



CASEDHOLE SOLUTIONS

Rev.121316 A	CUSTOMER P. O. NUMBER	SERVICE ORDER	PAGE
* Service charges include a daily per diem of \$30.00/employee and a daily catering charge (when provided by Casedhole Solutions) of \$25.00/employee.		F1011	1 of 1
TO CASEDHOLE SOLUTIONS, INC.		DATE	
You are hereby requested to perform or attempt to perform the following service(s) or furnish the following equipment:		01/10/2017	

SERVICE(S) AND/OR EQUIPMENT REQUESTED

CUSTOMER FURNISHED LEASE/WELL INFORMATION	COMPANY	PDC Energy, Inc.		
	LEASE	HOWARD	WELL NUMBER	14-18
	LEGAL & LOCATION	0		
	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: \_\_\_\_\_

**X** Thank you for using Casedhole Solutions!! Total runs, all pages: 0

THE ESTIMATED CHARGES AND DATA SHOWN ARE SUBJECT TO CORRECTION BY CASEDHOLE SOLUTIONS, INC. ACCOUNTING

UNIT NUMBER: 92-3856 OPERATION TYPE: 24-HOUR WELL TYPE: WORKOVER ROUND TRIP MILEAGE: \_\_\_\_\_

TRIP: \_\_\_\_\_ HOISTING TYPE: WORKOVER RIG

WIRELINE DEPTH: \_\_\_\_\_ MAX. WELLHEAD PRESSURE: \_\_\_\_\_ PSI BOTTOM HOLE PRESSURE: \_\_\_\_\_ PSI

Desc. NO.	PERF. INTERVAL	PLUG DEPTH	OPERATION	ITEM	QUAN.	UNIT PRICE	DISC.	DISC. PRICE	AMOUNT	SERVICE	FIRST READING	LAST READING	FOOTAGE DEL.
1		6847'	P - Plug or Retainer - setting (3rd party)	each	1					Plug			
		6847'	P - Dump Bailer	per run	1					Perf			

Runs for this job made in January were 0	STANDARD PRICING			
	TOTAL OF BOOK PRICE			
	TOTAL DISCOUNT			
	TOTAL DISCOUNT PERCENTAGE			

ESTIMATED TOTAL CHARGE PAGE 1

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE: **X** Bud Holman (LOGS RECEIVED AT WELL) CUST. INITIALS: \_\_\_\_\_ SIGNATURE OF CASEDHOLE SOLUTIONS ENGINEER: Meisner, Jacob

CASING/TUBING RECORD		PERM. DEPTH DATUM	GROUND LEVEL	ELEV.	ELEV K.B.
SIZE	WEIGHT	TYPE	FROM	TO	
0					
0					
0					
0					
0					

CASEDHOLE ENGINEER NAMES	WORK WITNESSED BY NAME	REMARKS
Meisner, Jacob	Bud Holman	District doing job: Fort Lupton, CO
Crew 1		Line of Business: Workover
Crew 2		Type of Job: _____
Crew 3		Class: Vert. Domestic
Crew 4		District job is in: Fort Lupton, CO
Crew 5		AFE#: _____
Crew 6		Engineer: Meisner, Jacob
		MSA#: _____



# Daily Completion Operations

Date: 1/10/2017  
Report #: 2.0

Well Name: Howard 14-18

Well Name Howard 14-18	Operator PDC Energy Inc.	API 05123202400000	Well Number 105.002173	Last Mod By BHolman	
District Evans	Field Name Wattenberg	County Weld	State CO		
Well Type Development	Surface Legal Location SWSW 18 5N 64W	Spud Date 9/21/2002	Original KB Elevation (ft) 4,635.00	Ground Elevation (ft) 4,625.00	KB-Ground Distance (ft) 10.00

**Daily Operation: 1/10/2017 06:00 - 1/10/2017 19:00**

AFE Number WO000LOE	Job Category Completion/Workover	Objective WBI FOR HORIZONTAL FRACS	Start Date 1/9/2017	End Date	Primary Job Type Wellbore Integrity	Secondary Job Type
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**Rigs**

Contractor Ensign	Rig Number 356
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**Daily Operations**

Report Start Date 1/10/2017	Report End Date 1/10/2017	Daily Field Est. Total (Cost) 16,047.25	Cum Field Est. To Date (Cost) 20,937.25
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Status at Reporting Time

**Operations Summary**

0 PRESSURES. HELD SAFETY MEETING. MIRU PICK TESTERS. TESTED IN HOLE TO 6000 PSI WITH RMOR BIT AND SCRAPER AND 217 JNTS OF 2-3/8" 4.7# J-55 8RD EUE TBNG TO 6866'. FOUND 2 HOLES. RDMO TESTERS. POOH, LD BIT AND SCRAPER. MIRU CASED HOLE WIRELINE. RIH WITH RMOR/WYOMING COMPLETIONS 4-1/2" 10K CIBP. CORRELATED WITH LOGS, GOT ON DEPTH AND SET CIBP AT 6847'. (50' ABOVE TOP CODELL PERF) POOH. RIH WITH DUMP BAILER AND SPOT 2 SKS OF CEMENT ON TOP OF CIBP. POOH. RDMO WIRELINE. RIH WITH 3-7/8" CONE BIT/PUMP OFF BIT SUB W/FLOAT, SEAT NIPPLE AND 214 JNTS OF 2-3/8" 4.7# J-55 8RD EUE TBNG TO 6774'. ROLLED HOLE CLEAN. TESTED PLUG AND CASING TO 2000 PSI FOR 15 MINUTES. HELD GOOD. BLEED OFF PRESSURE. LD 9 JNTS. LAND TBNG AT 6491.33' KB. ND BOPS. NU 5K TOP FLANGE. INSTALLED 5K VALVES ON WELLHEAD. BROACHED TBNG TO SN WITH 1.901" BROACH. SECURED WELL. RDMO

- 10.00' kb
- 6478.23' 205 jnts 2-3/8" 4.7# J-55 8rd eue
- 1.10' seat nipple
- 2.00' P/O Bit sub w/ float and 3-7/8" cone bit
- 6491.33' kb

10 JNTS FMT'D TO INVENTORY ATP YARD (2 HAVE HOLES)  
TBNG WAS LANDED 90' HIGH. WILL NEED EXTRA WHEN RE-LANDING

**Operations Next Report Period**

TORQUE AND TEST WELLHEAD

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	06:30	0.50	0.50	TRAV	Travel - To Location	
06:30	07:00	0.50	1.00	SMTG	Safety Meeting	
07:00	12:00	5.00	6.00	RTRIP	Tripping	
12:00	13:00	1.00	7.00	EWLO	Other	TEST IN SCRAPER, PULL SCRAPER
13:00	14:30	1.50	8.50	RUTB	Run Tubing	WL SET CIBP W/2 SKS
14:30	16:00	1.50	10.00	PTST	Pressure Test	RAN PUMP OFF BIT SUB/BIT
16:00	17:00	1.00	11.00	ROTH	Other Rig Work	ROLL HOLE, TEST PLUG AND CASING TO 2000 PSI, GOOD
17:00	17:30	0.50	11.50	LOCL	Lock Wellhead & Secure	LD 10 JNTS, LAND TBNG
17:30	18:30	1.00	12.50	SRIG	Rig Up/Down	INSTALL 5K VALVES, SECURED WELL
18:30	19:00	0.50	13.00	TRAV	Travel - From Location	