



124110

Rig # R5022

Daily Work Ticket

Report #

Customer Name PDC Energy		Customer AFE #		Date: 5/25/2018
Mailing Address	City	State CO	Zip	County WELD
Field	Lease	Well HAHN 14-27		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	11.00 @	\$275.00	\$3,025.00	BOP	1.00 @	\$300.00	\$300.00
Extra Labor	12.00 @	\$48.00	\$576.00	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	1.00 @	\$150.00	\$150.00
				Rod/TBG Tongs	@		
				Adapter Flange	@		
				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	1.00 @	\$36.00	\$36.00				
Handling Equipment	@						
Description	Qty	Rate	Total	Discount: \$274.55 (5.00%)			
Miscellaneous	1.00 @	\$360.00 (4 1/2 EQUIPMENT)	\$360.00	TOTAL BILLABLE AMOUNT \$5,216.45			

Description of Work Start Time 6:00 AM Stop Time 6:00 PM

6:00 AM TO 6:30 AM CREW TRAVEL TO LOCATION.
JSA SAFETY MEETING CHECK PRESSURE 0/0 OPEN TO TANK NIPPLE DOWN BOP AND PULL CASING PULL SLIPS OUT CHANGE EQUIPMENT AT 4 1/2 NIPPLE UP BOP AND LAYDOWN 30 JTS AND 1 - PICE 15' 4 1/2 CHANGE EQUIPMENT AT 2 3/8 AND TRIP IN WITH 43 JTS AND MULE SHOE AT 1420' LOAD WELL BREAK CIRCULATION AND ROLL THE HOLE CLEAN RIG UP O-TEX CEMENT CREW AND PUMPED FIRST PLUG FROM 1420' TO 1000' 150 SACKS 31 BBLs AND DISPLACE WITH 3.8 BBLs LAYDOWN 25 JTS AND PUMPED WITH 18 JTS AT 600' TO SURFACE 321 SACKS 66.5 BBLs LAYDOWN ALL PIPE IN THE TRAILER WASH ALL EQUIPMENT AND NIPPLE DOWN BOP PUT CAP RACK UP PUMP AND TANK AND RIG DOWN PUT FANCE CLEAN LOCATION AND MOVE RIG TO NEXT LOCATION SPOT IN ALL EQUIPMENT AND SHUT DOWN. 5:30 PM TO 6:00 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	
Operator	Alonzo, Julio	11.00	1.00	0.00	12.00	
Derrick	Barraza, Luis	11.00	1.00	0.00	12.00	
FloorHand	Aguilar, Manuel Q	11.00	1.00	0.00	12.00	
FloorHand	Caudillo Garcia, Aristeo	11.00	1.00	0.00	12.00	

No Unreported Incidents Per My
Signature

Ranger Tool Pusher

Customer/Agent



123908

Rig # R5022

Daily Work Ticket

Report #

Customer Name PDC Energy		Customer AFE #		Date: 5/24/2018
Mailing Address	City	State CO	Zip	County WELD
Field	Lease	Well HAHN 14-27		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
Rig & Crew	11.50 @	\$275.00	\$3,162.50	BOP	1.00 @	\$300.00	\$300.00
Extra Labor	12.50 @	\$48.00	\$600.00	Pump	1.00 @	\$575.00	\$575.00
Rig 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	1.00 @	\$150.00	\$150.00
				Rod/TBG Tongs	@		
				Adapter Flange	@		
				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	1.00 @	\$36.00	\$36.00				
Handling Equipment	@						
Description	Qty	Rate	Total	Discount: \$264.63 (5.00%)			
Miscellaneous	@			TOTAL BILLABLE AMOUNT \$5,027.88			

Description of Work Start Time 6:00 AM Stop Time 6:30 PM

6:00 AM TO 6:30 AM CREW TRAVEL TO LOCATION.
JSA SAFETY MEETING CHECK PRESSURE 0/0 OPEN TO TANK RIG UP HIDRO TESTER AND TRIP IN WITH PACKER WITH 144 JTS ALL PIPE GOOD RIG DOWN HIDRO TESTER SET PACKER LOAD THE HOLE BREAK CIRCULATION AND ROLL THE HOLE CLEAN RELACE PACKER AND LAYDOWN 2 JTS AND PULL 142 JTS TO DERRECK RIG UP WIRE LINE RUN RETAINER AND SET AT 4745' RIG DOWN WIRE LINE AND TRIP IN WITH STINGER WITH 143 JTS AND 2-10' AND 1 -8' SUB STING IN BREAK CIRCULATION RIG UP O-TEX CEMENT CREW AND PUMPED 105 SACKS 37.2 BBLS AND DISPLACE WITH 16.5 BBLS PULL 42 JTS TO DERRECK AND LAIDOWN 101 JTS IN THE TRAILER RIG UP WIRE LINE MAKE LOG OR CBL TO 1500' AND CUT CASING AT 1300' RIG DOWN WIRE LINE CLOSE BOP LOCK AND SHUT DOWN. 6:00 PM TO 6:30 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
Operator	Alonzo, Julio	11.50	1.00	0.00	12.50
Derrick	Barraza, Luis	11.50	1.00	0.00	12.50
FloorHand	Aguilar, Manuel Q	11.50	1.00	0.00	12.50
FloorHand	Caudillo Garcia, Aristeo	11.50	1.00	0.00	12.50

No Unreported Incidents Per My
Signature

Ranger Tool Pusher

Customer/Agent



123724

Rig # R5022

Daily Work Ticket

Report #

Customer Name PDC Energy		Customer AFE #		Date: 5/23/2018
Mailing Address	City	State CO	Zip	County WELD
Field	Lease	Well HAHN 14-27		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
Rig & Crew	9.50 @	\$275.00	\$2,612.50	BOP	1.00 @	\$300.00	\$300.00
Extra Labor	10.50 @	\$48.00	\$504.00	Pump	1.00 @	\$575.00	\$575.00
Rig 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	@		
				Catwalk	@		

ReCharge Items	Qty.	Rate Hr/Day/Ea	Total
Crew Travel	1.00 @	\$210.00	\$210.00
Tool Pusher	@		
Per Diem	@		
Stripper Rubbers	@		
Pipe Wipers	1.00 @	\$44.00	\$44.00
Tong Dies	@		
Slip Dies	@		
Safety Valve	@		
Fishing Tools-Recharge	@		
Pipe Dope	@		
Handling Equipment	@		

Description	Qty	Rate	Total
Miscellaneous	1.00 @ \$250.00 (BOP BLOCK RUBBER 2 3/8)		\$250.00
Miscellaneous	1.00 @ \$200.00 (TOP SEAL)		\$200.00

Swabbing Equipment	Qty.	Rate Hr/Day/Ea	Total
Swab Cups - Size	@		
OSR	@		
Swabbing Acid	@		
Fishing Tools	@		
Extra Tank	@		
Permits	@		

Discount: \$245.53 (5.00%)

TOTAL BILLABLE AMOUNT \$4,664.98

Description of Work Start Time 6:00 AM Stop Time 6:30 PM

6:00 AM TO 8:00 AM SAFETY MEETING.
8:00 AM TO 8:30 AM CREW TRAVEL TO LOCATION JSA SAFETY MEETING CHECK PRESSURE 550/650 PSI OPEN TO TANK LOAD WELL ROLL THE HOLE CLEAN NIPPLE UP BOP AND TRIP TALLY OUT WITH 150 JTS TO DERRECK AND LAYDOWN 63 JTS IN THE TRAILER WAS LANDED WITH 213 JTS TOTAL RIG UP RANGER WIRE LINE RUN GAUGE RING AND RUN 2 CIBP PLUS 1- SET AT 6986' WITH 2 SXS CEMENT ON TOP 2 ND SET AT 6630' WITH 2 SXS CEMENT ON TOP LOAD WELL AND PRESSURE TEST AT 1000 PSI TESTING GOOD AND SHOOT LOWER HOLES AT 5110' AND UPPER HOLES AT 4730' RIG DOWN WIRE LINE CLOSE BOP LOCK AND SHUT DOWN. 6:00 PM TO 6:30 PM CREW TRAVEL TO TOWN. 8:00 AM TO 8:00 AM IS NOT REV TIME FOR SAFETY MEETING. }

Payroll Section					
Employee	Rev Hours	Travel Hours	Non Rev Hours	Total	
Tool Pusher	Quezada, Julian	0.00	0.00	0.00	0.00
Operator	Alonzo, Julio	9.50	1.00	2.00	12.50
Derrick	Barraza, Luis	9.50	1.00	2.00	12.50
FloorHand	Aguilar, Manuel Q	9.50	1.00	2.00	12.50
FloorHand	Caudillo Garcia, Aristeo	9.50	1.00	2.00	12.50

No Unreported Incidents Per My
Signature

Ranger Tool Pusher

Customer/Agent

RANGER ENERGY SERVICES, LLC

WIRELINE DIVISION

3333 Center Dr
Milliken, Co



Service Date:

Company Name: PDC		Company Address:		Field Ticket Number: 70001441
Well Name: HAHN 14-27	Field: WATTENBERG	County: WELD	State: COLORADO	Rig Name & Number: RANGER# 22
SERVICE NOTES: SET STS CEMENT RETAINER @ 4745'			Date: 5/24/2018	Wireline Unit # 233 Engineer: J. Michael Operator: J. Johnson Operator: T. Van Nest

RUN	CODE	DESCRIPTIONS	QTY	UNIT PRICE	DISCOUNT	AMOUNT
1	1000-001	Set Up Charge Cased Hole Unit	1	\$1,500.00		\$1,500.00
	3000-001	Packoff Operation Charge0#-1000#	1			
	2000-003	API Type 6BX, 5,000 lb. WP 13-3/8" and smaller	1			
1	8000-007	Cement Retainer Depth Charge	4745			
	8000-008	Cement Retainer Operation Charge	1			
	8000-015	Setting Tool Rental, per tool	1			
1	8000-014	Standard Set Power Charge	1			

Customer Signature:	Customer Name Printed: RYAN BEAM	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.

RANGER ENERGY SERVICES, LLC

WIRELINE DIVISION

3333 Center Dr
Milliken, Co



Service Date:

Company Name: PDC		Company Address:		Field Ticket Number: 30001886
Well Name: HAHN 14-27	Field: WATTENBERG	County: WELD	State: COLORADO	Rig Name & Number: Ranger Rig #22
SERVICE NOTES: CBL 2000' to surface/ Jet cut 4.5" casing @ 1300'			Date: 5/24/2018	Wireline Unit # 222 Engineer: J. JOHNSON Operator: J. MICHAEL Operator: T. VAN NEST

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			
2						
	4000-017	Cement Bond Log Depth Charge	2000			
	4000-018	Cement Bond Log Operation Charge	2000			
	4000-009	Simultaneous Gamma Ray Log Depth Charge	2000			
	4000-010	Simultaneous Gamma Ray Log Operation Charge	2000			
	4000-013	Simultaneous CCL Log Depth Charge	2000			
	4000-014	Simultaneous CCL Log Operation Charge	2000			
	5000-011	Jet Cutter Depth Charge	1400			
	5000-014	Jet Cutter Operation Charge for Casing	1			

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.

RANGER ENERGY SERVICES, LLC

WIRELINE DIVISION

3333 Center Dr
Milliken, Co



Service Date:

Company Name: PDC		Company Address:		Field Ticket Number: 70001440
Well Name: HAHN 14-27	Field: WATTENBERG	County: WELD	State: COLORADO	Rig Name & Number: Ranger Rig #22
SERVICE NOTES: JCGR to 7020' / Set STS CIBP at 6986' with 2 sx cement / Set STS CIBP at 6630' with 2 sx cement / Perf 1ft 4spf @ 5110' / Perf 6' 2spf @ 4730'			Date: 5/23/2018	Wireline Unit # 222 Engineer: J. Michael Operator: J. Johnson Operator: T. Van Nest

RUN	CODE	DESCRIPTIONS	QTY	UNIT PRICE	DISCOUNT	AMOUNT
1	1000-001	Set Up Charge Cased Hole Unit	1			
	3000-001	Packoff Operation Charge0#-1000#	1			
	2000-003	API Type 6BX, 5,000 lb. WP 13-3/8" and smaller	1			
2	8000-009	Junk Catcher / Gauge Ring Depth Charge	7020			
	8000-010	Junk Catcher / Gauge Ring Operation Charge	1			
3	8000-001	Bridge Plug Depth Charge	6986			
	8000-002	Bridge Plug Operation Charge	1			
4	8000-015	Setting Tool Rental, per tool	1			
	7000-006	Dump Bailer Depth Charge	6986			
	7000-007	Dump Bailer Operation Charge	1			
5	8000-001	Bridge Plug Depth Charge	6630			
	8000-002	Bridge Plug Operation Charge	1			
6	8000-015	Setting Tool Rental, per tool	1			
	7000-006	Dump Bailer Depth Charge	6630			
	7000-007	Dump Bailer Operation Charge	1			
	6200-000	Hollow Carrier Depth Charge (Expendable)	5110			
	6400-000	Scalloped Gun Carriers, per shot	40			
	6200-000	Hollow Carrier Depth Charge (Expendable)	4730			
	6400-000	Scalloped Gun Carriers, per shot	40			
4	8000-014	Standard Set Power Charge	2			

Customer Signature:	Customer Name Printed: RYAN BEAM	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.



Job Summary

Ticket Number		Ticket Date	
TN#	FL3838	5/25/2018	

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-20348
WELL NAME	RIG	JOB TYPE
Hahn 14-27	Ranger #22	Stub Plug
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SESW 27 5N67W	Klosterman, Austin	Ryan Beam

EMPLOYEES		
Clark, John		
Hagemeyer, Tony		
	Birge, Carl	

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)
	10	1300	1000		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	14	600	375		

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	375	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	P-110	1420	1300		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2.375	4.7		1420	0		

CEMENT DATA

Stage 1:	From Depth (ft):	1420	To Depth (ft):	1000
Type: Stub Plug	Volume (sacks):	150	Volume (bbls):	31
Cement & Additives:				
100% Class G+2% CaCl ₂				
	Density (ppg)	Yield (ft ³ /sk)	Water Req.	
	15.8	1.16	5.00	

Stage 2:	From Depth (ft):	600	To Depth (ft):	0
Type: Top Plug Lead	Volume (sacks):	222	Volume (bbls):	46
Cement & Additives:				
100% Class G+2% CaCl ₂				
	Density (ppg)	Yield (ft ³ /sk)	Water Req.	
	15.8	1.16	5.00	

Stage 3:	From Depth (ft):	600	To Depth (ft):	0
Type: Top Plug Tail	Volume (sacks):	99	Volume (bbls):	20.5
Cement & Additives:				
100% Class G				
	Density (ppg)	Yield (ft ³ /sk)	Water Req.	
	15.8	1.15	4.98	

SUMMARY

Preflushes:	5 bbls of	Fresh Water	Calculated Displacement (bbl):	3.8	Stage 1	Stage 2
	10 bbls of	Fresh Water	Actual Displacement (bbl):	3.8		
	bbls of					
Total Preflush/Spacer Volume (bbl):	15		Plug Bump (Y/N):	N/A	Bump Pressure (psi):	N/A
Total Slurry Volume (bbl):	97.5		Lost Returns (Y/N):	N (if Y, when)		
Total Fluid Pumped	116.3					
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:



SERVICE ORDER CONTRACT

Customer: **PDC Energy, Inc.**

Ticket Number: **FL3838**

Lease & Well Number: **Hahn 14-27**

Date: **5/25/2018**

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: _____

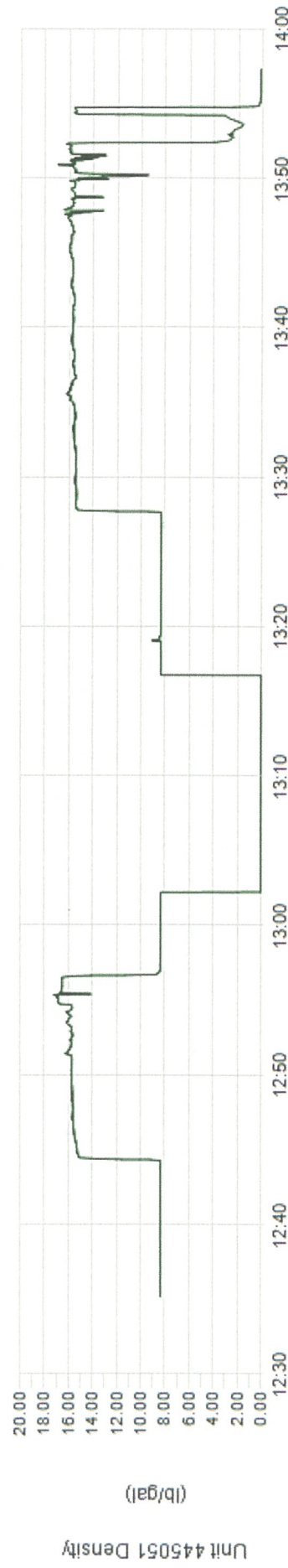
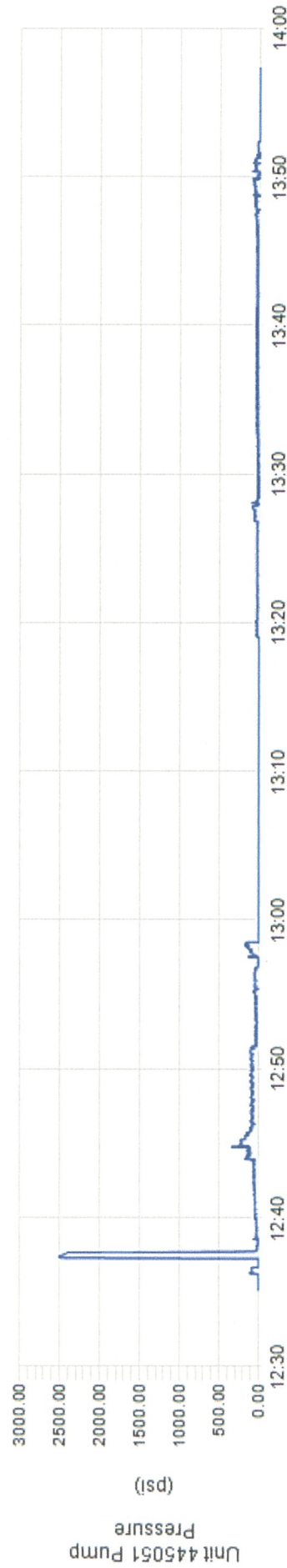
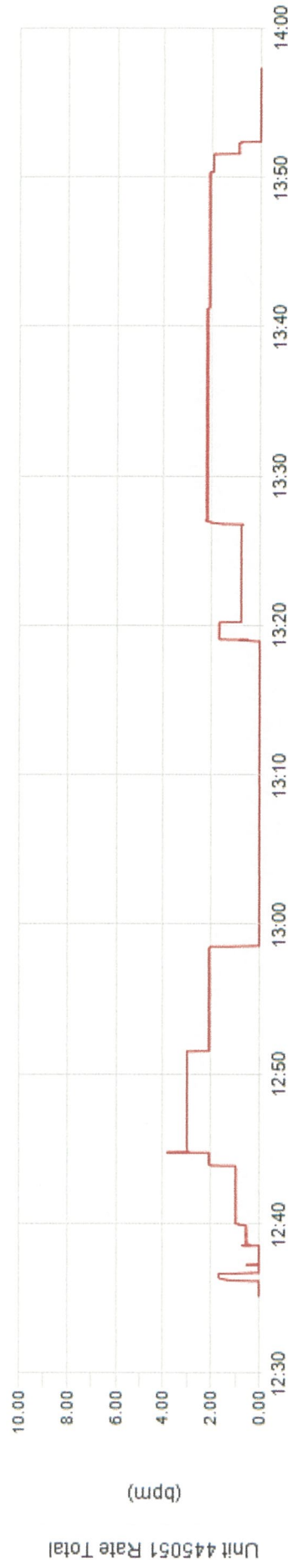
[illegible]



Client PDC
Ticket No. 3838
Location Sec27:T5N:R67W
Comments See job log.

Client Rep Ryan Beam
Well Name Hahn 14-27
Job Type Abandonment Plugs

Supervisor A. Klosterman
Unit No. 445051
Service District Brighton, CO
Job Date 05/25/2018





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

FIELD RECIEPT

TN # FL3837

Service Date:	5/24/2018	Well Name:	Hahn 14-27	Job Type:	Squeeze
Customer:	PDC Energy, Inc.				
Address:	PO Box 26	County:	Weld	Service Supervisor:	Klosterman, Ausitn
City:	Attn: Accounts Payable	State:	Colorado		
St:	Bridgeport	API #	05-123-20348	Pump #1	445070
Customer Rep:	WV 26330	AFE #		Pump #2	
	Ryan Beam				

REF #	Description	unit of measure	quan
CP001	Type III Cement	94SACK	53
CP003	POZ (Fly Ash) (74 lbs/ft3) -	74SACK	53
CP033	CF-41P (Powder Defoamer)	LBS	26
CP021	Sodium Metasilicate	LBS	444
113132	CFL-3	LBS	87
113207	WG-4P	LBS	18
113140	FWC-2	LBS	347
CT006	Pump Charge 5001-6000'	4-HRS	1
JW001	Data Acquisition System	JOB	1
AE014	Environmental Fee*	JOB	1
ML001	Pickup Mileage	UNTMIL	30
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	30
ML003	Bulk Cement Delivery/Return	MILE	138
MX001	Bulk Material Mixing Service Charge	SCF	118
CP009	CF-41 (Foam Preventer)	GAL	5

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 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: **FL3837**

Lease & Well Number: **Hahn 14-27**

Date: **5/24/2018**

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 CUSTOMERS AGENT.

Customer Authorized Agent: _____



Job Summary

Ticket Number	Ticket Date
TN# FL3837	5/24/2018

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-20348
WELL NAME	RIG	JOB TYPE
Hahn 14-27	Ranger #22	Squeeze
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SESW 27 5N67W	Klosterman, Ausitn	Ryan Beam

EMPLOYEES

Field, Tony		
Corral-Flores, Francisco		

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)
	10	5110	4730		
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)
Tubing	2.375	4.7	J-55	4745	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	P-110	5110	0		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

CEMENT DATA

Stage 1:	From Depth (ft):	5110	To Depth (ft):	4730
Type: Squeeze	Volume (sacks):	105	Volume (bbls):	37.2

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
50% Type III+50% Poz F+0.2% WG-4P+0.3% CF-41P+1% CFL-3+4% FWC-2+0.5% SMS	12	1.99	10.95

SUMMARY

Preflushes:	10 bbls of SAPP	Calculated Displacement (bbl):	Stage 1	Stage 2	
	5 bbls of Fresh Water	Actual Displacement (bbl):	16.3		
	bbls of		16.3		
Total Preflush/Spacer Volume (bbl):	15	Plug Bump (Y/N):	n/a	Bump Pressure (psi):	n/a
Total Slurry Volume (bbl):	37.2	Lost Returns (Y/N):	N	(if Y, when)	
Total Fluid Pumped	68.5				
Returns to Surface:					

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

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

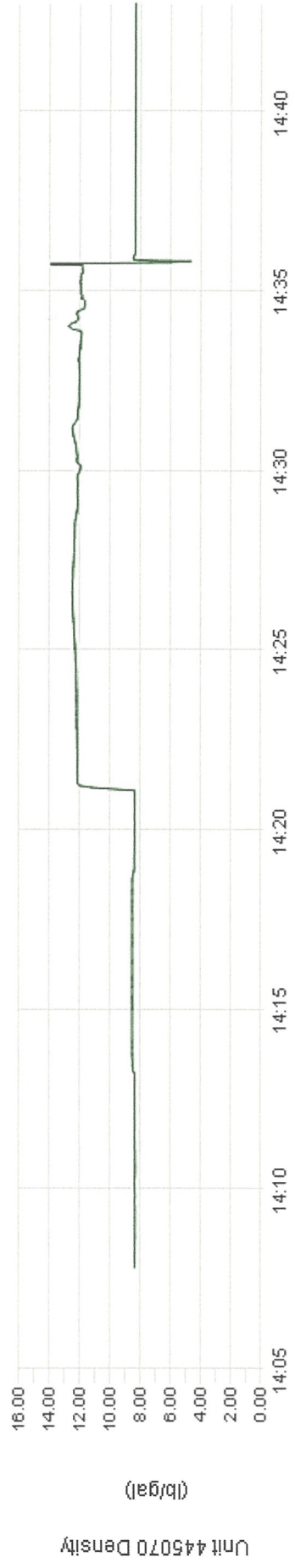
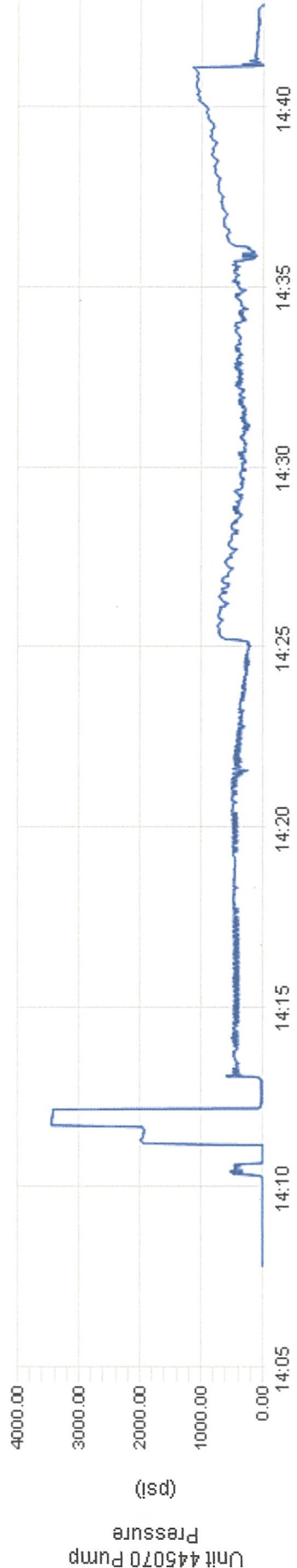
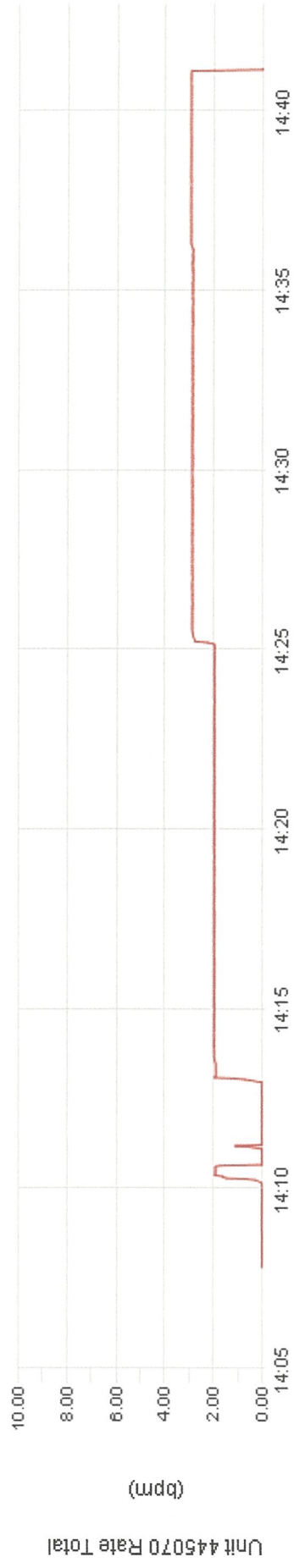
Thank You For Using
O-TEX Cementing

Customer Representative Signature:

[illegible]



Client	PDC	Client Rep	Ryan Beam	Supervisor	A. Klosterman
Ticket No.	3837	Well Name	Hahn 14-27	Unit No.	445070
Location	Sec27:T5N:R67W	Job Type	Abandonment Plugs	Service District	Brighton, CO
Comments	See job log.			Job Date	05/24/2018





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

FIELD RECEIPT

TN # FL3838

Service Date:	5/25/2018	Well Name:	Hahn 14-27	Job Type:	Stub Plug
Customer:	PDC Energy, Inc.				
Address:	PO Box 26	County:	Weld	Service Supervisor:	Klosterman, Austin
City:	Attn: Accounts Payable	State:	Colorado		
St:	Bridgeport	API #	05-123-20348	Pump #1	4450501
Customer Rep:	WV 26330	AFE #		Pump #2	
	Ryan Beam				

REF #	Description	unit of measure	unit price	quan	gross	disc	net
CM006	O-Tex Ultra Premium Cement (94lbs/ft3)	94SACK	\$ 38.20	471			
CP018	Calcium Chloride	LBS	\$ 1.22	589			
CT002	Pump Charge 0-2000'	4-HRS	\$ 3,234.33	1			
JM001	Data Acquisition System	JOB	\$ 1,437.48	1			
AE014	Environmental Fee*	JOB	\$ 228.69	1			
ML001	Pickup Mileage	UNTMIL	\$ 4.26	30			
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	\$ 7.32	30			
ML003	Bulk Cement Delivery/Return	MILE	\$ 2.95	987			
MX001	Bulk Material Mixing Service Charge	SCF	\$ 3.27	705			

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 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.

Date:



Field Ticket #

22033

No 22033

Date

5/24/2018

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:		Hahn	Well #:	14-27
Address:		3801 Carson Ave			County:		CO	Invoice Ref. #:	
City:		Evans		Field:	Job Type:			OCSG #:	
State: CO		Zip: 80620		Legal Description:	Casing Sz & Wt:		4-1/2 11.6#		
Ordered By:		Ryan Beam			Service Man:		MERCED TERRAZAS		
NO.	RENTALS/SALES				QTY	PRICE	DSC	TOTAL	
1	Rental of 4-1/2 Crest II compression packer				1	1,750.00	35%	612.50	
2	Minimum 1st to day rental on compression packer				1				
3	Sale of 4-1/2 wireline set cement retainer set @ 4745				1				
4	Rental of wireline adopter kit and tubing stinger				1				
5	Rental of 7-1/16 5K BOP flange				1				
6	Sale of stinger sub				1				
7	Rental of TIW valve				1				
8									
9									
10									
11									
12									
13									
14									
					Subtotal Taxable Charges				
SERVICE MANS TIME									
Service mans time					1				
service mans time					1				
					Subtotal Non-Taxable Charges				
MILEAGE									
Mileage					35				
Mileage					35				
					Subtotal Non-Taxable Charges				
Terms: Net 30 Days									

Authorized Agent: _____ \$ _____ Date: _____