



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

Field Ticket

Job Date: June 16, 2021
 Job Number: JOB00100316

Bill To:

PDC Energy
 1775 Sherman Street
 Suite 3000
 Denver, Colorado
 80204

UWI: Bruzewski 33-15F
 Surface: SW/SE Sec. 33, T4N, R66W

Pricing Area: Area 1
 Competitive: CHYN
 Depth: 4141
 Job Type: Balanced Plug

	Units	Per	Unit Price	Cost
Services and Equipment				
PCMP Unit Travel	65.	MI		
PCMP Add Time: Operating	2.	HR		
PCMP - Remedial Set Up (6 Hr min)	4,141.	FT		
Add Time: Non Operating	11.	HR		
Tax Recovery	6.5	Job		
Equipment				
MDAC	1.	Job		
Communication Headsets	2.	RDIO		
Material Handling & Delivery				
Bulk Material Blending	699.	SKS		
Bulk Material Delivery	45,435.	SKMI		
Products & Materials				
MCA-1	234.03	LB		
MCA-1	53.51	LB		
MCFL-10	140.42	LB		
MCFL-10	64.21	LB		
MCFL-10	160.25	LB		
MCR-2	50.	LB		
MCR-1	53.42	LB		
MCDF-L	8.	GAL		
MAG S 14.1	269.	SKS		
MAG S 14.1	123.	SKS		
MAG S 14.1	307.	SKS		

Customer Stamp:

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

Received By: Bud Holman 970.301.3897
 Comments:

US Treatment Report



Customer: PDC Energy
Rep: Bud Holman
Supervisor: Wesley Bell
Job Type: US Remedial
 Balanced Plug

Ria: Ensign 350
Well: Bruzewski 33-15F
UWI: Bruzewski 33-15F
Surface: SW/SE Sec. 33, T4N,
 R66W

Job #: JOB00100316
Job Date: 6/15/2021
Time Requested: 3:00
Time Arrived: 2:00
Time Released: 10:45

307 sk	MAG S 14.1 + 0.60% MCFL-10 + 0.20% MCR-1	Yield: 1.28 ft ³ /sk = 69.99bbbls	Mix Water: 5.89 gal/sk = 1808.23gal
123 sk	MAG S 14.1 + 0.60% MCFL-10 + 0.50% MCA-1	Yield: 1.28ft ³ /sack = 28.04bbbls	Mix Water: 5.89gal/sack = 724.47gal
360 sk	MAG S 14.1 + 0.60% MCFL-10 + 1.00% MCA-1	Yield: 1.28ft ³ /sack = 82.07bbbls	Mix Water: 5.89gal/sack = 2120.4gal

BHCT (F)	127	BHST (F)	154	Production Casing Casing Size	8.625
Production Casing Weight (lb/ft)	24	Tubing Casing Size (in)	2.875	(in) Tubing Weight (lb/ft)	7.9
Hole Size (in)	12	Max Tbg Pressure (psi)	18480	Mud Density (lb/gal)	8.5
Mud Type	Fresh	Surface Casing (in)	8.625	Surface Casing Grade	J-55
Surface Casing Length (ft)	507	Surface Casing WT (lb/ft)	24	TMD (ft)	4145
Tubing (in)	2.875	Tubing Grade	P-110	Tubing Length (ft)	4145
Tubing WT (lb/ft)	7.9	TVD (ft)	4145	Unkown UDF	Tubing
Unkown UDF	Productio n Casing				

Treatment Info: Sacks Used: 699 Sacks Not Used: 0

Preflush: 10bbbls Fresh Water & 5bbbls Fresh Water & 5bbbls Fresh Water

	Circulation Time:	0	
	Slurry Temp:	90	Bulk Sample: No
	Water Temp:	60	Water Sample: No
	Bulk Temp:	80	Slurry Sample: Yes
	Air Temp:	92	Air Pressure 29.8
Slurry Returns:	1 Plug Bumped:	No	Pump Out Lines: No
Cement Class:	Type III		Humidity: 29
			Float Held: No
			Precipitation: 0

Displace: 18bbbls Fresh Water & 6.8bbbls Fresh Water

Time	Pressure psi	Annular Pressure psi	Volume Per Stage bbls	Total Stage Volume bbls	Rate bbls/min	Treatment Detail
02:00	0.00					Arrive on Location - Arrive on location, requested time was 03:00
02:15	0.00					Spot and rig in pump and bulk units
09:35	0.00					Safety Meeting - Hold safety meeting with rig crew
09:57	1,800.00			2	2	Start Pressure Test - Fill lines and test with fresh water
09:59	250.00			8	2	Attain Circulation to Surface - Establish circulation with fresh water
10:18	200.00			69.9	3	Pump Slurry - Pump 69.9bbbls, 307sks, Mag S 14.1, Y: 1.28, WR:5.89. Top of plug calculated at 3645'

10:45	30.00			18	2	Displace - Displace to balance with fresh water
10:57	0.00					Stop Pumping - Shut down, check for flow back to unit, no flow. Rig POOH above plug top and circulates well for 4hrs
15:00	0.00					Rig tagged cement at 3492'
15:50	120.00			5	3	Attain Circulation to Surface - Pump fresh water to establish circulation
15:55	100.00			28	3	Pump Slurry - Pump 28bbbls, 123sks, Mag S 14.1, Y: 1.28, WR: 5.89. Expected top at 1317'
16:04	40.00			6.8	2	Displace - Displace to balance with fresh water,
16:08	0.00					Shut down, Rig POOH above plug and circulate
19:30	0.00					Rig tagged cement at 1299'. POOH to 719'
19:48	50.00			5	2	Attain Circulation to Surface - Establish circulation with fresh water
19:53	200.00			58	3	Pump Slurry - Pump 58bbbls, 254sks, Mag S 14.1, Y: 1.28, WR: 5.89. Top of cement at surface
20:15	0.00					Shut down, Rig pulls all tubing out of well.
20:50	50.00			3.5	.5	Pump Slurry - Top off with 3.5bbbls cement at 14.1ppg, 15sks, Mag S . Watch for fall back.
21:20	0.00					Wash Up Truck - No fallback on cement. Wash up pump and flowback iron.
22:30	0.00					Leave Location

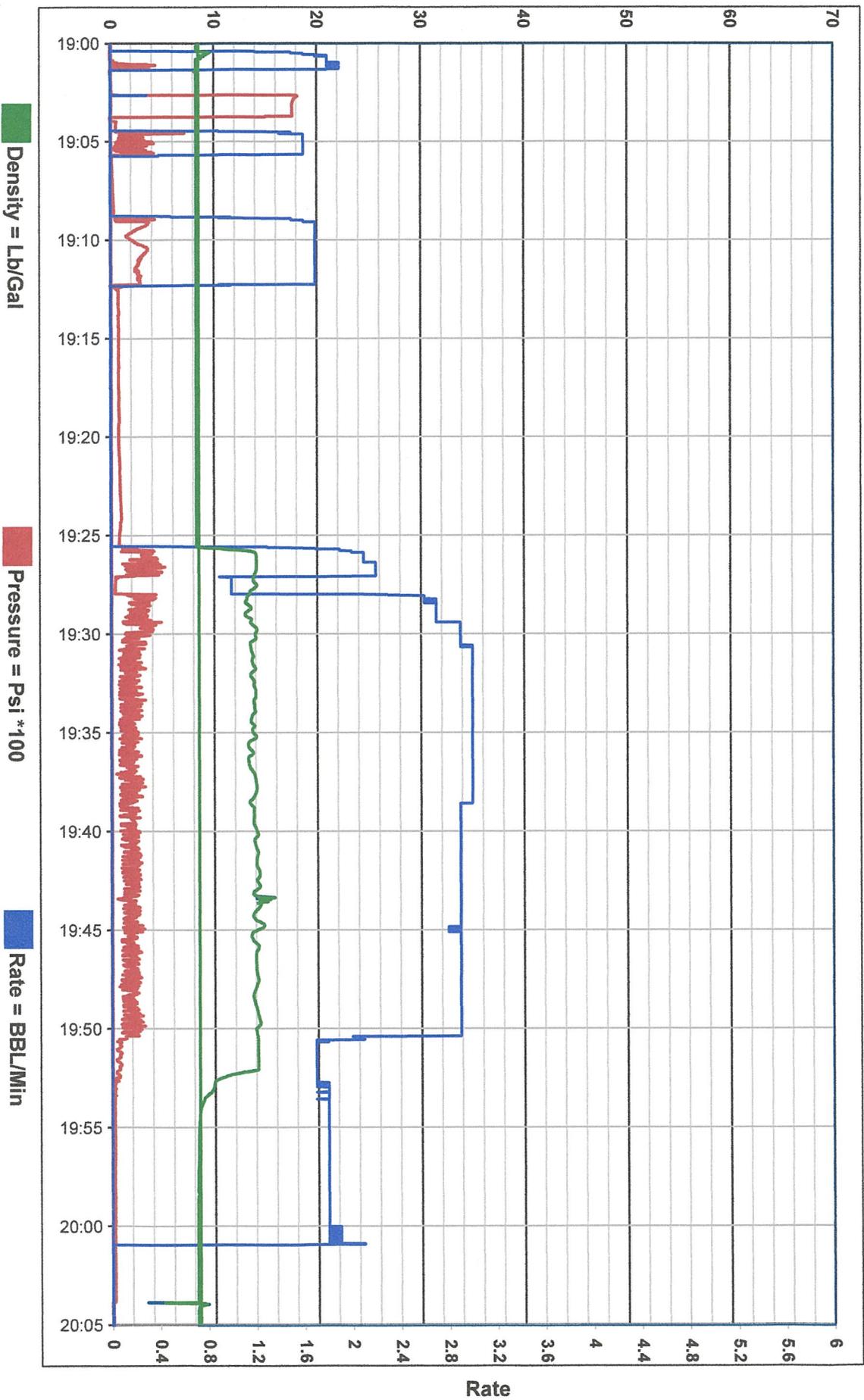


Customer: PDC
Date: 6/8/2021
Ticket: 100316

Well Name: Bruzewski 33-15F
UWI: Bruzewski 33-15F
Job Type: P&A

Unit
1014

Pressure and Density





Customer: **PDC**
Job Date 6-15-2021
Location: Bruzewski 33-15F
Well name Bruzewski 33-15F
Job type: P&A
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