



**Pumping
Service Report**

9193292

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-2210B	Rig Frontier 26	Job Date September 05, 2014	Call Sheet 1046677
Client Representative Mr. Kenny Wilkerson	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	

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): --- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
13.500	25.000	0.000	1,611.000	--	--

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	124.54	8.921	10.625	0.0	1,611.0

Products

Stage 1

From Depth (ft): 0

To Depth (ft): 1600

Acids/Blends/Fluids :

Tail: 665 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 174 (bbl)

Water Temperature(°F) = 55 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 76

+ 1 % of CaCl₂ (Preblend),

+ 0.25 % of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Jul 26, 2014 15:47
Water Based Mud	--	--	--	--	Sep 05, 2014 21:15



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Units & Personnel

Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201191	PICKUP	1 Ton	449093	TRAILER	Utility Trailer	09/05/2014 21:00	09/06/2014 04:45
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	09/05/2014 21:00	09/06/2014 04:45
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	09/05/2014 21:00	09/06/2014 04:45
446084	TRAILER	Bulker	746084	TRACTOR	Tandem - Tractor	09/05/2014 21:00	09/06/2014 04:45

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Ripka, Robert	09/05/2014 21:00	09/06/2014 04:45		
Svoboda, Miloslav	09/05/2014 21:00	09/06/2014 04:45		
Estrada, John	09/05/2014 21:00	09/06/2014 04:45		
Davila, Israel	09/05/2014 21:00	09/06/2014 04:45		
Martinez, Fernando	09/05/2014 21:00	09/06/2014 04:45		

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	Sep 05,2014 21:00	Arrive On Location	---	--	--	--	--	0.00
2	Sep 05,2014 21:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Sep 06,2014 00:30	Rig In	---	--	--	--	--	0.00
4	Sep 06,2014 01:30	Safety Meeting	---	--	--	--	--	0.00
5	Sep 06,2014 01:50	Sign-off on Safety	---	--	--	--	--	0.00
6	Sep 06,2014 01:53	Pressure Test	---	--	3,000.0	--	--	0.00
7	Sep 06,2014 01:56	Pump Preflush	Water	4.00	100.0	--	20.00	20.00
8	Sep 06,2014 02:03	Mix Cement	0:1:0 Type III	7.00	400.0	--	174.00	194.00
		Remarks: 665 SKS						
9	Sep 06,2014 02:37	Drop Plug	---	--	--	--	--	194.00
10	Sep 06,2014 02:40	Displace Fluid	Water Based Mud	5.00	150.0	--	120.00	314.00
11	Sep 06,2014 03:05	Bump Plug	---	--	600.0	--	--	314.00
		Remarks: BUMP PLUG 1100 PSI						
12	Sep 06,2014 03:10	Check Float	---	--	--	--	--	314.00
		Remarks: FLOAT HELD						
13	Sep 06,2014 03:15	Rig Out	---	--	--	--	--	314.00
14	Sep 06,2014 04:30	Job Complete	---	--	--	--	--	314.00
15	Sep 06,2014 04:33	Pre-Departure Meeting	---	--	--	--	--	314.00
16	Sep 06,2014 04:45	Leave Location	---	--	--	--	--	314.00



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Treatment Reports & Remarks

Did Float Hold: Yes
Fluid Returns: Yes
Type: Cement
Volume (bbl): 60
Temperature (°F): 86
FDAS Functioning Correctly: Yes
Was the Program Followed As Per Design?: Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

46327

46328

46332

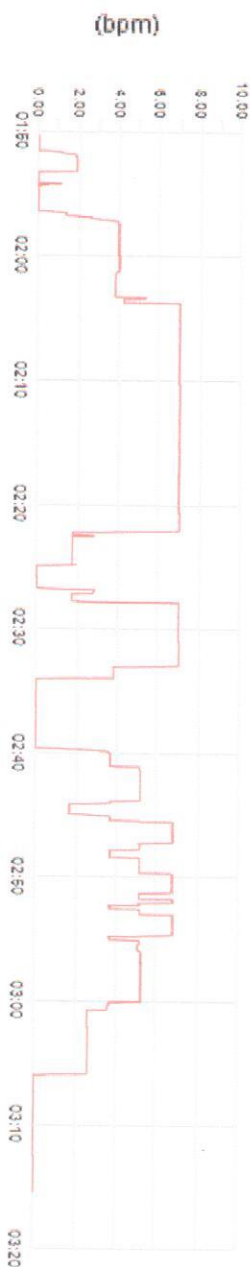
Comments To Service Report

TAIL CEMENT H2O - 7.36 Y - 1.46

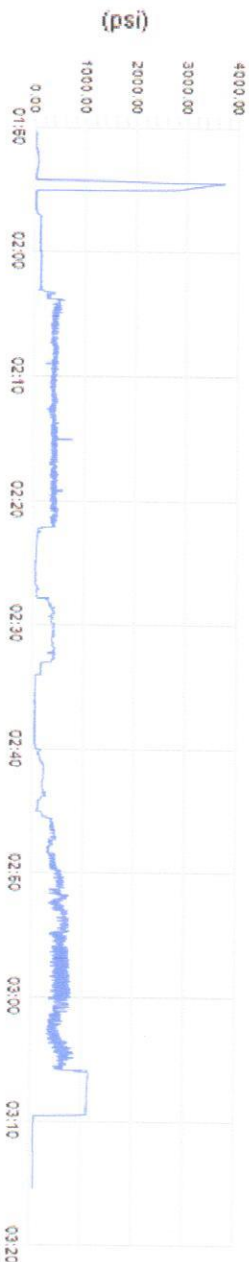


Client	WHITING PETROLEUM	Client Rep	KENNY	Supervisor	BOB RIPKA
Ticket No.	9193292	Well Name	RAZOR 271-2210B	Unit No.	745024
Location	SEC27, T10N, R58W	Job Type	Surface Casing	Service District	FORT LUPTON
Comments	665 SKS OF 0.1:0 TYPE III CEMENT				Job Date 09/06/2014

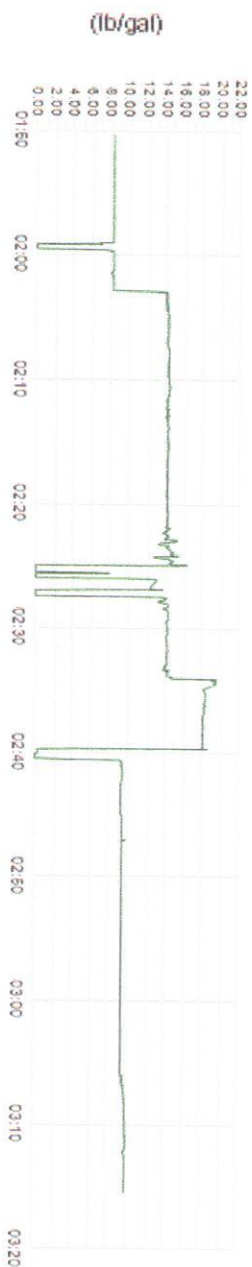
Unit 745024 Rate Total



Unit 745024 Pump Pressure



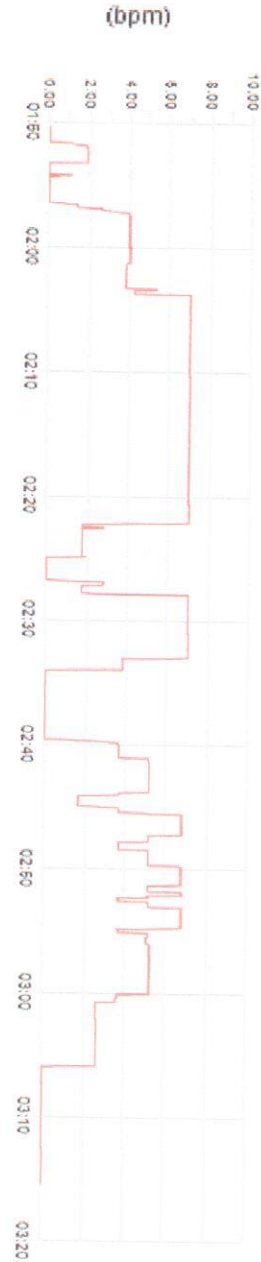
Unit 745024 Density



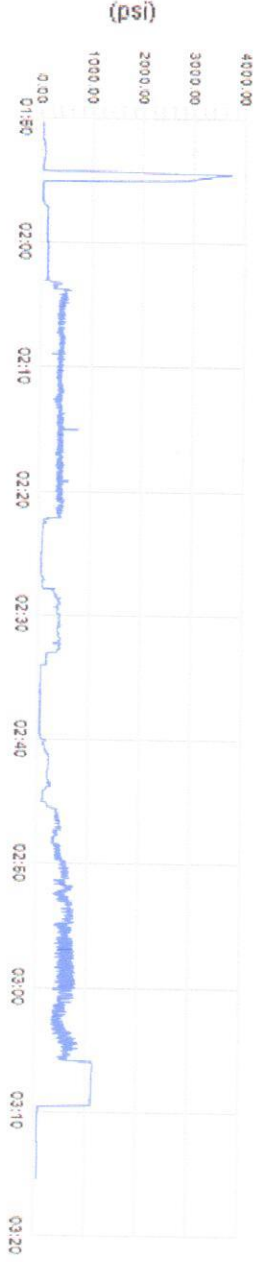


Client	WHITING PETROLEUM	Client Rep	KENNY	Supervisor	BOB RIPKA
Ticket No.	9193292	Well Name	RAZOR 27J-2210B	Unit No.	745024
Location	SEC27, T10N, R58W	Job Type	Surface Casing	Service District	FORT LUPTON
Comments	665 SKS OF 0.1:0 TYPE III CEMENT				Job Date
					09/06/2014

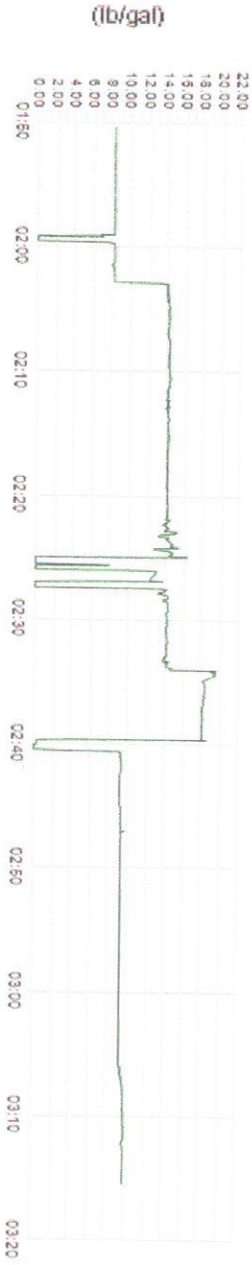
Unit 745024 Rate Total



Unit 745024 Pump Pressure



Unit 745024 Density





**Pumping
Service Report**

9189341

Client Name Whiting Petroleum Corp.	Well Name Razor 27J-2210B	Rig Frontier 26	Job Date September 10, 2014	Call Sheet 1046868
Client Representative Mr. Kenny	Surface Well Location Sec 27:T10N:R58W	Down Hole Well Location	Job Type Intermediate Casing	

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)
8.750	32.500	0.000	6,032.000	--	--

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)
7.000	29.000	L-80	7,030.0	8,160.0	228.46	6.184	7.656	0.0	6,150.0

Products

Plug 1

From Depth (ft): 6084.4

To Depth (ft): 0

Plug Type : Well Stability

Acids/Blends/Fluids :

Lead 1: 465 Sacks of 1-2-6 G, Density = 12.5 lb/gal, Volume Pumped = 156.5 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 0.2 % of CFR,
+ 0.5 % of CFL-4,
+ 0.15 % of LTR,
+ 0.25 lb/sack of Polyflake

Tail: 185 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 50.1 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 8 % of Fume,
+ 2 % of Gel,
+ 0.1 % of CFR-5,
+ 0.7 % of CFL-3,
+ 0.3 % of LTR,
+ 0.25 lb/sack of Polyflake

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	--	--	Aug 25, 2014 18:36
Water Based Mud	--	--	--	--	Aug 25, 2014 18:36



**Pumping
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Attachment & Tools

Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Float Collar	--	Third Party

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	7.000	Client

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	449087	TRAILER	Utility Trailer	09/09/2014 23:30	09/10/2014 05:30
445024	TRAILER	SCM Twin	745024	TRACTOR	Tandem - Tractor	09/09/2014 23:30	09/10/2014 05:30
201114	PICKUP	3/4 Ton				09/09/2014 23:30	09/10/2014 05:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Maguire, Matthew	09/09/2014 23:30	09/10/2014 00:52		
Doran, Benjamin	09/09/2014 23:30	09/10/2014 00:52		
Pigg, Martin	09/09/2014 23:30	09/10/2014 00:52		
Martinez, Fernando	09/09/2014 23:30	09/10/2014 00:52		

Treatment Reports & Remarks



**Pumping
Service Report**

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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	Sep 09,2014 23:30	Arrive On Location	---	--	--	--	--	0.00
2	Sep 09,2014 23:40	Tailgate Meeting	---	--	--	--	--	0.00
3	Sep 10,2014 00:15	Rig In	---	--	--	--	--	0.00
4	Sep 10,2014 01:30	Safety Meeting	---	--	--	--	--	0.00
5	Sep 10,2014 01:40	Sign-off on Safety	---	--	--	--	--	0.00
6	Sep 10,2014 01:48	Start - Fluid	Water	1.50	140.0	--	2.00	2.00
		Remarks: Filled lines.						
7	Sep 10,2014 01:49	Pressure Test Lines	---	--	3,000.0	--	--	2.00
		Remarks: All lines held pressure.						
8	Sep 10,2014 01:51	Pump Spacer	Water	3.70	350.0	--	10.00	12.00
		Remarks: Fresh water ahead.						
9	Sep 10,2014 01:54	Pump Preflush	Water	5.00	500.0	--	20.00	32.00
		Remarks: Visweep & Barite.						
10	Sep 10,2014 01:58	Mix Cement	1-2-6 G	5.00	1,000.0	--	156.50	188.50
		Remarks: LEAD cement. WR = 10.14, Y = 1.89, D = 12.5, Sk Wt = 97.68, 112.5 bbls mix h2o.						
11	Sep 10,2014 02:32	Mix Cement	1-1-0 G	4.50	150.0	--	50.10	238.60
		Remarks: TAIL cement. WR = 7.12, Y = 1.52, D = 13.5, Sk Wt = 91.91, 31.4 bbls mix h2o.						
12	Sep 10,2014 02:43	Drop Plug	---	--	--	--	--	238.60
13	Sep 10,2014 02:45	Displace Fluid	Water Based Mud	5.00	1,200.0	--	225.70	464.30
		Remarks: Slowed rate down to 2 bbls/min last 10 bbls.						
14	Sep 10,2014 03:38	Bump Plug	---	--	1,636.0	--	--	464.30
15	Sep 10,2014 03:39	Check Float	---	--	1,636.0	--	--	464.30
		Remarks: Held pressure for 1 min.						
16	Sep 10,2014 03:41	Hold Pressure	---	--	1,504.0	--	--	464.30
		Remarks: Casing test. Held pressure for 30 min.						
17	Sep 10,2014 04:15	Stop	---	--	--	--	--	464.30
		Remarks: Released pressure @1630psi, 1 bbl back.						
18	Sep 10,2014 04:25	Wash	Water	1.50	100.0	--	20.00	464.30
19	Sep 10,2014 05:00	Rig Out	---	--	--	--	--	464.30
20	Sep 10,2014 05:20	Pre-Departure Meeting	---	--	--	--	--	464.30
21	Sep 10,2014 05:25	Job Complete	---	--	--	--	--	464.30
22	Sep 10,2014 05:30	Leave Location	---	--	--	--	--	464.30

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 35

Temperature (°F) : 60

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes



**Pumping
Service Report**

9189341

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

46335

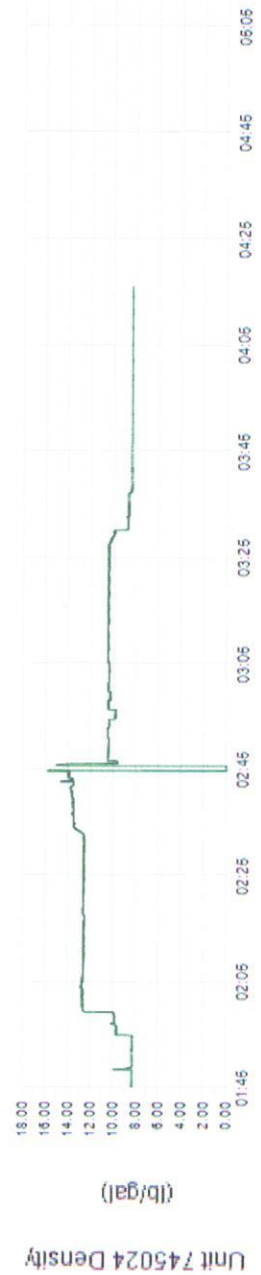
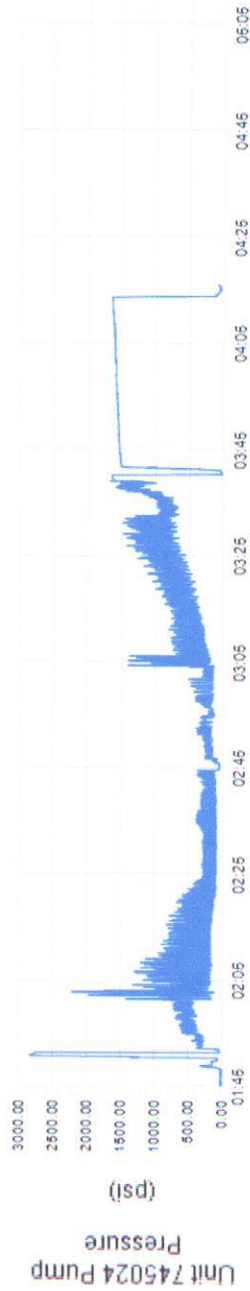
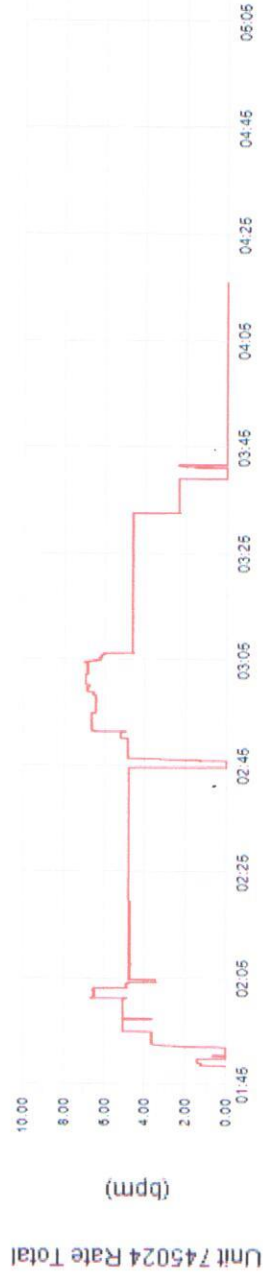
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46373



Client	Whiting Petroleum Corp.	Client Rep	Mr. Tyler Renton	Supervisor	Matthew Maguire
Ticket No.	9189341	Well Name	Razor 27J-2210B	Unit No.	745024
Location	Sec 27:T10N:R58W	Job Type	Intermediate Casing	Service District	505
Comments	Fill lines w/ 2 bbls, PT 3000psi, 10 bbls fresh ahead, 20 bbls visweep + barite, Lead: 465 sacks 1-2-6 G cement (WR = 10.14, Y = 1.89, D = 12.5, Sk Wt = 97.68) 156.5 bbls slurry (112.5 bbls mix h2o), Tail: 185 sacks 1-1-0 G cement (WR = 7.12, Y = 1.52, D = 13.5, Sk Wt = 91.91) 50.1 bbls slurry (31.4 bbls mix h2o), stop, drop plug, 225.7 bbls displacement, bump plug @1636psi, hold pressure 1 min, bleed back, .5 bbls back, 1500psi for 30 min casing test, bleed back @1630psi, 1 bbl back stop. 35 bbls cement back to surface. Top of Tail cement @48818 ft.				
				Job Date	09/10/2014





Cement Summary

Well Name: RAZOR 27J-2210B

Well Information

API Number 051233806500		WPC ID 1CO076898		Field Name Wildcat		KB-Grd (ft) 21.00		Original Spud Date 9/5/2014	
Lot	Quarter 1 NW	Quarter 2 SE	Quarter 3	Quarter 4	Section 27	Township 10 N	Range 58 W	County Weld	State CO
Section		Township		Block		Survey		Abstract	

Wellbores

Wellbore Name Original Hole		Profile Type Lateral/Horizontal		Kick Off Depth (ftKB) 5,107.0	
Section Des		Size (in)		Act Top (ftKB)	
Conductor		24		21.0	
Surface		13 1/2		80.0	
Intermediate		8 3/4		1,611.0	
Lateral		6 1/8		6,150.0	
Wellbore Name Sidetrack 1		Profile Type Lateral/Horizontal		Kick Off Depth (ftKB) 10,205.0	
Section Des		Size (in)		Act Top (ftKB)	
Lateral		6 1/8		10,205.0	

Wellheads

Type Flanged	Install Date
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Intermediate Casing Cement

Cementing Start Date	9/10/2014 01:30	Cementing End Date	9/10/2014 03:30	Wellbore	Original Hole
Evaluation Method	Returns to Surface			Cement Evaluation Results	
Comment					

Stage #1

Top Depth (ftKB) 21.0	Bottom Depth (ftKB) 6,129.8	Full Return? Yes	Vol Cement Ret (bbl) 35.0	Top Plug? No	Bottom Plug? Yes
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 5	Avg Pump Rate (bbl/min) 5		Final Pump Pressure (psi) 1,200.0	Plug Bump Pressure (psi) 1,636.0
Pipe Reciprocated? No	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)		Pipe Rotated? No	Pipe RPM (rpm)
Tagged Depth (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)	Drill Out Date

Vis sweep

Fluid Type Vis sweep	Fluid Description Fresh water	Amount (sacks)	Class	Volume Pumped (bbl) 20.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Mix H2O Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 10.00	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)

Lead Cement

Fluid Type Lead Cement	Fluid Description 1:1:6 G, Density = 12.5 lb/gal, +0.5% of CFL-4 preblend, +0.2 % of CFR preblend, +6 % of gel preblend, +0.15% of LTR preblend, +0.25 % of polyflake preblend	Amount (sacks) 465	Class G	Volume Pumped (bbl) 156.5
Estimated Top (ftKB) 21.0	Estimated Bottom Depth (ftKB) 4,818.0	Percent Excess Pumped (%) 35.0	Yield (ft ³ /sack) 1.89	Mix H2O Ratio (gal/sack) 10.14
Free Water (%)	Density (lb/gal) 12.50	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)

Tail Cement

Fluid Type Tail Cement	Fluid Description 1:1:0 G, Density = 13.5 lb/gal, +0.7 % of CFL-3 preblend, +8 % of silifume preblend, +2 % of gel preblend, +0.3 % of LTR preblend, +0.25 % of polyflake preblend, +0.1 % of CFR-5 preblend	Amount (sacks) 185	Class G	Volume Pumped (bbl) 50.1
Estimated Top (ftKB) 4,818.0	Estimated Bottom Depth (ftKB) 6,129.8	Percent Excess Pumped (%) 35.0	Yield (ft ³ /sack) 1.52	Mix H2O Ratio (gal/sack) 7.12
Free Water (%)	Density (lb/gal) 13.50	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)



Cement Summary

Well Name: RAZOR 27J-2210B

Well Information

API Number 051233806500				WPC ID 1CO076898				Field Name Wildcat				KB-Grd (ft) 21.00		Original Spud Date 9/5/2014	
Lot	Quarter 1 NW	Quarter 2 SE	Quarter 3	Quarter 4	Section 27	Township 10	Twtnshp... N	Range 58	Rng E/... W	County Weld	State CO	Well Configuration Type Lateral/Horizontal			
Section		Township			Block		Survey					Abstract			

Displacement

Fluid Type Displacement	Fluid Description Drilling Mud	Amount (sacks)	Class	Volume Pumped (bbl) 225.7
Estimated Top (ftKB) 21.0	Estimated Bottom Depth (ftKB) 6,084.4	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Mix H2O Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 10.30	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)



Cement Summary

Well Name: RAZOR 27J-2210B

Well Information

API Number 051233806500				WPC ID 1CO076898			Field Name Wildcat			KB-Grd (ft) 21.00		Original Spud Date 9/5/2014	
Lot	Quarter 1 NW	Quarter 2 SE	Quarter 3	Quarter 4	Section 27	Township 10 N	Twnshp... Range	Rng E/... 58 W	County Weld	State CO	Well Configuration Type Lateral/Horizontal		
Section		Township			Block		Survey			Abstract			

Wellbores

Wellbore Name Original Hole		Profile Type Lateral/Horizontal		Kick Off Depth (ftKB)	
Section Des		Size (in)		Act Top (ftKB)	
Conductor		24		21.0	
Surface		13 1/2		80.0	
Intermediate		8 3/4		1,611.0	
Lateral		6 1/8		6,150.0	
Wellbore Name Sidetrack 1		Profile Type Lateral/Horizontal		Kick Off Depth (ftKB)	
Section Des		Size (in)		Act Top (ftKB)	
Lateral		6 1/8		10,205.0	
				Act Btm (ftKB)	
				11,675.0	

Wellheads

Type Flanged	Install Date
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Intermediate Casing Cement

Cementing Start Date	9/10/2014 01:30	Cementing End Date	9/10/2014 03:30	Wellbore	Original Hole
Evaluation Method	Returns to Surface			Cement Evaluation Results	
Comment					
35 bbl's back to surface					

Stage #1

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
21.0	6,129.8	Yes	35.0	No	Yes
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)		Final Pump Pressure (psi)	Plug Bump Pressure (psi)
5	5	5		1,200.0	1,636.0
Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)	
No			No		
Tagged Depth (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date	

Vis sweep

Fluid Type Vis sweep	Fluid Description Fresh water	Amount (sacks)	Class	Volume Pumped (bbl)
				20.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)
	10.00			

Lead Cement

Fluid Type Lead Cement	Fluid Description 1:1:6 G, Density = 12.5 lb/gal, +0.5% of CFL-4 preblend, +0.2 % of CFR preblend, +6 % of gel preblend, +0.15% of LTR preblend, +0.25 % of polyflake preblend	Amount (sacks)	Class	Volume Pumped (bbl)
		465	G	156.5
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)
21.0	4,818.0	35.0	1.89	10.14
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)
	12.50			

Tail Cement

Fluid Type Tail Cement	Fluid Description 1:1:0 G, Density = 13.5 lb/gal, +0.7 % of CFL-3 preblend, +8 % of silifume preblend, +2 % of gel preblend, +0.3 % of LTR preblend, +0.25 % of polyflake preblend, +0.1 % of CFR-5 preblend	Amount (sacks)	Class	Volume Pumped (bbl)
		185	G	50.1
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)
4,818.0	6,129.8	35.0	1.52	7.12
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)
	13.50			



Cement Summary

Well Name: RAZOR 27J-2210B

Well Information

API Number 051233806500				WPC ID 1CO076898				Field Name Wildcat				KB-Grd (ft) 21.00		Original Spud Date 9/5/2014	
Lot	Quarter 1 NW	Quarter 2 SE	Quarter 3	Quarter 4	Section 27	Township 10	Twtnshp... N	Range 58	Rng E/... W	County Weld	State CO	Well Configuration Type Lateral/Horizontal			
Section		Township		Block		Survey						Abstract			

Displacement

Fluid Type Displacement	Fluid Description Drilling Mud	Amount (sacks)	Class	Volume Pumped (bbl) 225.7
Estimated Top (ftKB) 21.0	Estimated Bottom Depth (ftKB) 6,084.4	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Mix H2O Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 10.30	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)