



PDC Energy, Inc.  
PO Box 26  
Attn: Accounts Payable  
Bridgeport WV 26330

INVOICE: **9207891**

Field Ticket Number

Invoice Date **Oct. 13, 2015**

Terms **Net 30 Days**

Job Date Oct 8, 2015	Ordered By Eduardo Chavez	Lease and Well Number SE/SW SEC.19 T4N R67W	AFE #
Customer Representative / Attention To N/A		Customer Department / Business Unit Evans, Colorado Ops	Customer Code N/A

WELL NAME: NYGREN 19-1

One Service Charge to 6080.0 ft depth

30.00 (1 Unit(s) x 30 Mile) mile(s) Travel Charge @ \$7.50 per mile

One Twin Service Charge to 6080.0 ft depth

1,860.00 cubic feet Bulk Handling Charge @ \$3.30 per ft<sup>3</sup>

2,340.00 (78 Unit(s) x 30 T-m) ton(s) Bulk Delivery / Return 30 mile(s) @  
\$2.55 per t-m

1.00 SAM Unit @ \$1,015.00 per job

993.00 sack(s) 1-2-0 'Poz G' @ \$25.00 per sack

3,416.00 lb(s) Gel @ \$1.00 per lb

108.00 lb(s) LTR @ \$6.60 per lb

2.00 EnviroBag(s) @ \$78.00 per job

8.00 gal(s) DF-3 @ \$141.00 per gal

1.00 Environmental Surcharge @ \$50.00 per job

150.00 lb(s) Sugar @ \$2.00 per lb

NO DISCOL

NO DISCOL

**Less 58.00% Primary Cementing Discount**

**Less 10.00% Temporary Market Adjustment**

Thank you in advance for your payment due by  
**November 12, 2015**

Please make cheque payable to Sanjel (USA) Inc.

Sub Total
Sales Tax
Tax
Total

(\*) Taxable

(T) TMA - Temporary Market Adjustment

Sanjel (USA) Inc. • 1630 Welton Street, Suite 400, Denver, CO 80202 • Telephone: 303•893•6866 • Fax: 303•893•6864  
Corporate Head Office • 200, 505 - 2nd Street SW, Calgary, Alberta T2P 1N8 • Telephone: 403•269•1420 • Fax: 403•269•1433



## Service Ticket

9207891

## Field Estimate

Client Name PDC Energy, Inc.		Well Name Nygren 19-1		Surface Well Location SE SW Sec 19 T4N R67W		Job Date October 08, 2015	
		Job Type Bradenhead Squeeze		Down Hole Location		Service Point Fort Lupton	
Address PO Box 26 Attn: Accounts Payable		Client Representative Mr. Eduardo Chavez		State CO		County Weld	
City Bridgeport		State WV		Postal Code 26330		Drilling Company BWS	
				Rig No. 22		AFE/PO #	

District	Service, Equipment & Material Type	Disc	SL	Code	Quantity/Unit
D505	Travel Charge (1 Unit(s) X 30 miles) •	58	13	1380	30
D505	Service Charge 6001 to 7000 ft <i>W080</i>	58		1110	1
D505	Twin Pumping <i>W080</i>	58		1150	1
D505	Handling Service Charge	58		1480	1860
D505	Bulk Delivery / Return (78 Unit(s) X 30 miles)	58		1484	2340
D505	SAM Unit •	58		1497	1
D505	1-2-0 <i>9020</i>	58		3012	993
D505	Gel	58		3231	3416
D505	LTR	58		3110	108
D505	EnviroBag •	58		1492	2
D505	CDF-3L	58		3262	8
D505	Environmental Surcharge •	-		1493	1
D505	Sugar	-		3265	150

\* Not Subject to Discount

Field Estimate

T TMA Applied *50%*

## FOR OFFICE USE ONLY

<input type="checkbox"/> Cementing - Prim	<input checked="" type="checkbox"/> Cementing - Rem.	<input type="checkbox"/> Code 9000
<input type="checkbox"/> Coiled Tubing	<input type="checkbox"/> Nitrogen	
<input type="checkbox"/> Acidization	<input type="checkbox"/> Fracturing	
<input type="checkbox"/> Industrial Services	<input type="checkbox"/> MPCT	
<input type="checkbox"/> Other		

This Space Reserved for Client Coding Stamp

Field *10*

Sales 1

Sales 2 *W0*

## Comments

Job went well, pumped it on 3 stages. got cement to surface @ 267 bbl of slurry, rig crew was helpful.

This service ticket is not an invoice; pricing is subject to review and change without notice.  
This signature confirms that I have read and comply with the terms and conditions page  
of this service ticket

X

Eduardo Chavez



## Cementing Service Report

9207891

Client Name PDC Energy, Inc.	Well Name Nygren 19-1	Rig BWS 22	Job Date October 08, 2015	Call Sheet 1061393
Client Representative Mr. Eduardo Chavez	Surface Well Location SE SW Sec 19:T4N:R67W	Down Hole Well Location	Job Type Bradenhead Squeeze	Lead Supervisor

## Well Profile

Well Type: Oil

Maximum Treating Pressure (psi): ---

Predicted Bottom Hole Static Temperature (°F): --- @ ---

Bottom Hole Circulating Temperature (°F): --- @ ---

Bottom Hole Logged Temperature (°F): --- @ ---

## Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
9.000	10.000	3,000.000	6,080.000	--	--
10.000	10.000	311.000	3,000.000	--	--

## Casing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
8.625	24.000	J-55	1,370.0	2,950.0	19.81	8.097	9.625	0.0	311.0
4.500	11.600	J-55	4,960.0	5,350.0	94.50	4.000	5.000	0.0	6,080.0

## Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
1.660	2.300	---	--	--	--	--	0.000	6,080.000

## Products

## Stage 1

From Depth (ft): 0

To Depth (ft): 6080

Acids/Blends/Fluids :

Tail: 350 Sacks of 1-2-4 G, Density = 13.5 lb/gal, Volume Pumped = 94 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70

+ 0.25 % of LTR (Prehydrate)

## Stage 2

From Depth (ft): 0

To Depth (ft): 6080

Acids/Blends/Fluids :

Plug: 643 Sacks of 1-2-4 G, Density = 13.5 lb/gal, Volume Pumped = 173 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 75

## Fluid &amp; Cement Data

Expected Cement Top: Surface

## Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jul 20, 2015 15:46



## Cementing Service Report

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### Units & Personnel

#### Units

<u>Truck Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Tractor Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Time On Location</u>	<u>Time Off Location</u>
201173	PICKUP	1 Ton	449086	TRAILER	Utility Trailer	10/08/2015 06:00	10/08/2015 14:15
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	10/08/2015 06:00	10/08/2015 14:15
446152	TRAILER	Bulker	746152	TRACTOR	Tandem - Tractor	10/08/2015 06:00	10/08/2015 14:15
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	10/08/2015 06:00	10/08/2015 14:15
446113	TRAILER	Bulker	749181	TRACTOR	Tandem - Tractor	10/08/2015 06:00	10/08/2015 14:15
201520	PICKUP	1/2 Ton				10/08/2015 06:00	10/08/2015 14:15

#### Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Svoboda, Miloslav (28226)	10/08/2015 05:00	10/08/2015 18:53		
Ripka, Robert (23825)	10/08/2015 05:00	10/08/2015 18:53		
Schwab, Jeremy (25315)	10/08/2015 05:00	10/08/2015 18:53		
Davila, Israel (28152)	10/08/2015 05:00	10/08/2015 18:53		
Bark, Eric (28944)	10/08/2015 05:00	10/08/2015 18:53		
Schroeder, Stephen (25442)	10/08/2015 05:00	10/08/2015 18:53		

### Treatment Reports & Remarks



# Cementing Service Report

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## Treatment Reports & Remarks

### Treatment Report

Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Oct 08, 2015 06:00	Arrive On Location		--	--	--	--	0.00
		Remarks: sign in						
2	Oct 08, 2015 06:15	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: tailgate meeting						
3	Oct 08, 2015 06:50	Rig in Complete		--	--	--	--	0.00
		Remarks: rigged in						
4	Oct 08, 2015 07:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: JSA with rig crew						
5	Oct 08, 2015 07:31	Pressure Test Start	Water	2.00	3,000.0	--	2.00	0.00
6	Oct 08, 2015 07:33	Pressure Test Complete		--	--	--	--	0.00
		Remarks: pressure held						
7	Oct 08, 2015 07:35	Pump Spacer	Water	1.50	1,800.0	--	10.00	10.00
		Remarks: fresh water						
8	Oct 08, 2015 07:41	Mix Cement	1-2-4 G	1.50	1,800.0	--	94.00	104.00
		Remarks: mixed @ pumped away						
9	Oct 08, 2015 09:00	Displace Fluid	Water	1.50	1,800.0	--	1.00	105.00
		Remarks: clean line						
10	Oct 08, 2015 09:05	Wait On Instructions		--	--	--	--	105.00
		Remarks: rig to trip out						
11	Oct 08, 2015 09:32	Pressure Test Lines	Water	--	3,000.0	--	--	105.00
		Remarks: rig back on tubing						
12	Oct 08, 2015 09:38	Mix Cement	1-2-4 G	1.50	1,900.0	--	89.00	194.00
		Remarks: mixed & pumped away						
13	Oct 08, 2015 10:50	Displace Fluid	Water	1.50	1,900.0	--	1.00	195.00
		Remarks: clean line						
14	Oct 08, 2015 10:52	Stop		--	--	--	--	195.00
15	Oct 08, 2015 10:56	Wait On Instructions		--	--	--	--	195.00
		Remarks: rig to trip out						
16	Oct 08, 2015 11:26	Pressure Test Lines		1.00	3,000.0	--	1.00	196.00
		Remarks: rig back on tubing						
17	Oct 08, 2015 11:31	Mix Cement	1-2-4 G	1.50	1,900.0	--	84.00	280.00
		Remarks: mixed & pumped away, got slurry to surface @ 79 bbl						
18	Oct 08, 2015 12:16	Displace Fluid	Water	1.50	1,900.0	--	0.50	280.50
		Remarks: clear line						
19	Oct 08, 2015 12:18	Stop		--	--	--	--	280.50
		Remarks: open return						
20	Oct 08, 2015 12:25	Wash	Water	--	--	--	--	280.50
		Remarks: wash pump						
21	Oct 08, 2015 12:45	Rig Out		--	--	--	--	280.50
22	Oct 08, 2015 13:15	Job Complete		--	--	--	--	280.50
23	Oct 08, 2015 13:45	Pre-Departure Meeting		--	--	--	--	280.50
24	Oct 08, 2015 14:00	Leave Location		--	--	--	--	280.50

### Treatment Reports & Remarks

Did Float Hold: Not Applicable  
 Fluid Returns: Yes  
 Type: Cement  
 Volume (bbl): 5  
 Temperature (°F): 80  
 FDAS Functioning Correctly: Yes  
 Was the Program Followed As Per Design?: Yes

### Material Transfer Sheet Number

#### Material Transfer Sheet Number

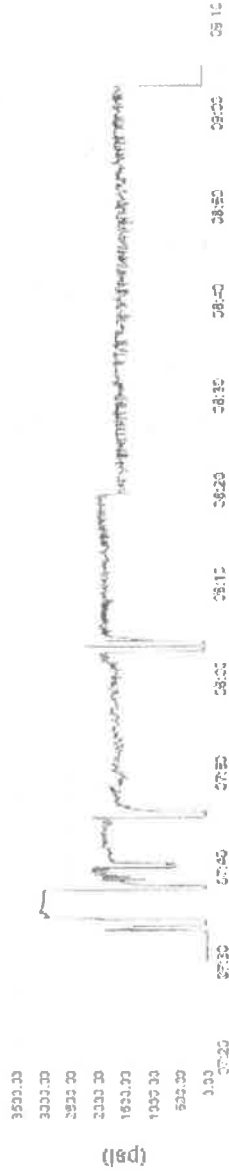
65936

65938

65937



Client	PDC	Client Rep	Edwardo Chavez	Supervisor	Milo Svoboda
Ticket No.	9207891	Well Name	Nygren 19-1	Unit No.	745024
Location	SE SW Sec 19:T4N:R67W	Job Type	Bradenhead Squeeze	Service District	D505
Comments	1. stage 350 sks of 1-2-4 G @ 13.5 ppg 2. stage 330 sks of 1-2-4 G @ 13.5 ppg 3. stage 780 sks of 1-2-4 G @ 13.5 ppg				
				Job Date	10/08/2015





Client	PDC	Client Rep	Edwardo Chavez	Supervisor	Milo Svoboda
Ticket No.	9207891	Well Name	Nygra 19-1	Unit No.	745024
Location	SE SW Sec 19 T4N R67W	Job Type	Bridlehead Squeeze	Service District	D505
Comments	1. stage 350 sks of 1-2-4 G @ 13.5 ppg 2. stage 330 sks of 1-2-4 G @ 13.5 ppg 3. stage 780 sks of 1-2-4 G @ 13.5 ppg				
				Job Date	10/08/2015







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Ticket No.	9207891	Well Name	Nygra 19-1	Unit No.	745024
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				Job Date	10/08/2015

