



Pumping Service Report

9206677

Client Name PDC Energy, Inc.	Well Name State Peterson 12 - 15	Rig Ensign Drilling Inc. 356	Job Date August 07, 2015	Call Sheet 1059777
Client Representative Mr. Eloy Cossio	Surface Well Location SW NW Sec 16:T5N:R63W	Down Hole Well Location	Job Type Bradenhead Squeeze	Lead Supervisor Lopez, Armando (29064)

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)
8.000	---	360.000	2,660.000	---	---

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	32.000	J-55	2,530.0	3,930.0	21.94	7.921	9.625	0.0	360.0
4.500	11.600	P-110	7,560.0	10,690.0	41.34	4.000	5.000	0.0	2,660.0

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	3.250	---	---	---	---	---	0.000	2,660.000

Products

Stage 1

From Depth (ft): 0

To Depth (ft): 2660

Acids/Blends/Fluids :

Tail: 469 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 96 (bbl)

Water Temperature(°F) = 74 , Bulk Temperature(°F) = 74 , Slurry Temperature(°F) = 86

Stage 2

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Tail: 1 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 1 (bbl)

Water Temperature(°F) = 1 , Bulk Temperature(°F) = 1 , Slurry Temperature(°F) = 1

Stage 3

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Tail: 1 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 1 (bbl)

Water Temperature(°F) = 1 , Bulk Temperature(°F) = 1 , Slurry Temperature(°F) = 1



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Fluid & Cement Data

Expected Cement Top: Surface

Wellbore Fluid

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

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449095	TRAILER	Utility Trailer	200925	PICKUP	1 Ton	08/07/2015 08:30	08/07/2015 15:00
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	08/07/2015 08:30	08/07/2015 15:00
446145	TRAILER	Bulker	746145	TRACTOR	Tandem - Tractor	08/07/2015 08:30	08/07/2015 15:00
446152	TRAILER	Bulker	746152	TRACTOR	Tandem - Tractor	08/07/2015 08:30	08/07/2015 15:00
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	08/07/2015 08:30	08/07/2015 15:00
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	08/07/2015 08:30	08/07/2015 15:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Lopez, Armando (29064)	08/07/2015 08:30	08/07/2015 15:00		
Schneider, Patrick (24093)	08/07/2015 08:30	08/07/2015 15:00		
Betts, Dallas (30257)	08/07/2015 08:30	08/07/2015 15:00		
Yates, William (29930)	08/07/2015 08:30	08/07/2015 15:00		
Young, Craig (27496)	08/07/2015 08:30	08/07/2015 15:00		
Pigg, Martin (28301)	08/07/2015 08:30	08/07/2015 15:00		



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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	Aug 07, 2015 08:30	Arrive On Location		--	--	--	--	0.00
2	Aug 07, 2015 08:40	Crew Briefing (Rig In)		--	--	--	--	0.00
3	Aug 07, 2015 11:40	Rig in Complete		--	--	--	--	0.00
4	Aug 07, 2015 11:50	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Aug 07, 2015 12:11	Start - Fluid	Water	1.00	--	--	1.00	1.00
		Remarks: Fill lines						
6	Aug 07, 2015 12:12	Pressure Test Start		--	2,500.0	--	--	0.00
7	Aug 07, 2015 12:13	Pressure Test Complete		--	--	--	--	0.00
8	Aug 07, 2015 12:15	Pump Spacer	Water	1.70	1,300.0	--	5.00	6.00
9	Aug 07, 2015 12:23	Mix Cement	0-1-D G	1.50	1,500.0	--	96.00	102.00
		Remarks: At 86 bbls 419 sacks got cement to surface. Cement weigh with scale was 15.6						
10	Aug 07, 2015 13:36	Displace Fluid	Water	1.00	400.0	--	1.50	103.50
11	Aug 07, 2015 13:40	Stop		--	--	--	--	0.00
12	Aug 07, 2015 13:45	Wash		--	--	--	--	0.00
13	Aug 07, 2015 14:15	Rig Out		--	--	--	--	0.00
14	Aug 07, 2015 14:45	Job Complete		--	--	--	--	0.00
15	Aug 07, 2015 14:50	Pre-Departure Meeting		--	--	--	--	0.00
16	Aug 07, 2015 15:00	Leave Location		--	--	--	--	0.00

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 10

Temperature (°F) : 90

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

65364

65365

65366

65367

65360



Client	PDC Energy	Client Rep.	Eloy Cossio	Supervisor	Amando Lopez
Ticket No.	9206677	Well Name	stiste peterson 12-15	Unit No.	745024
Location	Sec 16 T5N R63W	Job Type	Abandonment Plugs	Service District	Ft Lupton Co
Comments	08/07/2015				

