C&J ENERGY SERVICES

CUSTOMER	PDC ENERGY
DISTRICT	Brighton
ADDRESS	PO Box 26, Bridgeport, WV, 26330
PHONE	

AFE #		PO:	
LEASE NAME / NUMBER		API WELL NUMBER	
Guttersen 21-13		05-123-26314	
SECTION	TOWNSHIP	RANGE	COUNTY, STATE
13	3	64	Weld, CO
WELL PERMIT NUMBER		JOB TYPE	
		Plug to Abandon	

TICKET	BCO-1906-0027
DATE	6/5/2019
CREW INFORMATION	
SUPERVISOR	Jeff Kopp
PUMP UNIT NUMBERS	445033
ARRIVAL (D&T)	6/5/19 7:42 AM
DEPARTURE (D&T)	

13_1-BCO_190603164928-JLPjob 1.xlsm]Main

Service & Equipment Charges

Price Code	Description	Unit	Quantity	Price	Gross Amount	Discount	Net Amount
202000008	Bulk Cement Delivery/Return	TON MILE	198				
202150001	Bulk Material Mixing Service Charge	FT3	107				
202990008	Data Acquisition System	JOB	1				
202000001	Pump Truck/Heavy Vehicle Mileage	MILE	35				
202000002	Pickup Mileage	MILE	35				
111000010	Environmental Fee*	EA	1				
CT002	Pump Charge 0-2000'	4-HRS	1				
	0	0					
	0	0					
	0	0					
	0	0					
	0	0					

Materials & Products 13

Price Code	Description	Unit	Quantity
CJ922	Type III Portland Cement	SK	107
CJ775L	Alpha Defoamer	GAL	1
	0	0	
	0	0	
	0	0	
	0	0	
	0	0	
	0	0	

Customer Stamp

Customer Name Printed _____

Customer Signature _____

Date Signed _____

C&J ENERGY SERVICES — O-TEX CEMENTING

Job Summary

Ticket Number	Ticket Date
TN# BCO-1906-0027	6/5/2019

COUNTY	COMPANY	API Number
Weld	PDC ENERGY	05-123-26314
WELL NAME	**RIG**	**JOB TYPE**
Guttersen 21-13	Ensign 354	Plug to Abandon
SURFACE WELL LOCATION	**CJES Field Supervisor**	**CUSTOMER REP**
40.23069 -104.50206	Jeff Kopp	Eduardo Chavez

EMPLOYEES

WELL PROFILE

Max Treating Pressure (psi):	1000	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	

Open Hole

	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
1					
2					

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 3/8	4.7		1829	0	902	0
Production	4 1/2	10.5		1829	0		

CEMENT DATA

Stage 1: Type: **Balance Plug**
From Depth (ft): 1829 To Depth (ft): 1230
Volume (sacks): 40 Volume (bbls): 9.5

Cement & Additives:	Density (ppg)	Yield (ft^3/sk)	Water Req.
	14.8	1.33	6.32

Stage 2: Type: **Surface Plug**
From Depth (ft): 902 To Depth (ft): 0
Volume (sacks): 63 Volume (bbls): 15

Cement & Additives:	Density (ppg)	Yield (ft^3/sk)	Water Req.

Stage 3: Type: **Top Off**
From Depth (ft): 63 To Depth (ft): 0
Volume (sacks): 1 Volume (bbls): 4

Cement & Additives:	Density (ppg)	Yield (ft^3/sk)	Water Req.

Stage 4: Type:
From Depth (ft): To Depth (ft):
Volume (sacks): Volume (bbls):

Cement & Additives:	Density (ppg)	Yield (ft^3/sk)	Water Req.

SUMMARY

			Stage 1	Stage 2
Preflushes:	10 bbls of	Fresh Water	Calculated Displacement (bbl):	4.7	
	bbls of		Actual Displacement (bbl):	4.7	
	bbls of				

TotalPreflush/Spacer Volume (bbl): 10
Total Slurry Volume (bbl): 25.5
Total Fluid Pumped: 35.5
Returns to Surface: Cement 1 bbls

Plug Bump (Y/N): N/A Bump Pressure (psi): N/A
Lost Returns (Y/N): N/A (if Y, when)

Job Notes (fluids pumped / procedures / tools / etc.): Job pumped per customers request. Job went well.

Customer Representative Signature:

Thank You For Using CJES O-TEX Cementing

C&J ENERGY SERVICES

Customer:	PDC ENERGY	Date:	6/5/2019	Serv. Supervisor:	Jeff Kopp
Cust. Rep.:	Eduardo Chavez	Ticket #:	BCO-1906-0027	Serv. Center	Brighton - 3021
Lease:	Guttersen 21-13	API Well #:	05-123-26314	County: Weld	State: CO
Well Type:	Oil	Rig:	Ensign 354	Type of Job:	Plug to Abandon

OPEN HOLE DATA

TUBULAR DATA

SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
2 3/8 4.7#		1829				

PREVIOUS CASING DATA

4.5 in. 10.5# (0 to 1,829 ft)

PERFORATED INTERVAL DATA

TOP	BTM	SPF	SIZE

CASING EQUIPMENT DEPTHS

SHOE	FLOAT	STAGE	ACP

WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY				
							1000	100

Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details
7:42 AM						0	ARRIVE ON LOCATION
7:45 AM						0	PRE JOB SAFETY MEETING
8:50 AM						0	SPOT EQUIPMENT
7:55 AM						0	RIG UP IRON AND HOSES
8:17 AM						0	SAFETY MEETING
8:23 AM	1.5		70		1	1	FILL LINES
8:24 AM			1547			1	PRESSURE TEST
8:26 AM	1.3		72		5	6	EST. CIRCULATION
8:31 AM	2.4		35		9.5	15.5	MIX AND PUMP 40SXS @14.8PPF 1.33Y 6.32WR
8:36 AM	2.3		25		4.7	20.2	DISPLACE
8:38 AM						20.2	SHUT DOWN
8:40 AM						20.2	WAIT ON RIG TO PULL TUBING
8:55 AM	0.7		15		5	25.2	EST. CIRCULATION
9:02 AM	1.6		53		15	40.2	MIX AND PUMP 63SXS @14.8PPF 1.33Y 6.32WR
9:10 AM						40.2	SHUT DOWN
9:12 AM						40.2	WAIT ON RIG TO PULL TUBING
9:33 AM	0.5		0		1	41.2	TOP WELL OFF WITH 4SXS @14.8PPG
9:39 AM							WASH UP
10:00 AM							RIG OUT
10:10 AM							LEAVE LOCATION

Left Yard		Left Loc.		Start Pump	
Arrived Loc.		Returned Yd.		End Pump	

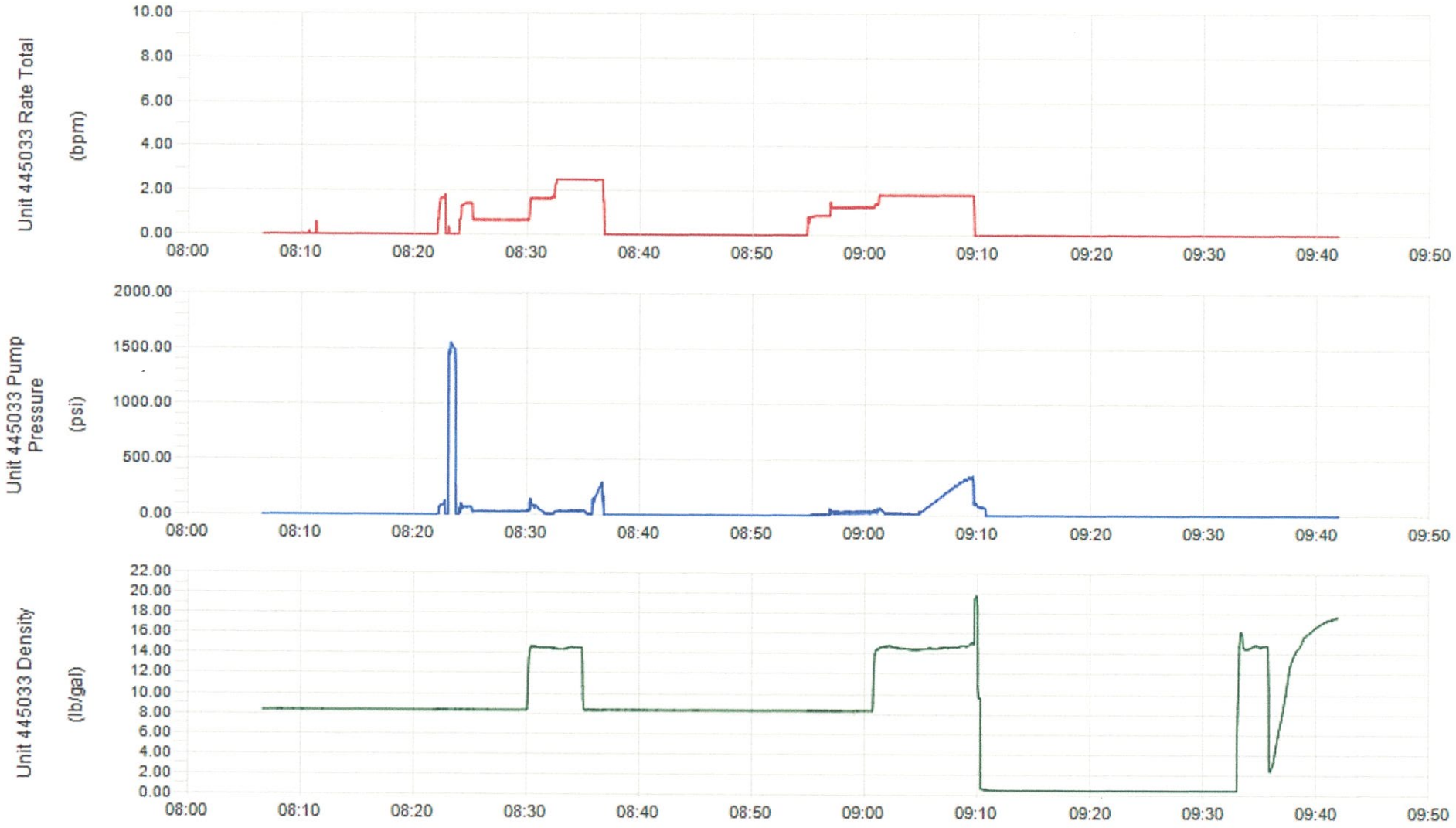
Bumped Plug (psi)	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Standby Charged(hrs)	Casing Reciprocation		
			0	1	0	Yes	1000		0			

Jeff Kopp

Service Supervisor Date

C&J ENERGY SERVICES
O-TEX CEMENTING

Client	PDC Energy	Client Rep	Eduardo Chavez	Supervisor	Jeff Kopp
Ticket No.	19060027	Well Name	Gutterson 21-13	Unit No.	445033
Location	NENW 13 3N64W	Job Type	Abandonment Plugs	Service District	Brighton Co
Comments				Job Date	06/05/2019



CASEDHOLE SOLUTIONS

C&J ENERGY SERVICES

Rev.032718 A

CUSTOMER P. O. NUMBER

SERVICE ORDER: F1962

PAGE: 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: 6/4/2019

To CASEDHOLE 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	Guttersen	WELL NUMBER	21-13			
	API	05-123-26314					
	FIELD	Wattenberg	PARISH/COUNTY	Weld	STATE	Colorado	

THE UNDERSIGNED, HEREINAFTER REFERRED TO AS CUSTOMER AGREES TO PAY YOU FOR THE ABOVE SPECIFIED SERVICE(S) (INCLUDING LEASED EQUIPMENT) AND ANY ADDITIONAL SERVICE(S) REQUESTED, AT THE FIELD OFFICE OF CASEDHOLE SOLUTIONS, INC. IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF YOUR CURRENT PRICE SCHEDULE.
IN CONSIDERATION OF THE PRICES AS ARE SET OUT IN YOUR CURRENT APPLICABLE PRICE SCHEDULE WE CHOOSE TO BE BOUND BY THE TERMS AND CONDITIONS SET OUT IN THE CURRENT PRICE SCHEDULE (ALSO PRINTED ON THE REVERSE SIDE HEREOF), INCLUDING THE ASSUMPTION BY US OF THE LIABILITIES AND RESPONSIBILITIES CONTAINED IN THE RESPONSIBILITIES HEREIN ASSUMED BY US.
WHEN SIGNED BY AN AGENT ON BEHALF OF CUSTOMER, SAID AGENT REPRESENTS THAT HE HAS FULL AUTHORITY FROM HIS PRINCIPAL TO EXECUTE SAME, IN THE ABSENCE OF AUTHORITY, THE SIGNER AGREES THAT HE SHALL BE OBLIGATED HEREUNDER AS CUSTOMER.

CUSTOMER NAME: PDC ENERGY

INVOICE MAILING ADDRESS | CITY | STATE | ZIP CODE

SIGNATURE OF CUSTOMER OR AURTHORIZED REPRESENATIVE

X

Thank you for using Casedhole Solutions!!

Total runs, all pages: 5

THE ESTIMATED CHARGES AND DATA SHOWN ARE SUBJECT TO CORRECTION BY CASEDHOLE SOLUTIONS, INC. ACCOUNTING

UNIT NUMBER: 200100 | OPERATION TYPE: DAYLIGHT | TRIP: FIRST | WELL TYPE: WORKOVER | HOISTING TYPE: WORKOVER RIG | ROUND TRIP MILEAGE

WIRELINE DEPTH | MAX. WELLHEAD PRESSURE: PSI | BOTTOM HOLE PRESSURE: PSI

Desc. NO.	PERF. INTERVAL	PLUG DEPTH	OPERATION	ITEM	QUAN.	UNIT PRICE	DISC.	DISC. PRICE	AMOUNT
1			P - Packoff	each	1				
2	No Tag - 6600'		P - Gauge Ring or Depth Determination	per run	1				
3		6544'	P - Plug or Retainer - setting (3rd party)	each	1				
4		6544'	P - Dump Bailer w/ 2sx Cement	per run	1				
5		4000'	P - Plug or Retainer - setting (3rd party)	each	1				
6		4000'	P - Dump Bailer w/ 2sx Cement		1				

STANDARD PRICING

TOTAL DISC

ESTIMATED TOTAL C

SERVICE	FIRST READING	LAST READING	FOOTAGE DEL.

Desc. NO.	NO. GUNS	SHOTS FIRED	TYPE CHRG.	SIZE

NO. DESC.	NO. SHOTS FIRED	NO. SEL. SWITCHES	SEL. SW. FAILURES
5	0	0	0

ES. EQ. USE	% H2S/ACID	PHASE	SPF
10K		0	0

Runs for this job made in June were 5

Was catering provided by Casedhole Solutions?

NO

THE SERVICE(S) AND/OR EQUIPMENT COVERED BY THIS SERVICE ORDER HAVE BEEN

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENATIVE

X Eduardo Chavez Chavez

LOGS RECEIVED AT WELL | CUST. INITIALS

SIGNATURE OF CASEDHOLE SOLUTIONS ENGINEER

Meisner,Jacob

CASING/TUBING RECORD

SIZE	WEIGHT	TYPE	FROM	TO
		Casing 1		
		Casing 2		
		Tubing		
		Liner		
		Drill Pipe		

PERM. DEPTH DATUM: GROUND LEVEL | ELEV. | ELEV K.B.

LOG MEAS. FROM | WHICH IS | ABOVE PERM DATUM | D.F. | G.L.

Fluid Type	Fluid Weight	Fluid Level
Water	8.345 lbs/gal	feet

Bottom Hole Temperature: Degrees F

REMARKS

District doing job:	Fort Lupton, CO
Line of Business:	Completions
Type of Job:	
Class:	Vert. Domestic
District job is in:	Fort Lupton, CO
RC#:	
Engineer:	
MSA#:	

CASEDHOLE ENGINEER NAMES

Meisner,Jacob	Crew 1
	Crew 2
	Crew 3
	Crew 4
	Crew 5
	Crew 6

WORK WITNESSED BY NAME

Chavez