



Well History

Well Name: Hazen 21-33

API 05123229950000		Surface Legal Location NENW 33 7N 65W		Field Name Wattenberg		State CO		Well Configuration Type Vertical	
Ground Elevation (ft) 4,800.00	Original KB Elevation (ft) 4,810.00	KB-Ground Distance (ft) 10.00	Spud Date 6/24/2005 00:00		Rig Release Date 6/28/2005 00:00		On Production Date 7/30/2005		Abandon Date

Daily Operations

Start Date	Summary	End Date
11/9/2015	<p>MIRU ENSIGN RIG #316</p> <p>IWP TBG- 150 PSI, CSG- 250 PSI, SURFACE CSG- 0 PSI. HELD SAFETY MEETING AND FUNCTION TESTED BOPS. OPENED WELL TO FLAT TANK. R/U CIRCULATING EQUIPMENT. LOADED TBG AND BACKSIDE AND ROLLED HOLE CLEAN. N/D WELL HEAD TREE AND N/U BOPS. P/U RIH 10 JTS TBG FROM FLOAT. TAGGED SAND PLUG. LOADED TBG AND BACKSIDE, ESTABLISHED CIRCULATION AND ROLLED SAND OFF PLUG. LATCHED ONTO PLUG AND RELEASED RBP. POOH TALLY OUT TO DERRICK 218 JTS 2 3/8" TBG. L/D RBP AND RETRIEVING HEAD. P/U SN/NC AND TIH OUT OF DERRICK 218 JTS TBG. P/U RIH OFF SILLS 26 JTS TBG. TAGGED W/ 10' IN ON JT 234 (7335' KB) LEAVING 155' RAT HOLE. NO C/O NECESSARY. POOH L/D 7 JTS TBG. P/U RIH 14' WORTH OF SUBS. P/U STANDING VALVE AND PUMPED DOWN TBG TO TEST TBG DUE TO MUDDY LOCATION. SEATED STANDING VALVE AND PRESSURED UP TBG TO 1500 PSI. HELD FOR 15 MIN. TEST GOOD. RIH WITH FISHING TOOL ON SAND LINE AND FISHED STANDING VALVE. N/D BOPS AND LANDED WELL AS FOLLOWS:</p> <p>KB- 10' 1 PUP JOINT- 6' 1 PUP JOINT - 8' 227 JTS 2 3/8" 4.70# J-55 8 RD TBG - 7129.68' 2 3/8" SN/NC- 1.60'</p> <p>TOTAL LANDED DEPTH = 7155.28' KB (17' ABOVE TOP CODELL PERFS). N/U TOP WELL HEAD FLANGE AND MASTER VALVE. SWI, SDFD, CREW TO THE YARD.</p>	11/9/2015
11/10/2015	<p>CREW TO LOCATION</p> <p>IWP TBG- BLOW, CSG- 60 PSI, SURFACE CSG- 0 PSI. OPENED WELL TO FLAT TANK. MADE 1.910" BROACH RUN TO SN W/ NO PROBLEMS. R/U SWABBING TOOLS AND SWABBED ALL DAY. RECOVERED 55 BBLS FLUID AND SWABBED FLUID FROM 1600' TO 3800' KB. R/D TOOLS AND LUBRICATOR. SWI, RDMO, RWTP.</p> <p>NOTE THERE WAS 19 JTS 2 3/8" TBG FMTD FROM ATP YARD/ PDC INVENTORY TO WELL.</p>	11/10/2015



SERVICE ORDER CONTRACT

Customer: **PDC Energy, Inc.**

Ticket Number: **FL2796**

Lease & Well Number: **Hazen 21-33**

Date: **12/15/2017**

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.

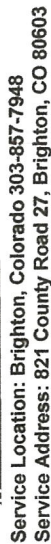
The prices and discounts reflected herein are based on C&J being awarded the work on a first call basis. Prices may be adjusted if the work is not on a first call basis. Prices are valid for a period of thirty (30) days following this quotation. Taxes, if any, will be applied to the actual invoice.

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: _____



TN # FL2796

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

Service Date:	12/15/2017	Well Name:
Customer:	PDC Energy, Inc.	
Address:	PO Box 26	County:
City:	Attn: Accounts Payable	State:
St:	Bridgeport	API #
Customer Rep:	WV 26330	AFE #
	Eduardo Chavez	

Hazen 21-33	Job Type: Stub Plug
Weld	
CO	
05-123-22995	

Service Supervisor: Laeger, Kacey

	Pump #1	445070
	Pump #2	

[illegible]

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 represents that its use would not infringe privately owned rights.

Job Summary

 Ticket Number
 TN# FL2796

 Date
 12/15/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-22995
WELL NAME	RIG	JOB TYPE
Hazen 21-33	Brigade 14	Stub Plug
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NENW 33-7N-65W	Laeger, Kacey	Eduardo Chavez

EMPLOYEES		
Melgarejo, Eduardo		
Payne, James		

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	477	680		
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	477		
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	680	792		
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	792		

CEMENT DATA

 Stage 1:
 Type: Plug
 From Depth (ft): 0 To Depth (ft): 792
 Volume (sacks): 330 Volume (bbls): 67.5

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

SUMMARY

		Stage 1	Stage 2
Preflushes:	5 bbls of Weighted Spacer	Calculated Displacement (bbl):	
	bbls of	Actual Displacement (bbl):	
	bbls of		
Total Preflush/Spacer Volume (bbl):	5	Plug Bump (Y/N):	NA
Total Slurry Volume (bbl):	67.5	Lost Returns (Y/N):	N (if Y, when)
Total Fluid Pumped	72.5	Bump Pressure (psi):	NA
Returns to Surface:	Cement 1 bbls		

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

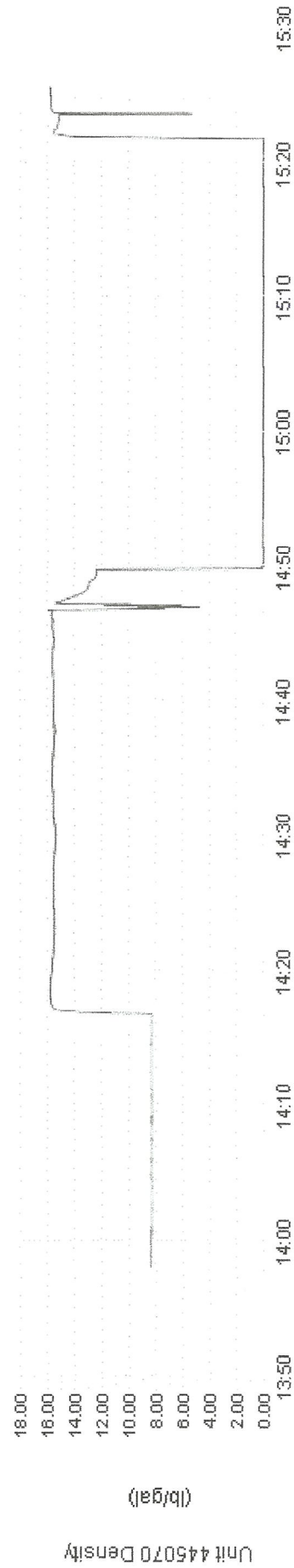
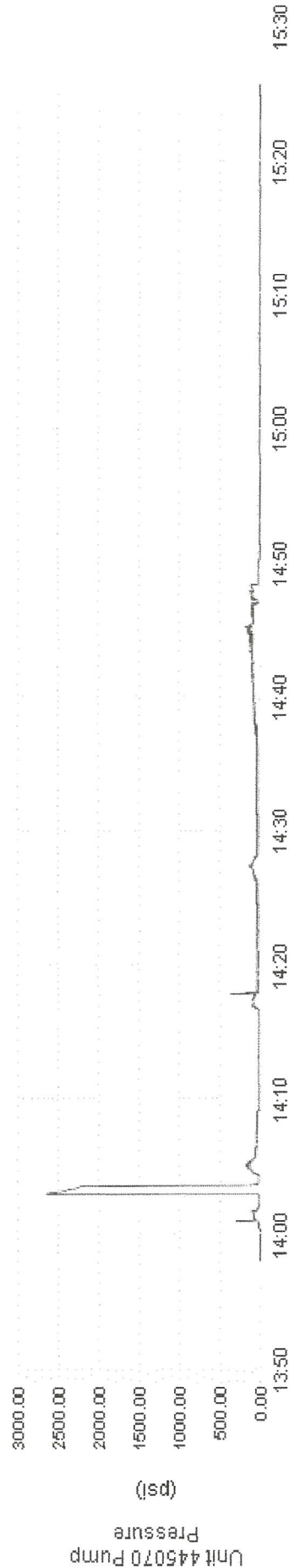
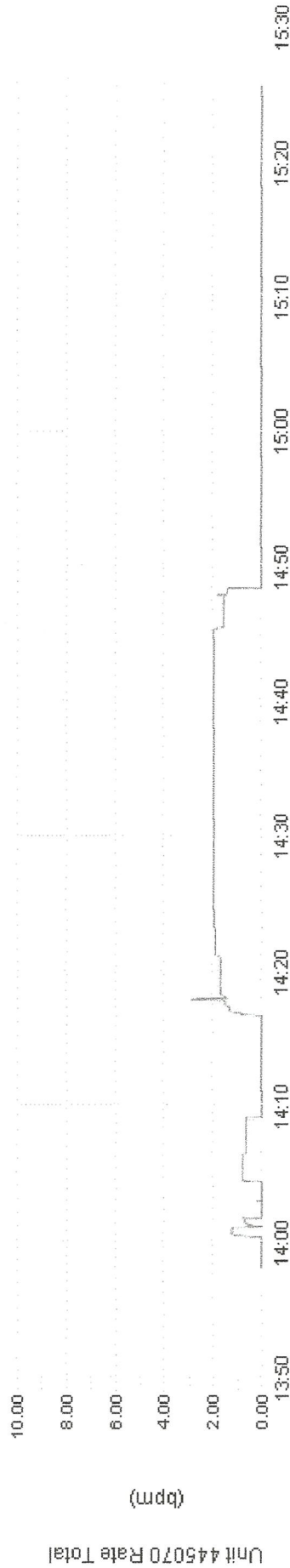
Production casing cut at 680

 Thank You For Using
 O-TEX Cementing

Customer Representative Signature:

[illegible]

Client	PDC Energy INC	Client Rep	Mr. Eduardo Chavez	Supervisor	Laeger, Kacey
Ticket No.	2796	Well Name	Hazen 21-33	Unit No.	445070
Location	NENW 33-7N-65W	Job Type	Abandonment Plugs	Service District	Brighton
Comments				Job Date	11/14/2017





№ 20643
12/15/2017

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:		Hazen		Well #:		21-33	
Address:			3801 Carson Ave				County:		CO		Invoice Ref. #:			
City:			Evans		Field:		Job Type:		St:		OCSG #:			
State:			CO		Zip:		Casing Sz & Wt:		4-1/2					
Ordered By:			Eduardo Chavez		Legal Description:		Service Man:		MERCED TERRAZAS					
NO.			RENTALS/SALES		QTY		PRICE		DSC		TOTAL			
1											\$0.00			
2											0.00			
3			Rental of 8-5/8 surface BOP adopter spool		1		425.00		35%		276.25			
4			Rental of 4-1/2 lifting sub		1		198.00		35%		128.70			
5											0.00			
6											0.00			
7											0.00			
8											0.00			
9											0.00			
10											0.00			
11											0.00			
12											0.00			
13											0.00			
14											0.00			
							Subtotal Taxable Charges				\$404.95			
SERVICE MANS TIME														
											\$0.00			
											0.00			
											0.00			
											0.00			
							Subtotal Non-Taxable Charges				\$0.00			
MILEAGE														
			Mileage		30		\$2.95				\$88.50			
											0.00			
											0.00			
											0.00			
							Subtotal Non-Taxable Charges				\$88.50			
Terms: Net 30 Days														
Total Service & Material:														
Tax:														
TOTAL CHARGES:														

Authorized Agent: _____

Date: _____

P.O. BOX 341
STERLING, CO 80751
970-522-8387

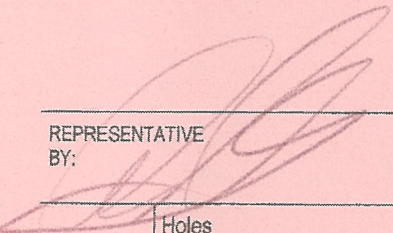
PICK TESTERS HYDRO

TICKET
NO. DH - 9932

B I T L	Customer Name <u>PDC Energy</u>	On Location: <u>11am</u>
	Address	On Stand By:
	City	Off Stand By:
	State	Off Location: <u>11:30am</u>
	Zip	
	Customer Order No. <u>Edwards/Arviz</u>	

Purpose of Work MIT TEST Pressure Used 500# 15min
Date 12/15/17 Lease HAZEN Well No 21-33
Field County Weld State CO Location
Casing Size & Wt. 4 1/2 Tubing Size & Wt. 2 3/4
Contractor & # Belgrade #13 Round Trip Miles From N/A

Directions:
Rd 70241, E 2/10, S 6/10, E into
API # 0512322995 - 0000
NENW, SEC 33, 7N, 65W

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Joints		
	Mileage		
	Test Cups		
	Hours		
1	Methanol <u>Net Clean</u>		<u>25.00</u>
1	Casing Test <u>MIT TEST</u>	<u>FIR</u>	<u>430.00</u>
1	Computer Pressure Log		<u>175.00</u>
		Sub Total	<u>630.00</u>
		Sales Tax	
		Labor	<u>-63.00</u>
		<u>Less 10% discount</u>	
REPRESENTATIVE BY: 	TOTAL CHARGES	Subject to Correction in accordance with Latest Published Price Schedules	
		<u>\$567.00</u>	

Holes
Rod Cuts
Bad Pins
Collar Leaks
Split Joints

Remarks: Good Test

I certify that the above material and/or services has been delivered and/or used; that the basis for charges are correctly stated; and that I am authorized to sign this agreement as agent of customer.

Company _____ By Edwards/Arviz Date _____

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109



FOR OGCC USE ONLY

MECHANICAL INTEGRITY TEST

Fill out Part II of this form if well tested is a permitted or pending injection well. Send original plus one copy.

1. Duration of the pressure test must be a minimum of 15 minutes.
2. A pressure chart must accompany this report if this test was not witnessed by a OGCC representative.
3. For production wells, test pressures must be at a minimum of 300 psig.
4. For injection wells, test pressures must be at 300 psig or minimum injection pressure, whichever is greater.
5. A minimum 300 psi differential pressure must be maintained between the tubing and tubing/casing annulus pressure.
6. Do not use the form if submitting under provisions of Rule 326, s. (1) B. or C.
7. OGCC notification must be provided prior to the test.
8. Packers or bridge plugs, etc., must be set within 250 feet of the perforated interval to be considered a valid test.

OGCC Operator Number: 69175		Contact Name and Telephone	
Name of Operator: PDC Energy Inc.		Travis Yenne	
Address: 3801 Carson Ave.		No: 970-506-9272	
City: Evans State: CO Zip: 80620		Fax: 970-506-9276	
API Number: 05-123-22995-0008		Field Name: _____ Field Number: _____	
Well Name: Hazen		Number: 2133	
Location (Qtr, Sec, Twp, Rng, Meridian): NENW, Sec 33, 7N, 65W			

Complete the Attachment Checklist

	OGCC	OGCC
Pressure Chart		
Cement Bond Log		
Tracer Survey		
Temperature Survey		

☒ SHUT-IN PRODUCTION WELL ☐ INJECTION WELL Facility No.: _____

Part I Pressure Test

- ☐ 5-Year UIC Test ☐ Test to Maintain SI/TA Status ☐ Reset Packer
☐ Verification of Repairs ☐ Tubing/Packer Leak ☐ Casing Leak ☐ Other (Describe): _____

Describe Repairs: _____

NA - Not Applicable		Wellbore Data at Time Test		Casing Test <input type="checkbox"/> NA	
Injection/Producing Zone(s)		Perforated Interval: <input type="checkbox"/> NA Open Hole Interval: <input type="checkbox"/> NA		Use when perforations or open hole is isolated by bridge plug or cement plug	
				Bridge Plug or Cement Plug Depth	
				CIBP at 6805	
Tubing Casing/Annulus Test <input type="checkbox"/> NA					
Tubing Size:	Tubing Depth:	Top Packer Depth:	Multiple Packers? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
Test Data					
Test Date	Well Status During Test	Date of Last Approved MIT	Casing Pressure Before Test	Initial Tubing Pressure	Final Tubing Pressure
12-15-17			0		
Starting Casing Test Pressure	Casing Pressure - 5 Min.	Casing Pressure - 10 Min.	Final Casing Test Pressure	Pressure Loss or Gain During Test	
530	530	530	530	0	
Test Witnessed by State Representative? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			OGCC Field Representative: _____		

Part II Wellbore Channel Test

Complete only if well is or will be an injection well.

Indicate method used for cement integrity test, attach appropriate records, charts, or logs unless previously submitted.

<input type="checkbox"/> Tracer Survey	<input type="checkbox"/> CBL or Equivalent	<input type="checkbox"/> Temperature Survey
Run Date: _____	Run Date: _____	Run Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: _____

Signed: _____ Title: _____ Date: _____

OGCC Approval: _____ Title: _____ Date: _____

Conditions of Approval, if any: _____