



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 (ft ³ /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 (ft ³ /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 (ft ³ /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 (ft ³ /sk)	Water Req.

SUMMARY

Preflushes:	5 bbls of Fresh Water	Calculated Displacement (bbl):	3.1	Stage 1	
	5 bbls of Fresh Water	Actual Displacement (bbl):	3.1	Stage 2	
Total Preflush/Spacer Volume (bbl):	10	Plug Bump (Y/N):	N/A	Bump Pressure (psi):	N/A
Total Slurry Volume (bbl):	73.3	Lost Returns (Y/N):	N	(if Y, when)	
Total Fluid Pumped	83.3				
Returns to Surface:	Cement	2	bbls		

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

Job notes go here!

Thank You For Using
NexTier Completion Solutions

Customer Representative Signature: _____



CUSTOMER P. O. NUMBER	SERVICE ORDER 2068	PAGE 1 of 1
DATE 3/19/2020		

SureFire Wireline
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	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

TRIP: FIRST HOISTING TYPE: WORKOVER RIG ROUND TRIP MILEAGE: _____

Desc. 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													
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SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE: **X** Matt McGraw

SIGNATURE OF SUREFIRE WIRELINE ENGINEER: Nolan, Gregory

SIZE	WEIGHT	TYPE	FROM	TO	PERM. DEPTH DATUM	GROUND LEVEL	ELEV.	ELEV. K.B.
4 1/2		Casing 1						
		Casing 2						
		Tubing						
		Liner						
		Drill Pipe						

LOG MEAS. FROM	WHICH IS	ABOVE PERM DATUM	D.F.	G.L.
Fluid Type	Fluid Weight	Fluid Level	REMARKS	
	lbs/gal	feet	District doing job: Kersey, CO	
Bottom Hole Temperature			Degrees F	
Type of Job:			Vertical P and A	
Class:			Vert. Domestic	
District job is in:			Kersey, CO	
SUREFIRE ENGINEER NAMES			WORK WITNESSED BY NAME	
Nolan, Gregory			Matt McGraw	
SUREFIRE OPERATORS			AFE#:	
Herrick, Brett			Engineer: Nolan, Gregory	
Martinez, Rick			MSA#:	
Crew 5				
Crew 6				