

TICKET	8C01904-0045
DATE	4/9/2019
CREW INFORMATION	
SUPERVISOR	Brian Douglass
PUMP UNIT	445046
NUMBERS	
ARRIVAL (D&T)	4/9/19 10:00 AM
DEPARTURE (D&T)	

[illegible][illegible]

Customer Name Printed _____

Customer Signature _____

Date Signed _____

Job Summary

 Ticket Number
 TN# BCO1904-0045

 Ticket Date
 4/9/2019

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-24019
WELL NAME	RIG	JOB TYPE
CBO 21-32	Ensign 354	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.53517 -104.46383	Brian Douglass	Eduardo Chavez

EMPLOYEES		
Anthony Nelson		
Luis Balbuena		

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	693	770		
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	693		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Production	4.5	10.5		770	1917		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Tubing	2.375	4.7	J55	0	1917	0	912

CEMENT DATA

Stage 1:	From Depth (ft):	1326	To Depth (ft):	1917	
	Type: Balance Plug				
	Volume (sacks):	40	Volume (bbls):	9.4	
Cement & Additives:			Density (ppg)	Yield (ft³/sk)	Water Req.
100% CJ922			14.8	1.33	6.32

Stage 2:	From Depth (ft):	94	To Depth (ft):	912	
	Type: Surface Plug				
	Volume (sacks):	236	Volume (bbls):	56	
Cement & Additives:			Density (ppg)	Yield (ft³/sk)	Water Req.
100% CJ922			14.8	1.33	6.32

Stage 3:	From Depth (ft):	0	To Depth (ft):	94	
	Type: Top Off				
	Volume (sacks):	26	Volume (bbls):	6	
Cement & Additives:			Density (ppg)	Yield (ft³/sk)	Water Req.
100%CJ922			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:	10 bbls of Fresh Water	Calculated Displacement (bbl):	Stage 1	Stage 2
	bbls of	Actual Displacement (bbl):	5.5	
	bbls of		5	
Total Preflush/Spacer Volume (bbl):	10	Plug Bump (Y/N):	n/a	Bump Pressure (psi): n/a
Total Slurry Volume (bbl):	71.4	Lost Returns (Y/N):	n	(if Y, when)
Total Fluid Pumped	86.4			
Returns to Surface:	Cement			
	1 bbls			

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

 Thank You For Using
 CJES O-TEX Cementing

Customer Representative Signature:


Cement Job Log



Customer: PDC ENERGY		Date: 4/9/2019		Serv. Supervisor: Brian Douglass			
Cust. Rep.: Eduardo Chavez		Ticket #: BCO1904-0045		Serv. Center Brighton - 3021			
Lease: CBO 21-32		API Well #: 05-123-24019		County: Weld	State: CO		
Well Type: Oil		Rig: Ensign 354		Type of Job: Plug to Abandon			
Materials Furnished by C&J ENERGY SERVICES							
Plugs	Casing Hardware	Physical Slurry Properties					
		Sacks of Cement	Fluid Dens (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)
							Mix Water (bbls)
10 BBL Water			8.34				5.00
Balance Plug	100 % CJ922	40	14.8		1.33	6.32	9.44 6
Surface Plug	100 % CJ922	262	14.8		1.33	6.32	62.00 39
Fresh Water	Displacement		8.34				5.00
Displacement Chemicals:							

Cement Job Log

C&J ENERGY SERVICES												
Customer: PDC ENERGY				Date: 4/9/2019				Serv. Supervisor: Brian Douglass				
Cust. Rep.: Eduardo Chavez				Ticket #: BCO1904-0045				Serv. Center Brighton - 3021				
Lease: CBO 21-32				API Well #: 05-123-24019				County: Weld		State: CO		
Well Type: Oil				Rig: Ensign 354				Type of Job: Plug to Abandon				
OPEN HOLE DATA				TUBULAR DATA								
10" OH (693-770')				SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)		
				2.375	LTC	1917	J55	1.995	8100			
				2.375	LTC	912	J55	1.995	8100			
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS				
4.5 10.5# (770-1917')				TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP	
								693				
WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)				WATER ON LOC (bbl)	
TYPE	DENSITY	VOLUME	TYPE	DENSITY								
mud	9.0 ppg	5 bbl	H2O	8.3 ppg			300				110	
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details					
10:00 AM						0	arrive on location					
10:05 AM						0	tailgate meeting					
10:10 AM						0	spot trucks					
10:20 AM						0	rig in					
11:00 AM						0	safety meeting					
11:17 AM	1		50		1	1	fill lines					
11:19 AM						1	Pressure test lines to 2000 psi					
11:21 AM	1		50		5	6	establish circulation					
11:26 AM	2		200		9.4	15.4	mix and pump cement @ 14.8 ppg(40SX)					
11:31 AM	2		120		5	20.4	displace fluid					
11:34 AM						20.4	shutdown/ balance plug					
11:35 AM						20.4	wait on 2nd plug					
2:27 PM	2		70		3	23.4	establish circulation					
2:29 PM	2		300		56	79.4	Mix and pump cement @ 14.8 ppg(236sx)					
3:00 PM						79.4	shutdown					
3:30 PM	.25		10		6	85.4	top off well(26sx)					
3:40 PM						85.4	wash pump					
4:00 PM						85.4	rig out					
4:15 PM						85.4	leave location					
						85.4						
						85.4						
						85.4						
						85.4						
						85.4						
Left Yard	4/9/19 8:45 AM			Left Loc.	4/9/19 4:15 PM			Start Pump		4/9/19 11:17 AM		
Arrived Loc.	4/9/19 10:00 AM			Returned Yd.	4/9/19 5:30 PM			End Pump		4/9/19 3:40 PM		
Bumped Plug (psi)	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Standby Charged(hrs)	Casing Reciprocation		
	n/a		n/a	1	0	yes	700	n/a	0	n/a		
							<div style="text-align: right;"> Brian Douglass 4/9/2019 Service Supervisor Date </div>					

	PDC ENERGY	YARD CALL	4/9/2019	7:00	DISTRICT	
	CBO 21-32	RTS DATE	4/9/2019	10:30 AM	Brighton	
	YARD RTN	4/9/2019	5:30 PM			

CUSTOMER INFORMATION		WELL INFORMATION		WELL DATA		TUBULAR DATA			
Customer Name	PDC ENERGY	API #:	05-123-24019	Casing Size	4.5 10.5#	Size	Grade	Weight	Depth
Customer #:	1000700	Field Name:	Wattenberg	Depth	770-1917'	2 3/8	J55	4.7	1917
AFE #:	PA000903	Well Name:	CBO 21-32	TVD		Casing 4.5 10.5# (770-1917)			
Cust Rep on Loc:	Eduardo			MD					
Cust Phone #:	970-397-0599	Well Type:	Oil	OH	10	CEMENTING PLUG			
Order Placed By:	Eduardo	Formation:	Surface	OH Depth	693-770'	Qty	Size	Type	Material
Phone #:		Rig Contractor:	Ensign	BHST	60°F				
Proposed Job Amt:	\$5,479.47	Rig Name/Num.:	Ensign 354	BHCT	0°F				
JOB INFORMATION		Rig Phone:		Est. BHST/BHCT		60°F / 0°F (API) (0.00°F/100ft)			
Ticket #:	BCO1904-0045	County:	Weld	MD / TVD	000 ft	TOP CONNECTION			
PO #:		State:	CO	Mud Weight & Type			Size	Type	Thread
Order Taken By:	Laeger	Latitude:	40.53517	Open Hole	10" oh (693-770')		2 3/8	Tubing	1502
Order Date:	4/8/2019	Longitude:	-104	Previous Casing		4.5 10.5# (770-1917')		JOB TYPE	
CJES Acct. Manager:	Cody Michel	Township:	NENW 32 7N63W					Plug to Abandon	
CJES Engineer	Cody Michel	Quote Number:	1-BCO_190408095822						

COMMENTS

SPECIAL JOB INSTRUCTIONS

100# Sugar

DIRECTIONS TO WELL

Directions to well with Program

Emergency Contacts

Nearest Hospital	Greeley, CO	Phone Number:	911
Police Department	Greeley, CO	Phone Number:	911
Fire Department	Greeley, CO	Phone Number:	911


Designated Emergency Vehicle	C&J Pickup	Vehicle Location: lease entrance
MSDS on Dash of Emergency Vehicle? (y/n)	yes	

Muster Area #1	lease entrance
Muster Area #2	upwind

Cell Phone Service on location? (y/n)	yes
If not, nearest working phone	

Iron Tracking

Iron Type	Taken Out			Returned		
	Taken By	Date Out	Time Out	Returned By	Date In	Time In

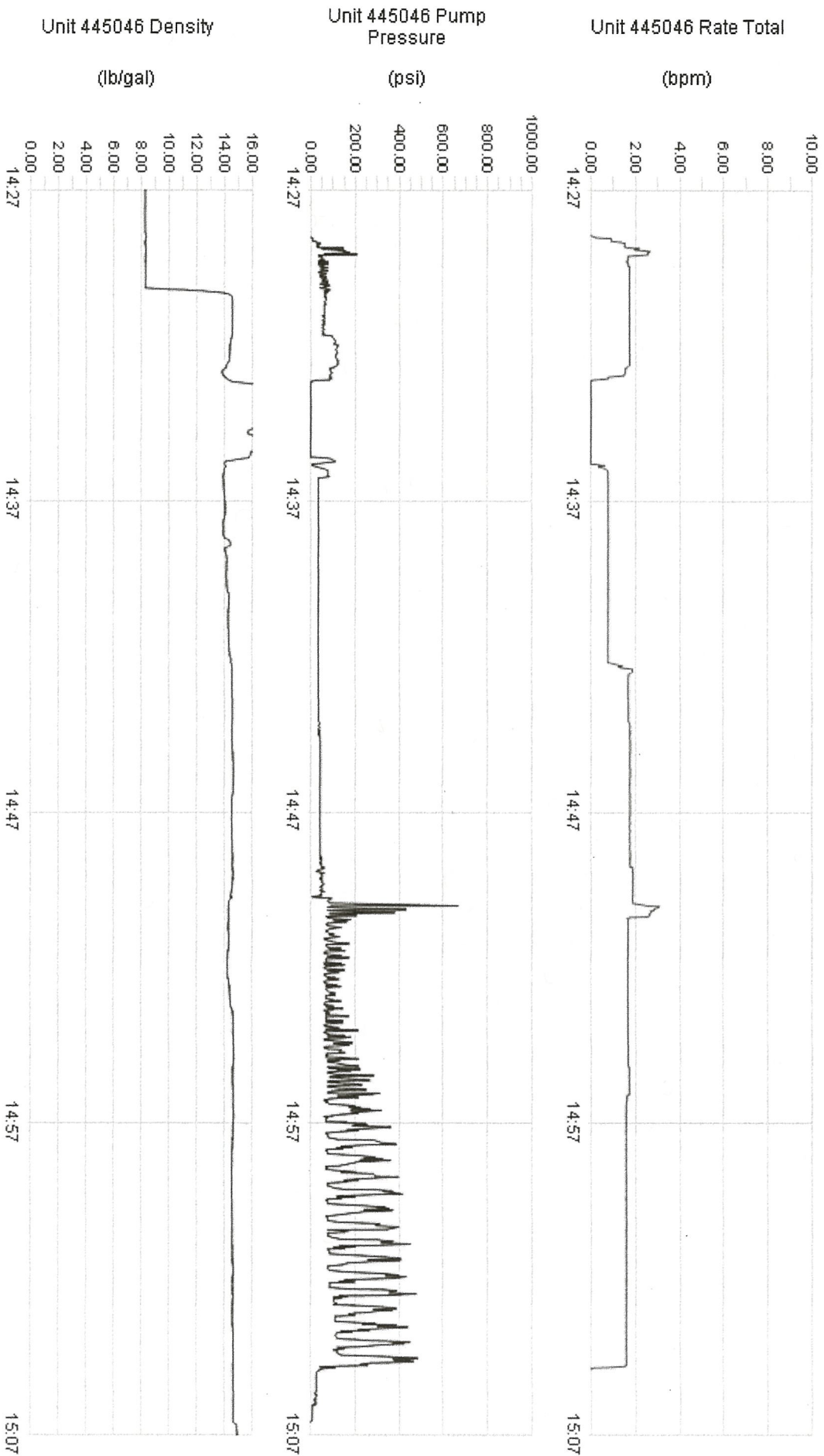
	PDC ENERGY	YARD CALL	4/9/2019	7:00	DISTRICT
	CBO 21-32	RTS DATE	4/9/2019	10:30 AM	Brighton
		YARD RTN	4/9/2019	5:30 PM	

Personnel/Equipment				
Driver	Assignment	Tractor	Trailer	Comments
Brian Douglass	Supervisor	130971	449088	
Anthony Nelson	Operator	745046	445046	
Luis Balbuena	Bulker		746509	

BLEND INFO					
Amount	Units	System/Additives	Density (ppg)	Yield (cuft/sk)	Water Req. (gal/sk)
		10 BBL Water			
10.00	bbl		8.34		
40.00	sx	Balance Plug			
9.40	bbl	100 % CJ922	14.8	1.33	6.32
262	sx	Surface Plug			
62.00	bbl	100 % CJ922	14.8	1.33	6.32
		0			
5.00	bbl	Displacement	8.34		



Client	PDC ENERGY	Client Rep	MR. EDUARDO CHAVEZ	Supervisor	BRIAN DOUGLASS
Ticket No.	45	Well Name	CBO-21-32	Unit No.	445046
Location	NENW SEC.32-T7N-R63W	Job Type	Abandonment Plugs	Service District	BRIGHTON, CO
Comments	PLUG 2			Job Date	04/09/2019



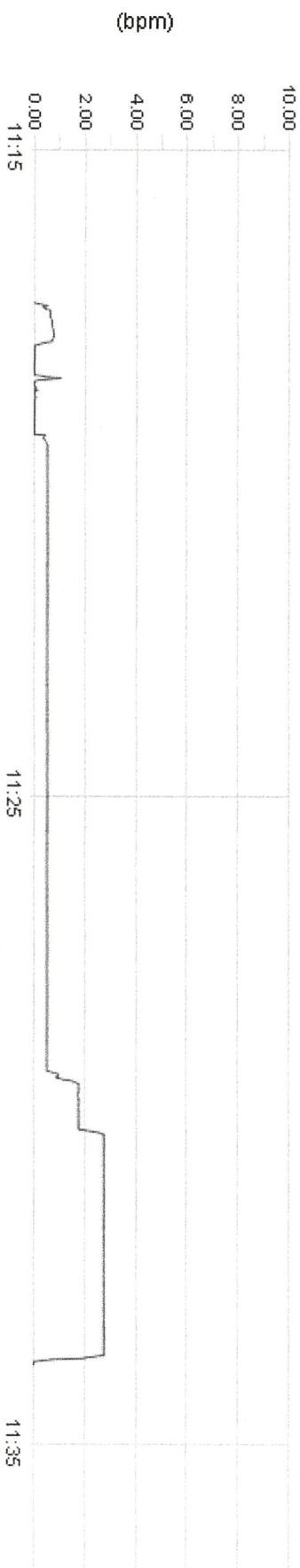


Client
Ticket No. 45
Location
Comments
PDC ENERGY
NEW SEC. 32-TTN-R63W
PLUG 1

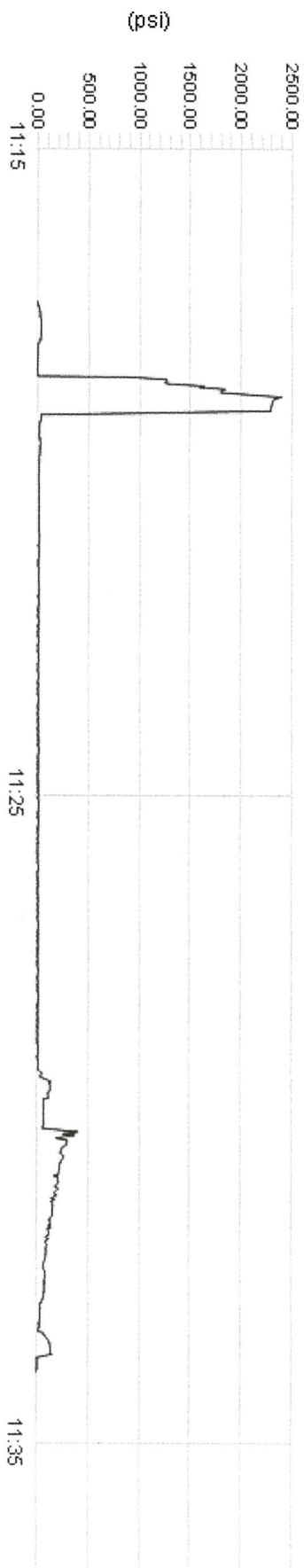
Client Rep
Well Name
Job Type
MR. EDUARDO CHAVEZ
CBO-21-32
Abandonment Plugs

Supervisor
Unit No.
Service District
Job Date
BRIAN DOUGLASS
445046
BRIGHTON, CO
04/09/2019

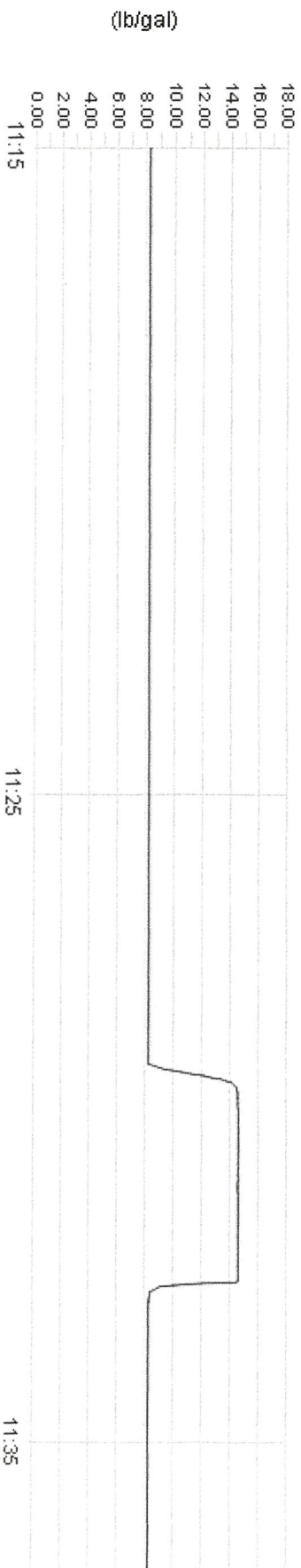
Unit 445046 Rate Total



Unit 445046 Pump Pressure



Unit 445046 Density



C&J ENERGY SERVICES

Rev.032718 A

CUSTOMER P.O. NUMBER

SERVICE ORDER

F1907

1 of 1

* Service charges include a daily per diem of \$30.00/employee and a daily catering charge (when provided by Casedhole Solutions) of \$25.00/employee.

DATE

4/9/2019

TO CASED HOLE SOLUTIONS, INC.

You are hereby requested to perform or attempt to perform the following service(s) or furnish the following equipment:

SERVICE(S) AND/OR EQUIPMENT REQUESTED

CUSTOMER

FURNISHED

LEASE/WELL

INFORMATION

COMPANY

PDC ENERGY

LEASE

CBO

LEGAL & LOCATION

05-123-24019

FIELD

Wattenberg

PARISH/COUNTY

Weld

STATE

Colorado

CUSTOMER NAME

PDC ENERGY

INVOICE MAILING ADDRESS

CITY

STATE

ZIP CODE

X

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

Thank you for using Casedhole Solutions!!

Total runs, all pages

7

UNIT NUMBER

92-3856

OPERATION TYPE

DAYLIGHT

WELL TYPE

WORKOVER

ROUND TRIP MILEAGE

TRIP

FIRST

HOISTING TYPE

WORKOVER RIG

WIRELINE DEPTH

MAX. WELLHEAD PRESSURE

PSI

BOTTOM HOLE PRESSURE

PSI

DESC. NO.

PERF. INTERVAL

PLUG DEPTH

OPERATION

ITEM

QUAN.

UNIT PRICE

DISC. PRICE

DISC. AMOUNT

FOOTAGE DEL.

1

No Tag - 6850'

P - Packoff

each

1

2

P - Gauge Ring or Depth Determination

per run

1

3

6832'

P - Plug or Retainer - setting (3rd party)

1

4

6832'

P - Dump Bailor w/ 2sx Cement

1

5

6525'

P - Plug or Retainer - setting (3rd party)

1

6

6525'

P - Dump Bailor w/ 2sx Cement

1

7

CBL - 1000'

P - Cement Bond Log (2000' - Surface)

1

8

Cut - 770'

P - Jet Cutters (all)

1

esc. NO.

NO. GUNS

SHOTS FIRED

TYPE CHRG.

SIZE

7

0

0

0

0

10K

0

0

0

Runs for this job made in

April were 7

ESTIMATED TOTAL

TOTAL

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

LOGS RECEIVED AT WELL

CUST. INITIALS

SIGNATURE OF CASD HOLE SOLUTIONS ENGINEER

X

Edwardo Chavez

Chavez

Meisner, Jacob

SIZE

WEIGHT

CASING/TUBING RECORD

TYPE

FROM

TO

PERM. DEPTH DATUM

GROUND LEVEL

ELEV.

ELEV K.B.

Casing 1

Casing 2

Tubing

Liner

Drill Pipe

Fluid Type

Fluid Weight

Fluid Level

REMARKS

Water

8.345 lbs/gal

feet

District doing job: Fort Lupton, CO

Bottom Hole Temperature

Degrees

F

Line of Business: Completions

CASED HOLE ENGINEER NAMES

WORK WITNESSED BY NAME

TYPE OF JOB

CLASS

DISTRICT JOB IS IN

RC#

ENGINEER

MSA#

Meisner, Jacob

Crew 1

Chavez

Vert. Domestic

Fort Lupton, CO

Crew 2

Crew 3

Crew 4

Crew 5

Crew 6