



Cement Summary

Well Name: RAZOR 11G-0210B

Well Information

API Number 051233873000				WPC ID 1CO0761181			Field Name Wildcat			KB-Grd (ft) 17.00		Original Spud Date 3/3/2015	
Lot	Quarter 1 SW	Quarter 2 NE	Quarter 3	Quarter 4	Section 11	Township 10	Twnshp... N	Range 58	Rng E/... W	County Weld	State CO	Well Configuration Type Lateral/Horizontal	
Section		Township		Block		Survey					Abstract		

Wellbores

Wellbore Name		Profile Type		Kick Off Depth (ftKB)	
Original Hole		Lateral/Horizontal		5,640.0	
Section Des		Size (in)	Act Top (ftKB)		Act Btm (ftKB)
Conductor		20	17.0		97.0
Surface		13 1/2	97.0		1,890.0
Intermediate		8 3/4	1,890.0		6,550.0
Lateral		6 1/2	6,550.0		8,160.0
Wellbore Name		Profile Type		Kick Off Depth (ftKB)	
Sidetrack 1		Lateral/Horizontal			
Section Des		Size (in)	Act Top (ftKB)		Act Btm (ftKB)
Sidetrack 1		6 1/2	7,579.0		7,579.0

Wellheads

Type	Install Date

Intermediate Casing Cement

Cementing Start Date	Cementing End Date	Wellbore
3/7/2015 21:00	3/7/2015 23:30	Original Hole
Evaluation Method	Cement Evaluation Results	
Returns to Surface	45 bbls returned to surface	
Comment		

Stage #1

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
17.0	6,533.8	No	45.0	Yes	No
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)	
6	2	5	1,803.0	2,572.0	
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	

Spacer

Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)
Spacer	Spacer			20.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)
17.0	1,869.0	20.0	1.15	12.06
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.30			

Lead Cement

Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)
Lead Cement	12.5 ppg Cement	381	Type 111	102.8
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)
17.0	1,869.0	20.0	1.15	12.06
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)
	12.50			

Tail Cement

Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)
Tail Cement	13.8 PPG	182	Class G	33.6
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)
1,869.0	6,533.8	20.0	1.72	7.94
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)
	13.80			

Displacement

Fluid Type	Fluid Description	Amount (sacks)	Class	Volume Pumped (bbl)
Displacement	45 bbls cement returned to surface		Drilling mud	243.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)
17.0				
Free Water (%)	Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)
	9.00			