

**Service Ticket****9201379****Field Estimate**

Client Name Whiting Petroleum Corp.			Well Name Razor SWD 1		Surface Well Location NW SE Sec 21:T10N:R58W		Job Date February 04, 2015	
			Job Type Surface Casing		Down Hole Location		Service Point Fort Lupton	Call Sheet 1054766
Address 1700 Broadway, Suite. 2300			Client Representative Mr. Brody		State CO	County Weld	Pricing Area Area U	
City Denver	State CO	Postal Code 80290	Drilling Company Pioneer Drilling		Rig No. 54		AFE/PO #	

District	Service, Equipment & Material Type	Disc	SL	Code	Quantity/Unit	Unit Price	Amount
59	Travel Charge	58	13	1380	1	\$7.50	\$750.00
59	Service Charge 0 to 2000 ft	58	13	1000	1	\$3,550.00	\$3,550.00
59	Twin Pumping	58	13	1150	1	\$710.00	\$710.00
59	Handling Service Charge	58	13	1480	680	\$3.30	\$2,244.00
59	Bulk Delivery / Return	58	13	1484	31.5	\$2.55	\$8,032.50
59	SAM Unit	58	13	1497	1	\$1,015.00	\$1,015.00
59	Type III	58	13	3007	660	\$29.00	\$19,140.00
59	Calcium Chloride	58	13	3100	621	\$1.80	\$1,117.80
59	Polyflake	58	13	3247	165	\$5.00	\$825.00
59	EnviroBag	58	13	1492	1	\$78.00	\$78.00
59	DF-3, Anti-foamer	58	13	3262	5	\$141.00	\$705.00
59	Environmental Surcharge	-	13	1493	1	\$50.00	\$50.00 *
59	Fuel Surcharge	-	13	2992	4	\$440.00	\$1,760.00 *
59	Field Storage Bin	58	13	2999	1	\$1,200.00	\$1,200.00
59	Sugar	58	13	3265	100	\$2.00	\$200.00

This Space Reserved for Client Coding Stamp	* Not Subject to Discount	Field Estimate	Before Discount: \$41,377.30
			Fuel Surcharge:
			After Discount: \$18,428.27
	FOR OFFICE USE ONLY		
	<input checked="" type="checkbox"/> Cementing - Prim	<input 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			
	Field	Sales 1	Sales 2
Comments	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		



Pumping Service Report

9201379

Client Name Whiting Petroleum Corp.	Well Name Razor SWD 1	Rig Pioneer Drilling 54	Job Date February 04, 2015	Call Sheet 1054766
Client Representative Mr. Brody	Surface Well Location NW SE Sec 21:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	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):	--- @ --

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
13.500	25.000	0.000	1,600.000	--	--

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)
9.625	36.000	J-55	2,020.0	3,520.0	122.49	8.921	10.625	0.0	1,584.5

Products

Stage 1

From Depth (ft):	0
To Depth (ft):	1584

Acids/Blends/Fluids :

Tail: 660 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 173 (bbl)
Water Temperature(°F) = 40 , Bulk Temperature(°F) = 40 , Slurry Temperature(°F) = 50
+ 1 % of CaCl₂ (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Stage 2

From Depth (ft):	
To Depth (ft):	

Acids/Blends/Fluids :

Extra Cement: 1 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 1 (bbl)
Water Temperature(°F) = 1 , Bulk Temperature(°F) = 1 , Slurry Temperature(°F) = 1
+ 2 % of CaCl₂ (Prehydrate)

Fluid & Cement Data

Expected Cement Top: Surface

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.400	--	--	Jul 14, 2014 20:27
Water Based Mud	--	--	--	--	Oct 09, 2014 19:06



Pumping Service Report

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Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Guide Shoe	1,584.000	Third Party
Float Collar	1,537.000	Third Party

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	9.625	Third Party

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>
449093	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	02/04/2015 20:30	02/05/2015 06:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	02/04/2015 20:30	02/05/2015 06:30
201017	PICKUP	1 Ton				02/04/2015 20:30	02/05/2015 06:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Lopez, Armando (29064)	02/04/2015 20:30	02/05/2015 06:30		
Phillips, James (23627)	02/04/2015 20:30	02/05/2015 06:30		
Meisner, Jeremy (27681)	02/04/2015 20:30	02/05/2015 06:30		
Morris, Theodore (26527)	02/04/2015 20:30	02/05/2015 06:30		
Vasquez, Brandon (29989)	02/04/2015 20:30	02/05/2015 06:30		



Pumping Service Report

9201379

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	Feb 04,2015 20:30	Arrive On Location		--	--	--	--	0.00
		Remarks: Company man requested cement crew on location at 2130 02-04-2015						
2	Feb 04,2015 20:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Feb 04,2015 21:50	Rig in Complete		--	--	--	--	0.00
4	Feb 05,2015 02:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Feb 05,2015 02:43	Start - Fluid	Water	2.00	70.0	--	2.00	2.00
		Remarks: Fill lines						
6	Feb 05,2015 02:47	Pressure Test Start		--	3,000.0	--	--	0.00
7	Feb 05,2015 02:49	Pressure Test Complete		--	--	--	--	0.00
8	Feb 05,2015 02:50	Pump Spacer	Water	4.00	130.0	--	10.00	12.00
9	Feb 05,2015 02:55	Pump Spacer	Water	4.00	130.0	--	10.00	22.00
		Remarks: Red dye						
10	Feb 05,2015 03:04	Mix Cement	0:1:0 Type III	5.50	200.0	--	178.00	200.00
		Remarks: Pumed 660 sacks Density 14.2 Yield 1.47 Water 7.36						
11	Feb 05,2015 03:45	Drop Plug		--	--	--	--	200.00
		Remarks: 3rd party plug						
12	Feb 05,2015 03:53	Displace Fluid	Water Based Mud	5.00	150.0	--	119.00	319.00
13	Feb 05,2015 04:34	Bump Plug		--	--	--	--	319.00
		Remarks: Before plug landed pressure was 480 psi landed plug with 1030 psi						
14	Feb 05,2015 04:36	Check Float		--	--	--	--	319.00
		Remarks: Got .5 bbls back. Got 55 bbls 210 sacks of cement to surface						
15	Feb 05,2015 04:55	Stop		--	--	--	--	0.00
16	Feb 05,2015 05:00	Wash		--	--	--	--	0.00
17	Feb 05,2015 05:30	Rig Out		--	--	--	--	0.00
18	Feb 05,2015 06:00	Job Complete		--	--	--	--	0.00
19	Feb 05,2015 06:15	Pre-Departure Meeting		--	--	--	--	0.00
20	Feb 05,2015 06:30	Leave Location		--	--	--	--	0.00

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 55
Temperature (°F) : 70
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

55715

55716

55717



Client	Whiting	Client Rep	Brody	Supervisor	Armando Lopez
Ticket No.	9201379	Well Name	Razor SWD 1	Unit No.	745070
Location	Sec21:T10N:R58W	Job Type	Surface Casing	Service District	Ft Lupton Co
Comments				Job Date	02/05/2015

