

| Lease Review All | | | | | | | | | | | | | | |
|--|--|------------------------------|------------------------------|--|-----------------------------------|---------------|---|--------------------------------------|----------------------------|--------------------------|--------------------------------|--------------------|------------------------|----------------|
| Well Name: RAZOR 11-0241H | | | | | | | | | | | | | | |
| API Number 051233605700 | | WPC ID 1CO076860 | | | Well Permit Number | | | Field Name DJ Horizontal Niobrara | | | County Weld | | State CO | |
| Well Configuration Type Lateral/Horizontal | | | Orig KB Elv (ft) 4,970.70 | | Ground Elevation (ft) 4,954.20 | | Casing Flange Elevation (ft) | | Tubing Head Elevation (ft) | | Total Depth (ftKB) 12,562.0 | | | |
| Original Spud Date 11/27/2012 | | Completion Date 3/14/2013 | | Asset Group Central Rockies Asset Group | | | Responsible Engineer Gary Nordlander | | | N/S Dist (ft) 2,220.0 | | N/S Ref FNL | E/W Dist (ft) 610.0 | E/W Ref FEL |
| Lot | | Quarter 1 SE | Quarter 2 NE | Quarter 3 | Quarter 4 | Section 11 | Section Suffix | Section Type | Township 10 | Township N/S Dir N | Range 58 | Range E/W Dir W | Meridian 6TH | |
| Lateral/Horizontal - Original Hole, 5/21/2013 1:30:59 PM | | | | | | | | | | | | | | |
| Wellbore Sections | | | | | | | | | | | | | | |
| | | TV D (ftKB) | In cl (°) | Vertical schematic (actual) | | | | | Logs | | | | | |
| MD (ftKB) | | | | | | | | | | | | | | |
| 18.4 | | 18.4 | 0.2 | | | | | | | | | | | |
| 1,890.1 | | 1,889.3 | 2.6 | | | | | | | | | | | |
| 2,798.9 | | 2,797.5 | 2.5 | | | | | | | | | | | |
| 4,984.9 | | 4,982.5 | 1.9 | | | | | | | | | | | |
| 5,006.9 | | 5,004.5 | 2.5 | | | | | | | | | | | |
| 5,142.7 | | 5,140.1 | 3.5 | | | | | | | | | | | |
| 6,258.2 | | 5,941.1 | 86.3 | | | | | | | | | | | |
| 6,315.0 | | 5,942.6 | 89.5 | | | | | | | | | | | |
| 6,537.1 | | 5,939.4 | 90.4 | | | | | | | | | | | |
| 6,741.5 | | 5,939.1 | 90.4 | | | | | | | | | | | |
| 6,933.4 | | 5,937.6 | 88.7 | | | | | | | | | | | |
| 7,047.6 | | 5,940.3 | 89.8 | | | | | | | | | | | |
| 7,240.2 | | 5,940.4 | 89.6 | | | | | | | | | | | |
| 7,354.3 | | 5,940.8 | 90.0 | | | | | | | | | | | |
| 7,456.4 | | 5,941.3 | 89.4 | | | | | | | | | | | |
| 7,660.8 | | 5,942.0 | 88.9 | | | | | | | | | | | |
| 7,853.0 | | 5,944.3 | 90.6 | | | | | | | | | | | |
| 7,967.5 | | 5,943.6 | 90.1 | | | | | | | | | | | |
| 8,160.1 | | 5,942.9 | 90.3 | | | | | | | | | | | |
| 8,273.9 | | 5,942.5 | 90.2 | | | | | | | | | | | |
| 8,466.9 | | 5,943.0 | 89.4 | | | | | | | | | | | |
| 8,670.9 | | 5,945.8 | 88.8 | | | | | | | | | | | |
| 8,773.6 | | 5,947.5 | 90.2 | | | | | | | | | | | |
| 8,887.8 | | 5,946.3 | 90.8 | | | | | | | | | | | |
| 9,080.1 | | 5,949.7 | 88.4 | | | | | | | | | | | |
| 9,182.4 | | 5,953.3 | 88.2 | | | | | | | | | | | |
| 9,296.9 | | 5,956.6 | 88.2 | | | | | | | | | | | |
| 9,489.5 | | 5,962.8 | 88.2 | | | | | | | | | | | |
| 9,603.7 | | 5,966.0 | 88.8 | | | | | | | | | | | |
| 9,808.1 | | 5,970.6 | 88.7 | | | | | | | | | | | |
| 9,911.1 | | 5,972.2 | 89.3 | | | | | | | | | | | |
| 10,114.8 | | 5,975.9 | 89.3 | | | | | | | | | | | |
| 10,307.4 | | 5,976.7 | 89.8 | | | | | | | | | | | |
| 10,409.8 | | 5,976.8 | 90.2 | | | | | | | | | | | |
| 10,524.3 | | 5,975.5 | 91.6 | | | | | | | | | | | |
| 10,716.9 | | 5,972.3 | 90.7 | | | | | | | | | | | |
| 10,831.0 | | 5,969.3 | 92.0 | | | | | | | | | | | |
| 11,023.3 | | 5,969.5 | 93.0 | | | | | | | | | | | |
| 11,137.8 | | 5,963.9 | 92.9 | | | | | | | | | | | |
| 11,330.1 | | 5,946.9 | 91.3 | | | | | | | | | | | |
| 11,444.6 | | 5,943.9 | 91.4 | | | | | | | | | | | |
| 11,502.0 | | 5,942.7 | 91.0 | | | | | | | | | | | |
| 11,661.1 | | 5,941.7 | 90.5 | | | | | | | | | | | |
| 11,809.1 | | 5,939.7 | 91.0 | | | | | | | | | | | |
| 11,922.9 | | 5,938.2 | 89.8 | | | | | | | | | | | |
| 12,082.3 | | 5,940.6 | 89.7 | | | | | | | | | | | |
| 12,139.4 | | 5,940.8 | 89.9 | | | | | | | | | | | |
| 12,287.1 | | 5,940.2 | 89.4 | | | | | | | | | | | |
| 12,445.9 | | 5,939.7 | 91.2 | | | | | | | | | | | |
| 12,503.3 | | 5,938.2 | 91.7 | | | | | | | | | | | |
| 12,562.0 | | 5,936.4 | 91.8 | | | | | | | | | | | |



Lease Review All
Well Name: RAZOR 11-0241H

| | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------|------------------------------|-----------|--|--------------------|-----------------------------------|---|--------------------------------------|------------------|--------------------------|----------------------------|----------------|--------------------------------|------------------------|---------------|----------------|-----------------|--|--|
| API Number 051233605700 | | | WPC ID 1C0076860 | | | Well Permit Number | | | Field Name DJ Horizontal Niobrara | | | County Weld | | State CO | | | | | | |
| Well Configuration Type Lateral/Horizontal | | | | | Orig KB Elv (ft) 4,970.70 | | Ground Elevation (ft) 4,954.20 | | Casing Flange Elevation (ft) | | | Tubing Head Elevation (ft) | | Total Depth (ftKB) 12,562.0 | | | | | | |
| Original Spud Date 11/27/2012 | | | Completion Date 3/14/2013 | | Asset Group Central Rockies Asset Group | | | Responsible Engineer Gary Nordlander | | | N/S Dist (ft) 2,220.0 | | N/S Ref FNL | | E/W Dist (ft) 610.0 | | E/W Ref FEL | | | |
| Lot | | Quarter 1 SE | Quarter 2 NE | Quarter 3 | Quarter 4 | Section 11 | Section Suffix | Section Type | | Township 10 N | | Township N/S Dir | | Range 58 W | | Range E/W Dir | | Meridian 6TH | | |
| Lateral/Horizontal - Original Hole, 5/21/2013 1:31:02 PM | | | | | | | | OD (in) | Wt (lb/ft) | Grade | Top (ftKB) | Btm (ftKB) | Len (ft) | Item Des | | | | | | |
| MD (ftKB) | TV D (ftKB) | In cl (°) | Vertical schematic (actual) | | | | Logs | 4 1/2 | 11.60 | Seah-90 | 8,376.7 | 8,466.9 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 8,466.9 | 8,478.9 | 12.03 | Frac Sleeve | | | | | | |
| 18.4 | 18.4 | 0.2 | | | | | | 4 1/2 | 11.60 | Seah-90 | 8,478.9 | 8,569.0 | 90.15 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 8,569.0 | 8,581.2 | 12.12 | Swell Packer | | | | | | |
| 1,890.1 | 1,889.3 | 2.6 | | | | | | 4 1/2 | 11.60 | Seah-90 | 8,581.2 | 8,671.3 | 90.17 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 8,671.3 | 8,683.4 | 12.03 | Frac Sleeve | | | | | | |
| 2,798.9 | 2,797.5 | 2.5 | | | | | | 4 1/2 | 11.60 | Seah-90 | 8,683.4 | 8,773.5 | 90.13 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 8,773.5 | 8,785.6 | 12.12 | Swell Packer | | | | | | |
| 4,984.9 | 4,982.5 | 1.9 | | | | | | 4 1/2 | 11.60 | Seah-90 | 8,785.6 | 8,875.8 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 8,875.8 | 8,887.8 | 12.03 | Frac Sleeve | | | | | | |
| 5,006.9 | 5,004.5 | 2.5 | | | | | | 4 1/2 | 11.60 | Seah-90 | 8,887.8 | 8,978.0 | 90.18 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 8,978.0 | 8,990.1 | 12.12 | Swell Packer | | | | | | |
| 5,142.7 | 5,140.1 | 3.5 | | | | | | 4 1/2 | 11.60 | Seah-90 | 8,990.1 | 9,080.3 | 90.20 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,080.3 | 9,092.4 | 12.03 | Frac Sleeve | | | | | | |
| 6,258.2 | 5,941.1 | 86.3 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,092.4 | 9,182.5 | 90.17 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,182.5 | 9,194.7 | 12.12 | Swell Packer | | | | | | |
| 6,315.0 | 5,942.6 | 89.5 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,194.7 | 9,284.8 | 90.18 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,284.8 | 9,296.9 | 12.03 | Frac Sleeve | | | | | | |
| 6,537.1 | 5,939.4 | 90.4 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,296.9 | 9,387.1 | 90.20 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,387.1 | 9,399.2 | 12.12 | Swell Packer | | | | | | |
| 6,741.5 | 5,939.1 | 90.4 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,399.2 | 9,489.4 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,489.4 | 9,501.4 | 12.03 | Frac Sleeve | | | | | | |
| 6,933.4 | 5,937.6 | 88.7 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,501.4 | 9,591.6 | 90.20 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,591.6 | 9,603.7 | 12.12 | Swell Packer | | | | | | |
| 7,047.6 | 5,940.3 | 89.8 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,603.7 | 9,693.9 | 90.16 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,693.9 | 9,705.9 | 12.03 | Frac Sleeve | | | | | | |
| 7,240.2 | 5,940.4 | 89.6 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,705.9 | 9,796.1 | 90.20 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,796.1 | 9,808.2 | 12.12 | Swell Packer | | | | | | |
| 7,354.3 | 5,940.8 | 90.0 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,808.2 | 9,898.4 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 9,898.4 | 9,910.5 | 12.03 | Frac Sleeve | | | | | | |
| 7,456.4 | 5,941.3 | 89.4 | | | | | | 4 1/2 | 11.60 | Seah-90 | 9,910.5 | 10,000.6 | 90.17 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,000.6 | 10,012.7 | 12.12 | Swell Packer | | | | | | |
| 7,660.8 | 5,942.0 | 88.9 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,012.7 | 10,103.0 | 90.21 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,103.0 | 10,115.0 | 12.03 | Frac Sleeve | | | | | | |
| 7,853.0 | 5,944.3 | 90.6 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,115.0 | 10,205.2 | 90.21 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,205.2 | 10,217.3 | 12.12 | Swell Packer | | | | | | |
| 7,967.5 | 5,943.6 | 90.1 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,217.3 | 10,307.5 | 90.21 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,307.5 | 10,319.6 | 12.03 | Frac Sleeve | | | | | | |
| 8,160.1 | 5,942.9 | 90.3 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,319.6 | 10,409.7 | 90.18 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,409.7 | 10,421.9 | 12.12 | Swell Packer | | | | | | |
| 8,273.9 | 5,942.5 | 90.2 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,421.9 | 10,512.1 | 90.24 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,512.1 | 10,524.1 | 12.03 | Frac Sleeve | | | | | | |
| 8,466.9 | 5,943.0 | 89.4 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,524.1 | 10,614.3 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,614.3 | 10,626.4 | 12.12 | Swell Packer | | | | | | |
| 8,670.9 | 5,945.8 | 88.8 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,626.4 | 10,716.6 | 90.18 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,716.6 | 10,728.6 | 12.03 | Frac Sleeve | | | | | | |
| 8,773.6 | 5,947.5 | 90.2 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,728.6 | 10,818.8 | 90.20 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,818.8 | 10,831.0 | 12.12 | Swell Packer | | | | | | |
| 8,887.8 | 5,946.3 | 90.8 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,831.0 | 10,921.1 | 90.16 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 10,921.1 | 10,933.2 | 12.03 | Frac Sleeve | | | | | | |
| 9,080.1 | 5,949.7 | 88.4 | | | | | | 4 1/2 | 11.60 | Seah-90 | 10,933.2 | 11,023.3 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 11,023.3 | 11,035.5 | 12.12 | Swell Packer | | | | | | |
| 9,182.4 | 5,953.3 | 88.2 | | | | | | 4 1/2 | 11.60 | Seah-90 | 11,035.5 | 11,125.7 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 11,125.7 | 11,137.7 | 12.03 | Frac Sleeve | | | | | | |
| 9,296.9 | 5,956.6 | 88.2 | | | | | | 4 1/2 | 11.60 | Seah-90 | 11,137.7 | 11,227.9 | 90.18 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 11,227.9 | 11,240.0 | 12.12 | Swell Packer | | | | | | |
| 9,489.5 | 5,962.8 | 88.2 | | | | | | 4 1/2 | 11.60 | Seah-90 | 11,240.0 | 11,330.2 | 90.20 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 11,330.2 | 11,342.2 | 12.03 | Frac Sleeve | | | | | | |
| 9,603.7 | 5,966.0 | 88.8 | | | | | | 4 1/2 | 11.60 | Seah-90 | 11,342.2 | 11,432.4 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 11,432.4 | 11,444.5 | 12.12 | Swell Packer | | | | | | |
| 9,808.1 | 5,970.6 | 88.7 | | | | | | 4 1/2 | 11.60 | Seah-90 | 11,444.5 | 11,489.6 | 45.10 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 11,489.6 | 11,501.7 | 12.03 | Frac Sleeve | | | | | | |
| 9,911.1 | 5,972.2 | 89.3 | | | | | | 4 1/2 | 11.60 | Seah-90 | 11,501.7 | 11,591.8 | 90.19 | Casing Joints | | | | | | |
| | | | | | | | | 4 1/2 | | | 11,591.8 | 11,604.0 | 12.12 | Swell Packer | | | | | | |
| 10,114.8 | 5,975.9 | 89.3 | | | | | | 4 1/2 | 11.60 | Seah-90 | 11,604.0 | 11,649.0 | 45.08 | Casing Joints | | | | | | |
| 10,307.4 | 5,976.7 | 89.8 | | | 4 1/2 | 11.60 | Seah-90 | 11,649.0 | 11,661.1 | 12.03 | Frac Sleeve | | | | | | | | | |
| 10,409.8 | 5,976.8 | 90.2 | | | 4 1/2 | 11.60 | Seah-90 | 11,661.1 | 11,751.3 | 90.21 | Casing Joints | | | | | | | | | |
| 10,524.3 | 5,975.5 | 91.6 | | | 4 1/2 | 11.60 | Seah-90 | 11,751.3 | 11,763.4 | 12.12 | Swell Packer | | | | | | | | | |
| 10,716.9 | 5,972.3 | 90.7 | | | 4 1/2 | 11.60 | Seah-90 | 11,763.4 | 11,808.5 | 45.09 | Casing Joints | | | | | | | | | |
| 10,831.0 | 5,969.3 | 92.0 | | | 4 1/2 | 11.60 | Seah-90 | 11,808.5 | 11,820.5 | 12.03 | Frac Sleeve | | | | | | | | | |
| 11,023.3 | 5,959.5 | 93.0 | | | 4 1/2 | 11.60 | Seah-90 | 11,820.5 | 11,910.7 | 90.18 | Casing Joints | | | | | | | | | |
| 11,137.8 | 5,953.9 | 92.9 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 11,330.1 | 5,946.9 | 91.3 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 11,444.6 | 5,943.9 | 91.4 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 11,502.0 | 5,942.7 | 91.0 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 11,661.1 | 5,941.7 | 90.5 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 11,809.1 | 5,939.7 | 91.0 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 11,922.9 | 5,938.2 | 89.8 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 12,082.3 | 5,940.6 | 89.7 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 12,139.4 | 5,940.8 | 89.9 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 12,287.1 | 5,940.2 | 89.4 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 12,445.9 | 5,939.7 | 91.2 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 12,503.3 | 5,938.2 | 91.7 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |
| 12,562.0 | 5,936.4 | 91.8 | | | 4 1/2 | 11.60 | Seah-90 | | | | | | | | | | | | | |

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Lease Review All
Well Name: RAZOR 11-0241H

| | | | | | | | | | | | | | | | | |
|---|-----------------|------------------------------|---------------------|--|------------------------------|--------------------|---|--|--------------------------------------|--------------------------|----------------------------|--------------------|--|--------------------------------|-------------|----------------|
| API Number 051233605700 | | | WPC ID 1CO076860 | | | Well Permit Number | | | Field Name DJ Horizontal Niobrara | | | County Weld | | | State CO | |
| Well Configuration Type Lateral/Horizontal | | | | | Orig KB Elv (ft) 4,970.70 | | Ground Elevation (ft) 4,954.20 | | Casing Flange Elevation (ft) | | Tubing Head Elevation (ft) | | | Total Depth (ftKB) 12,562.0 | | |
| Original Spud Date 11/27/2012 | | Completion Date 3/14/2013 | | Asset Group Central Rockies Asset Group | | | Responsible Engineer Gary Nordlander | | | N/S Dist (ft) 2,220.0 | | N/S Ref FNL | | E/W Dist (ft) 610.0 | | E/W Ref FEL |
| Lot | Quarter 1 SE | Quarter 2 NE | Quarter 3 | Quarter 4 | Section 11 | Section Suffix | Section Type | | Township 10 | Township N/S Dir N | Range 58 | Range E/W Dir W | | Meridian 6TH | | |

| Lateral/Horizontal - Original Hole, 5/21/2013 1:31:07 PM | | | | Stim/Treat Stages | | | | | | | |
|--|---------------|-----------|-----------------------------|-------------------|---------------------------|---|------------|------------|---|----------------------|------------|
| MD (ftKB) | TV D (ftKB B) | In cl (°) | Vertical schematic (actual) | Logs | Stage Type | Start Date | Top (ftKB) | Btm (ftKB) | Stim/Treat Fluid | Vol Clean Pump (bbl) | |
| 18.4 | 18.4 | 0.2 | | | | 3/12/2013 | 9,285.0 | 9,297.0 | 19478# 40/70, 85526# 20/40, 21468# CRC 20/40, Slick Water | 2667.00 | |
| 1,890.1 | 1,889.3 | 2.6 | | | | 3/12/2013 | 9,489.0 | 9,501.0 | 19889# 40/70, 86856# 20/40, 26213# CRC 20/40, Slick Water | 2692.00 | |
| 2,798.9 | 2,797.5 | 2.5 | | | | 3/12/2013 | 9,694.0 | 9,706.0 | 21193# 40/70, 80678# 20/40, 18021# CRC 20/40, Slick Water | 2887.00 | |
| 4,984.9 | 4,982.5 | 1.9 | | | | 3/12/2013 | 9,898.0 | 9,911.0 | 21269# 40/70, 80347# 20/40, 17422# CRC 20/40, Slick Water | 2670.00 | |
| 5,006.9 | 5,004.5 | 2.5 | | | | 3/11/2013 | 10,103.0 | 10,115.0 | 19037# 40/70, 78562# 20/40, 14820# CRC 20/40, Slick Water | 2693.00 | |
| 5,142.7 | 5,140.1 | 3.5 | | | | 3/11/2013 | 10,308.0 | 10,320.0 | 19131# 40/70, 86851# 20/40, 20060# CRC 20/40, Slick Water | 2690.00 | |
| 6,258.2 | 5,941.1 | 86.3 | | | | 3/11/2013 | 10,512.0 | 10,524.0 | 20455# 40/70, 80322# 20/40, 21433# CRC 20/40, Slick Water | 2714.00 | |
| 6,315.0 | 5,942.6 | 89.5 | | | | 3/11/2013 | 10,717.0 | 10,729.0 | 20478# 40/70, 81491# 20/40, 20478# CRC 20/40, Slick Water | 2697.00 | |
| 6,537.1 | 5,939.4 | 90.4 | | | | 3/11/2013 | 10,921.0 | 10,933.0 | 20148# 40/70, 77695# 20/40, 18093# CRC 20/40, Slick Water | 2683.00 | |
| 6,741.5 | 5,938.1 | 90.4 | | | | 3/11/2013 | 11,126.0 | 11,138.0 | 23005# 40/70, 81681# 20/40, 20691# CRC 20/40, Slick Water | 2671.00 | |
| 6,933.4 | 5,937.6 | 88.7 | | | | 3/11/2013 | 11,330.0 | 11,342.0 | 18830# 40/70, 80651# 20/40, 20444# CRC 20/40, Slick Water | 2685.00 | |
| 7,047.6 | 5,940.3 | 89.8 | | | | 3/11/2013 | 11,490.0 | 11,502.0 | 19481# 40/70, 80878# 20/40, 20293# CRC 20/40, Slick Water | 2687.00 | |
| 7,240.2 | 5,940.4 | 89.6 | | | | 3/11/2013 | 11,649.0 | 11,661.0 | 19981# 40/70, 82228# 20/40, 20777# CRC 20/40, Slick Water | 2694.00 | |
| 7,354.3 | 5,940.8 | 90.0 | | | | 3/11/2013 | 11,809.0 | 11,821.0 | 19119# 40/70, 0# 20/40, 0# CRC 20/40, Slick Water | 1663.00 | |
| 7,456.4 | 5,941.3 | 89.4 | | | | 3/11/2013 | 11,968.0 | 11,980.0 | 22074# 40/70, 83576# 20/40, 0# CRC 20/40, Slick Water | 2875.00 | |
| 7,660.8 | 5,942.0 | 88.9 | | | | 3/11/2013 | 12,127.0 | 12,139.0 | 20087# 40/70, 60189# 20/40, 0# CRC 20/40, Slick Water | 2533.00 | |
| 7,853.0 | 5,943.3 | 90.6 | | | | 3/11/2013 | 12,287.0 | 12,299.0 | 18376# 40/70, 83337# 20/40, 18293# CRC 20/40, Slick Water | 2908.00 | |
| 7,967.5 | 5,943.6 | 90.1 | | | | 3/11/2013 | 12,446.0 | 12,458.0 | 18645# 40/70, 37609# 20/40, 0# CRC 20/40, Slick Water | 3481.00 | |
| 8,160.1 | 5,942.9 | 90.3 | | | | Tubing - Production set at 5,011.4ftKB on 4/24/2013 00:00 | | | | | |
| 8,273.9 | 5,942.5 | 90.2 | | | | Set Depth (ftKB) | Comment | | Run Date | Pull Date | |
| 8,466.9 | 5,943.0 | 89.4 | | | | 5,011.4 | | | 4/24/2013 | | |
| 8,670.9 | 5,945.8 | 88.8 | | | | Item Des | OD (in) | ID (in) | Len (ft) | Top (ftKB) | Btm (ftKB) |
| 8,773.6 | 5,947.5 | 90.2 | | | | Tubing Hanger | 4 | 2.441 | 0.50 | -0.5 | 0.0 |
| 8,887.8 | 5,946.3 | 90.8 | | | | Tubing | 2 7/8 | 2.441 | 4,984.90 | 0.0 | 4,984.9 |
| 9,080.1 | 5,949.7 | 88.4 | | | | Tubing Sub | 2 7/8 | 2.441 | 6.00 | 4,984.9 | 4,990.9 |
| 9,182.4 | 5,953.3 | 88.2 | | | | Hydraulic Pump | 2 7/8 | 2.441 | 4.00 | 4,990.9 | 4,994.9 |
| 9,296.9 | 5,956.6 | 88.2 | | | | Tubing Sub | 2 7/8 | 2.441 | 6.00 | 4,994.9 | 5,000.9 |
| 9,489.5 | 5,962.8 | 88.2 | | | | Packer | 6.184 | 2.441 | 6.00 | 5,000.9 | 5,006.9 |
| 9,603.7 | 5,966.0 | 88.8 | | | | Tubing Sub | 2 7/8 | 2.441 | 4.00 | 5,006.9 | 5,010.9 |
| 9,808.1 | 5,970.6 | 88.7 | | | | Barred Collar | 2 7/8 | 2.441 | 0.50 | 5,010.9 | 5,011.4 |
| 9,911.1 | 5,972.2 | 89.3 | | | <des> on <dtmrun> | | | | | | |
| 10,114.8 | 5,975.9 | 89.3 | | | Rod Description | Run Date | | Pull Date | | | |
| 10,307.4 | 5,976.7 | 89.8 | | | Item Des | OD (in) | Len (ft) | Top (ftKB) | Btm (ftKB) | | |
| 10,409.8 | 5,976.8 | 90.2 | | | | | | | | | |
| 10,524.3 | 5,975.5 | 91.6 | | | Other String Components | | | | | | |
| 10,716.9 | 5,972.3 | 90.7 | | | Item Des | OD (in) | Len (ft) | Top (ftKB) | Btm (ftKB) | | |
| 10,831.0 | 5,969.3 | 92.0 | | | | | | | | | |
| 11,023.3 | 5,959.5 | 93.0 | | | Other In Hole | | | | | | |
| 11,137.8 | 5,953.9 | 92.9 | | | Des | OD (in) | Run Date | Pull Date | Top (ftKB) | Btm (ftKB) | |
| 11,330.1 | 5,946.9 | 91.3 | | | Cast Iron Cement Retainer | 6.184 | 2/26/2013 | 2/28/2013 | 2,740.0 | 2,741.0 | |
| 11,444.6 | 5,943.9 | 91.4 | | | Cast Iron Cement Retainer | 6.184 | 2/12/2013 | 2/14/2013 | 2,750.0 | 2,751.0 | |
| 11,502.0 | 5,942.7 | 91.0 | | | | | | | | | |
| 11,661.1 | 5,941.7 | 90.5 | | | | | | | | | |
| 11,809.1 | 5,939.7 | 91.0 | | | | | | | | | |
| 11,922.9 | 5,938.2 | 89.8 | | | | | | | | | |
| 12,082.3 | 5,940.6 | 89.7 | | | | | | | | | |
| 12,139.4 | 5,940.8 | 89.9 | | | | | | | | | |
| 12,287.1 | 5,940.2 | 89.4 | | | | | | | | | |
| 12,445.9 | 5,939.7 | 91.2 | | | | | | | | | |
| 12,503.3 | 5,938.2 | 91.7 | | | | | | | | | |
| 12,562.0 | 5,936.4 | 91.8 | | | | | | | | | |



Lease Review All
Well Name: RAZOR 11-0241H

| | | | | | | | | | | | | | |
|---|-----------------|------------------------------|-----------|--|---------------|--------------------------------------|---|------------------------------|--------------------------|----------------------------|--------------------|--------------------------------|----------------|
| API Number 051233605700 | | WPC ID 1CO076860 | | Well Permit Number | | Field Name DJ Horizontal Niobrara | | | County Weld | | State CO | | |
| Well Configuration Type Lateral/Horizontal | | | | Orig KB Elv (ft) 4,970.70 | | Ground Elevation (ft) 4,954.20 | | Casing Flange Elevation (ft) | | Tubing Head Elevation (ft) | | Total Depth (ftKB) 12,562.0 | |
| Original Spud Date 11/27/2012 | | Completion Date 3/14/2013 | | Asset Group Central Rockies Asset Group | | | Responsible Engineer Gary Nordlander | | N/S Dist (ft) 2,220.0 | | N/S Ref FNL | E/W Dist (ft) 610.0 | E/W Ref FEL |
| Lot | Quarter 1 SE | Quarter 2 NE | Quarter 3 | Quarter 4 | Section 11 | Section Suffix | Section Type | Township 10 N | Township N/S Dir | Range 58 | Range E/W Dir W | Meridian 6TH | |

Lateral/Horizontal - Original Hole, 5/21/2013 1:31:10 PM

| Other In Hole | | | | | |
|---------------------------|---------|------------|-----------|------------|------------|
| Des | OD (in) | Run Date | Pull Date | Top (ftKB) | Btm (ftKB) |
| Cast Iron Cement Retainer | 6.184 | 2/21/2013 | 2/22/2013 | 2,750.0 | 2,751.0 |
| Cast Iron Cement Retainer | 6.184 | 2/18/2013 | 2/20/2013 | 2,760.0 | 2,761.0 |
| Retrievable Bridge Plug | 6.184 | 2/11/2013 | 3/1/2013 | 2,920.0 | 2,921.0 |
| Bridge Plug - Temporary | 6 1/4 | 12/18/2012 | 3/4/2013 | 5,030.0 | 5,037.0 |

| Bottom Hole Cores | | | | |
|-------------------|--------|------------|------------|------------|
| Date | Core # | Top (ftKB) | Btm (ftKB) | Recov (ft) |
| | | | | |

| MD (ftKB) | TV D (ftKB) | In cl (°) | Vertical schematic (actual) | Logs |
|-----------|-------------|-----------|-----------------------------|------|
| 18.4 | 18.4 | 0.2 | | |
| 1,890.1 | 1,889.3 | 2.6 | | |
| 2,798.9 | 2,797.5 | 2.5 | | |
| 4,984.9 | 4,982.5 | 1.3 | | |
| 5,006.9 | 5,004.5 | 2.5 | | |
| 5,142.7 | 5,140.1 | 3.5 | | |
| 6,258.2 | 5,941.1 | 86.3 | | |
| 6,315.0 | 5,942.6 | 89.5 | | |
| 6,537.1 | 5,939.4 | 90.4 | | |
| 6,741.5 | 5,938.1 | 90.4 | | |
| 6,933.4 | 5,937.6 | 88.7 | | |
| 7,047.6 | 5,940.3 | 89.8 | | |
| 7,240.2 | 5,940.4 | 89.6 | | |
| 7,354.3 | 5,940.8 | 90.0 | | |
| 7,456.4 | 5,941.3 | 89.4 | | |
| 7,660.8 | 5,942.0 | 88.9 | | |
| 7,853.0 | 5,944.3 | 90.6 | | |
| 7,967.5 | 5,943.6 | 90.1 | | |
| 8,160.1 | 5,942.9 | 90.3 | | |
| 8,273.9 | 5,942.5 | 90.2 | | |
| 8,466.9 | 5,943.0 | 89.4 | | |
| 8,670.9 | 5,945.8 | 88.8 | | |
| 8,773.6 | 5,947.5 | 90.2 | | |
| 8,887.8 | 5,946.3 | 90.8 | | |
| 9,080.1 | 5,949.7 | 88.4 | | |
| 9,182.4 | 5,953.3 | 88.2 | | |
| 9,296.9 | 5,956.6 | 88.2 | | |
| 9,489.5 | 5,962.8 | 88.2 | | |
| 9,603.7 | 5,966.0 | 88.8 | | |
| 9,808.1 | 5,970.6 | 88.7 | | |
| 9,911.1 | 5,972.2 | 89.3 | | |
| 10,114.8 | 5,975.9 | 89.3 | | |
| 10,307.4 | 5,976.7 | 89.8 | | |
| 10,409.8 | 5,976.8 | 90.2 | | |
| 10,524.3 | 5,975.5 | 91.6 | | |
| 10,716.9 | 5,972.3 | 90.7 | | |
| 10,831.0 | 5,969.3 | 92.0 | | |
| 11,023.3 | 5,969.5 | 93.0 | | |
| 11,137.8 | 5,963.9 | 92.9 | | |
| 11,330.1 | 5,946.9 | 91.3 | | |
| 11,444.6 | 5,943.9 | 91.4 | | |
| 11,502.0 | 5,942.7 | 91.0 | | |
| 11,661.1 | 5,941.7 | 90.5 | | |
| 11,809.1 | 5,939.7 | 91.0 | | |
| 11,922.9 | 5,938.2 | 89.8 | | |
| 12,082.3 | 5,940.6 | 89.7 | | |
| 12,139.4 | 5,940.8 | 89.9 | | |
| 12,287.1 | 5,940.2 | 89.4 | | |
| 12,445.9 | 5,939.7 | 91.2 | | |
| 12,503.3 | 5,938.2 | 91.7 | | |
| 12,562.0 | 5,936.4 | 91.8 | | |