



Client Name PDC Energy, Inc.	Well Name Spaur 10T-421	Rig Ensign Drilling Inc. 152	Job Date March 04,2016	Call Sheet 1065460
Client Representative Mr. Vaughn Staples	Surface Well Location SE SW Sec 10:T4N:R67W	Down Hole Well Location	Job Type Production Casing	Lead Supervisor Klosterman, Austin (27698)

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					
<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>	<u>TVD To (ft)</u>
8.500	--	0.000	11,817.000	--	--

Casing									
<u>Size (in)</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Collapse Pressure (psi)</u>	<u>Internal Yield Pressure (psi)</u>	<u>Capacity (bbl)</u>	<u>I.D. (in)</u>	<u>O.D. (in)</u>	<u>Depth From (ft)</u>	<u>Depth To (ft)</u>
9.625	36.000		--	--	--	--	--	0.0	1,341.0
5.500	20.000		--	--	--	--	--	0.0	11,795.0

Products

Stage 1	
From Depth (ft):	0
To Depth (ft):	5600
Acids/Blends/Fluids :	
Lead 1: 800 Sacks of 1:1:0 Poz:Type III, Density = 12.5 lb/gal, Volume Pumped = 246 (bbl)	
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 60	
+ 0.5 % of CFL-10 (Preblend),	
+ 0.3 % of ASM-3 (Preblend),	
+ 0.2 % of LTR (Preblend),	
+ 2 % of FWC-2 (Preblend)	
Stage 2	
From Depth (ft):	5600
To Depth (ft):	11795
Acids/Blends/Fluids :	
Tail: 815 Sacks of 1:2:0 Poz:G, Density = 13.5 lb/gal, Volume Pumped = 271 (bbl)	
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 60	
+ 25 % of Silica Flour (Preblend),	
+ 0.5 % of CFL-10 (Preblend),	
+ 0.4 % of ASM-3 (Preblend),	
+ 0.2 % of SPC-2 (Preblend)	

Fluid & Cement Data

Expected Cement Top:	Surface				
Wellbore Fluid					
<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
Water	--	--	--	--	Oct 10, 2015 17:03

Attachment & Tools

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	5.500	Sanjel

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>
201168	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	03/04/2016 09:00	03/04/2016 16:00
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	03/04/2016 09:00	03/04/2016 16:00
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	03/04/2016 09:00	03/04/2016 16:00
201401	PICKUP	1 Ton	449200	TRAILER	Utility Trailer	03/04/2016 09:00	03/04/2016 16:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Klosterman, Austin (27698)	03/04/2016 09:00	03/04/2016 16:00		
Yates, William (29930)	03/04/2016 09:00	03/04/2016 16:00		
Scott, Derek (29603)	03/04/2016 09:00	03/04/2016 16:00		
Schneider, Patrick (24093)	03/04/2016 09:00	03/04/2016 16:00		

Treatment Reports & Remarks

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	Mar 04,2016 09:00	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Mar 04,2016 09:10	Crew Briefing (Rig in)		0.00	0.0	0.0	0.00	0.00
3	Mar 04,2016 11:20	Rig in Complete		0.00	0.0	0.0	0.00	0.00
4	Mar 04,2016 11:30	Crew Briefing (Pre Job)		0.00	0.0	0.0	0.00	0.00
5	Mar 04,2016 11:49	Pressure Test Start	Water	0.00	5,500.0	0.0	0.00	0.00
6	Mar 04,2016 11:50	Pressure Test Complete		0.00	5,500.0	0.0	0.00	0.00
7	Mar 04,2016 11:57	Pump Preflush	Water	8.00	600.0	0.0	20.00	20.00
		Remarks: Mudflush with red dye per customer.						
8	Mar 04,2016 12:01	Pump Preflush	Water	7.00	500.0	0.0	20.00	40.00
		Remarks: Vissweep.						
9	Mar 04,2016 12:08	Pump Preflush	Water	4.00	300.0	0.0	10.00	50.00
		Remarks: Fresh.						
10	Mar 04,2016 12:10	Pump	1:1:0 Poz:Type III	8.00	900.0	0.0	246.00	296.00
		Remarks: Mix up and pump 800sx @12.5#, Yield 1.73, WR 9.25.						
11	Mar 04,2016 12:47	Pump	1:2:0 Poz:G	8.00	400.0	0.0	271.00	567.00
		Remarks: Mix up and pump 815sx @13.5#, Yield 1.87, WR 9.21.						
12	Mar 04,2016 13:23	Drop Plug On The Fly	Water	0.00	0.0	0.0	0.00	567.00
13	Mar 04,2016 13:25	Displace Fluid	Water	8.00	1,200.0	0.0	245.00	812.00
14	Mar 04,2016 14:00	Decrease Pump Rate	Water	5.00	1,700.0	0.0	15.00	827.00
15	Mar 04,2016 14:02	Pumping Pressure Before Bump	Water	0.00	1,800.0	0.0	0.00	827.00
16	Mar 04,2016 14:03	Bump Plug	Water	0.00	2,500.0	0.0	0.00	827.00
17	Mar 04,2016 14:18	Check Float		0.00	0.0	0.0	0.00	827.00
		Remarks: 2.5bbbls back.						
18	Mar 04,2016 14:30	Rig Out		0.00	0.0	0.0	0.00	827.00
19	Mar 04,2016 15:30	Job Complete		0.00	0.0	0.0	0.00	827.00
20	Mar 04,2016 16:00	Leave Location		0.00	0.0	0.0	0.00	827.00
Did Float Hold:		Yes						
Fluid Returns :		No						
Type :								
Volume (bbl) :								
Temperature (°F) :		--						
FDAS Functioning Correctly :		Yes						
Was the Program Followed As Per Design? :		Yes						

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

64891

64893

64894

64892

64947