

Lease Review All CR														
Well Name: RAZOR 27L-3404B														
API Number 051233774400		WPC ID 1CO076886			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,772.30		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,490.0			
Original Spud Date 8/11/2013		Completion Date 8/24/2013		Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,447.0		N/S Ref FSL	E/W Dist (ft) 726.0	E/W Ref FWL
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian 6TH	
Lateral/Horizontal - Original Hole, 2/21/2014 11:43:42 AM														
Wellbore Sections														
Wellbore Name		Start Date		Size (in)		Act Top (ftKB)		Act Btm (ftKB)						
Original Hole		8/5/2013		24		17.3		80.0						
Original Hole		8/11/2013		13 1/2		80.0		1,569.0						
Original Hole		8/13/2013		8 3/4		1,569.0		6,092.0						
Original Hole		8/16/2013		6		6,092.0		12,490.0						
Conductor Pipe, 80.0ftKB														
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des		
16		75.00		J-55		17.3		80.0		62.70		Casing Joints		
Surface Csg, 1,554.4ftKB														
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des		
9 5/8		36.00		J-55		17.4		1,330.4		1,313.00		JT 9.625" 36# J-55 LTC		
9 5/8		36.00		J-55		1,330.4		1,374.5		44.10		JT 9.625" 36# J-55 LTC		
9 5/8		36.00		J-55		1,374.5		1,507.0		132.59		JT 9.625" 36# J-55 LTC		
9 5/8		36.00		J-55		1,507.0		1,508.5		1.50		9.625" FLOAT COLLAR		
9 5/8		36.00		J-55		1,508.5		1,552.9		44.36		JT 9.625" 36# J-55 LTC		
9 5/8		36.00		J-55		1,552.9		1,554.4		1.50		9.625" DV FLOAT SHOE		
Frac String, 5,009.0ftKB														
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des		
4 1/2		15.10		P-110		8.1		39.7		31.66		Casing Joints		
4 1/2		15.10		P-110		39.7		43.7		3.96		Pup Joint		
4 1/2		15.10		P-110		43.7		4,991.6		4,947.92		Casing Joints		
4 1/2		15.10		P-110		4,991.6		4,997.6		5.97		Pup Joint		
0.0						4,997.6		5,009.0		11.43		Baker PBR seall assembly		
Intermediate Csg, 6,082.0ftKB														
OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des		
7		29.00		L-80		17.3		17.3		0.00		Casing Joints		
7		29.00		L-80		17.3		17.3		0.00		Casing Joints		
7		29.00		L-80		17.3		17.3		0.00		LAND JOINT		
7		29.00		L-80		17.3		54.5		37.15		Casing Joints		
7		29.00		L-80		54.5		133.4		78.90		Casing Joints		
7		29.00		L-80		133.4		170.5		37.10		Casing Joints		
7		29.00		L-80		170.5		250.1		79.65		Casing Joints		
7		29.00		L-80		250.1		287.0		36.90		Casing Joints		
7		29.00		L-80		287.0		374.3		87.33		Casing Joints		
7		29.00		L-80		374.3		415.4		41.10		Casing Joints		
7		29.00		L-80		415.4		496.8		81.36		Casing Joints		
7		29.00		L-80		496.8		536.1		39.28		Casing Joints		
7		29.00		L-80		536.1		620.5		84.45		Casing Joints		
7		29.00		L-80		620.5		660.6		40.12		Casing Joints		
7		29.00		L-80		660.6		747.0		86.40		Casing Joints		
7		29.00		L-80		747.0		792.1		45.08		Casing Joints		
7		29.00		L-80		792.1		879.6		87.44		Casing Joints		
7		29.00		L-80		879.6		921.5		41.97		Casing Joints		
7		29.00		L-80		921.5		1,002.5		81.01		Casing Joints		
7		29.00		L-80		1,002.5		1,041.9		39.38		Casing Joints		
7		29.00		L-80		1,041.9		1,129.7		87.75		Casing Joints		
7		29.00		L-80		1,129.7		1,166.6		36.97		Casing Joints		
7		29.00		L-80		1,166.6		1,243.4		76.79		Casing Joints		
7		29.00		L-80		1,243.4		1,289.2		45.80		Casing Joints		
7		29.00		L-80		1,289.2		1,376.6		87.33		Casing Joints		
7		29.00		L-80		1,376.6		1,414.6		38.02		Casing Joints		
7		29.00		L-80		1,414.6		1,494.0		79.37		Casing Joints		
7		29.00		L-80		1,494.0		1,538.8		44.80		Casing Joints		
7		29.00		L-80		1,538.8		1,619.0		80.21		Casing Joints		
7		29.00		L-80		1,619.0		1,662.8		43.85		Casing Joints		
7		29.00		L-80		1,662.8		1,746.1		83.30		Casing Joints		
7		29.00		L-80		1,746.1		1,785.7		39.54		Casing Joints		
7		29.00		L-80		1,785.7		1,872.9		87.29		Casing Joints		
7		29.00		L-80		1,872.9		1,913.4		40.45		Casing Joints		
7		29.00		L-80		1,913.4		1,995.3		81.86		Casing Joints		
7		29.00		L-80		1,995.3		2,038.9		43.67		Casing Joints		
7		29.00		L-80		2,038.9		2,119.1		80.14		Casing Joints		
7		29.00		L-80		2,119.1		2,161.3		42.20		Casing Joints		
7		29.00		L-80		2,161.3		2,249.2		87.96		Casing Joints		
7		29.00		L-80		2,249.2		2,291.4		42.20		Casing Joints		
7		29.00		L-80		2,291.4		2,374.1		82.69		Casing Joints		
7		29.00		L-80		2,374.1		2,419.2		45.12		Casing Joints		
7		29.00		L-80		2,419.2		2,498.4		79.15		Casing Joints		
7		29.00		L-80		2,498.4		2,537.6		39.23		Casing Joints		
7		29.00		L-80		2,537.6		2,616.5		78.85		Casing Joints		



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WPC ID 1C0076886			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld			State CO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Original Spud Date 8/11/2013			Completion Date 8/24/2013			Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,447.0			N/S Ref FSL			E/W Dist (ft) 726.0			E/W Ref FWL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10 N	Township N/S Dir	Range 58 W	Range E/W Dir	Meridian 6TH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Lateral/Horizontal - Original Hole, 2/21/2014 11:43:45 AM								OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
MD (ftKB)	TV D (ftKB)	n cl (°)	Vertical schematic (actual)			Logs	7	29.00	L-80	2,616.5	2,658.6	42.16	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	2,658.6	2,738.9	80.27	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
170.6							7	29.00	L-80	2,738.9	2,782.6	43.75	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	2,782.6	2,864.6	81.95	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
747.0							7	29.00	L-80	2,864.6	2,904.0	39.36	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	2,904.0	2,977.7	73.76	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1,289.4							7	29.00	L-80	2,977.7	3,022.5	44.80	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,022.5	3,104.2	81.70	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1,552.8							7	29.00	L-80	3,104.2	3,141.7	37.53	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,141.7	3,179.1	37.37	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1,873.0							7	29.00	L-80	3,179.1	3,218.4	39.33	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,218.4	3,262.6	44.16	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
2,419.3							7	29.00	L-80	3,262.6	3,305.6	43.00	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,305.6	3,350.5	44.86	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
2,924.5							7	29.00	L-80	3,350.5	3,394.7	44.26	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,394.7	3,435.3	40.59	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
3,305.4							7	29.00	L-80	3,435.3	3,472.1	36.80	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,472.1	3,510.1	38.00	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
3,685.0							7	29.00	L-80	3,510.1	3,553.6	43.44	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,553.6	3,597.2	43.69	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
3,989.8							7	29.00	L-80	3,597.2	3,641.0	43.76	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,641.0	3,685.2	44.18	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
4,368.4							7	29.00	L-80	3,685.2	3,727.2	42.01	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,727.2	3,769.1	41.95	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
4,654.5							7	29.00	L-80	3,769.1	3,815.0	45.85	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,815.0	3,859.5	44.50	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
4,910.8							7	29.00	L-80	3,859.5	3,904.4	44.87	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,904.4	3,947.6	43.25	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5,113.2							7	29.00	L-80	3,947.6	3,990.0	42.38	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	3,990.0	4,033.7	43.75	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5,495.4							7	29.00	L-80	4,033.7	4,073.6	39.85	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,073.6	4,116.3	42.75	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5,756.6							7	29.00	L-80	4,116.3	4,154.9	38.51	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,154.9	4,199.1	44.20	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
5,992.8							7	29.00	L-80	4,199.1	4,239.7	40.67	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,239.7	4,280.2	40.48	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
6,145.0							7	29.00	L-80	4,280.2	4,325.8	45.57	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,325.8	4,368.5	42.72	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
6,349.1							7	29.00	L-80	4,368.5	4,408.4	39.95	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,408.4	4,447.1	38.65	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
6,535.1							7	29.00	L-80	4,447.1	4,483.8	36.75	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,483.8	4,526.8	42.95	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
6,769.4							7	29.00	L-80	4,526.8	4,567.4	40.56	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,567.4	4,612.3	44.90	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
6,967.2							7	29.00	L-80	4,612.3	4,654.6	42.36	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,654.6	4,691.4	36.83	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
7,182.1							7	29.00	L-80	4,691.4	4,736.4	44.91	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,736.4	4,777.6	41.28	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
7,376.0							7	29.00	L-80	4,777.6	4,821.9	44.31	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,821.9	4,865.8	43.84	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
7,617.1							7	29.00	L-80	4,865.8	4,909.9	44.16	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,909.9	4,950.4	40.45	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
7,811.0							7	29.00	L-80	4,950.4	4,993.6	43.21	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	4,993.6	5,030.3	36.65	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
8,051.8							7	29.00	L-80	5,030.3	5,074.7	44.48	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	5,074.7	5,113.4	38.62	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
8,247.0							7	29.00	L-80	5,113.4	5,156.3	42.90	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	5,156.3	5,196.6	40.30	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
8,488.2							7	29.00	L-80	5,196.6	5,240.2	43.61	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	5,240.2	5,285.1	44.90	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
8,692.9							7	29.00	L-80	5,285.1	5,325.5	40.42	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	5,325.5	5,369.3	43.82	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
8,916.0							7	29.00	L-80	5,369.3	5,413.8	44.51	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	5,413.8	5,456.9	43.10	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
9,099.1							7	29.00	L-80	5,456.9	5,495.3	38.37	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	5,495.3	5,539.2	43.87	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
9,284.1							7	29.00	L-80	5,539.2	5,582.3	43.10	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	5,582.3	5,619.0	36.70	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
9,434.1							7	29.00	L-80	5,619.0	5,659.2	40.26	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							7	29.00	L-80	5,659.2	5,701.6	42.42	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
9,618.1							7	29.00	L-80	5,701.6	5,738.5	36.91	Casing Joints																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														



Lease Review All CR
Well Name: RAZOR 27L-3404B

API Number 051233774400		WPC ID 1CO076886		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO						
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,772.30		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,490.0				
Original Spud Date 8/11/2013		Completion Date 8/24/2013		Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander		N/S Dist (ft) 2,447.0		N/S Ref FSL		E/W Dist (ft) 726.0		E/W Ref FWL	
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type		Township 10 N		Township N/S Dir 58 W		Range 6TH		Meridian
Lateral/Horizontal - Original Hole, 2/21/2014 11:43:49 AM								OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des		
MD (ftKB)	TV D (ftKB)	n cl (°)	<div>Vertical schematic (actual)</div>				Logs	7	29.00	L-80	5,738.5	5,780.1	41.56	Casing Joints		
								7	29.00	L-80	5,780.1	5,822.3	42.15	Casing Joints		
								7	29.00	L-80	5,822.3	5,863.1	40.82	Casing Joints		
								7	29.00	L-80	5,863.1	5,905.9	42.80	Casing Joints		
								7	29.00	L-80	5,905.9	5,948.2	42.29	Casing Joints		
								7	29.00	L-80	5,948.2	5,992.9	44.69	Casing Joints		
								7	29.00	L-80	5,992.9	6,035.2	42.35	Casing Joints		
								7	29.00	L-80	6,035.2	6,036.5	1.25	7" FLOAT COLLAR		
								7	29.00	L-80	6,036.5	6,080.8	44.30	Casing Joints		
								7	29.00	L-80	6,080.8	6,082.0	1.25	7" DV FLOAT SHOE		
								Liner, 12,480.0ftKB								
MD (ftKB)	TV D (ftKB)	n cl (°)	<div>Vertical schematic (actual)</div>				Logs	4 1/2	11.60	SeAH-90	5,004.9	5,004.9	0.00	Casing Joints		
								4 1/2	11.60	SeAH-90	5,004.9	5,041.0	36.03	Liner Hanger		
								4 1/2	11.60	SeAH-90	5,041.0	6,211.7	1,170.74	Casing Joints		
								4 1/2	11.60	SeAH-90	6,211.7	6,223.9	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	6,223.9	6,397.3	173.39	Casing Joints		
								4 1/2	11.60	SeAH-90	6,397.3	6,409.6	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	6,409.6	6,583.2	173.60	Casing Joints		
								4 1/2	11.60	SeAH-90	6,583.2	6,595.4	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	6,595.4	6,769.2	173.81	Casing Joints		
								4 1/2	11.60	SeAH-90	6,769.2	6,781.4	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	6,781.4	6,954.8	173.41	Casing Joints		
								4 1/2	11.60	SeAH-90	6,954.8	6,967.1	12.21	Swell Packer		
								4 1/2	11.60	SeAH-90	6,967.1	7,140.7	173.69	Casing Joints		
								4 1/2	11.60	SeAH-90	7,140.7	7,153.0	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	7,153.0	7,331.6	178.63	Casing Joints		
								4 1/2	11.60	SeAH-90	7,331.6	7,343.8	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	7,343.8	7,524.4	180.54	Casing Joints		
								4 1/2	11.60	SeAH-90	7,524.4	7,536.6	12.24	Swell Packer		
								4 1/2	11.60	SeAH-90	7,536.6	7,717.1	180.51	Casing Joints		
								4 1/2	11.60	SeAH-90	7,717.1	7,729.4	12.24	Swell Packer		
								4 1/2	11.60	SeAH-90	7,729.4	7,909.8	180.40	Casing Joints		
								4 1/2	11.60	SeAH-90	7,909.8	7,922.0	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	7,922.0	8,102.5	180.53	Casing Joints		
								4 1/2	11.60	SeAH-90	8,102.5	8,114.8	12.24	Swell Packer		
								4 1/2	11.60	SeAH-90	8,114.8	8,295.3	180.56	Casing Joints		
								4 1/2	11.60	SeAH-90	8,295.3	8,307.6	12.24	Swell Packer		
								4 1/2	11.60	SeAH-90	8,307.6	8,488.1	180.53	Casing Joints		
								4 1/2	11.60	SeAH-90	8,488.1	8,500.3	12.24	Swell Packer		
								4 1/2	11.60	SeAH-90	8,500.3	8,680.8	180.50	Casing Joints		
								4 1/2	11.60	SeAH-90	8,680.8	8,693.1	12.22	Swell Packer		
								4 1/2	11.60	SeAH-90	8,693.1	8,873.7	180.61	Casing Joints		
								4 1/2	11.60	SeAH-90	8,873.7	8,885.9	12.25	Swell Packer		
								4 1/2	11.60	SeAH-90	8,885.9	9,066.5	180.55	Casing Joints		
								4 1/2	11.60	SeAH-90	9,066.5	9,078.7	12.22	Swell Packer		
								4 1/2	11.60	SeAH-90	9,078.7	9,214.1	135.38	Casing Joints		
								4 1/2	11.60	SeAH-90	9,214.1	9,226.3	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	9,226.3	9,361.7	135.38	Casing Joints		
								4 1/2	11.60	SeAH-90	9,361.7	9,373.9	12.25	Swell Packer		
								4 1/2	11.60	SeAH-90	9,373.9	9,509.3	135.41	Casing Joints		
								4 1/2	11.60	SeAH-90	9,509.3	9,521.6	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	9,521.6	9,656.9	135.37	Casing Joints		
								4 1/2	11.60	SeAH-90	9,656.9	9,669.2	12.24	Swell Packer		
								4 1/2	11.60	SeAH-90	9,669.2	9,804.6	135.43	Casing Joints		
								4 1/2	11.60	SeAH-90	9,804.6	9,816.8	12.22	Swell Packer		
								4 1/2	11.60	SeAH-90	9,816.8	9,952.2	135.37	Casing Joints		
								4 1/2	11.60	SeAH-90	9,952.2	9,964.4	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	9,964.4	10,099.8	135.42	Casing Joints		
								4 1/2	11.60	SeAH-90	10,099.8	10,112.0	12.15	Swell Packer		
								4 1/2	11.60	SeAH-90	10,112.0	10,247.4	135.43	Casing Joints		
								4 1/2	11.60	SeAH-90	10,247.4	10,259.7	12.24	Swell Packer		
								4 1/2	11.60	SeAH-90	10,259.7	10,394.6	134.94	Casing Joints		
								4 1/2	11.60	SeAH-90	10,394.6	10,406.8	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	10,406.8	10,542.2	135.34	Casing Joints		
								4 1/2	11.60	SeAH-90	10,542.2	10,554.4	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	10,554.4	10,689.7	135.34	Casing Joints		
								4 1/2	11.60	SeAH-90	10,689.7	10,702.0	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	10,702.0	10,837.3	135.36	Casing Joints		
								4 1/2	11.60	SeAH-90	10,837.3	10,849.6	12.23	Swell Packer		
								4 1/2	11.60	SeAH-90	10,849.6	10,984.9	135.38	Casing Joints		
								4 1/2	11.60	SeAH-90	10,984.9	10,997.2	12.23	Swell Packer		

Lease Review All CR																											
Well Name: RAZOR 27L-3404B																											
API Number 051233774400			WPC ID 1CO076886			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO													
Well Configuration Type Lateral/Horizontal			Orig KB Elv (ft) 4,772.30			Ground Elevation (ft) 4,755.00			Casing Flange Elevation (ft)			Tubing Head Elevation (ft)		Total Depth (ftKB) 12,490.0													
Original Spud Date 8/11/2013			Completion Date 8/24/2013			Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,447.0		N/S Ref FSL		E/W Dist (ft) 726.0		E/W Ref FWL									
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian 6TH														
Lateral/Horizontal - Original Hole, 2/21/2014 11:43:52 AM														OD (in)		Wt (lb/ft)		Grade		Top (ftKB)		Btm (ftKB)		Len (ft)		Item Des	
MD (ftKB)	TV D (ftKB)	n cl (°)	<div>Vertical schematic (actual)</div> <div>Logs</div>										4 1/2	11.60	SeAH-90	10,997.2	11,128.2	131.06	Casing Joints								
													4 1/2	11.60	SeAH-90	11,128.2	11,140.5	12.24	Swell Packer								
													4 1/2	11.60	SeAH-90	11,140.5	11,263.4	122.89	Casing Joints								
													4 1/2	11.60	SeAH-90	11,263.4	11,275.6	12.23	Swell Packer								
													4 1/2	11.60	SeAH-90	11,275.6	11,401.7	126.06	Casing Joints								
													4 1/2	11.60	SeAH-90	11,401.7	11,413.9	12.23	Swell Packer								
													4 1/2	11.60	SeAH-90	11,413.9	11,537.6	123.69	Casing Joints								
													4 1/2	11.60	SeAH-90	11,537.6	11,549.8	12.21	Swell Packer								
													4 1/2	11.60	SeAH-90	11,549.8	11,675.9	126.12	Casing Joints								
													4 1/2	11.60	SeAH-90	11,675.9	11,688.1	12.22	Swell Packer								
													4 1/2	11.60	SeAH-90	11,688.1	11,815.4	127.25	Casing Joints								
													4 1/2	11.60	SeAH-90	11,815.4	11,827.6	12.23	Swell Packer								
													4 1/2	11.60	SeAH-90	11,827.6	11,957.6	129.96	Casing Joints								
													4 1/2	11.60	SeAH-90	11,957.6	11,969.8	12.22	Swell Packer								
													4 1/2	11.60	SeAH-90	11,969.8	12,099.5	129.76	Casing Joints								
													4 1/2	11.60	SeAH-90	12,099.5	12,111.8	12.25	Swell Packer								
													4 1/2	11.60	SeAH-90	12,111.8	12,242.3	130.53	Casing Joints								
													4 1/2	11.60	SeAH-90	12,242.3	12,254.5	12.22	Swell Packer								
													4 1/2	11.60	SeAH-90	12,254.5	12,377.5	122.96	Casing Joints								
													4 1/2	11.60	SeAH-90	12,377.5	12,389.7	12.23	Swell Packer								
													4 1/2	11.60	SeAH-90	12,389.7	12,433.0	43.31	Casing Joints								
4 1/2	11.60	SeAH-90	12,433.0	12,434.0	0.97	Float Collar																					
4 1/2	11.60	SeAH-90	12,434.0	12,477.5	43.47	Casing Joints																					
4 1/2	11.60	SeAH-90	12,477.5	12,480.0	2.52	Float Shoe																					
Cement Stages																											
		Des		Pump Start Date		Drill Out Date		Top (ftKB)		Btm (ftKB)		Top Meas Meth															
		Conductor Cement		8/5/2013				17.3		80.0		Returns to Surface															
		Surface Casing Cement		8/12/2013				17.3		1,554.4		Returns to Surface															
		Intermediate Casing Cement		8/15/2013				17.3		6,082.0		Returns to Surface															
Perforations																											
		Type of Hole		Date		Top (ftKB)		Btm (ftKB)		Zone																	
		Perforated Liner		12/31/2013		6,108.0		6,110.0		Niobrara, Original Hole																	
		Perforated Liner		12/31/2013		6,143.0		6,145.0		Niobrara, Original Hole																	
		Perforated Liner		12/31/2013		6,177.0		6,179.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,252.0		6,254.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,301.0		6,303.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,349.0		6,351.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,438.0		6,440.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,486.0		6,488.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,533.0		6,535.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,624.0		6,626.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,672.0		6,674.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,718.0		6,720.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,810.0		6,812.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,858.0		6,860.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,906.0		6,908.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		6,995.0		6,997.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		7,044.0		7,046.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		7,092.0		7,094.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		7,182.0		7,184.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		7,232.0		7,234.0		Niobrara, Original Hole																	
		Perforated Liner		12/30/2013		7,282.0		7,284.0		Niobrara, Original Hole																	



Lease Review All CR
Well Name: RAZOR 27L-3404B

API Number 051233774400		WPC ID 1C0076886			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld		State CO	
Well Configuration Type Lateral/Horizontal				Orig KB Elv (ft) 4,772.30		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,490.0		
Original Spud Date 8/11/2013		Completion Date 8/24/2013		Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,447.0		N/S Ref FSL	E/W Dist (ft) 726.0	E/W Ref FWL
Lot	Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10	Township N/S Dir N	Range 58	Range E/W Dir W	Meridian 6TH		

Lateral/Horizontal - Original Hole, 2/21/2014 11:43:55 AM					Perforations				
MD (ftKB)	TV D (ftK B)	n cl (°)	Vertical schematic (actual)	Logs	Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
					Perforated Liner	12/29/2013	7,374.0	7,376.0	Niobrara, Original Hole
170.6					Perforated Liner	12/29/2013	7,424.0	7,426.0	Niobrara, Original Hole
747.0					Perforated Liner	12/29/2013	7,500.0	7,502.0	Niobrara, Original Hole
1,289.4					Perforated Liner	12/29/2013	7,567.0	7,569.0	Niobrara, Original Hole
1,552.8					Perforated Liner	12/29/2013	7,617.0	7,619.0	Niobrara, Original Hole
1,873.0					Perforated Liner	12/29/2013	7,667.0	7,669.0	Niobrara, Original Hole
2,419.3					Perforated Liner	12/29/2013	7,759.0	7,761.0	Niobrara, Original Hole
2,924.5					Perforated Liner	12/29/2013	7,809.0	7,811.0	Niobrara, Original Hole
3,305.4					Perforated Liner	12/29/2013	7,858.0	7,860.0	Niobrara, Original Hole
3,685.0					Perforated Liner	12/28/2013	7,952.0	7,954.0	Niobrara, Original Hole
3,989.8					Perforated Liner	12/28/2013	8,002.0	8,004.0	Niobrara, Original Hole
4,368.4					Perforated Liner	12/28/2013	8,052.0	8,054.0	Niobrara, Original Hole
4,654.5					Perforated Liner	12/28/2013	8,145.0	8,147.0	Niobrara, Original Hole
4,910.8					Perforated Liner	12/28/2013	8,185.0	8,187.0	Niobrara, Original Hole
5,113.2					Perforated Liner	12/28/2013	8,245.0	8,247.0	Niobrara, Original Hole
5,495.4					Perforated Liner	12/27/2013	8,338.0	8,340.0	Niobrara, Original Hole
5,756.6					Perforated Liner	12/27/2013	8,388.0	8,390.0	Niobrara, Original Hole
5,992.8					Perforated Liner	12/27/2013	8,438.0	8,440.0	Niobrara, Original Hole
6,145.0					Perforated Liner	12/27/2013	8,530.0	8,532.0	Niobrara, Original Hole
6,349.1					Perforated Liner	12/27/2013	8,580.0	8,582.0	Niobrara, Original Hole
6,535.1					Perforated Liner	12/27/2013	8,628.0	8,630.0	Niobrara, Original Hole
6,769.4					Perforated Liner	12/27/2013	8,723.0	8,725.0	Niobrara, Original Hole
6,967.2					Perforated Liner	12/27/2013	8,773.0	8,775.0	Niobrara, Original Hole
7,182.1					Perforated Liner	12/27/2013	8,823.0	8,825.0	Niobrara, Original Hole
7,376.0					Perforated Liner	12/23/2013	8,916.0	8,918.0	Niobrara, Original Hole
7,617.1					Perforated Liner	12/23/2013	8,966.0	8,968.0	Niobrara, Original Hole
7,811.0					Perforated Liner	12/23/2013	9,016.0	9,018.0	Niobrara, Original Hole
8,051.8					Perforated Liner	12/23/2013	9,097.0	9,099.0	Niobrara, Original Hole
8,247.0					Perforated Liner	12/23/2013	9,136.0	9,138.0	Niobrara, Original Hole
8,488.2					Perforated Liner	12/23/2013	9,175.0	9,177.0	Niobrara, Original Hole
8,692.9					Perforated Liner	12/23/2013	9,245.0	9,247.0	Niobrara, Original Hole
8,916.0					Perforated Liner	12/23/2013	9,284.0	9,286.0	Niobrara, Original Hole
9,099.1					Perforated Liner	12/23/2013	9,323.0	9,325.0	Niobrara, Original Hole
9,284.1					Perforated Liner	12/23/2013	9,393.0	9,395.0	Niobrara, Original Hole
9,434.1					Perforated Liner	12/23/2013	9,432.0	9,434.0	Niobrara, Original Hole
9,618.1					Perforated Liner	12/23/2013	9,470.0	9,472.0	Niobrara, Original Hole
9,768.0					Perforated Liner	12/23/2013	9,540.0	9,542.0	Niobrara, Original Hole
9,952.1					Perforated Liner	12/23/2013	9,579.0	9,581.0	Niobrara, Original Hole
10,111.9					Perforated Liner	12/23/2013	9,618.0	9,620.0	Niobrara, Original Hole
10,285.1									
10,428.1									
10,611.9									
10,762.1									
10,945.9									
11,091.9									
11,263.5									
11,414.0									
11,556.1									
11,707.0									
11,882.9									
12,026.9									
12,205.1									
12,361.9									



Lease Review All CR
Well Name: RAZOR 27L-3404B

API Number 051233774400		WPC ID 1C0076886		Well Permit Number		Field Name DJ Horizontal Niobrara		County Weld		State CO
Well Configuration Type Lateral/Horizontal		Orig KB Elv (ft) 4,772.30		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)		Tubing Head Elevation (ft)		Total Depth (ftKB) 12,490.0
Original Spud Date 8/11/2013		Completion Date 8/24/2013		Asset Group Redtail Asset Group		Responsible Engineer Gary Nordlander		N/S Dist (ft) 2,447.0	N/S Ref FSL	E/W Dist (ft) 726.0 E/W Ref FWL
Lot	Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type	Township 10 N	Township N/S Dir	Range 58 W Meridian 6TH

Lateral/Horizontal - Original Hole, 2/21/2014 11:43:58 AM					Perforations				
MD (ftKB)	TV D (ftK B)	n cl (°)	Vertical schematic (actual)		Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
					Perforated Liner	12/23/2013	9,688.0	9,690.0	Niobrara, Original Hole
170.6					Perforated Liner	12/23/2013	9,727.0	9,729.0	Niobrara, Original Hole
747.0					Perforated Liner	12/23/2013	9,766.0	9,768.0	Niobrara, Original Hole
1,289.4					Perforated Liner	12/22/2013	9,836.0	9,838.0	Niobrara, Original Hole
1,552.8					Perforated Liner	12/22/2013	9,874.0	9,876.0	Niobrara, Original Hole
1,873.0					Perforated Liner	12/22/2013	9,913.0	9,915.0	Niobrara, Original Hole
2,419.3					Perforated Liner	12/22/2013	9,983.0	9,985.0	Niobrara, Original Hole
2,924.5					Perforated Liner	12/22/2013	10,022.0	10,024.0	Niobrara, Original Hole
3,305.4					Perforated Liner	12/22/2013	10,061.0	10,063.0	Niobrara, Original Hole
3,685.0					Perforated Liner	12/22/2013	10,131.0	10,133.0	Niobrara, Original Hole
3,989.8					Perforated Liner	12/22/2013	10,160.0	10,162.0	Niobrara, Original Hole
4,368.4					Perforated Liner	12/22/2013	10,196.0	10,198.0	Niobrara, Original Hole
4,654.5					Perforated Liner	12/22/2013	10,285.0	10,287.0	Niobrara, Original Hole
4,910.8					Perforated Liner	12/22/2013	10,317.0	10,319.0	Niobrara, Original Hole
5,113.2					Perforated Liner	12/22/2013	10,356.0	10,358.0	Niobrara, Original Hole
5,495.4					Perforated Liner	12/22/2013	10,426.0	10,428.0	Niobrara, Original Hole
5,756.6					Perforated Liner	12/22/2013	10,464.0	10,466.0	Niobrara, Original Hole
5,992.8					Perforated Liner	12/22/2013	10,503.0	10,505.0	Niobrara, Original Hole
6,145.0					Perforated Liner	12/21/2013	10,573.0	10,575.0	Niobrara, Original Hole
6,349.1					Perforated Liner	12/21/2013	10,612.0	10,614.0	Niobrara, Original Hole
6,535.1					Perforated Liner	12/21/2013	10,651.0	10,653.0	Niobrara, Original Hole
6,769.4					Perforated Liner	12/21/2013	10,721.0	10,723.0	Niobrara, Original Hole
6,967.2					Perforated Liner	12/21/2013	10,760.0	10,762.0	Niobrara, Original Hole
7,182.1					Perforated Liner	12/21/2013	10,798.0	10,800.0	Niobrara, Original Hole
7,376.0					Perforated Liner	12/21/2013	10,868.0	10,870.0	Niobrara, Original Hole
7,617.1					Perforated Liner	12/21/2013	10,907.0	10,909.0	Niobrara, Original Hole
7,811.0					Perforated Liner	12/21/2013	10,946.0	10,948.0	Niobrara, Original Hole
8,051.8					Perforated Liner	12/20/2013	11,015.0	11,017.0	Niobrara, Original Hole
8,247.0					Perforated Liner	12/20/2013	11,053.0	11,055.0	Niobrara, Original Hole
8,488.2					Perforated Liner	12/20/2013	11,090.0	11,092.0	Niobrara, Original Hole
8,692.9					Perforated Liner	12/20/2013	11,156.0	11,158.0	Niobrara, Original Hole
8,916.0					Perforated Liner	12/20/2013	11,192.0	11,194.0	Niobrara, Original Hole
9,099.1					Perforated Liner	12/20/2013	11,228.0	11,230.0	Niobrara, Original Hole
9,284.1					Perforated Liner	12/20/2013	11,292.0	11,294.0	Niobrara, Original Hole
9,434.1					Perforated Liner	12/20/2013	11,329.0	11,331.0	Niobrara, Original Hole
9,618.1					Perforated Liner	12/20/2013	11,365.0	11,367.0	Niobrara, Original Hole
9,768.0					Perforated Liner	12/20/2013	11,424.0	11,426.0	Niobrara, Original Hole
9,952.1					Perforated Liner	12/20/2013	11,446.0	11,448.0	Niobrara, Original Hole
10,111.9					Perforated Liner	12/20/2013	11,502.0	11,504.0	Niobrara, Original Hole
10,285.1									
10,428.1									
10,611.9									
10,762.1									
10,945.9									
11,091.9									
11,263.5									
11,414.0									
11,556.1									
11,707.0									
11,882.9									
12,026.9									
12,205.1									
12,361.9									



Lateral/Horizontal - Original Hole, 2/21/2014 11:44:02 AM				Perforations				
MD (ftKB)	TV D (ftKB)	n cl (°)		Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
				Perforated Liner	12/19/2013	11,556.0	11,558.0	Niobrara, Original Hole
170.6				Perforated Liner	12/19/2013	11,603.0	11,605.0	Niobrara, Original Hole
747.0				Perforated Liner	12/19/2013	11,639.0	11,641.0	Niobrara, Original Hole
1,289.4				Perforated Liner	12/19/2013	11,705.0	11,707.0	Niobrara, Original Hole
1,552.8				Perforated Liner	12/19/2013	11,742.0	11,744.0	Niobrara, Original Hole
1,873.0				Perforated Liner	12/19/2013	11,779.0	11,781.0	Niobrara, Original Hole
2,419.3				Perforated Liner	12/19/2013	11,845.0	11,847.0	Niobrara, Original Hole
2,924.5				Perforated Liner	12/19/2013	11,883.0	11,885.0	Niobrara, Original Hole
3,305.4				Perforated Liner	12/19/2013	11,920.0	11,922.0	Niobrara, Original Hole
3,685.0				Perforated Liner	12/19/2013	11,987.0	11,989.0	Niobrara, Original Hole
3,989.8				Perforated Liner	12/19/2013	12,025.0	12,027.0	Niobrara, Original Hole
4,368.4				Perforated Liner	12/19/2013	12,062.0	12,064.0	Niobrara, Original Hole
4,654.5				Perforated Liner	12/18/2013	12,129.0	12,131.0	Niobrara, Original Hole
4,910.8				Perforated Liner	12/18/2013	12,167.0	12,169.0	Niobrara, Original Hole
5,113.2				Perforated Liner	12/18/2013	12,205.0	12,207.0	Niobrara, Original Hole
5,495.4				Perforated Liner	12/3/2013	12,290.0	12,292.0	Niobrara, Original Hole
5,756.6				Perforated Liner	12/3/2013	12,325.0	12,327.0	Niobrara, Original Hole
5,992.8				Perforated Liner	12/3/2013	12,360.0	12,362.0	Niobrara, Original Hole
6,145.0								
6,349.1								
6,535.1								
6,769.4								
6,967.2								
7,182.1								
7,376.0								
7,617.1								
7,811.0								
8,051.8								
8,247.0								
8,488.2								
8,692.9								
8,916.0								
9,099.1								
9,284.1								
9,434.1								
9,618.1								
9,768.0								
9,952.1								
10,111.9								
10,285.1								
10,428.1								
10,611.9								
10,762.1								
10,945.9								
11,091.9								
11,263.5								
11,414.0								
11,556.1								
11,707.0								
11,882.9								
12,026.9								
12,205.1								
12,361.9								

Stim/Treat Stages					
Stage Type	Start Date	Top (ftKB)	Btm (ftKB)	Stim/Treat Fluid	Vol Clean Pump (bbl)
Frac	12/18/2013	6,108.0	12,362.0	388776# 40/70, 6107768# 20/40, 558307# CRC 20/40, Slick Water	156950.00

Tubing - Production set at 5,769.3ftKB on 1/31/2014 15:12					
Set Depth (ftKB)	Comment	Run Date	Pull Date		
5,769.3		1/31/2014			
Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	2 7/8	2.441	31.40	0.0	31.4
Tubing Sub	2 7/8	2.441	2.00	31.4	33.4
Tubing Sub	2 7/8	2.441	3.00	33.4	36.4
Tubing	2 7/8	2.441	1,674.95	36.4	1,711.4
Mandrel - side pocket	2 7/8		4.05	1,711.4	1,715.4
Tubing	2 7/8	2.441	1,209.14	1,715.4	2,924.5
Mandrel - side pocket	2 7/8		4.05	2,924.5	2,928.6
Tubing	2 7/8	2.441	896.15	2,928.6	3,824.7
Mandrel - side pocket	2 7/8		4.05	3,824.7	3,828.8
Tubing	2 7/8	2.441	644.51	3,828.8	4,473.3
Mandrel - side pocket	2 7/8		4.05	4,473.3	4,477.4
Tubing	2 7/8	2.441	431.95	4,477.4	4,909.3
Cup Seating Nipple	2 7/8		1.00	4,909.3	4,910.3
Cross Over / 2-7/8" x 2-3/8"	2 7/8		0.50	4,910.3	4,910.8
Tubing	2 3/8	1.995	151.92	4,910.8	5,062.7
Mandrel - side pocket	2 3/8		4.05	5,062.7	5,066.8
Tubing	2 3/8	1.995	623.50	5,066.8	5,690.3
Mandrel - CM-1 2.375 #1 CV-SO	2 3/8		4.05	5,690.3	5,694.3
Tubing	2 3/8	1.995	62.30	5,694.3	5,756.6
On-Off Tool	2 3/8		2.00	5,756.6	5,758.6
KB Tools. AS-1 production pkr	2 3/8		6.00	5,758.6	5,764.6
4' sub w/re-entry Guide	2 3/8		4.65	5,764.6	5,769.3

Rod Strings				
<des> on <dtmrun>			Run Date	Pull Date
Rod Description			Run Date	Pull Date
Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)



Lease Review All CR
Well Name: RAZOR 27L-3404B

API Number 051233774400			WPC ID 1CO076886			Well Permit Number			Field Name DJ Horizontal Niobrara			County Weld			State CO			
Well Configuration Type Lateral/Horizontal					Orig KB Elv (ft) 4,772.30		Ground Elevation (ft) 4,755.00		Casing Flange Elevation (ft)			Tubing Head Elevation (ft)			Total Depth (ftKB) 12,490.0			
Original Spud Date 8/11/2013			Completion Date 8/24/2013		Asset Group Redtail Asset Group			Responsible Engineer Gary Nordlander			N/S Dist (ft) 2,447.0		N/S Ref FSL		E/W Dist (ft) 726.0		E/W Ref FWL	
Lot		Quarter 1 NW	Quarter 2 SW	Quarter 3	Quarter 4	Section 27	Section Suffix	Section Type		Township 10	N	Township N/S Dir	Range 58	W		Range E/W Dir	Meridian 6TH	

Lateral/Horizontal - Original Hole, 2/21/2014 11:44:05 AM				Other Strings										
MD (ftKB)	TV D (ftKB)	n cl (°)	Vertical schematic (actual)	Logs	Set Depth (ftKB)		Comment		Run Date		Pull Date			
					Item Des		OD (in)		Len (ft)		Top (ftKB)		Btm (ftKB)	
170.6					Other In Hole									
747.0					Des	OD (in)	Run Date		Pull Date		Top (ftKB)		Btm (ftKB)	
1,289.4					CFP	4	12/31/2013		1/13/2014		6,202.0		6,204.0	
1,552.8					CFP	4	12/30/2013		1/13/2014		6,387.0		6,389.0	
1,873.0					CFP	4	12/30/2013		1/13/2014		6,573.0		6,575.0	
2,419.3					CFP	4	12/30/2013		1/13/2014		6,759.0		6,761.0	
2,924.5					CFP	4	12/30/2013		1/13/2014		6,945.0		6,947.0	
3,305.4					CFP	4	12/30/2013		1/13/2014		7,131.0		7,133.0	
3,685.0					CFP	4	12/30/2013		1/13/2014		7,322.0		7,324.0	
3,989.8					CFP	4	12/29/2013		1/13/2014		7,514.0		7,516.0	
4,368.4					CFP	4	12/29/2013		1/13/2014		7,707.0		7,709.0	
4,654.5					CFP	4	12/29/2013		1/13/2014		7,900.0		7,902.0	
4,910.8					CFP	4	12/29/2013		1/13/2014		8,093.0		8,095.0	
5,113.2					CFP	4	12/28/2013		1/14/2014		8,285.0		8,287.0	
5,495.4					CFP	4	12/27/2013		1/14/2014		8,478.0		8,480.0	
5,756.6					CFP	4	12/27/2013		1/14/2014		8,671.0		8,673.0	
5,992.8					CFP	4	12/27/2013		1/14/2014		8,864.0		8,866.0	
6,145.0					CFP	4	12/23/2013		1/14/2014		9,057.0		9,059.0	
6,349.1					CFP	4	12/23/2013		1/15/2014		9,204.0		9,206.0	
6,535.1					CFP	4	12/23/2013		1/15/2014		9,352.0		9,354.0	
6,769.4					CFP	4	12/23/2013		1/15/2014		9,499.0		9,501.0	
6,967.2					CFP	4	12/23/2013		1/15/2014		9,647.0		9,649.0	
7,182.1					CFP	4	12/23/2013		1/15/2014		9,795.0		9,797.0	
7,376.0					CFP	4	12/22/2013		1/15/2014		9,942.0		9,944.0	
7,617.1					CFP	4	12/22/2013		1/15/2014		10,090.0		10,092.0	
7,811.0					CFP	4	12/22/2013		1/15/2014		10,237.0		10,239.0	
8,051.8					CFP	4	12/22/2013		1/15/2014		10,385.0		10,387.0	
8,247.0					CFP	4	12/22/2013		1/16/2014		10,532.0		10,534.0	
8,488.2					CFP	4	12/21/2013		1/16/2014		10,680.0		10,682.0	
8,692.9					CFP	4	12/21/2013		1/16/2014		10,827.0		10,829.0	
8,916.0					CFP	4	12/21/2013		1/16/2014		10,975.0		10,977.0	
9,099.1					CFP	4	12/20/2013		1/16/2014		11,118.0		11,120.0	
9,284.1					CFP	4	12/20/2013		1/16/2014		11,253.0		11,255.0	
9,434.1					CFP	4	12/20/2013		1/16/2014		11,392.0		11,394.0	
9,618.1					CFP	4	12/20/2013		1/16/2014		11,528.0		11,530.0	
9,768.0					CFP	4	12/19/2013		1/17/2014		11,666.0		11,668.0	
9,952.1					CFP	4	12/19/2013		1/17/2014		11,805.0		11,807.0	
10,111.9					CFP	4	12/19/2013		1/17/2014		11,947.0		11,949.0	
10,285.1					CFP	4	12/19/2013		1/17/2014		12,090.0		12,092.0	
10,428.1					CFP	4	12/18/2013		1/17/2014		12,325.0		12,327.0	
10,611.9					CFP	4	12/3/2013		1/17/2014		12,423.0		12,425.0	
10,762.1					Bottom Hole Cores									
10,945.9					Date	Core #	Top (ftKB)		Btm (ftKB)		Recov (ft)			
11,091.9														
11,263.5														
11,414.0														
11,556.1														
11,707.0														
11,882.9														
12,026.9														
12,205.1														
12,361.9														