



AFE #		PO:	
LEASE NAME / NUMBER		API WELL NUMBER	
ROTHARMEL 12-32		0512327371	
SECTION	TOWNSHIP	RANGE	COUNTY, STATE
SWNW 32	7N	66W	WELD, COLORADO
WELL PERMIT NUMBER			
JOB TYPE		CM-P2A-PERM.	
Vehicle Type		Single	

TICKET	BCO-2003-0108		
DATE	3/19/2020		
CREW INFORMATION			
SUPERVISOR	Larry Laslie		
PUMP UNIT			94-4528
NUMBERS			92-1159
ARRIVAL (D&T)	3/23/20 2:40 PM		
DEPARTURE (D&T)	3/23/20 6:30 PM		

[illegible][illegible]

Customer Name Printed _____

Customer Signature _____

Date Signed _____



Job Summary

Ticket Number	Ticket Date
TN# BCO-2003-0108	3/19/2020

COUNTY	COMPANY	API Number
WELD	PDC ENERGY	0512327371
WELL NAME	RIG	JOB TYPE
ROTHARMEL 12-32	Ensign 312	CM-P2A-PERM.
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.53225 -104.81042	Larry Laslie	Matthew McGraw

EMPLOYEES

Armando Lopez		
Cabe Calbertson		

WELL PROFILE

Max Treating Pressure (psi):	1000	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	12	918	1018		
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		0	918		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Casing	4.5	11.6		1018	1530		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2 3/8	4.7		0	1530		

CEMENT DATA

Stage 1:	From Depth (ft):	818	To Depth (ft):	1530
Type: Shoe Plugs	Volume (sacks):	153	Volume (bbls):	36.2

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
CJ922	14.8	1.33	6.32

Stage 2:	From Depth (ft):	0	To Depth (ft):	520
Type: Surface Plug	Volume (sacks):	140	Volume (bbls):	33.1

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
CJ922	14.8	1.33	6.32

Stage 3:	From Depth (ft):	0	To Depth (ft):	62
Type: Top Off	Volume (sacks):	17	Volume (bbls):	4

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
CJ922	14.8	1.33	6.32

Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

SUMMARY

	Stage 1	Stage 2
Preflushes:		
5 bbls of Fresh Water	3.1	
5 bbls of Fresh Water	3.1	
Total Preflush/Spacer Volume (bbl):	10	
Total Slurry Volume (bbl):	73.3	
Total Fluid Pumped	83.3	
Returns to Surface:	Cement	2 bbls

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

Job notes go here!

Customer Representative Signature:

Thank You For Using
NexTier Completion Solutions

	CUSTOMER P. O. NUMBER		SERVICE ORDER 2068		PAGE 1 of 1	
	SureFire Wireline You are hereby requested to perform or attempt to perform the following service(s) or furnish the following equipment:					DATE 3/19/2020
	SERVICE(S) AND/OR EQUIPMENT REQUESTED					

CUSTOMER	COMPANY	PDC Energy, Inc			
FURNISHED	LEASE	Rotharmel	WELL NUMBER	12-32	
LEASE/WELL	API	05-123-27371			
INFORMATION	FIELD	Wattenberg	PARISH/COUNTY	WELD	STATE Colorado

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 SUREFIRE WIRELINE WEST COLORADO LLC., 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 SureFire Wireline!!

Total runs, all pages **8**

THE ESTIMATED CHARGES AND DATA SHOWN ARE SUBJECT TO CORRECTION BY SUREFIRE WIRELINE WEST COLORADO ACCOUNTING

UNIT NUMBER 802	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
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LOG NO.	PERF. INTERVAL	PLUG DEPTH	OPERATION	ITEM	QUAN.	UNIT PRICE	DISC	DISC. PRICE	AMOUNT	SERVICE	FIRST READING	LAST READING	FOOTAGE DEL.
1		7289	P - Plug or Retainer - setting (3rd party)	each	1					Plug			
2		2SX	P - Dump Bailer (2 sxs Cement)	per run	1					Perf			
3		6960	P - Plug or Retainer - setting (3rd party)	each	1								
4		2SX	P - Dump Bailer (2 sxs Cement)	per run	1								
5		2500	P - Plug or Retainer - setting (3rd party)	each	1								
6		2SX	P - Dump Bailer (2 sxs Cement)	per run	1								
7			P - Radial Cement Bond Log (2000' - Surface)	each	1								
8		1018	P - Jet Cutters (all)	each	1								
9			P - 5K Packoff	each	1								
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

STANDARD PRICING			
Runs for this job	TOTAL	TOTAL DISC	ESTIMATED TOTAL CH
8			

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE	LOGS RECEIVED AT WELL	CUST. INITIALS	SIGNATURE OF SUREFIRE WIRELINE ENGINEER
X Matt McGraw			Nolan, Gregory

CASING/TUBING RECORD	PERM. DEPTH DATUM	GROUND LEVEL	ELEV.	ELEV K.B.
SIZE WEIGHT TYPE FROM TO	LOG MEAS. FROM	WHICH IS	ABOVE PERM DATUM	D.F. G.L.
4 1/2 Casing 1	Fluid Type	Fluid Weight	Fluid Level	REMARKS
Casing 2		lbs/gal	feet	District doing job: Kersey, CO
Tubing				Line of Business: Completions
Liner	Bottom Hole Temperature	Degrees F		Type of Job: Vertical P and A
Drill Pipe				Class: Vert. Domestic

SUREFIRE ENGINEER NAMES
