



TICKET	BCO-1901-0009
DATE	1/2/2019
CREW INFORMATION	
SUPERVISOR	Francisco Corral-Flores
PUMP UNIT	445033
NUMBERS	
ARRIVAL (D&T)	1/2/19 2:00 PM
DEPARTURE (D&T)	1/2/19 6:00 PM

Date Signed

COUNTY	COMPANY	API Number
<b>Weld</b>	<b>PDC ENERGY</b>	<b>05-123-25911</b>
WELL NAME	RIG	JOB TYPE
<b>Wells Ranch 10B</b>	<b>Ranger 14</b>	<b>Plug to Abandon</b>
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
<b>40.40994 -104.42767</b>	<b>Francisco Corral-Flores</b>	<b>Eduardo Chavez</b>

EMPLOYEES
<i>Rich Devine</i>
<i>Justin Lacombe</i>
<i>Michael Arthur</i>

WELL PROFILE			
Max Treating Pressure (psi):	1500	Bottom Hole Static Temperature (°F):	
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)
Surface	8.625	24		452	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Production	4.5	10.5		4693	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Tubing	2.375	4.7		4693	0		

**CEMENT DATA**

Stage 1:	From Depth (ft):	4693	To Depth (ft):	4051	
	Type: <b>Balance Plug</b>				
	Volume (sacks):	50	Volume (bbls):	10.2	
Cement & Additives:			Density (ppg)	Yield (ft^3/sk)	Water Req.
100% CJ914			15.8	1.15	5.00

Stage 2:	From Depth (ft):	1812	To Depth (ft):	1221	
	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 3:	From Depth (ft):	678	To Depth (ft):	0	
	Type: Surface Plug				
	Volume (sacks):	46	Volume (bbls):	10.8	
Cement & Additives:			Density (ppg)	Yield (ft³/sk)	Water Req.
100% CJ922			14.8	1.33	6.32

Stage 4:

From Depth (ft):

To Depth (ft):

Type: Top Off

Volume (sacks):

60

Volume (bbls):

14

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% CJ922	14.8	1.33	6.32

**SUMMARY**

Preflushes:	<b>16</b> bbls of <b>Fresh Water</b>	Calculated Displacement (bbl):	<b>15.6</b>	<b>Stage 1</b>	<b>Stage 2</b>
	bbls of	Actual Displacement (bbl):	<b>15.6</b>		<b>4.7</b>
Total Preflush/Spacer Volume (bbl):	<b>16</b>	Plug Bump (Y/N):	<b>N/A</b>	Bump Pressure (psi):	<b>N/A</b>
Total Slurry Volume (bbl):	<b>42.6</b>	Lost Returns (Y/N):	<b>N</b> (if Y, when)		
Total Fluid Pumped	<b>80.9</b>				
Returns to Surface:	<b>Cement 2.5 bbls</b>				

Job Notes (fluids pumped / procedures / tools / etc.):  
 Balance plug- Mix & pump 50sx@15.8ppg 1.15Y ETOC@4051'. Rig crew pulled tubing out to 1812' for 2nd plug. Mix & pump 40sx@14.8ppg 1.33Y ETOC@1221'. Surface plug- End of tubing@678' Mix & pump 46sx@14.8ppg 1.33Y. Rig crew rigged down and we tied on to surface casing and filled annular to surface. Mix & pump 60sx@14.8ppg 1.33Y Brought cement to surface. Pumped job per customers request. Job went well. Thank you!

Thank You For Using

CJES O-TEX Cementing

Customer Representative Signature:





1 of 1  
1/2/2019



Daily Work Ticket

Report #

<b>Customer Name</b> PDC Energy		<b>Customer AFE #</b>		<b>Date:</b> 1/2/2019	
<b>Mailing Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>	<b>County</b>	
		CO		WELD	
<b>Field</b>	<b>Lease</b>	<b>Well</b>		<b>Order #</b>	
		WELLS RANCH 10B			
<b>Work Description</b>	<b>Workover</b> <input checked="" type="checkbox"/>	<b>Rod</b> <input type="checkbox"/>	<b>Rod &amp; Tubing</b> <input type="checkbox"/>	<b>Re-entry</b> <input type="checkbox"/>	
	<b>Swabbing</b> <input type="checkbox"/>	<b>Tubing</b> <input checked="" type="checkbox"/>	<b>Completion</b> <input type="checkbox"/>	<b>P &amp; A</b> <input checked="" type="checkbox"/>	

Description	Qty.	Rate Hr/Day/Ea	Total	Workover Equipment	Qty.	Rate Hr/Day/Ea	Total
Riq & Crew	13.			BOP	1.0		
Extra Labor	@			Pump	1.0		
Riq Fuel	@			Tank	1.0		
Pump Fuel	@			Base Beam	1.0		
Cementing Services	@			Pipe Handler	@		
Extra Cement - Cementing Services	@			Loader	@		
P & A Bidded Cost	@			Pipe Racks	@		
<b>ReCharge Items</b>				Power Swivel	@		
Crew Travel	1.0			JU/Washington H	@		
Tool Pusher	@			Rod/TBG Tongs	@		
Per Diem	@			Adapter Flange	@		
Stripper Rubbers	@			Catwalk	@		
Pipe Wipers	1.0			<b>Swabbing Equipment</b>			
Tong Dies	@			Swab Cups - Size	@		
Slip Dies	@			OSR	@		
Safety Valve	@			Swabbing Acid	@		
Fishing Tools-Recharge	@			Fishing Tools	@		
Pipe Dope	1.0			Extra Tank	@		
Handling Equipment	@			Permits	@		
Gas Monitors and Pack	1.0						
<b>Description</b>				<b>Discount:</b> \$0.00 (0.00%)			
Miscellaneous	@			<b>TOTAL BILLABLE AMOUNT</b>			

Description of Work Start Time 06:00 am Stop Time 06:00 pm

crew travel to location held safety meeting warm up rig and pump check well pressure 0 psi, trip in with 76 stands of derrick lay down 4 jts, wait on cementers, pick up 5 jts rig up cementers first balance plug @ 4693, mix and pump 50 sxs of 15.8 ppg, lay down 94 jts to 1812, second plug mix and pump 40 sxs of 14.8ppg, lay down 38 jts to 678, third plug mix and pump 46 sxs of 14.8ppg, up to surface, lay down last 21 jts shut blinds and hook up cementers to casing and filled annular to surface mix and pump 60 sxs of 14.8ppg brought cement to surface rig down tongs and work floor nipple down bop, set hanger back in well head shut in well drain hardline crew travel back home.

Payroll Section					
Employee	Rev Hours	Travel Hours	Non Rev Hours	Total	
Tool Pusher Hernandez Arana, Jesus	0.00	0.00	0.00	0.00	
Operator Garcia, Marco	13.00	1.00	0.00	14.00	
Derrick Hascon, Leon	13.00	1.00	0.00	14.00	
FloorHand Medrano, Saul	13.00	1.00	0.00	14.00	

No Unreported Incidents Per My Signature

Ranger Tool Pusher

Customer/Agent





Daily Work Ticket

Report #

<b>Customer Name</b> PDC Energy		<b>Customer AFE #</b>		<b>Date:</b> 12/31/2018
<b>Mailing Address</b>	<b>City</b>	<b>State</b> CO	<b>Zip</b>	<b>County</b> WELD
<b>Field</b>	<b>Lease</b>	<b>Well</b> WELLS RANCH 10B		<b>Order #</b>
<b>Work Description</b>	<b>Workover</b> <input checked="" type="checkbox"/>	<b>Rod</b> <input type="checkbox"/>	<b>Rod &amp; Tubing</b> <input type="checkbox"/>	<b>Re-entry</b> <input type="checkbox"/>
	<b>Swabbing</b> <input type="checkbox"/>	<b>Tubing</b> <input checked="" type="checkbox"/>	<b>Completion</b> <input type="checkbox"/>	<b>P &amp; A</b> <input checked="" type="checkbox"/>

Description	Qty.	Rate Hr/Day/Ea	Total	Workover Equipment	Qty.	Rate Hr/Day/Ea	Total
Rig & Crew				BOP	1.00		
Extra Labor				Pump	1.00		
Rig Fuel				Tank	1.00		
Pump Fuel				Base Beam	1.00		
Cementing Services				Pipe Handler	@		
Extra Cement - Cementing Services				Loader	@		
P & A Bidded Cost				Pipe Racks	@		
<b>ReCharge Items</b>				Power Swivel	@		
Crew Travel				JU/Washington H	@		
Tool Pusher				Rod/TBG Tongs	@		
Per Diem				Adapter Flange	@		
Stripper Rubbers				Catwalk	@		
Pipe Wipers				<b>Swabbing Equipment</b>			
Tong Dies				Swab Cups - Size	@		
Slip Dies				OSR	@		
Safety Valve				Swabbing Acid	@		
Fishing Tools-Recharge				Fishing Tools	@		
Pipe Dope				Extra Tank	@		
Handling Equipment				Permits	@		
Gas Monitors and Pack				<b>Discount:</b> \$0.00 (0.00%)			
<b>Description</b>				<b>TOTAL BILLABLE AMOUNT</b>			
Miscellaneous							

Description of Work Start Time 06:00 am Stop Time 03:30 pm

crew travel to location held safety meeting warm up rig and pump check well pressure o psi, trip out 30 stands to derrick rig up wire line make gauge run , set plug @ 6336, dump 2 sacks of cement on top of plug, fill up casing with water and test plug at 1,000 psi , log where perforations are going to be, perforate at 270 ft, rig down wire line, circulate clean down casing up surface , shut in well drain pump and lines crew travel back home.

Payroll Section					
Employee	Rev Hours	Travel Hours	Non Rev Hours	Total	
Tool Pusher Hernandez Arana, Jesus	0.00	0.00	0.00	0.00	
Operator Garcia, Marco	8.50	1.00	0.00	9.50	
Derrick Hascon, Leon	8.50	1.00	0.00	9.50	
FloorHand Medrano, Saul	8.50	1.00	0.00	9.50	

No Unreported Incidents Per My Signature

Ranger Tool Pusher

Customer/Agent



Daily Work Ticket

Report #

<b>Customer Name</b> PDC Energy		<b>Customer AFE #</b>		<b>Date:</b> 12/28/2018	
<b>Mailing Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>	<b>County</b>	
		CO		WELD	
<b>Field</b>	<b>Lease</b>	<b>Well</b>		<b>Order #</b>	
		WELLS RANCH 10B			
<b>Work Description</b>	<b>Workover</b> <input checked="" type="checkbox"/>	<b>Rod</b> <input type="checkbox"/>	<b>Rod &amp; Tubing</b> <input type="checkbox"/>	<b>Re-entry</b> <input type="checkbox"/>	
	<b>Swabbing</b> <input type="checkbox"/>	<b>Tubing</b> <input checked="" type="checkbox"/>	<b>Completion</b> <input type="checkbox"/>	<b>P &amp; A</b> <input checked="" type="checkbox"/>	

Description	Qty.	Rate Hr/Day/Ea	Total	Workover Equipment	Qty.	Rate Hr/Day/Ea	Total
Rig & Crew	11			BOP	1.00		
Extra Labor	@			Pump	1.00		
Rig Fuel	@			Tank	1.00		
Pump Fuel	@			Base Beam	1.00		
Cementing Services	@			Pipe Handler	@		
Extra Cement - Cementing Services	@			Loader	@		
P & A Bidded Cost	@			Pipe Racks	@		
<b>ReCharge Items</b>				Power Swivel	@		
Crew Travel	1.0			JU/Washington H	1.00		
Tool Pusher	@			Rod/TBG Tongs	@		
Per Diem	@			Adapter Flange	@		
Stripper Rubbers	@			Catwalk	@		
Pipe Wipers	1.0			<b>Swabbing Equipment</b>			
Tong Dies	@			Swab Cups - Size	@		
Slip Dies	@			OSR	@		
Safety Valve	@			Swabbing Acid	@		
Fishing Tools-Recharge	@			Fishing Tools	@		
Pipe Dope	1.0			Extra Tank	@		
Handling Equipment	@			Permits	@		
Gas Monitors and Pack	1.0						
<b>Description</b>				<b>Discount:</b> \$0.00 (0.00%)			
Miscellaneous	@			<b>TOTAL BILLABLE AMOUNT</b>			

Description of Work Start Time 06:00 am Stop Time 06:00 pm

crew travel to location held safety meeting warm up rig check well pressure well was on a vacuum, trip out 76 stands to derrick tally out and lay down 64 jts on trailer, rig up wire line stacked out gauge ring at 4440, ft rig down wire line, pick up tapered mill trip in 73 stands and tagged dv tool with 6 ft in on joint # 146, lay down 1 jt rig up washington rubber rig up power swivel on joint # 146, break circulation, got through dv tool circulate hole bottoms up rig down power swivel, trip out 46 stands to derrick shut in well drain pump and lines crew travel back home.

Payroll Section					
Employee	Rev Hours	Travel Hours	Non Rev Hours	Total	
Tool Pusher Hernandez Arana, Jesus	0.00	0.00	0.00	0.00	
Operator Garcia, Marco	11.00	1.00	0.00	12.00	
Derrick Hascon, Leon	11.00	1.00	0.00	12.00	
FloorHand Medrano, Saul	11.00	1.00	0.00	12.00	

No Unreported Incidents Per My Signature

Ranger Tool Pusher

Customer/Agent





Field Ticket #  
23473

NO 23473

Date  
1/2/2019

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:		Wells Ranch		Well #:	10B
Address:		3801 Carson Ave			County:		CO		Invoice Ref. #:	
City:		Evans			Job Type:				OCSG #:	
State:		CO	Zip:	80620	Legal Description:		4-1/2 11.6#			
Ordered By:		Eduardo Chavez		WRCCSE, 1SW, 1S1.5E, 5into		Service Man:		MERCED TERRAZAS		
NO.	RENTALS/SALES				QTY	PRICE	DSC	TOTAL		
1	Rental of TIW valve				1					
2	Rental of 7-1/16 5K BOP adopter flange				1					
3	Rental of 3-3/4 tapered mill				3.75					
4	Rental of 2-3/8 reg box x 2-3/8 8rd box				1					
5	Rental of power swivel				1					
6										
7										
8										
9										
10										
11										
12										
13										
14										
					Subtotal Taxable Charges					
SERVICE MAN TIME										
					Subtotal Non-Taxable Charges					
					MILEAGE					
					Mileage					
					35					
					Subtotal Non-Taxable Charges					
					Terms: Net 30 Days					

Authorized Agent: Eduardo Chavez Date: \_\_\_\_\_



## 23475

1/2/2019

**Fax: 970.284.6682**

Office: 970.301.2028

33250 CR 53 Gill, CO 80624

Edward A. M.

Authorized Agent: \_\_\_\_\_

Date:



## No. 23476

**Fax: 970.284.6682**

Date: \_\_\_\_\_



C&J ENERGY SERVICES

Rev.032718 A

CASED HOLE SOLUTIONS, INC.  
You are hereby requested to perform or attempt to perform the following service(s) or furnish the following equipment.

CASED HOLE SOLUTIONS, INC.  
F-4541  
DATE 12/31/2018

CASED HOLE SOLUTIONS

1 of 1

CUSTOMER

FURNISHED

LEASE/WELL

PDC ENERGY

WELLS RANCH

0

WATTENBERG

PARISH/COUNTY

WELD

STATE

COLORADO

INFORMATION

The undersigned, hereinafter referred to as customer, agrees to pay you for the above specified services (including leased equipment) and any additional services requested at the field office of Cased Hole Solutions, Inc. in accordance with the applicable provisions of your current price schedule. In consideration of the prices 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 AUTHORIZED REPRESENTATIVE

Thank you for using Cased Hole Solutions!! Total runs, all pages 4

UNIT NUMBER 200128

OPERATION TYPE DAYLIGHT

TRIP FIRST

MAX. WELLHEAD PRESSURE PSI

ROUND TRIP MILEAGE

BOTTOM HOLE PRESSURE PSI

WIRELINE DEPTH

Desc. NO.

PERF. INTERVAL

PLUG DEPTH

ITEM

QUAN.

UNIT PRICE

DISC PRICE

AMOUNT

Service

First Reading

Last Reading

FOOTAGE DEL.

1

P - Gauge Ring or Depth Determination

per run

1

Plug

2

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

each

1

Perf

3

P - Dump Bailer

per run

1

4

P - Packoff

each

1

5

P - Squeeze Gun - 1st Gun

each

1

6

P - Barrel charge

ft.

1

7

8

9

10

No. GUNS

NO. SHOTS FIRED

TYPE CHRG.

SIZE

Was catering provided by Casedhole Solutions?

NO

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

EDURADO CHAVEZ

SIGNATURE OF CASED HOLE SOLUTIONS ENGINEER

Robert Gardner

CASING/TUBING RECORD

SIZE

WEIGHT

TYPE

FROM

TO

PERM. DEPTH DATUM

GROUND LEVEL

ELEV.

ELEV K.B.

LOG MEAS. FROM

WHICH IS

ABOVE PERM DATUM

D.F.

G.L.

Runs for this job-4

Casing 1

Casing 2

Tubing

Liner

Drill Pipe

REMARKS

District doing job Fort Lupton, CO

Line of Business Completions

Type of Job Vertical Perf. and Logging

Class Vert. Domestic

District job is in Fort Lupton, CO

AFE#

Engineer

MSA#

CASED HOLE ENGINEER NAMES

Gardner, Robert Russell

Crew 1

Crew 2

Crew 3

Crew 4

Crew 5

Crew 6



C&J ENERGY SERVICES

Rev.032718 A

CASED HOLE SOLUTIONS

CUSTOMER PDC ENERGY

COMPANY PDC ENERGY

FURNISHED WELLS RANCH

LEASE

LEASE/WELL 10B

LEGAL & LOCATION 0

INFORMATION WATTENBERG

FIELD

PARISH/COUNTY WELD

STATE COLORADO

THE UNDERSIGNED, HERINAFTER 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 CASED HOLE 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 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

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

CITY STATE ZIP CODE

200128

OPERATION TYPE DAYLIGHT

TRIP: FIRST

WELL TYPE: WORKOVER

HOISTING TYPE: WORKOVER RIG

ROUND TRIP MILEAGE

Bottom Hole Pressure: PSI

Thank you for using Casedhole Solutions!!

Total runs, all pages 1

200128

WIRELINE DEPTH

MAX. WELLHEAD PRESSURE

PSI

Bottom Hole Pressure: PSI

UNIT NO.

PERF. INTERVAL

PLUG DEPTH

ITEM

QUAN.

UNIT PRICE

DISC. PRICE

AMOUNT

Service

Plug

Perf

Desc. NO.

NO. GUNS

SHOTS FIRED

TYPE CHRG.

SIZE

LAST READING

FOOTAGE DEL.

Runs for this job-1

STANDARD PRICING

TOTAL

ESTIMATED TOTAL

NO

Was catering provided by Casedhole Solutions?

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

LOGS RECEIVED AT WELL

CUST. INITIALS

SIGNATURE OF CASED HOLE SOLUTIONS ENGINEER

CASING/TUBING RECORD

SIZE

WEIGHT

TYPE

FROM

TO

PERM. DEPTH DATUM

GROUND LEVEL

ELEV.

ELEV K.B.

Crew 1

Crew 2

Crew 3

Crew 4

Crew 5

Crew 6

Gardner, Robert Russell

WORK WITNESSED BY NAME

EDURADO CHAVEZ

Bottom Hole Temperature

Degrees F

Fluid Type

Fluid Weight

lbs/gal

feet

District doing job: Fort Lupton, CO

Line of Business: Completions

Type of Job: Vertical Perf. and Logging

Class: Vert. Domestic

District job is in: Fort Lupton, CO

AFE#:

Engineer:

MSA#: