



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: 4043628-SO3

DATE: 12-Jul-18, 06:00

Page: 1 of 1

COMPANY		
PDC ENERGY, INC	LOCATION: Kohlhoff 14-22 (CO, Station: Lasalle)	PO:
ATTENTION: ACCOUNTS PAYABLE		AFE:
BRIDGEPORT, West Virginia, USA 26330		

CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	3.00	406.50	1,219.50
Rig Up	1.00	290.00	290.00
Crew Travel	1.00	193.60	193.60
Bird Bath Rental	1.00	30.80	30.80
Tubing Wiper Rubber	1.00	48.00	48.00
CHARGES & EXPENDABLES SUB-TOTAL			1,781.90
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 1,781.90

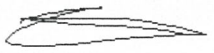

CUSTOMER STAMP

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:		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: Sunny		WIND: Calm		TEMP: 0 °F		H2S (%): 0.0		

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
12-Jul-18, 06:00	12-Jul-18, 11:00	5.00	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 MIRU cementers held safety meeting mix/pump 30sxs type3 cement from 1823'-1378' displaced 5.3bbl R/D cementers L/D 31jnts leaving 25jnts in @ 814' R/U cementers catch circ 1bbl mix/pump 85sxs type3 cement from 814' to surf R/D cementers L/D 25jnts to trailer R/D work floor tbg equip N/D BOP 3K flange 3K wellhead top off cement inside 4 1/2" to surf w/ 5sxs wash up lines/equip R/D rig R/D pump/tank crew cleaned loc prep rig/equip for rig move
TOTAL TIME: 5.00 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	12-Jul-18, 06:00	5.00	0.00	No	0.00		0.00	Yes
Operator	Ever Valverde	12-Jul-18, 06:00	5.00	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	12-Jul-18, 06:00	5.00	0.00	No	0.00		0.00	Yes
Relief Operator	Jorge Acosta	12-Jul-18, 06:00	5.00	0.00	No	0.00		0.00	Yes
Derrickhand	Geovany Cadena Beltran	12-Jul-18, 06:00	5.00	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:  Eduardo Chavez 970-397-0599



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: 4043628-SO2

DATE: 11-Jul-18, 06:00

Page: 1 of 1



COMPANY				
PDC ENERGY, INC		LOCATION: Kohlhoff 14-22 (CO, Station: Lasalle)		PO:
ATTENTION: ACCOUNTS PAYABLE				AFE:
BRIDGEPORT, West Virginia, USA 26330				

CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	10.00	406.50	4,065.00
Crew Travel	2.00	193.60	387.20
Tubing Wiper Rubber	1.00	48.00	48.00
Thread Dope	1.00	40.00	40.00
CHARGES & EXPENDABLES SUB-TOTAL			4,540.20
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 4,540.20

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: Sunny		WIND: Calm		TEMP: 0 °F		H2S (%): 0.0

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
11-Jul-18, 06:00	11-Jul-18, 18:00	12.00	Rig - Pick Up/Lay Down Tubular	Crew traveled to loc crew held safety meeting check press 0/0/0 open to work tank function test BOP test good MIRU wireline RIH gyro tools run gyro from 7100' to surf R/D wireline TOTH 56jnts to derrick L/D 163jnts to trailer R/U wireline RIH gauge ring to 7100' RIH CIBP #1 set @ 7092' dump 2sxs RIH CIBP #2 set @ 6780' dump 2sxs R/D wireline TITH w/ 56jnts 2 3/8 tbg from derrick to 1823' R/U Kelly circ well 30min clean press test plug/csg to 1000psi test good bleed off press R/D Kelly shut in well 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	11-Jul-18, 06:00	12.00	0.00	No	0.00		0.00	Yes
Operator	Ever Valverde	11-Jul-18, 06:00	12.00	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	11-Jul-18, 06:00	12.00	0.00	No	0.00		0.00	Yes
Relief Operator	Jorge Acosta	11-Jul-18, 06:00	12.00	0.00	No	0.00		0.00	Yes
Derrickhand	Geovany Cadena Beltran	11-Jul-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:  Eduardo Chavez 970-397-0599



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24020 Weld County Road 46, LaSalle, Colorado 80645

Telephone (970) 284-6006



RIG/UNIT #: 354
TOUR: Day Shift

DAILY WORK RECORD

Ticket No: 4043628-SO1

DATE: 10-Jul-18, 02:00

Page: 1 of 1

COMPANY									
PDC ENERGY, INC				LOCATION: Kohlhoff 14-22 (CO, Station: Lasalle)				PO:	
ATTENTION: ACCOUNTS PAYABLE								AFE:	
BRIDGEPORT, West Virginia, USA 26330									



CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	3.00	406.50	1,219.50
Rig Up	1.00	290.00	290.00
CHARGES & EXPENDABLES SUB-TOTAL			1,509.50
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 1,509.50

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: Sunny		WIND: Calm		TEMP: 0 °F		H2S (%): 0.0

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
10-Jul-18, 02:00	10-Jul-18, 06:00	4.00	BOP - Nipple Up/Down - BOPE & Wellhead	Crew traveled to loc crew held safety meeting spot in rig/equip R/U rig R/U pump/tank check press 300/300/0 bleed off to work tank circ well w/ 130bbl circ 1hr clean function test BOP test good N/D well tree master valve removed 3K cap N/U 3K flange N/U BOP R/U work floor tbq equip unland tbq from hanger installed TIW shut in well crew cleaned loc crew traveled home
TOTAL TIME: 4.00 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	10-Jul-18, 02:00	4.00	0.00	No	0.00		0.00	Yes
Operator	Ever Valverde	10-Jul-18, 02:00	4.00	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	10-Jul-18, 02:00	4.00	0.00	No	0.00		0.00	Yes
Relief Operator	Jorge Acosta	10-Jul-18, 02:00	4.00	0.00	No	0.00		0.00	Yes
Derrickhand	Geovany Cadena Beltran	10-Jul-18, 02:00	4.00	0.00	No	0.00		0.00	Yes
Floorhand	William Moreira	10-Jul-18, 02:00	4.00	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:  Eduardo Chavez 970-397-0599



Job Summary

Ticket Number		Ticket Date	
TN#	FL4180	7/12/2018	

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	7N
WELL NAME	RIG	JOB TYPE
Kohlhoff 14-22	Ensign 354	Balanced Plugs
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SWSW Sec 22	Cheal, Sam	Eduardo Chavez

EMPLOYEES		
Yates, Tony		
Phillips, James		

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)
	N/A				

Casing/Tubing/Drill Pipe

				Stage 1		Stage 2	
Type	Size (in)	Weight (lb/ft)		TMD From (ft)	TMD to (ft)	TMD From (ft)	TMD to (ft)
Production	4 1/2	10.5		0	1800	0	800
Tubing	2 3/8	4.7		0	1800	0	800

CEMENT DATA

Stage 1:		From Depth (ft):	1354	To Depth (ft):	1800
Type: Balanced Plug		Volume (sacks):	30	Volume (bbls):	7.1
Cement & Additives:		100% Type III		Density (ppg):	14.8
				Yield (ft³/sk):	1.33
				Water Req.	6.32
Stage 2:		From Depth (ft):	0	To Depth (ft):	800
Type: Top Off		Volume (sacks):	90	Volume (bbls):	21.3
Cement & Additives:		100% Type III		Density (ppg):	14.8
				Yield (ft³/sk):	1.33
				Water Req.	6.32

SUMMARY

Preflushes:	5 bbls of	Fresh Water	Calculated Displacement (bbl):	5.2
	5 bbls of	Fresh Water	Actual Displacement (bbl):	5
	bbls of			
Total Preflush/Spacer Volume (bbl):	10	Plug Bump (Y/N):	N/A	Bump Pressure (psi):
Total Slurry Volume (bbl):	28.4	Lost Returns (Y/N):	No	(if Y, when)
Total Fluid Pumped	43.4			
Returns to Surface:	Cement	2 bbls		

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

Balanced Plug - Pumped 5bbls fresh water, Mixed / Pumped 7.1bbls cement @ 14.8ppg, Displaced with fresh water to balance. Estimated cement coverage **1,354 - 1,800ft**. **Top Off** - Pumped 5bbls fresh water, Mixed / Pumped 20bbls cement @ 14.8ppg, Got cement to surface, Waited for rig crew to pull 2 3/8" tubing out, Topped off well with 1.3bbls. Estimated cement coverage **0 - 800ft**. Pumped job as per program / customers request. Detailed discription of events in job log.

Thank You For Using
O-TEX Cementing

Customer Representative Signature: _____

O-Tex Location		Customer		Project Number	Job Date	
Brighton, Colorado 303-857-7948		PDC Energy, Inc.		FL4180	7/12/2018	
Lease Name	Well No.	O-Tex Field Supervisor		State	County	
Kohlhoff 14-22		Cheal, Sam		CO	Weld	
Job Type		Man Hours		Customer Representative		
Balanced Plugs		10.5		Eduardo Chavez		
				API Number		
				7N		
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.	
7/12/2018	6:00					Leave Yard
	7:00					Arrive at location (requested 7:00)
	7:05					Tailgate meeting (talk about spotting trucks) / sign in
	7:10					Spot pump unit & bulk truck
	7:15					Rig in / test cement mix water
	7:30					Safety meeting with C&J crew / rig crew / third party crew
	7:45	1 bbl	1.50		700	Fill line with fresh water
	7:47				2000	Pressure test iron
	7:48	5 bbl	2.00		240	Pump fresh water
	7:52	7.1 bbl	2.00		180	Mix / pump cement @14.8ppg
	7:55	5 bbl	2.00		46	Displace with fresh water to balance
	7:58				-9	Shutdown
	7:59					Wait for rig crew to pull 2 3/8" tubing to 800ft.
	8:17	5 bbl	2.00		120	Pump fresh water
	8:19	20 bbl	2.00		36	Mix / pump cement @14.8ppg
	8:26				140	Got cement to surface
	8:27					Wait for rig crew to pull 2 3/8" tubing out
	8:45	1.3 bbl	0.50		46	Top off well
	8:50					Shutdown / Wash pump unit
	9:20					Rig out
	9:25					AAR / Discuss leaving location
	9:30					Leave location
JOB CALCULATIONS Stage 1 - Estimated cement coverage 1,354 - 1,800ft. Stage 2 - Estimated cement coverage 0 - 800ft.						
TUBING / CASING DATA						
ANNULAR DATA						
PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW						

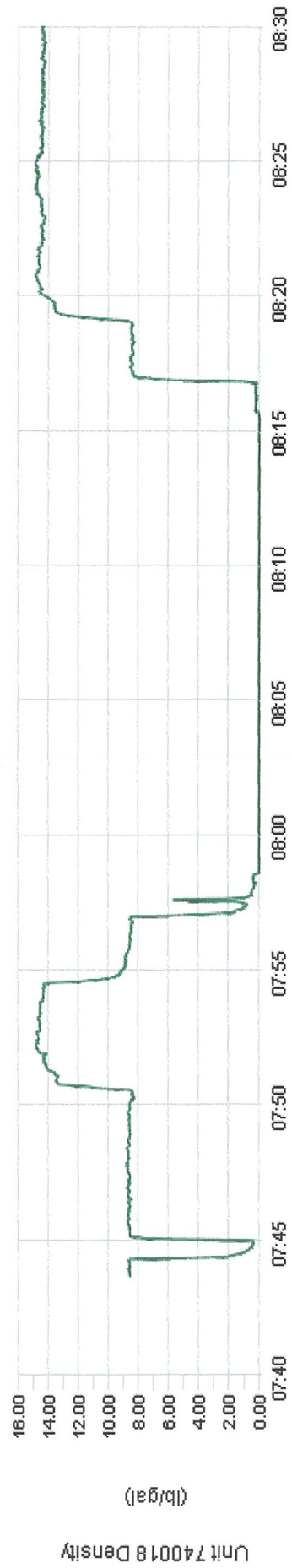
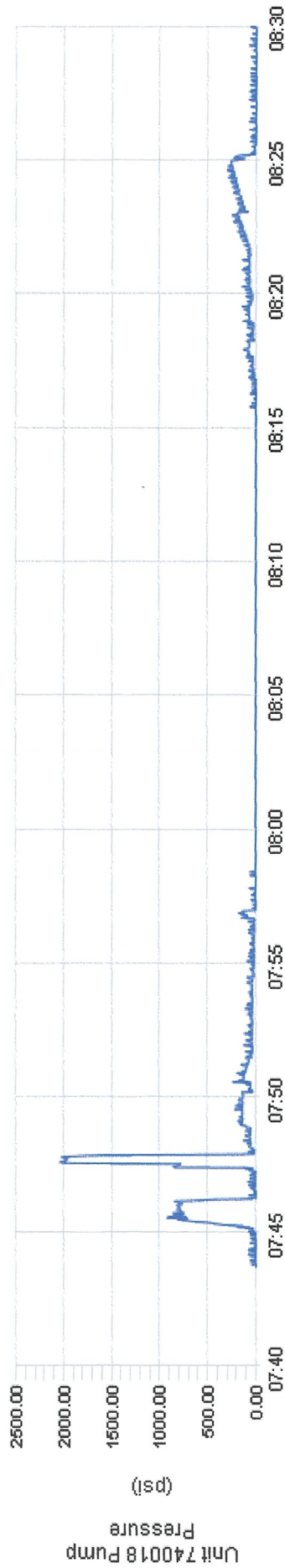
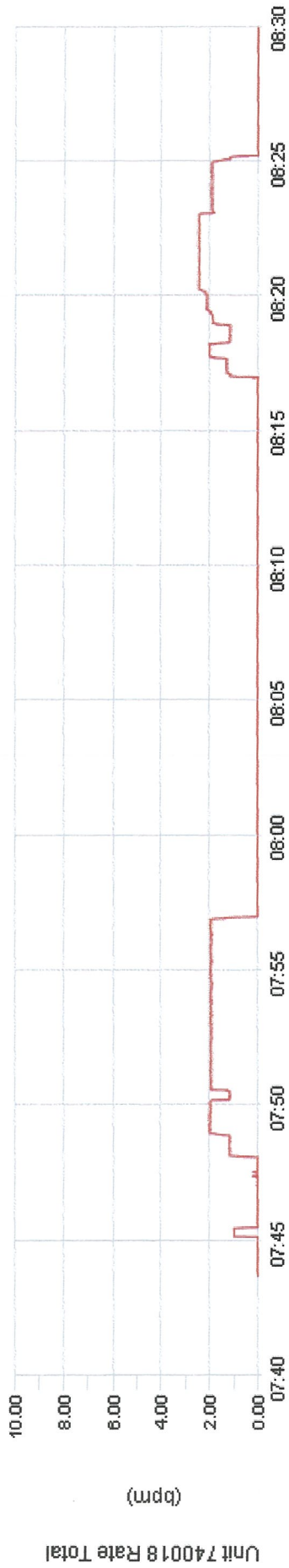


Client
Ticket No.
Location
Comments

PDC Energy, Inc.
FL4180
SWSW Sec 22
See job log for details

Client Rep
Well Name
Job Type

Supervisor
Unit No.
Service District
Job Date





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

FIELD RECEIPT

TN # FL4180

Service Date:	7/12/2018	Well Name:	Kohlhoff 14-22	Job Type:	Balanced Plugs
Customer:	PDC Energy, Inc.	County:	Weld	Service Supervisor:	Cheal, Sam
Address:	PO Box 26	State:	CO		
City:	Attn: Accounts Payable	API #			
St:	Bridgeport	AFE #			
Customer Rep:	WV 26330			Pump #1	740018
	Eduardo Chavez			Pump #2	N/A

REF #	Description	unit of measure	unit price	quan
CP001	Type III Cement	94SACK	\$ 37.70	120
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	50
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	\$ 7.32	50
ML003	Bulk Cement Delivery/Return	MILE	\$ 2.95	283
MX001	Bulk Material Mixing Service Charge	SCF	\$ 3.27	120
CP009	CF-41 (Foam Preventer)	GAL	\$ 86.06	2
CP031	Sugar	LBS	\$ 3.39	100

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.

Date: _____

[illegible]