



ENSIGN WELL SERVICES

020 Weld County Road 46, LaSalle, Colorado 80645
Telephone (970) 284-6006



RIG/UNIT #: 354
TOUR: Day Shift

DAILY WORK RECORD

Ticket No: 4268324-SO1

DATE: 01-Nov-17, 06:00

Page: 1 of 1

COMPANY			
PDC ENERGY, INC		LOCATION: DILLARD 32-20 (CO, Station: Lasalle)	
ATTENTION: ACCOUNTS PAYABLE		PO:	
BRIDGEPORT, West Virginia, USA 26330		AFE:	

CHARGES & EXPENDABLES			
NAME	QTY	UNIT PRICE	EXT. PRICE
Rig Hours	9.00	406.50	3,658.50
Crew Travel	3.00	220.00	660.00
Labor - Floor	12.00	55.00	660.00
Bird Bath Rental	1.00	35.00	35.00
Tubing Wiper Rubber	1.00	48.00	48.00
CHARGES & EXPENDABLES SUB-TOTAL			5,061.50
FIELD ESTIMATE (TAX NOT INCLUDED)			\$ 5,061.50

ROD & TUBING DETAILS			
PULLED	SIZE:	PLAIN:	SCRAPERS:
PONYS:			
RAN	SIZE:	PLAIN:	SCRAPERS:
PONYS:			
NOTES:			
TUBING DETAILS			
PULLED	SIZE:	JOINTS:	TALLY:
RAN	SIZE:	JOINTS:	TALLY:
LANDED AT:		NIPPLE AT:	
NOTES:			
PUMP DETAILS			
SIZE:		TYPE:	SERIAL #:

PRESSURE TESTS						
FUNCTION BOP	TIME TO OPERATE (s)	LOW (psi)	TIME (min)	HIGH (psi)	TIME (min)	TEST DATE & TIME
INITIAL ACCUM. PRESSURE:		FINAL ACCUM. PRESSURE:		RECHARGE TIME:		
DAILY WALK AROUND: Not run		RAM SAVER: NO		EMERGENCY HORN TEST: Not run		
LEL TEST: Not run		CROWN SAVER: Not run		EMERGENCY ENGINE KILLS: Not run		
DETAILED INSPECTION DATE:				SCBA DRILL DATE:		
MAN DOWN DRILL DATE:				RIG RESCUE DRILL DATE:		
BOP DRILL DATE:				BOP DRILL DURATION:		
IADC DETAILED INSPECTION DATE:						
WEATHER: Sunny		WIND: Calm		TEMP: 0 °F		H2S (%): 0.0

DETAILS OF OPERATIONS				
FROM	TO	DURATION (hrs)	ACTIVITY	DETAILS
01-Nov-17, 06:00	01-Nov-17, 18:00	12.00	Rig - Pick Up/Lay Down Tubular	CREW TRAVEL TO LOC .HELD SAFETY METING .FUCTION TEST BOP .CHECKED PRESS . 100/150 0/SURF CNG .BLEED OFF PRESS .CIRCU WELL CLEAN .N/D WELL TREE MASTER VALVE AND 5K WELL HEAD TOP FLANGE .N/U BOP .R/U W/FLOOR TBG EQUIP UNLAND TBG .STAND BACK 22 JTS .L/D 205 JTS S/N N/C AND 10' SUB .R/U WIRE LINE .RUN GAUGE RING .RIH W/1ST CIBP .SET BP AT 7085' .TOP BAIL 2 SKS OF CEMENT .RIH W/2ND CIBP .SET BP AT 6768' .TOP BAIL W/2 SKS OF CEMENT .PRESS TEST 4 1/2 CNG @ 1000 PSI .TEST OK .BLEED OFF PRESS .LOG FROM 800 TO SURF .RIH WITH CNG CUTTER .CUT CNG AT 650' .R/D WIRE LINE .R/D W/FLOOR TBG EQUIP .N/D BOP AND 5K WELL HEAD .UNLAND CNG .N/U SPOOL AND BOP .R/U W/FLOOR .CHANGE TBG EQUIP TO 4 1/2 .SHUT WELL .DRAIN PUMP LINES .CLEAN LOC .CREW TRAVEL HOME .
TOTAL TIME: 12.00 hours				

CREW DETAILS									
ROLE	NAME	START TIME	DURATION (hrs)	TRAVEL TIME (hrs)	PERS. VEH.	TRAVEL DIST (mi)	SUB.	DIST FROM RES (mi)	INJURY FREE
Relief Operator	Oscar Ruiz Jr	01-Nov-17, 06:00	12.00	0.00	No	0.00		0.00	Yes
Service Rig Manager	Omar Munoz	01-Nov-17, 06:00	12.00	0.00	No	0.00		0.00	Yes
Operator	Ever Valverde	01-Nov-17, 06:00	12.00	0.00	No	0.00		0.00	Yes
Floorhand	Jeffrey Garcia	01-Nov-17, 06:00	12.00	0.00	No	0.00		0.00	Yes
Derrickhand	Jose Luna Morales	01-Nov-17, 06:00	12.00	0.00	No	0.00		0.00	Yes

SIGNATURES	
RIG MANAGER/SUPERVISOR'S SIGNATURE: 	The customer agrees that the contractor ("Ensign") will perform the work and supply the materials ("the work") as described within and in accordance with the conditions set out in the IADC contract and in accordance with all exhibits, specifications, schedules and/or parts (if any) attached hereto. OPERATOR'S REP. SIGNATURE: RYAN BEAM 970-405-8585

CASEDHOLE SOLUTIONS											
Rev.121316 A					P. O. NUMBER		SERVICE ORDER F1		PAGE 1 of 1		
* Service charges include a daily per diem of \$30.00/employee and a daily catering charge (when provided by Casehole Solutions) of \$25.00/employee.											
To CASEDHOLE SOLUTIONS, INC										DATE 11/1/197	
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 COMPANY PDC Energy, Inc.											
FURNISHED LEASE Dillard											
LEASE/WELL LEGAL & LOCATION 05-123-23607											
INFORMATION FIELD Wattenberg											
PARISH/COUNTY Weld											
STATE CO											
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, Inc.											
INVOICE MAILING ADDRESS											
CITY											
STATE											
ZIP CODE											
SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE											
Thank you for using Casehole Solutions!!											
Total runs, all pages 7											
THE ESTIMATED CHARGES AND DATA SHOWN ARE SUBJECT TO CORRECTION BY CASEDHOLE SOLUTIONS, INC. ACCOUNTING											
UNIT NUMBER 92-3856											
OPERATION TYPE DAYLIGHT											
WELL TYPE WORKOVER											
ROUND TRIP MILEAGE											
TRIP FIRST											
HOISTING TYPE WORKOVER RIG											
WIRELINE DEPTH											
MAX. WELLHEAD PRESSURE											
PSI											
BOTTOM HOLE PRESSURE:											
PSI											
Desc. No. 1											
PERF. INTERVAL											
PLUG DEPTH											
OPERATION											
ITEM											
QUAN.											
UNIT PRICE											
DISC. PRICE											
AMOUNT											
SERVICE											
FIRST READING											
LAST READING											
FOOTAGE DEL.											
1											
2 7100' No Tag											
3 7085'											
4 7085'											
5 6768'											
6 6768'											
7 CBL 1000'-0'											
8 Cut 650'											
STANDARD PRICING											
TOTAL OF BOOK PRICE											
TOTAL DISCOUNT											
TOTAL DISCOUNT PERCENTAGE											
ESTIMATED TOTAL CHARGE PAGE 1											
THE SERVICE(S) AND/OR EQUIPMENT COVERED BY THIS SERVICE ORDER HAVE BEEN PERFORMED OR RECEIVED AS SET FORTH ABOVE											
SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE											
LOGS RECEIVED AT WELL											
CUST. INITIALS											
SIGNATURE OF CASEDHOLE SOLUTIONS ENGINEER											
Meisner, Jacob											
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.											
Fluid Type											
Fluid Weight											
Fluid Level											
REMARKS											
District doing job: Fort Lupton, CO											
Line of Business: Workover											
Type of Job:											
Class: Vert. Domestic											
District job is in: Fort Lupton, CO											
CASEDHOLE ENGINEER NAMES											
WORK WITNESSED BY NAME											
Meisner, Jacob											
Crew 1											
Crew 2											
Crew 3											
Crew 4											
Crew 5											
Crew 6											
AFE#:											
Engineer: Meisner, Jacob											
MSA#:											

O-Tex

Pumping, LLC

PDC

Prepared For
Chad Sailors

API Number: 05-123-23607

Dillard 32-20

Stub Plug Cement

Located in

Weld County, Colorado

SWNE 20-7N-64W

Prepared by
Paul Novotny

on

Monday, October 30, 2017

Serviced from the Brighton, Colorado facility
For Customer Service Call
720-408-9201



PDC
Dillard 32-20
Stub Plug
10/30/2017

Rig: RIG



Job Data

Job Type	Stub Plug
Round Trip Mileage	100
Previous Casing	8.625" 24# to 543' 4.5" 10.5# to 720'
Hole Size	14" to 650'
MD	720
Directions	CR 53 and CR 80, South 5/10, W 5/10 , North into

Volumes

	Length (ft)	OD (in)	ID (in)	Excess (%)	CF/FT	Vol. (cf)	Vol. (bbl)
Stub Plug	543	8.097	0.000	0%	0.3576	194.2	34.6
Stub Plug	107	14.000	0.000	0%	1.0690	114.4	20.4
Stub Plug	70	4.052	0.000	0%	0.0895	6.3	1.1

Fluid Requirements

Spacer

5 bbls Fresh Water

Stub Plug

100% Class G

Volume (sx)	325
Weight (ppg)	15.80
Yield (cf/sx)	1.15
Water (gps)	5.00
Top of Cement (ft)	0
Excess (%)	0%

PDC
Dillard 32-20
Stub Plug
10/30/2017

Rig: RIG



REF. #	DESCRIPTION	QUANTITY	UNIT PRICE	DISCOUNT	GROSS	NET TOTAL
CM006	O-Tex Ultra Premium Cement (94lbs/ft3)	325				
CT001	Pump Charge 0-1000'	1				
JM001	Data Acquisition System	1				
AE014	Environmental Fee*	1				
ML001	Pickup Mileage	50				
ML002	Pump Truck/Heavy Vehicle Mileage	50				
ML003	Bulk Cement Delivery/Return	764				
MX001	Bulk Material Mixing Service Charge	325				
If Needed Items -Not included						
CC015	Pump Charge Additional Hours	1				
AE012	Bulk Unit Additional Hours	1				
CP031	Sugar	100				
CP009	CF-41 (Foam Preventer)	1				



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

FIELD RECEIPT

TN # FL2538

Service Date:	11/2/2017
Customer:	PDC Energy, Inc.
Address:	PO Box 26
City:	Attn: Accounts Payable
St:	Bridgeport
Customer Rep:	WV 26330
	Ryan Beam

Well Name:	Dillard 32-20
County:	Weld
State:	Colorado
API #	05-123-23607
AFE #	
Job Type:	Stub Plug
Service Supervisor:	Klosterman, Austin
Pump #1	445070
Pump #2	

REF #	Description	unit of measure	unit price	quan
CM006	O-Tex Ultra Premium Cement (94lbs/ft3)	94SACK	\$ 38.20	251
CT001	Pump Charge 0-1000'	4-HRS	\$ 2,090.88	1
JM001	Data Acquisition System	JOB	\$ 1,437.48	1
AE014	Environmental Fee*	JOB	\$ 228.69	1
ML001	Pickup Mileage	UNTMIL	\$ 4.26	50
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	\$ 7.32	50
ML003	Bulk Cement Delivery/Return	MILE	\$ 2.95	764
MX001	Bulk Material Mixing Service Charge	SCF	\$ 3.27	325
CP009	CF-41 (Foam Preventer)	GAL	\$ 86.06	3

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: _____



SERVICE ORDER CONTRACT

Customer: **PDC Energy, Inc.**

Ticket Number: **FL2538**

Lease & Well Number: **Dillard 32-20**

Date: **11/2/2017**

As consideration, The Above Named customer Agrees:

O-TEX Pumping L.L.C. shall not be responsible for and customer shall secure O-Tex pumping against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of O-Tex pumping, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

O-Tex makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, except where due to O-Tex gross negligence or willful misconduct in the preparation or furnishing it.

O-Tex personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to O-Tex gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 30 days following the date on the invoice.

Upon customers default in payment of the customers account by the last day of the month following the month in which the invoice is dated. Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account. Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

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# FL2538	11/2/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-23607
WELL NAME	RIG	JOB TYPE
Dillard 32-20	Ensign 354	Stub Plug
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SWNE 20-7N-64W	Klosterman, Austin	Ryan Beam

EMPLOYEES
Collin, Justin
Coral-Flores, Francisco
Peterson, Roger

WELL PROFILE			
Max Treating Pressure (psi):	1000	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	543		
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	543	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	725	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		725	0		

CEMENT DATA

Stage 1:	From Depth (ft):	725	To Depth (ft):	0
Type: Stub Plug	Volume (sacks):	251	Volume (bbls):	51.5

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 Fresh Water		
bbls of		
bbls of		
Total Preflush/Spacer Volume (bbl):	5	
Total Slurry Volume (bbl):	51.5	
Total Fluid Pumped	56.5	
Returns to Surface:	Cement 2 bbls	

Job Notes (fluids pumped / procedures / tools / etc.):	Job went according to program and customer's request. Job went well.
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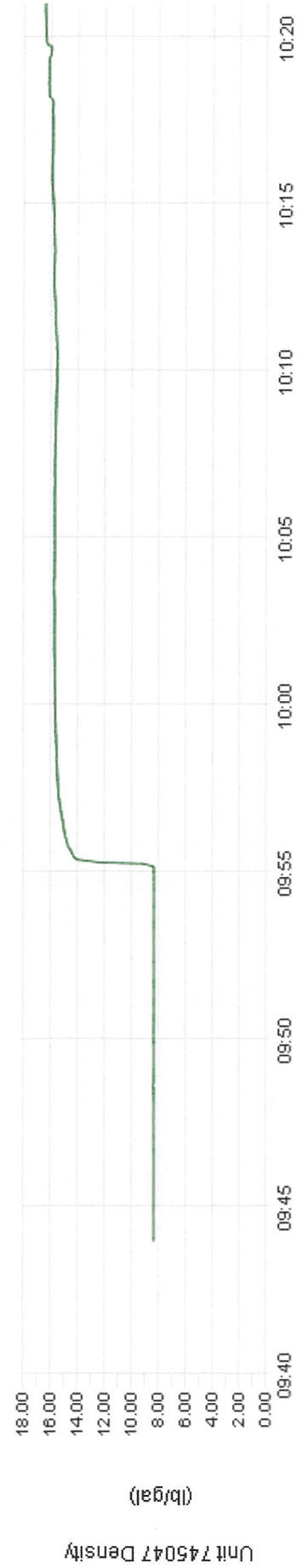
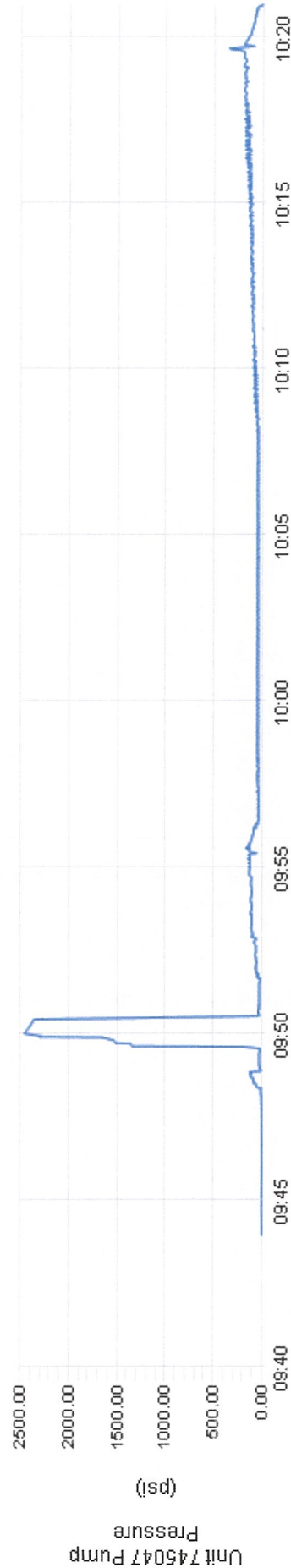
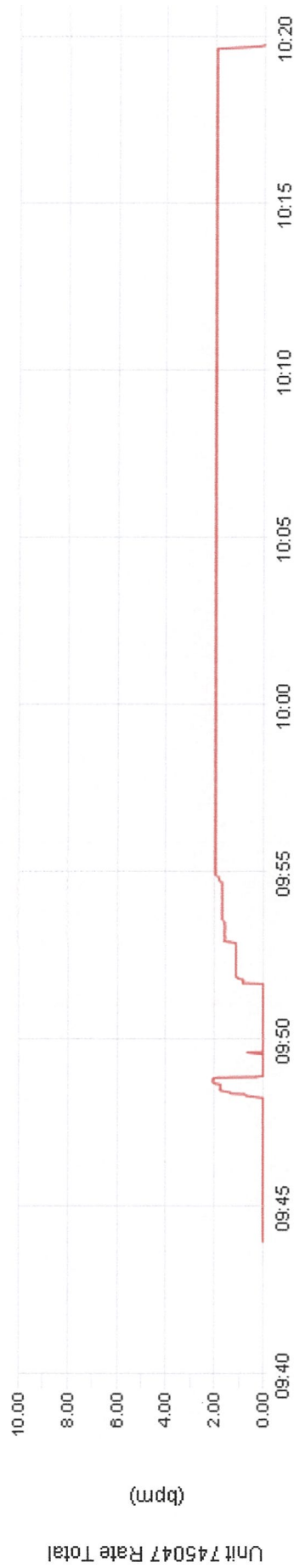
Thank You For Using
O - TEX Pumping

Customer Representative Signature:

Client
Ticket No. 2538
Location Sec20:T7N:R64W
Comments See job log.

Client Rep
Well Name Dillard 32-20
Job Type Abandonment Plugs

Supervisor
Unit No. 745047
Service District Brighton, CO
Job Date 10/02/2017





10/31/2017

10/31/2017

10/31/2017

32-20

Ref. #: 02-20

11.

1133

\$1,037.84

10/3/07

WALTER CORPORATION

Field Ticket #
20396

Date

10/31/2017

№ 20396

Walter Corporation, LLC 33250 CR 53 Gill, CO 80624

Office: 970.301.2028

Fax: 970.284.6682

Bill To Customer:		P D C		PO#	Lease Name:		Dillard	Well #	32-20
Address:		3801 Carson Ave			County:		Weld	St:	CO
City:		Evans		Field:	Job Type:		OCSG #:		
State:		CO	Zip:	80620	Casing Sz & Wt:				
Ordered By:		Chad Sailors		Service Man					
NO.	RENTALS/SALES	QTY	PRICE	DSC	TOTAL				
1	Sale of 4-1/2 D & H CIBP	2	700.00		\$1,400.00				
2					0.00				
3					0.00				
4					0.00				
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					\$1,400.00				
SERVICE MANS TIME									
					\$0.00				
					0.00				
					0.00				
					0.00				
					0.00				
					0.00				
Subtotal Non-Taxable Charges					\$0.00				
MILEAGE									
					\$0.00				
					0.00				
					0.00				
					0.00				
Subtotal Non-Taxable Charges					\$0.00				
Subtotal Non-Taxable Charges					\$0.00				
Terms: Net 30 Days					Total Service & Material:	\$1,400.00			
					Tax:	\$40.60			
TOTAL CHARGES:					\$1,440.60				

Authorized Agent:

Date:

CEMENTING JOB LOG

[illegible]