



Magnum Cementing Services LLC  
 2800 South, 600 17th Street  
 Denver, Colorado 80202

**Field Ticket**

Job Date: February 20, 2020  
 Job Number: JOB00082318

**Bill To:**  
 PDC Energy  
 PO Box 26  
  
 Bridgeport , West Virginia  
 26330

**UWI:** State 22-16  
**Surface:** SENW, Sec 16, 6N, 64W  
**Pricing Area:** Area 1  
**Competitive:** STDU  
**Depth:** 1760  
**Job Type:** Balanced Plug

	Units	Per	Unit Price	Cost
<b>Services and Equipment</b>				
PCMP Unit Travel	55	MI		
PCMP - Remedial Set Up (6 Hr min)	1,760	FT		
<b>Equipment</b>				
MDAC	1	Job		
Communication Headsets	2	RDIO		
<b>Material Handling &amp; Delivery</b>				
Bulk Material Blending	670	SKS		
Bulk Material Delivery	36,850	SKMI		
<b>Products &amp; Materials</b>				
MAG S 14.1	656	SKS		
MCA-1	570.72	LB		
MCFL-1	228.23	LB		
MCFR-2	85.36	LB		
MCDF-P	57.07	LB		
MCDF-L	4	GAL		
MAG Thin	150	M3		

**Customer Stamp:**

SERVICES PROVIDED BY MAGNUM CEMENTING SERVICES LTD. ARE GOVERNED BY AND SUBJECT TO THE ATTACHED TERMS AND CONDITIONS.

Received By: Hector Terrazas 970-506-9272  
 Comments:

All totals are estimated (including mileage), and are subject to change depending on actual amounts used. Applicable taxes will be added to the invoice. Prices may change without notice due to fluctuating market conditions. Prices are in effect for 30 days from date shown.



## US Treatment Report

**Customer:** PDC Energy  
**Rep:** Hector Terrazas  
**Supervisor:** Ryan Urquhart  
**Job Type:** US Remedial  
 Balanced Plug

**Rig:**  
**Well:** State 22-16  
**UWI:** State 22-16  
**Surface:** SENW, Sec 16, 6N, 64W

**Job #:** JOB00082318  
**Job Date:** Feb 20 @ 00:00  
**Time Requested:** Feb 20 @ 09:00  
**Time Arrived:** Feb 20 @ 09:00  
**Time Released:** Feb 20 @ 13:57

BHCT (F)	77/74	BHST (F)	68/54	Casing 1 Casing Size (in)	8.625
Casing 1 Weight (lb/ft)	24	Casing 2 Casing Size (in)	4.5	Casing 2 Grade	TBD
Casing 2 Weight (lb/ft)	11.6	TMD (ft)	1760	Tubing (in)	2.375
Tubing Grade	TBD	Tubing Length (ft)	1760	Tubing WT (lb/ft)	4.7

Treatment Info:      Sacks Used: 0      Sacks Not Used: 0

Preflush: 5bbls Fresh Water & 5bbls Fresh Water

Displace: 5.6bbls Fresh Water

Circulation Time:

Slurry Temp: 56      Bulk Sample: Yes  
 Water Temp: 36      Water Sample: Yes  
 Bulk Temp: 61      Slurry Sample: Yes

Slurry Returns:      Plug Bumped:      Pump Out Lines: Yes      Float Held:

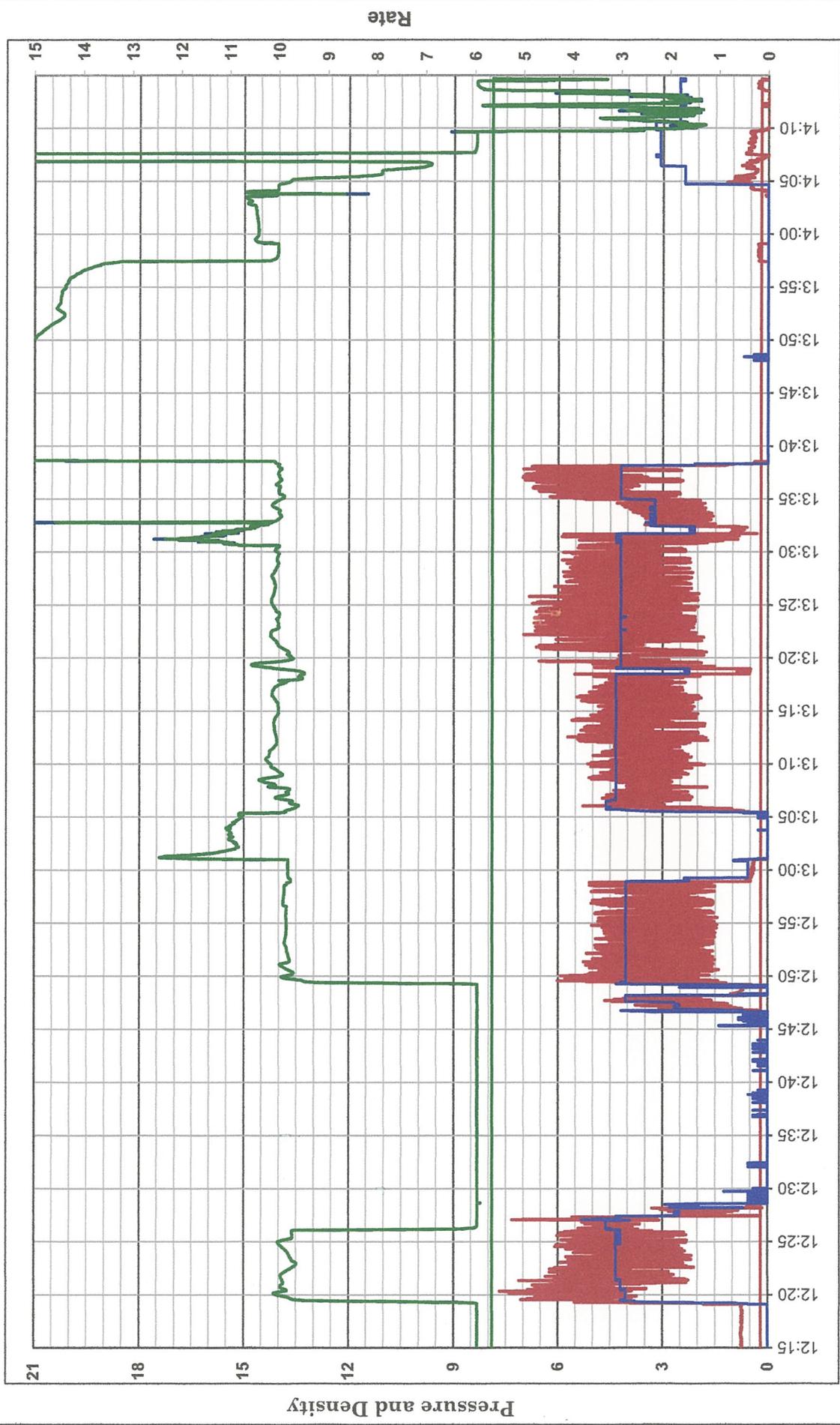
Time	Pressure psi	Annular Pressure psi	Volume Per Stage bbls	Total Stage Volume bbls	Rate bbls/mi n	Treatment Detail
09:00	0.00					Arrive on Location - RIG IS PULLING CASING
12:02	0.00					Safety Meeting - DISCUSS HAZARDS AND JOB PROCEDURE WITH ALL PERSONELL INVOLVED
12:12	351.00		5.0			Fill Lines - LOAD LINE/ BRAKE CIRCULATION
12:20	1,830.00		0.1	0.1	0.2	Start Pressure Test
12:28	447.00		20.5	20.5	3.1	Pump Slurry - BATCH/ WEIGHT/ PUMP SLURRY @ 14.1 PPG
12:35	406.00		5.6			Displace - H2O
12:38	0.00					Stop Pumping - SHUTDOWN/ OPEN BLEED OFF TO BALANCE PLUG
12:42	0.00					RIG IS PULLING TUBING FOR 2ND STAGE
12:55	330.00		5		2.0	Pump Preflush - PUMP H2O TO BRAKE CIRCULATION
13:00	482.00		127		3.0	Pump Slurry - BATCH/ WEIGHT PUMP SLURRY @ 14.1 PPG
13:48	0.00					Stop Pumping - GOT CEMENT TO SURFACE
14:07	50.00		2		0.5	Pump Slurry - TOP OUT CEMENT TO SURFACE
14:11	0.00					Stop Pumping - JOB IS COMPLETE
15:00	0.00					Leave Location



Customer: PDC  
Date: FEB 20 2020  
Ticket: 82318

Well Name: STATE 22-16  
UWI: STATE 22-16  
Job Type: P AND A

Unit  
1015



Density = Lb/Gal

Pressure = Psi \*100

Rate = BBL/Min



CUSTOMER P. O. NUMBER	SERVICE ORDER 4014	PAGE 1 of 1
DATE 2/19/2020		

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	State	WELL NUMBER	22-16
LEASE/WELL	API:	05-123-14338		
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
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SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

X

Thank you for using SureFire Wireline!!	Total runs, all pages	4
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THE ESTIMATED CHARGES AND DATA SHOWN ARE SUBJECT TO CORRECTION BY SUREFIRE WIRELINE WEST COLORADO ACCOUNTING

UNIT NUMBER 804	OPERATION TYPE: DAYLIGHT	WELL TYPE: WORKOVER	ROUND TRIP MILEAGE									
TRIP: FIRST	HOISTING TYPE: WORKOVER RIG	BOTTOM HOLE PRESSURE: PSI	PSI									
WIRELINE DEPTH	MAX. WELLHEAD PRESSURE											
Desc. NO.	PERF. INTERVAL	PLUG DEPTH	OPERATION	ITEM	QUAN.	UNIT PRICE	DISC.	AMOUNT	SERVICE	FIRST READING	LAST READING	FOOTAGE DEL.
1			P - Packoff	each	1				Plug			
2		6690'	P - Plug or Retainer - setting (3rd party)	each	1				Perf			
3		6690'	P - Dump Bailer Cement (2 SXs)	per run	1							
4	CBL 6650'-0'		P - Cement Bond Log (6000'+)	each	1							
5	Cut - 1710'		P - Jet Cutters (all)	each	1							
6												
7												
8												
9												
10												
11												
12												
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15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
STANDARD PRICING										NO		
Runs for this job										NO		
4										NO		
ESTIMATED TOTAL C										NO		

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE <i>Hector</i>	LOGS RECEIVED AT WELL	CUST. INITIALS	SIGNATURE OF CASEHOLE SOLUTIONS ENGINEER <i>Meisner, Jacob</i>
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SIZE	WEIGHT	TYPE	FROM	TO	PERM. DEPTH DATUM	GROUND LEVEL	ELEV.	ELEV. K.B.
		Casing 1			LOG MEAS. FROM	WHICH IS	ABOVE PERM DATUM	D.F. G.L.
		Casing 2			Fluid Type	Fluid Weight	Fluid Level	REMARKS
		Tubing			lbs/gal	feet		District doing job: Kersey, CO
		Liner			Bottom Hole Temperature	Degrees F		Line of Business: Completions
		Drill Pipe						Type of Job: Vertical P and A
SUREFIRE ENGINEER NAMES		WORK WITNESSED BY NAME		Class: Vert. Domestic				
Meisner, Jacob		Crew 1		Hector T.		District job is in: Kersey, CO		
SUREFIRE OPERATORS		Crew 2						
Kuntz, Shane		Crew 3		AFE#:				
Schneider, Kyle		Crew 4		Engineer: Meisner, Jacob				
Crew 5		Crew 6		MSA#:				