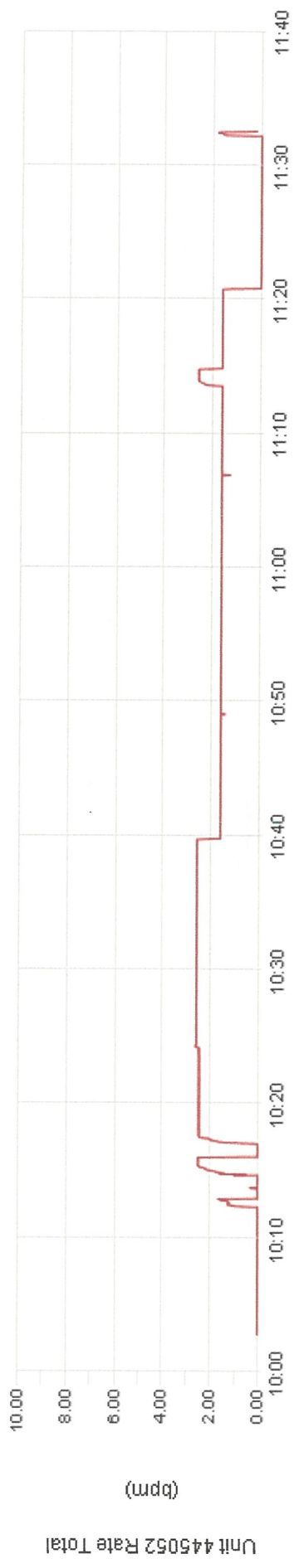


Client
Ticket No. 3480
Location NW NW SEC24-T7N-R65W
Comments 1ST PLUG

Client Rep
Well Name GREEN 11-24
Job Type Abandonment Plugs

Supervisor
Unit No. 445052
Service District BRIGHTON, CO
Job Date 04/09/2018

BRIAN DOUGLASS
445052
BRIGHTON, CO
04/09/2018





Job Summary

Ticket Number		Ticket Date
TN#	FL3480	4/5/2018

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-22851
WELL NAME	RIG	JOB TYPE
Green 11-24	Ensign 354	Balanced Plugs
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NWNW 24 7N65W	Scott, Derek	Bud Holman

EMPLOYEES		
Peterson, Ryan		
Williamson, Garrick		

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)
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)
Tubing	2.375	4.7		0	3103		
Production	4.5	10.5		0	3103		

CEMENT DATA

Stage 1:	From Depth (ft):	2815	To Depth (ft):	3103
Type: Plug 1	Volume (sacks):	20	Volume (bbls):	4.1

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Class G	15.8	1.15	5.00

SUMMARY

Preflushes:	1 bbls of	Fresh Water	Calculated Displacement (bbl):	11	Stage 1	Stage 2
	bbls of		Actual Displacement (bbl):	11		
	bbls of					
Total Preflush/Spacer Volume (bbl):	1		Plug Bump (Y/N):	N/A	Bump Pressure (psi):	N/A
Total Slurry Volume (bbl):	4.1		Lost Returns (Y/N):	N (if Y, when)		
Total Fluid Pumped	16.1					
Returns to Surface:		0 bbls				

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

Job went well.

Customer Representative Signature: _____

Thank You For Using
O-TEX Cementing

[illegible]



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

FIELD RECEIPT

TN # FL3480

Service Date:	4/5/2018	Well Name:	Green 11-24	Job Type:	Balanced Plugs
Customer:	PDC Energy, Inc.	County:	Weld	Service Supervisor:	Scott, Derek
Address:	PO Box 26	State:	CO	Pump #1	445033
City:	Attn: Accounts Payable	API #	05-123-22851	Pump #2	
St:	Bridgeport	AFE #			
Customer Rep:	WV 26330				
	Bud Holman				

REF #	Description	unit of measure	unit price	quan
CM006	O-Tex Ultra Premium Cement (94lbs/ft3)	94SACK	\$ 38.20	25
CT003	Pump Charge 2001-3000'	4-HRS	\$ 3,626.37	1
JM001	Data Acquisition System	JOB	\$ 1,437.48	1
AE014	Environmental Fee*	JOB	\$ 228.69	1
ML001	Pickup Mileage	UNTMIL	\$ 4.26	45
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	\$ 7.32	45
ML004	Minimum Cement Delivery	EACH	\$ 392.04	1
MX001	Bulk Material Mixing Service Charge	SCF	\$ 3.27	25

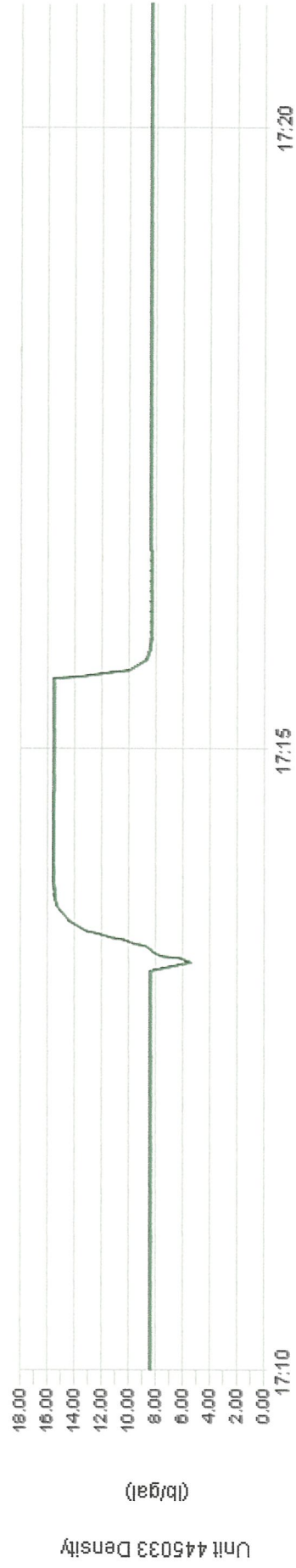
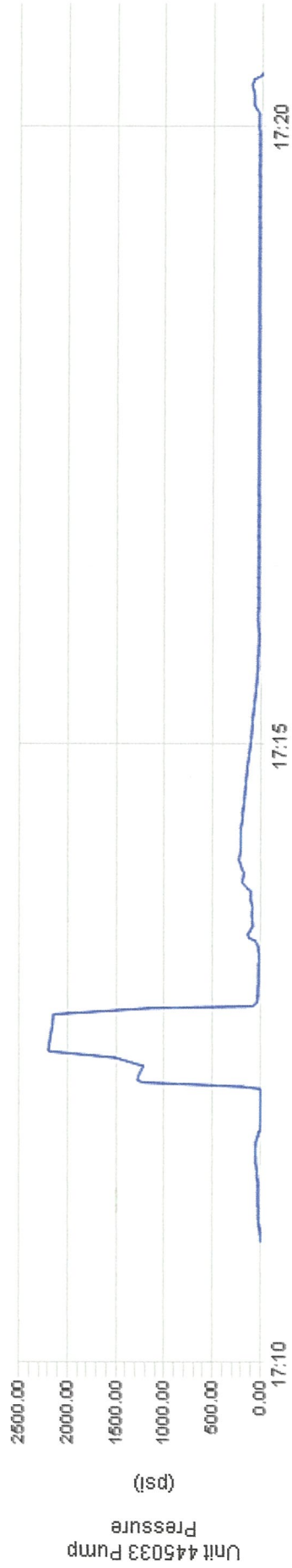
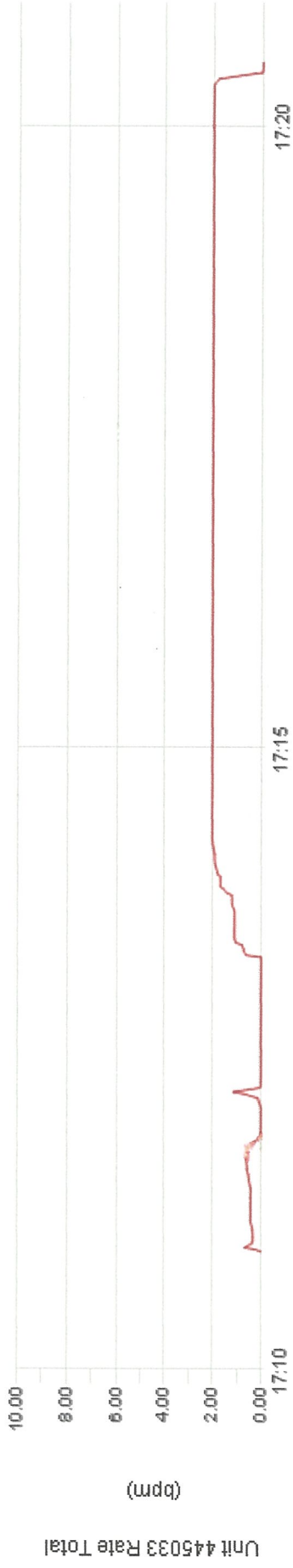
I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

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	Client Rep	Bud Holman	Supervisor	Derek Scott
Ticket No.	3480	Well Name	Green 11-24	Unit No.	445033
Location	NWNW 24-7N-65W	Job Type	Abandonment Plugs	Service District	Brighton, CO
Comments	20 Neat g @15.8ppg 1.15yield			Job Date	04/05/2018



[illegible]

[illegible]

[illegible]



Sater Tools and Services LLC, 2424 6th Ave, Greeley Co 80631

Office 970-356-4644 Fax 970-356-0185

Field Ticket #

21640

Date

4/9/2018

NO 21640

Bill To Customer:	P D C	PO#	PA 000 735	Lease Name:	Green	Well #:	11-24
Address:	3801 Carson Ave	County:	Weld	St:	CO	Invoice Ref. #:	
City:	Evans	Job Type:				OCSG #:	
State:	CO	Zip:	80620	Casing Sz & Wt:	4-1/2 11.6#		
Ordered By:	Bud Holman	Service Man:	MERCED TERRAZAS				

NO.	RENTALS/SALES	QTY	PRICE	DSC	TOTAL
1	Sale of 4-1/2 cement retainer	1			
2	Rental of tubing set mechanical retainer	1			
3					
4					
5					
6					
7	Rental of 4-1/2 elevators	1			
8	Rental of 4-1/2 air slips	1			
9	Rental of 4-1/2 lifting sub	2			
10	Rental of 8-5/8 surface head BOP adopter spool	1			
11					
12					
13					
14					

Subtotal Taxable Charges

SERVICE MANS TIME

Service mans time

MILEAGE

Mileage

Mileage

Subtotal Non-Taxable Charges

Subtotal Non-Taxable Charges

Terms: Net 30 Days

Authorized Agent: Bud 14

Date: 4-10-18

Walter Corporation, LLC 33250 CR 53 Gill, CO 80624

Fax: 970.284.6682

4/5/2018

Date: 4-10-19

Authorized Agent: _____