



Well Name: Hazen 23-28

Well Name Hazen 23-28	Operator PDC Energy Inc.	API 05123228910000	Well Number 105.005069	Last Mod By RABeam
District Evans	Field Name Wattenberg	County Weld	State CO	
Well Type Development	Surface Legal Location NESW 28 7N 65W	Spud Date 6/29/2005	Original KB Elevation (ft) 4,830.00	Ground Elevation (ft) 4,820.00
				KB-Ground Distance (ft) 10.00

Daily Operation: 12/21/2017 06:00 - 12/21/2017 19:00

AFE Number	Job Category Abandon	Objective ABANDON WELL	Start Date 12/21/2017	End Date 12/22/2017	Primary Job Type Abandon Well	Secondary Job Type
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Rigs

Contractor Ranger Energy Services	Rig Number 003
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Daily Operations

Report Start Date 12/21/2017	Report End Date 12/21/2017	Daily Field Est Total (Cost) 19,062.51	Cum Field Est To Date (Cost) 19,062.51
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Status at Reporting Time

Operations Summary

MIRU RANGER RIG #3

IWP TBG- 400 PSI, CSG- 700 PSI, SURFACE CSG- 0 PSI. HELD SAFETY MEETING AND FUNCTION TESTED BOPS. OPENED WELL TO FLAT TANK. R/U RIG PUMP, LOADED TBG AND BACKSIDE, ESTABLISHED CIRCULATION AND ROLLED HOLE CLEAN. N/D WELL HEAD TREE AND N/U BOPS. TALLY OUT TO DERRICK 22 JTS TBG AND POOH L/D ON FLOAT 201 JTS TBG AND (1) 8' PUP JOINT. TOTAL TBG IN THE HOLE WAS 223 JTS 2 3/8" 4.70# J-55 8RD TBG AND (1) 8' PUP JOINT. R/U RANGER WIRELINE SERVICES. P/U RIH W/ 3.625" GUAGE RING DOWN TO 7200' KB. POOH AND L/D GUAGE RING. P/U RIH AND SET STS 4 1/2" 10K CIBP @ 7180' KB (50' ABOVE TOP CODELL PERFS). DUMP BAILED 2 SACKS OF CEMENT ON TOP OF CIBP. POOH AND L/D DUMP BAILER. P/U RIH AND SET STS 4 1/2" 10K CIBP #2 @ 6850' (61' ABOVE TOP OF NIO FORMATION). DUMP BAILED 2 SACKS OF CEMENT ON TOP OF CIBP. POOH L/D BAILER. R/U RIG PUMP, LOADED CSG W/ FRESH W/ BIO. CLOSED BLIND RAMS AND PRESSURE TESTED CSG TO 1000 PSI. HELD FOR 15 MIN. GOOD TEST. RELEASED PRESSURE. P/U RIH W/ LOGGING TOOLS. RAN CBL FROM 800' TO SURFACE TO VERIFY CSG WAS FREE TO CUT AT TARGET DEPTH. L/D LOGGING TOOLS. P/U AND RIH W/ JET CUTTER. CUT CSG IN THE SLIPS AT 650' KB. R/D WIRELINE. CHANGED OVER EQUIPMENT TO 4 1/2". N/D BOPS AND WELL HEAD. UNLANDED CSG. N/U SURFACE SPOOL AND BOPS. LEFT HANG FOR THE NIGHT. SWI, SDFD, CREW TO THE YARD.

Operations Next Report Period

PUMP SURFACE PLUG, CUT AND CAP WELL, RDMO.

Weather	Temperature (°F)	Hole Condition	Road Condition
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Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code	Code Des	Com
06:00	07:00	1.00	1.00	TRAV	Travel - To Location	
07:00	08:00	1.00	2.00	RMOV	Rig Move	
08:00	09:00	1.00	3.00	SRIG	Rig Up/Down	
09:00	10:00	1.00	4.00	CIRC	Circulating	
10:00	10:30	0.50	4.50	BOPI	Install BOP's	
10:30	13:30	3.00	7.50	RTRIP	Tripping	
13:30	15:30	2.00	9.50	EWLO	Other	SET CIBPS ABOVE FORMATION TOPS.
15:30	16:00	0.50	10.00	PTST	Pressure Test	GOOD CSG TEST TO 1000 PSI
16:00	17:00	1.00	11.00	EWLL	Logging	LOGGED FROM 800' TO SURFACE AND CUT CSG @ 650'
17:00	18:00	1.00	12.00	TRAV	Travel - From Location	



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				KB-Ground Distance (ft) 10.00

Daily Operation: 12/22/2017 06:00 - 12/22/2017 18:00

AFE Number	Job Category Abandon	Objective ABANDON WELL	Start Date 12/21/2017	End Date 12/22/2017	Primary Job Type Abandon Well	Secondary Job Type
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Rigs

Contractor Ranger Energy Services	Rig Number 003
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Daily Operations

Report Start Date 12/22/2017	Report End Date 12/22/2017	Daily Field Est Total (Cost) 17,103.62	Cum Field Est To Date (Cost) 36,166.13
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Status at Reporting Time

Operations Summary

CREW TO LOCATION

WELL WAS DEAD THIS AM, OPENED WELL TO FLAT TANK. POOH L/D ON FLOAT 16 JTS 4 1/2" 10.5# CSG. CHANGED OVER TO 2 3/8" EQUIPMENT. P/U MULE SHOE AND TIH OUT OF DERRICK 22 JTS TBG TO PUT EOT @ 735' (85' INSIDE CSG STUB). R/U RIG PUMP, LOADED TBG AND BACKSIDE, ESTABLISHED CIRCULATION AND ROLLED HOLE UNTIL CEMENTERS ARRIVED ON LOCATION. SHUT DOWN PUMP, WELL WAS STATIC, NO FLOW OR PRESSURE. R/U O-TEX CEMENT SERVICES. HELD SAFETY MEETING AND PRESSURE TESTED LINES TO 2500 PSI. PUMPED 5 BBLS FRESH WATER AHEAD TO ESTABLISH RATE. MIXED UP AND PUMPED 264 SACKS (54 BBLS) 15.8 PPG G NEAT CEMENT FROM 735' TO SURFACE. GOOD CIRCULATION THROUGHOUT ENTIRE JOB @ 2 BBLS/ MIN. RETURNED 2 BBLS CEMENT TO TANK. R/D CEMENTERS. POOH L/D ON FLOAT 22 JTS TBG AND MULE SHOE. TOPPED OFF WELL WITH 5 SACKS (1 BBL). TOTAL CEMENT PUMED WAS 269 SACKS (55 BBLS). R/D CEMENTERS TO WASH UP. N/D BOPS AND RIGGED DOWN. DUG UP WELL. CUT AND CAPPED WELL 6' BELOW GROUND LEVEL. WELDED ON MARKER PLATE. BURIED WELL AND TURNED OVER TO CONSTRUCTION DEPT TO ABANDON FLOWLINE.

THIS IS THE FINAL REPORT.

NOTE THERE WAS 16 JOINTS 4 1/2" 10.5# CSG AND 223 JTS 2 3/8" 4.70# J-55 8 RD TBG SOLD TO KARST.
THERE WAS ALSO (1) 8' PUP JOINT TBG FMTD FROM WELL TO PDC INVENTORY.

Operations Next Report Period

RDMO

Weather	Temperature (°F)	Hole Condition	Road Condition
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Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code	Code Des	Com
06:00	07:00	1.00	1.00	TRAV	Travel - To Location	
07:00	09:30	2.50	3.50	RTRIP	Tripping	
09:30	11:30	2.00	5.50	CIRC	Circulating	
11:30	13:30	2.00	7.50	CEMT	Cement Squeeze	PUMPED SURFACE PLUG FROM 735' TO SURFACE
13:30	14:00	0.50	8.00	RTRIP	Tripping	
14:00	14:30	0.50	8.50	BOPR	Remove BOP's	
14:30	15:30	1.00	9.50	SRIG	Rig Up/Down	
15:30	17:00	1.50	11.00	ROTH	Other Rig Work	CUT AND CAP WELL
17:00	18:00	1.00	12.00	TRAV	Travel - From Location	



Daily Work Ticket

Report #

Customer Name PDC Energy		Customer AFE #		Date: 12/21/2017
Mailing Address	City	State CO	Zip	County WELD
Field	Lease	Well HAZEN 23-28		Order #
Work Description	Workover <input type="checkbox"/>	Rod <input type="checkbox"/>	Rod & Tubing <input type="checkbox"/>	Re-entry <input type="checkbox"/>
	Swabbing <input type="checkbox"/>	Tubing <input type="checkbox"/>	Completion <input type="checkbox"/>	P & A <input checked="" type="checkbox"/>

Description	Qty.	Rate Hr/Day/Ea	Total	Workover Equipment	Qty.	Rate Hr/Day/Ea	Total
Riq & Crew	12.00	@ \$275.00	\$3,300.00	BOP	1.00	@ \$300.00	\$300.00
Extra Labor	13.00	@ \$48.00	\$624.00	Pump	1.00	@ \$575.00	\$575.00
Riq Fuel	@			Tank	1.00	@ \$175.00	\$175.00
Pump Fuel	@			Base Beam	1.00	@ \$40.00	\$40.00
Cementing Services	@			Pipe Handler	@		
Extra Cement - Cementing Services	@			Loader	@		
P & A Bidded Cost	@			Pipe Racks	@		
				Power Swivel	@		
				JU/Washington H	@		
				Rod/TBG Tongs	@		
				Adapter Flange	1.00	@ \$35.00	\$35.00
				Catwalk	@		
ReCharge Items	Qty.	Rate Hr/Day/Ea	Total	Swabbing Equipment	Qty.	Rate Hr/Day/Ea	Total
Crew Travel	1.00	@ \$210.00	\$210.00	Swab Cups - Size	@		
Tool Pusher	@			OSR	@		
Per Diem	@			Swabbing Acid	@		
Stripper Rubbers	@			Fishing Tools	@		
Pipe Wipers	1.00	@ \$44.00	\$44.00	Extra Tank	@		
Tong Dies	@			Permits	@		
Slip Dies	@						
Safety Valve	@						
Fishing Tools-Recharge	@						
Pipe Dope	@						
Handling Equipment	@						
Description	Qty	Rate	Total	Discount: \$265.15 (5.00%)			
Miscellaneous	@			TOTAL BILLABLE AMOUNT \$5,037.85			
Description of Work Start Time 6:00 AM Stop Time 7:00 PM							

6:00 AM TO 6:30 AM CREW TRAVEL TO LOCATION.
JSA SAFETY MEETING MOVE THE EQUIPMENT TO NEXT LOCATION AND WAIT FOR CATERPILLA. FOR PULL RIG WAS IS STACK AND MOVE RIG TO NEXT LOCATION SPOT IN ALL EQUIPMENT AND RIG UP RIG UP PUMP AND TANK CHECK PRESSURE 400/700 PSI OPEN TO TANK LOAD WELL BREAK CIRCULATION AND ROLL THE HOLE CLEAN NIPPLE UP BOP AND PULL TALLY 22 JTS TO DERRECK AND LAYDOWN 201 JTS AND 8' SUB WAS LANDED WITH 223 JTS AND 8' SUB TOTAL RIG UP RANGER WIRE LINE AND RUN GAUGE RING TO 7200' AND RUN 2 CIBP PLUGS 1 SET AT @= 7180' WITH 2 SXS CEMENT ON TOP AND 2ND PLUG AT 6861' WITH 2 SXS CEMENT ON TOP LOAD WELL AND PRESSURE TEST AT 1000 PSI TESTING GOOD MAKE LOG OR CBL AT 800' AND CUT AT 650' RIG DOWN WIRE LINE CLOSE BOP LOCK AND SHUT DOWN. 6:30 PM TO 7:00 PM CREW TRAVEL TO TOWN.

Payroll Section						
Employee	Rev Hours	Travel Hours	Non Rev Hours	Total		
Tool Pusher	Quezada, Julian	0.00	0.00	0.00	0.00	0.00
Operator	Terrazas, Hector	12.00	1.00	0.00	13.00	
Derrick	Batista Macias, David	12.00	1.00	0.00	13.00	
FloorHand	Valenzuela, Damian	12.00	1.00	0.00	13.00	
FloorHand	Quezada, Omar	12.00	1.00	0.00	13.00	

No Unreported Incidents Per My
Signature

Ranger Tool Pusher

Customer/Agent



445047

[illegible]

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.



SERVICE ORDER CONTRACT

Customer: PDC Energy, Inc.

Ticket Number:

FL2835

Lease & Well Number: Hazen 23-28

Date:

12/22/2017

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, he 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 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 CUSTOMERS AGENT.

Customer Authorized Agent:

Job Summary

Ticket Number

TN#

FL2835

Ticket Date

12/22/2017

COUNTY

COMPANY

API Number

Weld

PDC Energy, Inc.

05-123-22891

WELL NAME

RIG

JOB TYPE

Hazen 23-28

Ranger #3

Stub Plug

SURFACE WELL LOCATION

O-TEX Field Supervisor

CUSTOMER REP

NESW 28-7N-65W

Klosterman, Austin

Ryan Beam

EMPLOYEES

Field, Tony

Aden, Abdi

Peterson, Roger

WELL PROFILE

Max Treating Pressure (psi):

1500

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	650	441		
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	441	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	4.5	11.6	P-110	735	650		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2.375	4.7		735	0		

CEMENT DATA

Stage 1:

Type: Plug

From Depth (ft):

735

To Depth (ft):

0

Volume (sacks):

264

Volume (bbls):

54

Cement & Additives:

Density (ppg)

Yield (ft³/sk)

Water Req.

100% Class G

15.8

1.15

5.00

Stage 2:

Type: Top Off

From Depth (ft):

0

To Depth (ft):

0

Volume (sacks):

5

Volume (bbls):

1

Cement & Additives:

Density (ppg)

Yield (ft³/sk)

Water Req.

100% Class G

15.8

1.15

5.00

SUMMARY

Preflushes:

5 bbls of

Fresh Water

bbls of

bbls of

Calculated Displacement (bbl):

Actual Displacement (bbl):

Stage 1

Stage 2

Total Preflush/Spacer Volume (bbl):

5

Plug Bump (Y/N):

N/A

Bump Pressure (psi):

N/A

Total Slurry Volume (bbl):

55

Lost Returns (Y/N):

N

(if Y, when)

Total Fluid Pumped

60

Returns to Surface:

bbls

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

Job went according to program and customer's request. Job went well.

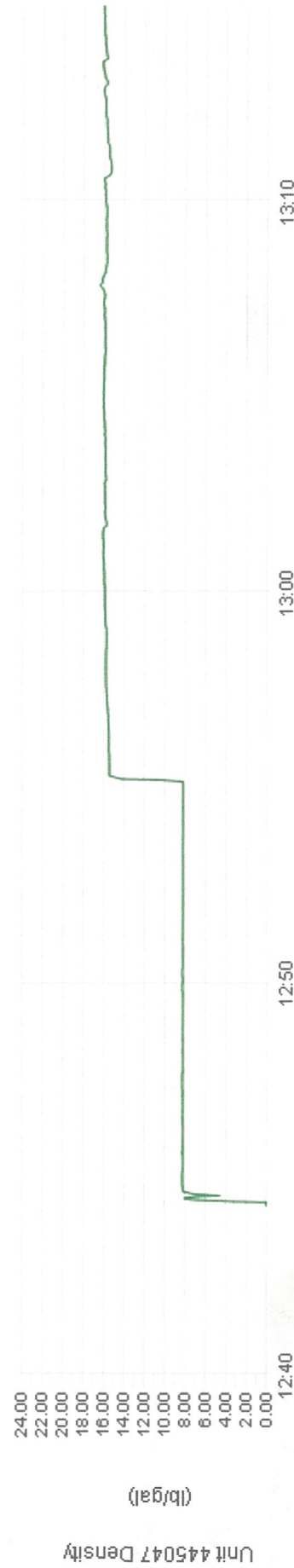
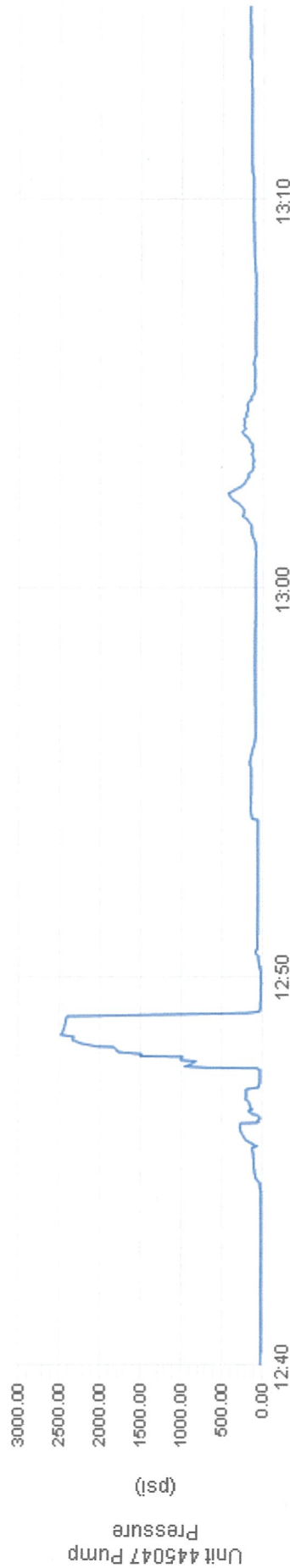
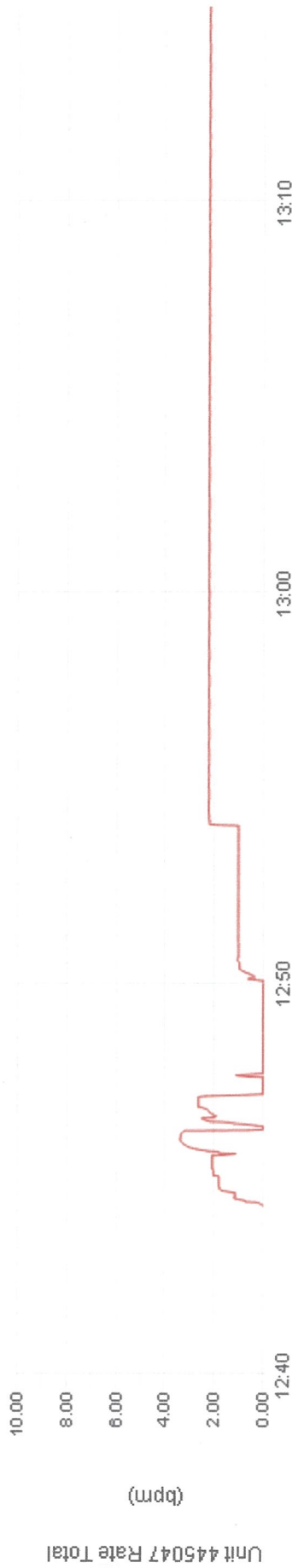
Thank You For Using

O-TEX Cementing

Customer Representative Signature:

[illegible]

Client	PDC	Client Rep	Supervisor
Ticket No. 2835		Ryan Beam	A. Klosterman
Location	Sec28:T7N:R65W	Well Name	Unit No. 445047
Comments	See job log.	Job Type	Service District
			Job Date
		Abandonment Plugs	Brighton, CO
			12/22/2017



RANGER ENERGY SERVICES, LLC

WIRELINE DIVISION

3333 Center Dr
Milliken, Co



Service Date:

Company Name: PDC		Company Address:		Field Ticket Number: 30001803
Well Name: HAZEN 23-28	Field: WATTENBERG	County: WELD	State: COLORADO	Rig Name & Number: RANGER RIG #3
SERVICE NOTES: JCGR to 7200 / Set STS CIBP set 7180' with 2 sx cement/ Set STS CIBP 6850' with 2 sx / CBL 1000' to surface / Jet cut 4.5" casing @ 650'			Date: 12/21/2017	Wireline Unit # 222 Engineer: J. JOHNSON Operator: T. VAN NEST Operator:

RUN	CODE	DESCRIPTIONS	QTY	UNIT PRICE	DISCOUNT	AMOUNT
1	1000-001	Set Up Charge Cased Hole Unit	1	\$ 1,500.00		\$ 450.00
	3000-001	Packoff Operation Charge0#-1000#	1	\$ 900.00		\$ 288.00
	2000-003	API Type 6BX, 5,000 lb. WP 13-3/8" and smaller	1	\$ 205.00		\$ 61.50
2	8000-009	Junk Catcher / Gauge Ring Depth Charge	7200	\$ 0.30		\$ 691.20
	8000-010	Junk Catcher / Gauge Ring Operation Charge	1	\$ 500.00		\$ 110.00
3	8000-001	Bridge Plug Depth Charge	7180	\$ 0.30		\$ 689.28
	8000-002	Bridge Plug Operation Charge	1	\$ 500.00		\$ 135.00
	8000-015	Setting Tool Rental, per tool	1	\$ 1,200.00		\$ 360.00
	7000-006	Dump Bailer Depth Charge	7180	\$ 0.30		\$ 689.28
	7000-007	Dump Bailer Operation Charge	1	\$ 500.00		\$ 110.00
4						
5	8000-001	Bridge Plug Depth Charge	6850	\$ 0.30		\$ 657.60
	8000-002	Bridge Plug Operation Charge	1	\$ 500.00		\$ 135.00
	8000-015	Setting Tool Rental, per tool	1	\$ 1,200.00		\$ 360.00
	7000-006	Dump Bailer Depth Charge	6850	\$ 0.30		\$ 657.60
	7000-007	Dump Bailer Operation Charge	1	\$ 500.00		\$ 110.00
6	4000-017	Cement Bond Log Depth Charge	1000	\$ 0.50		\$ 170.00
	4000-018	Cement Bond Log Operation Charge	1000	\$ 0.50		\$ 170.00
	4000-009	Simultaneous Gamma Ray Log Depth Charge	1000	\$ 0.12		\$ 40.80
7	4000-010	Simultaneous Gamma Ray Log Operation Charge	1000	\$ 0.12		\$ 40.80
	4000-013	Simultaneous CCL Log Depth Charge	1000	\$ 0.10		\$ 34.00
	4000-014	Simultaneous CCL Log Operation Charge	1000	\$ 0.10		\$ 34.00
	5000-011	Jet Cutter Depth Charge	3000	\$ 0.36		\$ 1,080.00
	5000-014	Jet Cutter Operation Charge for Casing	1	\$ 1,700.00		\$ 935.00
8	8000-014	Standard Set Power Charge	1	\$ 250.00		\$ 250.00

SUB TOTAL	\$	8,259.06
Bulk Discount	\$	-
TAX	\$	-
TOTAL	\$	8,259.06

Customer Signature:	Customer Name Printed:	Ranger Energy Services Representative Signature:
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The above estimated charges and data shown are subject to change by Ranger Energy Services, LLC. Payment terms are net 30 Days.

20830

12/22/2017

7270	1
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Q7-C7

\$190.37

Data: