Lease Review All - Frac Summary

Well Name: RAZOR 11G-0210B

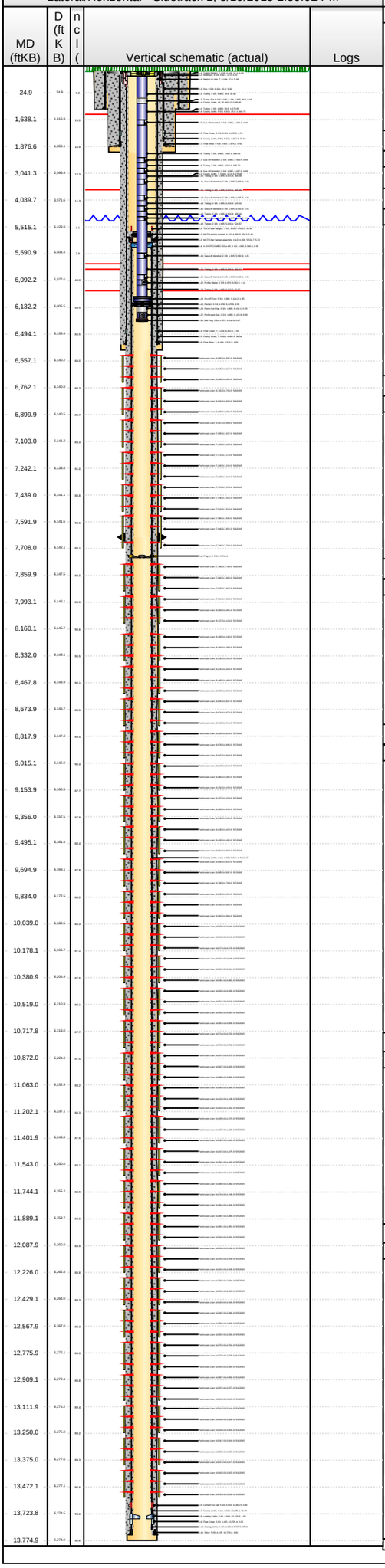
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233873001	1CO0761181		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,989.90	4,972.90			13,775.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
3/3/2015	5/8/2015	Redtail	Charles Ohlson	2,321.0	FNL	1,749.0	FEL

Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Section Suffix	Section Type	Township	Township N/S Dir	Range	Range E/W Dir	Meridian
	SW	NE			11			10	N	58	W	

Lateral/Horizontal - Sidetrack 1, 8/19/2015 2:59:02 PM



Wellbore Sections

Wellbore Name	Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Original Hole	12/18/2014	20	17.0	97.0
Original Hole	12/18/2014	13 1/2	97.0	1,890.0
Original Hole	3/4/2015	8 3/4	1,890.0	6,550.0
Original Hole	3/7/2015	6 1/2	6,550.0	8,160.0
Sidetrack 1	3/10/2015	6 1/8	7,672.0	13,775.0

Conductor Pipe, 97.0ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
16	84.00	J-55	17.0	97.0	80.00	Casing Joints

Surface Csg, 1,876.6ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
9 5/8	36.00	J-55	17.0	17.0	0.00	Landing Joint
9 5/8	36.00	J-55	17.0	20.0	3.00	Wellhead
9 5/8	36.00	J-55	20.0	25.0	5.00	Pup
9 5/8	36.00	J-55	25.0	1,835.8	1,810.76	Casing Joints
9 5/8	36.00	J-55	1,835.8	1,837.3	1.50	Float Collar
9 5/8	36.00	J-55	1,837.3	1,875.1	37.84	Casing Joints
9 5/8	36.00	J-55	1,875.1	1,876.6	1.50	Float Shoe

Frac String, 5,526.6ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
7			17.1	18.7	1.60	Casing Hanger
4 1/2	11.60	P-110	18.7	54.8	36.10	Casing Joints
4 1/2			54.8	71.9	17.15	Pup Joint 10.08ft 4.05ft 3.02ft
4 1/2	11.60	P-110	71.9	5,507.0	5,435.00	Casing Joints
4 1/2			5,507.0	5,512.1	5.12	Casing PUP Joint
4 1/2			5,512.1	5,526.6	14.50	Seal Assembly

Intermediate Csg, 6,533.8ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
7	29.00	L-80	17.0	17.0	0.00	Landing Joint
7	29.00	L-80	17.0	22.0	5.00	Hanger w/ pup
7	29.00	L-80	22.0	6,492.5	6,470.48	Casing Joints
7	29.00	HCP-110	6,492.5	6,494.0	1.50	Float Collar
7	29.00	L-80	6,494.0	6,532.3	38.34	Casing Joints
7	29.00	HCP-110	6,532.3	6,533.8	1.50	Float Shoe

Liner, 13,765.0ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
4 1/2	11.60	P-110	5,515.0	5,531.3	16.34	Top on liner hanger.
4 1/2	11.60	P-110	5,531.3	5,534.7	3.40	WCTH packer system
4 1/2	11.60	P-110	5,534.7	5,540.4	5.70	WCTH liner hanger assembly
4 1/2	11.60	P-110	5,540.4	5,541.1	0.69	X-OVER COMBO COLLAR
4 1/2	11.60	P-110	5,541.1	13,684.5	8,143.37	Casing Joints
5.031	11.60	P-110	13,684.5	13,685.3	0.80	Cement toe sub
4 1/2	11.60	P-110	13,685.3	13,723.9	38.58	Casing Joints
5.031	11.60	P-110	13,723.9	13,725.4	1.55	Landing Collar
5.031	11.60	P-110	13,725.4	13,727.5	2.06	Float Collar
4 1/2	11.60	P-110	13,727.5	13,763.4	35.91	Casing Joints
5.031	11.60	P-110	13,763.4	13,765.0	1.61	Shoe

Cement Stages

Des	Pump Start Date	Drill Out Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth
Conductor Cement	12/18/2014		17.0	97.0	Returns to Surface
Surface Casing Cement	3/4/2015		17.0	1,876.6	Returns to Surface
Intermediate Casing Cement	3/7/2015		17.0	6,533.8	Returns to Surface
Liner Cement	3/18/2015		5,531.3	13,765.0	Volume Calculations

Perforations

Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
Perforated Liner	5/8/2015	6,555.0	6,557.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	6,625.0	6,627.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	6,688.0	6,690.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	6,762.0	6,764.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	6,834.0	6,836.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	6,898.0	6,900.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	6,967.0	6,969.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,035.0	7,037.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,103.0	7,105.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,172.0	7,174.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,240.0	7,242.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,308.0	7,310.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,376.0	7,378.0	Fort Hays, Original Hole

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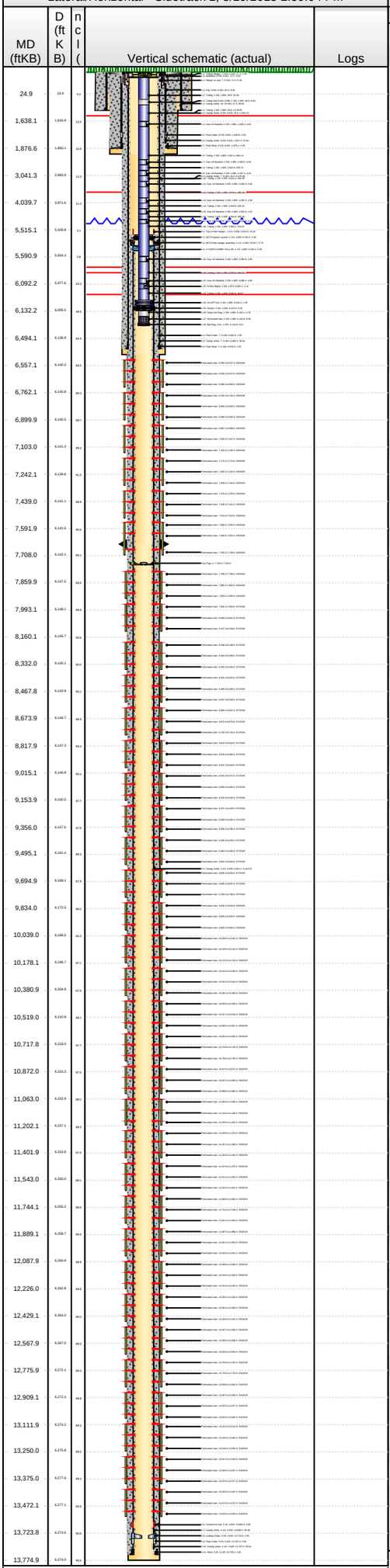
Lateral/Horizontal - Sidetrack 1, 8/19/2015 2:59:04 PM



Perforations

Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
Perforated Liner	5/8/2015	7,439.0	7,441.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,513.0	7,515.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,590.0	7,592.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,649.0	7,651.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,706.0	7,708.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,786.0	7,788.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,860.0	7,862.0	Fort Hays, Original Hole
Perforated Liner	5/8/2015	7,923.0	7,925.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	7,991.0	7,993.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,059.0	8,061.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,127.0	8,129.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,196.0	8,198.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,264.0	8,266.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,332.0	8,334.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,401.0	8,403.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,466.0	8,468.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,537.0	8,539.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,605.0	8,607.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,674.0	8,676.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,742.0	8,744.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,816.0	8,818.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,878.0	8,880.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	8,947.0	8,949.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,015.0	9,017.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,080.0	9,082.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,152.0	9,154.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,227.0	9,229.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,288.0	9,290.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,356.0	9,358.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,430.0	9,432.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,493.0	9,495.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,561.0	9,563.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,630.0	9,632.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,695.0	9,697.0	Fort Hays, Original Hole
Perforated Liner	5/7/2015	9,766.0	9,768.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	9,832.0	9,834.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	9,903.0	9,905.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	9,962.0	9,964.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,039.0	10,041.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,108.0	10,110.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,176.0	10,178.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,244.0	10,246.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,312.0	10,314.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,381.0	10,383.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,456.0	10,458.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,517.0	10,519.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,585.0	10,587.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,654.0	10,656.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,718.0	10,720.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,790.0	10,792.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,870.0	10,872.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,927.0	10,929.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	10,988.0	10,990.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	11,063.0	11,065.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	11,134.0	11,136.0	Fort Hays, Original Hole
Perforated Liner	5/6/2015	11,200.0	11,202.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,268.0	11,270.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,337.0	11,339.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,402.0	11,404.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,473.0	11,475.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,541.0	11,543.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,610.0	11,612.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,680.0	11,682.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,744.0	11,746.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,814.0	11,816.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,887.0	11,889.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	11,951.0	11,953.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,019.0	12,021.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,088.0	12,090.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,156.0	12,158.0	Fort Hays, Original Hole

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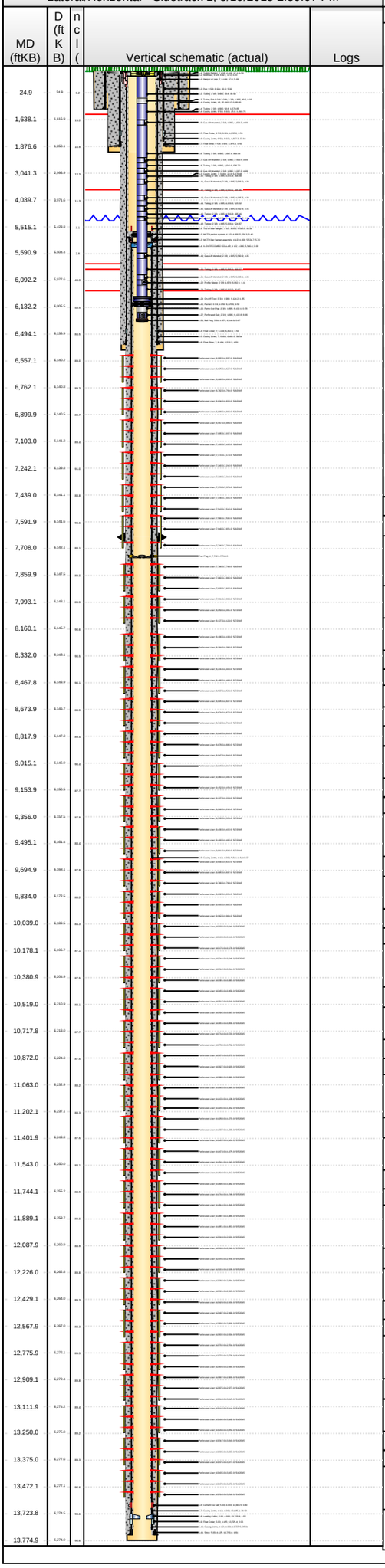
Lateral/Horizontal - Sidetrack 1, 8/19/2015 2:59:07 PM



Perforations

Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
Perforated Liner	5/5/2015	12,224.0	12,226.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,292.0	12,294.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,361.0	12,363.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,429.0	12,431.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,497.0	12,499.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,566.0	12,568.0	Fort Hays, Original Hole
Perforated Liner	5/5/2015	12,632.0	12,634.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	12,702.0	12,704.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	12,776.0	12,778.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	12,839.0	12,841.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	12,907.0	12,909.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	12,975.0	12,977.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,043.0	13,045.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,112.0	13,114.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,180.0	13,182.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,248.0	13,250.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,317.0	13,319.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,335.0	13,337.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,375.0	13,377.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,435.0	13,437.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,470.0	13,472.0	Fort Hays, Original Hole
Perforated Liner	5/4/2015	13,516.0	13,518.0	Fort Hays, Original Hole

Stimulations & Treatments

Sand Frac on 5/4/2015 11:24

Comment

Treatment End Date: 5/08/2015; Min Frac Gradient 0.775, Number of staged intervals: 35; Number of perforations:1260; Total 15% HCL Used:772 bbl;Total Slickwater: 187893 bbl; Fresh water: 6598bbl.

Total Clean Volu...	Vol Slurry Tot (bbl)	Proppant Desig...	Proppant Frm (lb)	P Max (psi)	Avg Treat...	Avg Treat...	Max Tre...	Frac Gr...
195262.00	200252.00	4,480,000.0	4,316,582.0	7,736.0	5,892.7	74.84	86.60	0.83

Total Add Amount

Proppant Ottawa 30/50 4218788.2 lb; Proppant Ottawa 40/70 97793.7 lb

Stim/Treat Fluids

Fluid Name
15% HCl; Slick water

Stim/Treat Stages

<Stage Type?> 1

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
1	5/4/2015	13,435.0	13,518.0	5176.00	5238.00	Slickwater:4790 bbl; 15% HCl:24bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
1	Proppant	Ottawa 30/50	53,418.0	lb	30/50
1	Proppant	Ottawa 40/70	2,540.0	lb	40/70

<Stage Type?> 2

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
2	5/4/2015	13,317.0	13,377.0	5755.00	5890.00	Slickwater:5436 bbl; 15% HCl:24bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
2	Proppant	Ottawa 30/50	113,466.0	lb	30/50
2	Proppant	Ottawa 40/70	2,978.0	lb	40/70

<Stage Type?> 3

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
3	5/4/2015	13,112.0	13,250.0	5886.00	6048.00	Slickwater:5574 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
3	Proppant	Ottawa 30/50	128,854.0	lb	30/50
3	Proppant	Ottawa 40/70	3,011.0	lb	40/70

<Stage Type?> 4

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
4	5/4/2015	12,907.0	13,045.0	5780.00	5918.00	Slickwater:5425 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
4	Proppant	Ottawa 30/50	124,784.0	lb	30/50
4	Proppant	Ottawa 40/70	3,035.0	lb	40/70

<Stage Type?> 5

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
5	5/4/2015	12,702.0	12,841.0	5208.00	5302.00	Slickwater:4861 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
5	Proppant	Ottawa 30/50	83,329.0	lb	30/50
5	Proppant	Ottawa 40/70	2,880.6	lb	40/70

<Stage Type?> 6

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
6	5/5/2015	12,497.0	12,634.0	5810.00	5959.00	Slickwater:5430 bbl; 15% HCl:23bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
6	Proppant	Ottawa 30/50	132,321.0	lb	30/50
6	Proppant	Ottawa 40/70	3,053.0	lb	40/70

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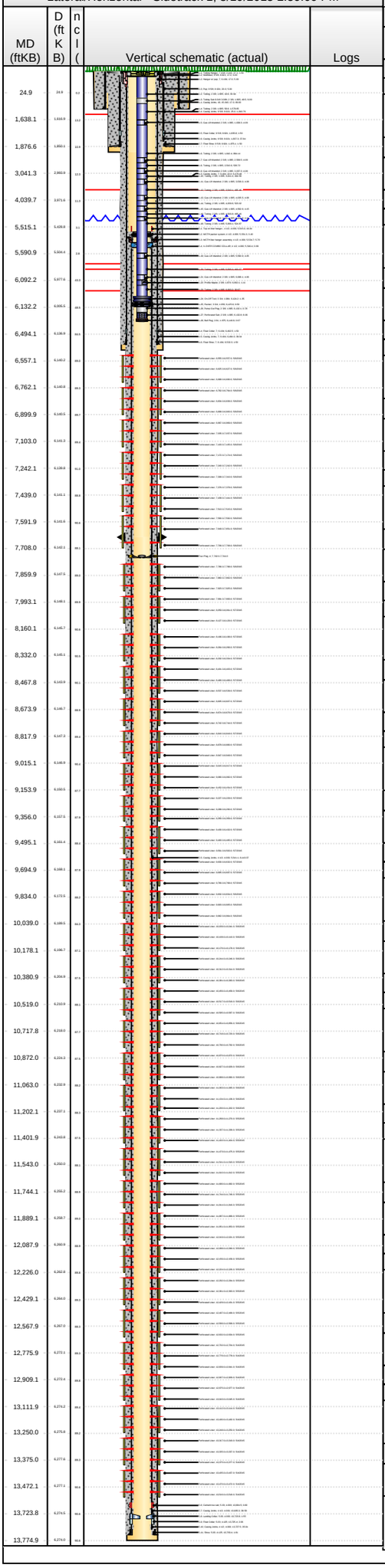
Lateral/Horizontal - Sidetrack 1, 8/19/2015 2:59:09 PM



Stim/Treat Stages

<Stage Type?> 7

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
7	5/5/2015	12,292.0	12,431.0	5873.00	6019.00	Slickwater:5557 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
7	Proppant	Ottawa 30/50	131,826.0	lb	30/50
7	Proppant	Ottawa 40/70	3,141.0	lb	40/70

<Stage Type?> 8

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
8	5/5/2015	12,088.0	12,226.0	5769.00	5917.00	Slickwater:5493 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
8	Proppant	Ottawa 30/50	127,170.0	lb	30/50
8	Proppant	Ottawa 40/70	2,739.0	lb	40/70

<Stage Type?> 9

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
9	5/5/2015	11,887.0	12,021.0	5775.00	5923.00	Slickwater:5513 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
9	Proppant	Ottawa 30/50	127,284.0	lb	30/50
9	Proppant	Ottawa 40/70	2,501.0	lb	40/70

<Stage Type?> 10

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
10	5/5/2015	11,680.0	11,816.0	5704.00	5855.00	Slickwater:5443 bbl; 15% HCl:21bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
10	Proppant	Ottawa 30/50	125,015.0	lb	30/50
10	Proppant	Ottawa 40/70	2,852.0	lb	40/70

<Stage Type?> 11

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
11	5/5/2015	11,473.0	11,612.0	5704.00	5852.00	Slickwater:5414 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
11	Proppant	Ottawa 30/50	122,327.0	lb	30/50
11	Proppant	Ottawa 40/70	2,562.0	lb	40/70

<Stage Type?> 12

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
12	5/5/2015	11,268.0	11,404.0	5669.00	5814.00	Slickwater:5371 bbl; 15% HCl:21bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
12	Proppant	Ottawa 30/50	120,245.0	lb	30/50
12	Proppant	Ottawa 40/70	2,776.0	lb	40/70

<Stage Type?> 13

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
13	5/6/2015	11,063.0	11,202.0	5669.00	5815.00	Slickwater:5386 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
13	Proppant	Ottawa 30/50	123,130.0	lb	30/50
13	Proppant	Ottawa 40/70	2,960.0	lb	40/70

<Stage Type?> 14

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
14	5/6/2015	10,870.0	10,990.0	5616.00	5762.00	Slickwater:5387 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
14	Proppant	Ottawa 30/50	122,232.0	lb	30/50
14	Proppant	Ottawa 40/70	3,145.0	lb	40/70

<Stage Type?> 15

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
15	5/6/2015	10,654.0	10,792.0	5626.00	5772.00	Slickwater:5410 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
15	Proppant	Ottawa 30/50	118,774.0	lb	30/50
15	Proppant	Ottawa 40/70	2,673.0	lb	40/70

<Stage Type?> 16

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
16	5/6/2015	10,456.0	10,587.0	5589.00	5733.00	Slickwater:5382 bbl; 15% HCl:21bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
16	Proppant	Ottawa 30/50	120,507.0	lb	30/50
16	Proppant	Ottawa 40/70	2,669.0	lb	40/70

<Stage Type?> 17

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
17	5/6/2015	10,244.0	10,383.0	5619.00	5767.00	Slickwater:5425 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
17	Proppant	Ottawa 30/50	115,372.2	lb	30/50
17	Proppant	Ottawa 40/70	2,050.1	lb	40/70

<Stage Type?> 18

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
18	5/6/2015	10,039.0	10,178.0	5585.00	5730.00	Slickwater:5350 bbl; 15% HCl:22bbl

Report Printed: 8/19/2015

Lease Review All - Frac Summary

Well Name: RAZOR 11G-0210B

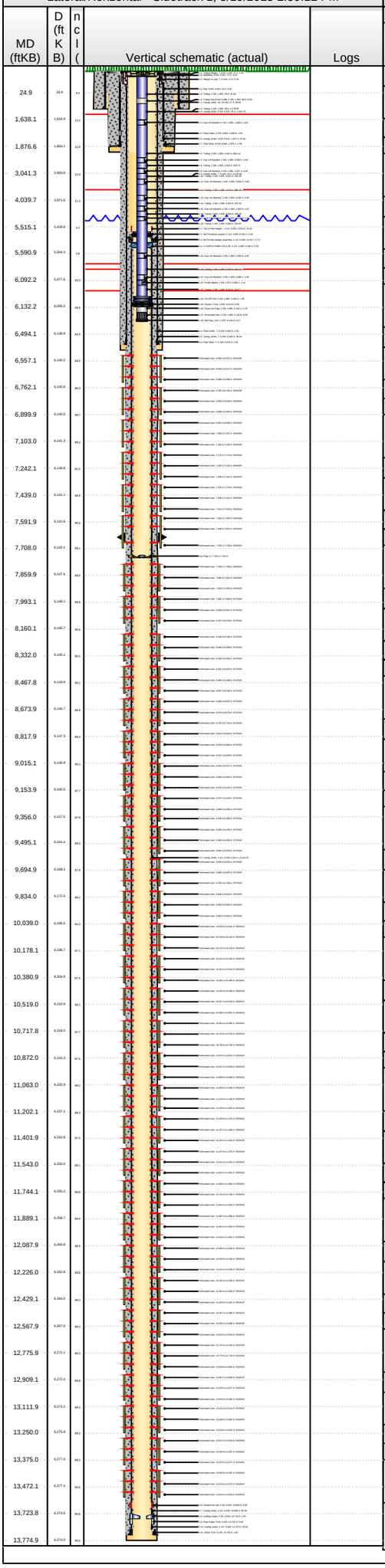
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233873001	1CO0761181		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,989.90	4,972.90			13,775.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
3/3/2015	5/8/2015	Redtail	Charles Ohlson	2,321.0	FNL	1,749.0	FEL

Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Section Suffix	Section Type	Township	Township N/S Dir	Range	Range E/W Dir	Meridian
	SW	NE			11			10	N	58	W	

Lateral/Horizontal - Sidetrack 1, 8/19/2015 2:59:12 PM



Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
18	Proppant	Ottawa 30/50	115,517.0	lb	30/50
18	Proppant	Ottawa 40/70	2,133.0	lb	40/70

<Stage Type?> 19

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
19	5/6/2015	9,832.0	9,964.0	5651.00	5796.00	Slickwater:5433 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
19	Proppant	Ottawa 30/50	122,686.0	lb	30/50
19	Proppant	Ottawa 40/70	3,008.0	lb	40/70

<Stage Type?> 20

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
20	5/6/2015	9,630.0	9,768.0	5515.00	5657.00	Slickwater:5302 bbl; 15% HCl:23bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
20	Proppant	Ottawa 30/50	117,672.0	lb	30/50
20	Proppant	Ottawa 40/70	2,984.0	lb	40/70

<Stage Type?> 21

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
21	5/7/2015	9,430.0	9,563.0	5602.00	5750.00	Slickwater:5409 bbl; 15% HCl:18bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
21	Proppant	Ottawa 30/50	126,971.0	lb	30/50
21	Proppant	Ottawa 40/70	2,549.0	lb	40/70

<Stage Type?> 22

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
22	5/7/2015	9,227.0	9,358.0	5538.00	5686.00	Slickwater:5380 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
22	Proppant	Ottawa 30/50	123,792.0	lb	30/50
22	Proppant	Ottawa 40/70	3,039.0	lb	40/70

<Stage Type?> 23

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
23	5/7/2015	9,015.0	9,154.0	5522.00	5669.00	Slickwater:5372 bbl; 15% HCl:21bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
23	Proppant	Ottawa 30/50	127,699.0	lb	30/50
23	Proppant	Ottawa 40/70	2,797.0	lb	40/70

<Stage Type?> 24

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
24	5/7/2015	8,816.0	8,949.0	5497.00	5642.00	Slickwater:5349 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
24	Proppant	Ottawa 30/50	127,570.0	lb	30/50
24	Proppant	Ottawa 40/70	2,731.0	lb	40/70

<Stage Type?> 25

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
25	5/7/2015	8,605.0	8,744.0	5543.00	5691.00	Slickwater:5405 bbl; 15% HCl:21bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
25	Proppant	Ottawa 30/50	126,407.0	lb	30/50
25	Proppant	Ottawa 40/70	2,893.0	lb	40/70

<Stage Type?> 26

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
26	5/7/2015	8,401.0	8,539.0	5562.00	5715.00	Slickwater:5435 bbl; 15% HCl:21bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
26	Proppant	Ottawa 30/50	121,440.0	lb	30/50
26	Proppant	Ottawa 40/70	2,884.0	lb	40/70

<Stage Type?> 27

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
27	5/7/2015	8,196.0	8,334.0	5515.00	5662.00	Slickwater:5376 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
27	Proppant	Ottawa 30/50	117,522.0	lb	30/50
27	Proppant	Ottawa 40/70	2,939.0	lb	40/70

<Stage Type?> 28

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
28	5/7/2015	7,991.0	8,129.0	5556.00	5704.00	Slickwater:5423 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
28	Proppant	Ottawa 30/50	126,652.0	lb	30/50
28	Proppant	Ottawa 40/70	2,970.0	lb	40/70

<Stage Type?> 29

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
29	5/7/2015	7,786.0	7,925.0	5461.00	5610.00	Slickwater:5344 bbl; 15% HCl:21bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
29	Proppant	Ottawa 30/50	128,508.0	lb	30/50
29	Proppant	Ottawa 40/70	3,064.0	lb	40/70

Report Printed: 8/19/2015

Lease Review All - Frac Summary

Well Name: RAZOR 11G-0210B

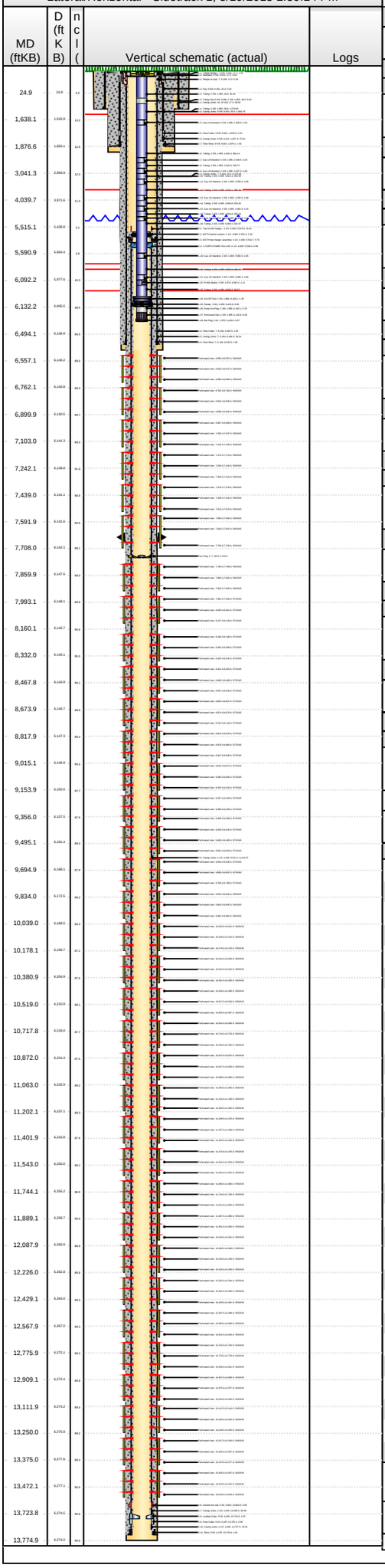
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233873001	1CO0761181		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,989.90	4,972.90			13,775.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
3/3/2015	5/8/2015	Redtail	Charles Ohlson	2,321.0	FNL	1,749.0	FEL

Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Section Suffix	Section Type	Township	Township N/S Dir	Range	Range E/W Dir	Meridian
	SW	NE			11			10	N	58	W	

Lateral/Horizontal - Sidetrack 1, 8/19/2015 2:59:14 PM



Stim/Treat Stages

<Stage Type?> 30

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
30	5/8/2015	7,590.0	7,708.0	5487.00	5636.00	Slickwater:5382 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
30	Proppant	Ottawa 30/50	133,161.0	lb	30/50
30	Proppant	Ottawa 40/70	3,154.0	lb	40/70

<Stage Type?> 31

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
31	5/8/2015	7,376.0	7,515.0	5424.00	5570.00	Slickwater:5338 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
31	Proppant	Ottawa 30/50	130,881.0	lb	30/50
31	Proppant	Ottawa 40/70	2,918.0	lb	40/70

<Stage Type?> 32

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
32	5/8/2015	7,172.0	7,310.0	5389.00	5532.00	Slickwater:5307 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
32	Proppant	Ottawa 30/50	126,667.0	lb	30/50
32	Proppant	Ottawa 40/70	2,680.0	lb	40/70

<Stage Type?> 33

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
33	5/8/2015	6,967.0	7,105.0	5436.00	5584.00	Slickwater:5364 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
33	Proppant	Ottawa 30/50	120,722.0	lb	30/50
33	Proppant	Ottawa 40/70	2,471.0	lb	40/70

<Stage Type?> 34

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
34	5/8/2015	6,762.0	6,900.0	5380.00	5525.00	Slickwater:5317 bbl; 15% HCl:23bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
34	Proppant	Ottawa 30/50	113,403.0	lb	30/50
34	Proppant	Ottawa 40/70	2,601.0	lb	40/70

<Stage Type?> 35

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
35	5/8/2015	6,555.0	6,690.0	5371.00	5509.00	Slickwater:5309 bbl; 15% HCl:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
35	Proppant	Ottawa 30/50	121,464.0	lb	30/50
35	Proppant	Ottawa 40/70	2,413.0	lb	40/70

Tubing - Production set at 6,141.6ftKB on 7/8/2015 06:00

Set Depth (ftKB)	Comment	Run Date	Pull Date
6,141.6		7/8/2015	

Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	7 1/16	2.441	1.50	17.1	18.6
Tubing	2 3/8	1.995	30.94	18.6	49.5
Tubing Sub 6.01ft 3.08ft	2 3/8	1.995	9.09	49.5	58.6
Tubing	2 3/8	1.995	1,579.65	58.6	1,638.3
Gas Lift Mandrel	2 3/8	1.995	4.09	1,638.3	1,642.4
Tubing	2 3/8	1.995	864.14	1,642.4	2,506.5
Gas Lift Mandrel	2 3/8	1.995	4.09	2,506.5	2,510.6
Tubing	2 3/8	1.995	526.72	2,510.6	3,037.3
Gas Lift Mandrel	2 3/8	1.995	4.08	3,037.3	3,041.4
Tubing	2 3/8	1.995	494.58	3,041.4	3,536.0
Gas Lift Mandrel	2 3/8	1.995	4.08	3,536.0	3,540.1
Tubing	2 3/8	1.995	495.46	3,540.1	4,035.5
Gas Lift Mandrel	2 3/8	1.995	4.08	4,035.5	4,039.6
Tubing	2 3/8	1.995	523.02	4,039.6	4,562.6
Gas Lift Mandrel	2 3/8	1.995	4.15	4,562.6	4,566.8
Tubing	2 3/8	1.995	495.16	4,566.8	5,061.9
Gas Lift Mandrel	2 3/8	1.995	4.15	5,061.9	5,066.1
Tubing	2 3/8	1.995	524.87	5,066.1	5,591.0
Gas Lift Mandrel	2 3/8	1.995	4.05	5,591.0	5,595.0
Tubing	2 3/8	1.995	493.07	5,595.0	6,088.1
Gas Lift Mandrel	2 3/8	1.995	4.06	6,088.1	6,092.1
Profile Nipple	2 3/8	1.870	1.11	6,092.1	6,093.2
Tubing	2 3/8	1.995	30.97	6,093.2	6,124.2
On-Off Tool	3 3/4	1.984	1.35	6,124.2	6,125.6
Packer	3 3/4	1.950	6.50	6,125.6	6,132.1
Pump Out Plug	2 3/8	1.995	0.78	6,132.1	6,132.8
Perforated Sub	2 3/8	1.995	8.06	6,132.8	6,140.9
Bull Plug	2.61	1.975	0.67	6,140.9	6,141.6

Rod Strings

<des> on <dttmrun>

Rod Description	Run Date	Pull Date

Report Printed: 8/19/2015

Lease Review All - Frac Summary

Well Name: RAZOR 11G-0210B

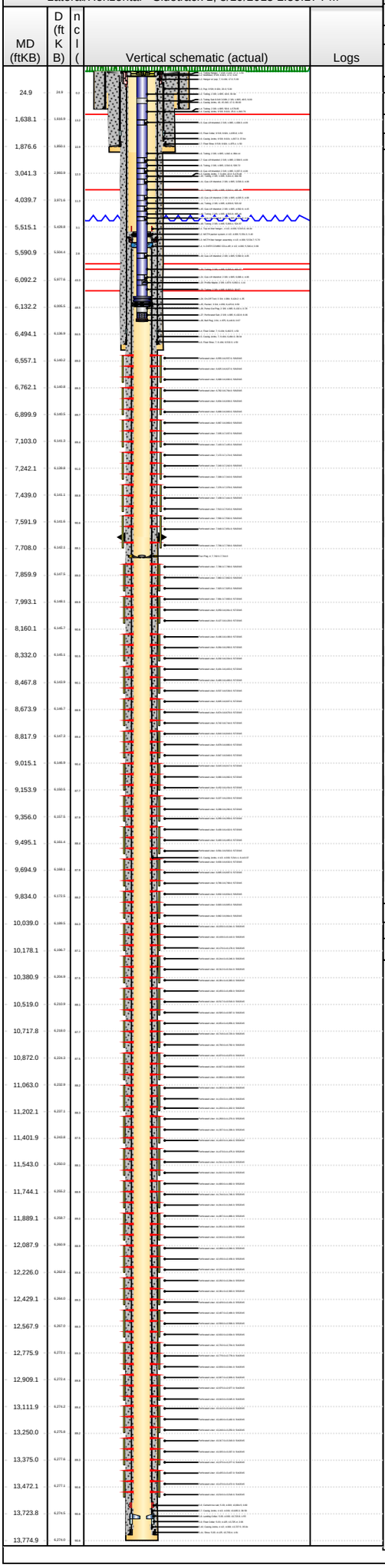
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233873001	1CO0761181		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,989.90	4,972.90			13,775.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
3/3/2015	5/8/2015	Redtail	Charles Ohlson	2,321.0	FNL	1,749.0	FEL

Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Section Suffix	Section Type	Township	Township N/S Dir	Range	Range E/W Dir	Meridian
	SW	NE			11			10	N	58	W	

Lateral/Horizontal - Sidetrack 1, 8/19/2015 2:59:17 PM



Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)

Other Strings

Set Depth (ftKB)	Comment	Run Date	Pull Date

Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)

Other In Hole

Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)
Frac Plug	4	5/8/2015	5/26/2015	6,728.0	6,730.0
Frac Plug	4	5/8/2015	5/26/2015	6,933.0	6,935.0
Frac Plug	4	5/8/2015	5/26/2015	7,130.0	7,132.0
Frac Plug	4	5/8/2015	5/26/2015	7,342.0	7,344.0
Frac Plug	4	5/8/2015	5/26/2015	7,547.0	7,549.0
Frac Plug	4	5/8/2015		7,742.0	7,744.0
Frac Plug	4	5/8/2015	5/27/2015	7,957.0	7,959.0
Frac Plug	4	5/7/2015	5/27/2015	8,172.0	8,174.0
Frac Plug	4	5/7/2015	5/27/2015	8,366.0	8,368.0
Frac Plug	4	5/7/2015	5/27/2015	8,571.0	8,573.0
Frac Plug	4	5/7/2015	5/27/2015	8,771.0	8,773.0
Frac Plug	4	5/7/2015	5/27/2015	8,981.0	8,983.0
Frac Plug	4	5/7/2015	5/27/2015	9,186.0	9,188.0
Frac Plug	4	5/7/2015	5/27/2015	9,383.0	9,385.0
Frac Plug	4	5/7/2015	5/27/2015	9,595.0	9,597.0
Frac Plug	4	5/7/2015	5/27/2015	9,804.0	9,806.0
Frac Plug	4	5/6/2015	5/27/2015	9,998.0	10,000.0
Frac Plug	4	5/6/2015	5/27/2015	10,210.0	10,212.0
Frac Plug	4	5/6/2015	5/27/2015	10,408.0	10,410.0
Frac Plug	4	5/6/2015	5/27/2015	10,620.0	10,622.0
Frac Plug	4	5/6/2015	5/27/2015	10,824.0	10,826.0
Frac Plug	4	5/6/2015	5/27/2015	11,022.0	11,024.0
Frac Plug	4	5/6/2015	5/27/2015	11,234.0	11,236.0
Frac Plug	4	5/5/2015	5/27/2015	11,420.0	11,422.0
Frac Plug	4	5/5/2015	5/27/2015	11,644.0	11,646.0
Frac Plug	4	5/5/2015	5/27/2015	11,849.0	11,851.0
Frac Plug	4	5/5/2015	5/27/2015	12,053.0	12,055.0
Frac Plug	4	5/5/2015	5/27/2015	12,258.0	12,260.0
Frac Plug	4	5/5/2015	5/27/2015	12,471.0	12,473.0
Frac Plug	4	5/5/2015	5/27/2015	12,666.0	12,668.0
Frac Plug	4	5/4/2015	5/27/2015	12,873.0	12,875.0
Frac Plug	4	5/4/2015	5/27/2015	13,072.0	13,074.0
Frac Plug	4	5/4/2015	5/27/2015	13,282.0	13,284.0
Frac Plug	4	5/4/2015	5/27/2015	13,385.0	13,387.0
Frac Plug	4	5/4/2015	5/27/2015	13,532.0	13,534.0

Bottom Hole Cores

Date	Core #	Top (ftKB)	Btm (ftKB)	Recov (ft)

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