



Cementing Service Report

9208563

Client Name Whiting Petroleum Corp.	Well Name Horsetail 15 - 0603	Rig Unit Drilling Co. 409	Job Date January 31,2016	Call Sheet 1064478
Client Representative Kenny	Surface Well Location NW NW Sec 7:T10N:R57W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Schultz, Derek (24277)

Well Profile				
Well Type:	Oil			
Maximum Treating Pressure (psi):	---			
Predicted Bottom Hole Static Temperature (°F):	100.00	@	--	
Bottom Hole Circulating Temperature (°F):	80.00	@	--	
Bottom Hole Logged Temperature (°F):	---	@	--	

Products				
Stage 1				
From Depth (ft):				
To Depth (ft):				
Acids/Blends/Fluids :				
Lead 1: 390 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 177 (bbl)				
Water Temperature(°F) = 56 , Bulk Temperature(°F) = 10 , Slurry Temperature(°F) = 60				
+ 0.25 lb/sack of LCL-7 (Preblend)				
Stage 2				
From Depth (ft):				
To Depth (ft):				
Acids/Blends/Fluids :				
Tail: 240 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 70 (bbl)				
Water Temperature(°F) = 56 , Bulk Temperature(°F) = 10 , Slurry Temperature(°F) = 60				
+ 2 % of CaCl2 (Preblend),				
+ 0.25 lb/sack of LCL-7 (Preblend)				
Stage 3				
From Depth (ft):				
To Depth (ft):				
Acids/Blends/Fluids :				

Fluid & Cement Data					
Expected Cement Top:	--				
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	--	8.340	--	--	Jul 07, 2015 14:19
Water Based Mud	--	--	--	--	Aug 24, 2015 15:49

Attachment & Tools		
Tubular Plugs		
<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	9.625	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>
449083	TRAILER	Utility Trailer	201173	PICKUP	1 Ton	01/31/2016 02:50	01/31/2016 13:50
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	01/31/2016 02:50	01/31/2016 13:50

Crew and Bonuses				
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Schultz, Derek (24277)	01/31/2016 02:50	01/31/2016 13:50		
Melgarejo Herrera, Eduardo (26606)	01/31/2016 02:50	01/31/2016 13:50		
Landers, Jade (26442)	01/31/2016 02:50	01/31/2016 13:50		
Nickerson, Nick				

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	Jan 31,2016 02:50	Arrive On Location		--	--	--	--	0.00
2	Jan 31,2016 07:30	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jan 31,2016 09:00	Rig in Complete		--	--	--	--	0.00
4	Jan 31,2016 09:20	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jan 31,2016 09:48	Establish Circulation	Water	4.00	80.0	--	10.00	10.00
		Remarks: fresh water with Dye						
6	Jan 31,2016 09:51	Pressure Test Start	Water	--	3,000.0	--	--	10.00
7	Jan 31,2016 09:52	Pressure Test Complete	Water	--	0.0	--	--	10.00
8	Jan 31,2016 09:53	Forward Circulate	Water	6.00	100.0	--	10.00	20.00
9	Jan 31,2016 09:56	Mix Cement	Control Set C	8.00	400.0	--	177.00	197.00
		Remarks: @ 12.0 PPG						
10	Jan 31,2016 10:20	Mix Cement	0:1:0 Type III	6.00	100.0	--	70.00	267.00
		Remarks: @ 14.2 PPG						
11	Jan 31,2016 10:33	Stop		--	0.0	--	--	267.00
12	Jan 31,2016 10:34	Drop Plug		--	--	--	--	267.00
13	Jan 31,2016 10:39	Displace Fluid	Water	6.00	--	--	153.20	420.20
14	Jan 31,2016 11:13	Bump Plug	Water	--	1,350.0	--	--	420.20
15	Jan 31,2016 11:14	Check Float		--	0.0	--	--	420.20
		Remarks: Float held						
16	Jan 31,2016 11:15	Pressure Test	Water	--	1,520.0	--	--	420.20
		Remarks: lost pressure had to restart casing test						
17	Jan 31,2016 11:31	Pressure Test	Water	--	1,520.0	--	--	420.20
		Remarks: casing pressure test for 15 min						
18	Jan 31,2016 11:46	N/A	Water	--	1,503.0	--	--	420.20
		Remarks: casing test held						
19	Jan 31,2016 12:00	Rig Out		--	--	--	--	420.20
20	Jan 31,2016 12:45	Job Complete		--	--	--	--	420.20
21	Jan 31,2016 13:20	Pre-Departure Meeting		--	--	--	--	420.20
22	Jan 31,2016 13:50	Leave Location		--	--	--	--	420.20

Did Float Hold: Yes
 Fluid Returns : Yes
 Type : Cement
 Volume (bbl) : 100
 Temperature (°F) : 80
 FDAS Functioning Correctly : Yes
 Was the Program Followed As Per Design? : Yes

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

64523

64525

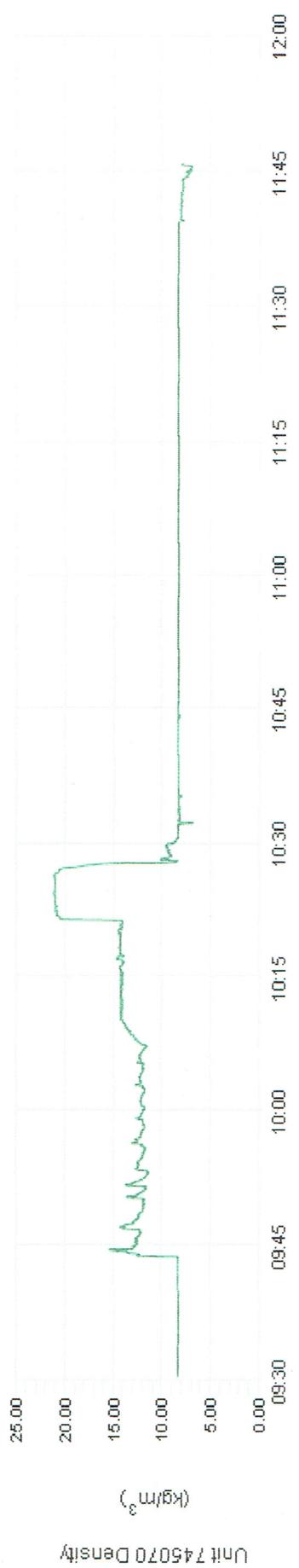
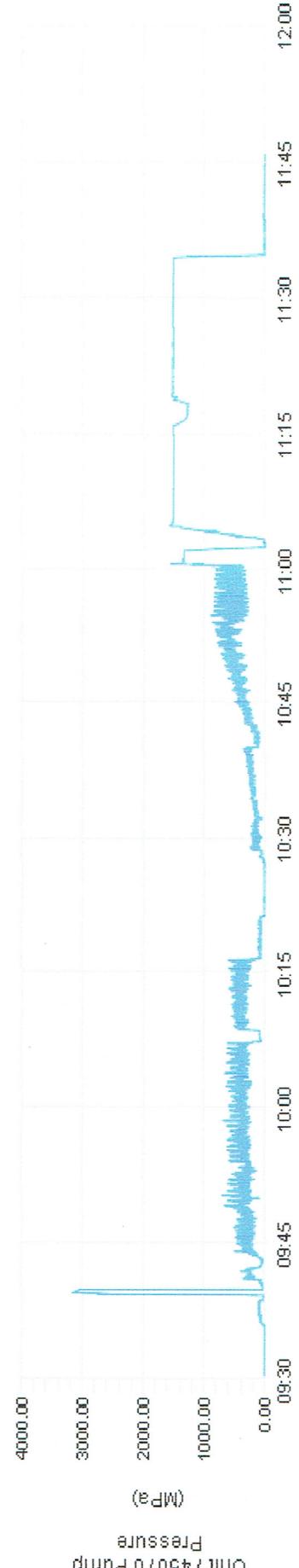
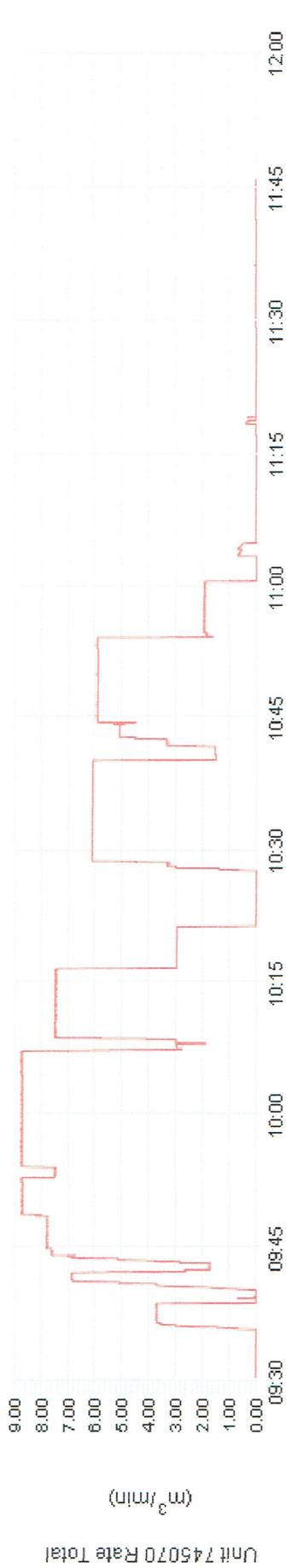
64524



Client Whiting Petroleum Corp.
Ticket No. 9208563
Location Sec 7:T10N:R57W
Comments

Client Rep
Well Name Horsetail 15-0603
Job Type Surface Casing

Supervisor Derek Schultz
Unit No. 745070
Service District Fort Lupton
Job Date 01/31/2016



General Terms and Conditions

Under these terms and conditions ("T&Cs") Sanjel (USA) Inc. ("Sanjel") agrees to provide, and you agree to purchase, the goods and services in the attached proposal or work order ("goods," "services" or "goods and services"). You understand and agree that the T&Cs govern and control the provision of all goods or services Sanjel provides to you, including any goods or services Sanjel provides or performs under written or oral requests for goods or services. You accept the T&Cs by informing Sanjel or allowing Sanjel to provide goods and services, whichever is first. You cannot change the T&Cs, and Sanjel rejects any proposals on your forms or otherwise. When used in the T&Cs, "we," "us," and "our" refer to both you and Sanjel, collectively.

1. Entire Agreement. If we have signed an agreement applicable to the goods and services, that agreement will apply and the T&Cs do not. If no signed agreement exists between us, the T&Cs are our entire agreement for the goods and services, and no prior discussion, agreement, conduct, or industry practice will affect them. The T&Cs may not be changed, superseded or replaced by any other agreement (including any terms in a purchase order, service order, invoice or other similar document) unless specifically agreed by each of us in writing.

2. Acknowledgment. You understand that interpretations, research, analysis, advice or interpretational data furnished by Sanjel ("Recommendations") are opinions based on inferences from measurements, empirical relationships and assumptions and industry practice and that Recommendations are not infallible, and the opinions of professional geologists, engineers, drilling consultants and analysts may differ. Sanjel does not warrant the accuracy, correctness, or completeness of the Recommendations, or that your or any third party's reliance on the Recommendations will accomplish any particular results. You assume full responsibility for the use of and decisions based on the Recommendations, and you hereby agree to release, defend, indemnify and hold Sanjel harmless from Claims arising from the use of the Recommendations.

3. Payment. You will pay Sanjel at the rates in the applicable proposal or work order (which are good for 90 days) in US dollars within 30 days of performance or a correct invoice, whichever is later. Sanjel may charge interest at 18% per year on all overdue amounts, and you will bear all costs of collection of overdue accounts, including legal fees.

4. Services. You acknowledge and agree that the services Sanjel may perform are of such a nature that results cannot be guaranteed, and Sanjel makes no representations, warranties or guarantees with respect to the results of the services. Sanjel's only warranty with regard to the services is that they will conform to the material aspects of the applicable scope of work.

5. Goods. Sanjel may provide goods to you under the T&Cs or in connection with the services. Sanjel warrants that goods will (a) substantially conform to the applicable scope of work (b) be free of defects and of good quality and workmanship, and (c) not be subject to any liens, claims or encumbrances. There are no warranties, express or implied, of merchantability, use, and fitness that extend beyond those expressly stated herein.

6. Warranty Remedies. Sanjel will re-perform any non-conforming services if Sanjel is notified before leaving the work site, and will repair or replace any non-conforming or defective goods you notify Sanjel of within 30 days after Sanjel provided them to you free of charge. If Sanjel is unable to repair the non-conforming services, Sanjel will reimburse you for costs of a third party to repair such services, up to 10% of the original work order for such services. If fishing services are required to retrieve goods, Sanjel may specify the provider and be present during recovery. The remedies will not apply if damage is caused by: (i) your failure to properly store or maintain the goods, (ii) abnormal well conditions, abrasive materials, corrosion due to aggressive fluids or incorrect specifications, (iii) unauthorized alteration or repair of the goods, (iv) loss of goods while on your site due to your or any third party's negligence, vandalism or force majeure, (v) Sanjel's lack of or incorrect information regarding well conditions, or (vi) use or handling of the goods in a manner inconsistent with Sanjel's recommendations. Sanjel's warranty obligations will terminate if you fail to perform your obligations, including your failure to pay on time.

7. Delay and Cancellation. If Sanjel cannot provide goods or services to you due to circumstances beyond its control, Sanjel may charge you actual costs incurred, including but not limited to: mileage; blending; materials (including handling and hauling); return delivery and restocking charges; and all location time in excess of the location time allowance. Orders for goods or services that you cancel after Sanjel has procured the required materials may be subject to a 25% restocking fee. If Sanjel provides materials to your specifications and you cancel for any reason (including an uncontrollable event) you will be charged a cancellation fee plus actual costs incurred as a result of such cancellation.

8. Taxes. Prices are exclusive of any municipal, state, federal, special or use taxes or levies imposed on the sale of goods or services. You will be responsible for all

taxes applicable to the provision of the goods or services.

9. Additional Services Requests. You will pay for services, equipment or materials not listed in a proposal but purchased or rented by Sanjel at your request at cost plus 25%. Sanjel has no liability to you for such services, equipment or materials.

10. Proprietary Rights. You acknowledge that any intellectual property Sanjel uses in connection with the T&Cs, or that is created or developed by Sanjel in the course of performing under the T&Cs, is the property of Sanjel at all times, and you understand that you are not entitled to any intellectual property rights in any of Sanjel's intellectual property, except as required to receive the benefit of the goods or services.

11. Confidentiality. Any non-public information that we learn about each other in connection with the T&Cs, including our relationship, is confidential information of the disclosing party, and neither of us may disclose confidential information of the other to any third party without the prior written consent of the disclosing party. We may each use confidential information of the other to perform under the T&Cs, and may share it only on a need-to-know basis with employees.

12. Indemnity. (A) Subject to Section 12(b) below, each of us ("Indemnitor") hereby agrees to release, defend, indemnify and hold the other, its affiliates, officers, directors, agents, partners, joint venturers, employees and contractors of every tier ("Indemnitee Group") harmless for all losses, claims, demands, causes of action, costs and expenses (including reasonable legal fees) (collectively, "Claims"), for personal injury, death and property damage to Indemnitor, its affiliates, officers, directors, agents, partners, joint venturers, employees and contractors of every tier arising out of or incident to the T&Cs or any goods or services provided hereunder, without regard to whether such Claim is caused, in whole or in part, by the negligence (whether sole, joint or concurrent, active or passive), contractual liability or other fault of any member of the Indemnitee Group or by any defect or pre-existing condition (whether known or unknown, patent or otherwise). (B) You hereby agree to release, defend, indemnify and hold Sanjel harmless for any Claims Sanjel may suffer or incur arising out of or incident to: well blowout or any uncontrolled well condition, fire, cratering, redrill or sidetracking, seepage or reservoir damage, loss or damage to the hole, pollution and contamination (except sudden and accidental pollution originating above the service of the earth and emanating from Sanjel's equipment while in Sanjel's care, custody and control), and loss or damage to Sanjel's (or its contractors') equipment while down the hole at new replacement value; even if caused in whole or in part by the sole, joint or concurrent negligence or other fault of Sanjel or any other person.

13. Consequential Damages Exclusion: Notwithstanding anything to the contrary, neither of us will be liable to the other for business interruptions, punitive, indirect or consequential damages relating to the goods or services (including but not limited to any loss of profit, loss of expected revenue, loss of hydrocarbons or loss of rig time).

14. Disposal of Chemicals. You will arrange and be responsible for the disposal of any used chemicals and hazardous materials related to the goods or services.

15. Insurance. Each of us will maintain, at its own cost, commercial general liability insurance covering its indemnification obligations under the T&Cs with combined single limits of at least \$5,000,000 per occurrence and in the aggregate, worker's compensation coverage as and in amounts required by applicable law, and automobile liability coverage with a combined single limit of \$2,000,000. We will obtain insurance from carriers with AM Best ratings of at least A-VII (or equivalent), ensure the other party is named as an additional insured, and ensure that our carriers waive rights of subrogation against the other party.

16. Uncontrollable Events. Except for payment obligations, if either of us is unable to comply with the T&Cs because of events beyond our reasonable control, we will promptly notify the other in writing and will make reasonable efforts to restore our ability to perform as soon as possible. If the inability to perform continues for more than 10 days, the other party may cancel the applicable job immediately, by giving written notice to the affected party.

17. Waiver. Failure to enforce any or all of the T&Cs will not relieve either party of its rights or obligations or constitute a waiver or prevent further enforcement.

18. Assignment. You will not assign any of your rights or obligations under this PO without Sanjel's approval, which Sanjel may not unreasonably withhold. Any assignment in violation of this provision will be null and void.

19. Governing Law. We agree that the laws of the State of Colorado govern the T&Cs, without the application of choice of law rules. Each of us voluntarily submits to the jurisdiction and venue of the federal or state courts (as applicable) of the State of Colorado for the adjudication of all disputes under the T&Cs.

April 2014