Lease Review All - Frac Summary

Well Name: RAZOR 33M-2801

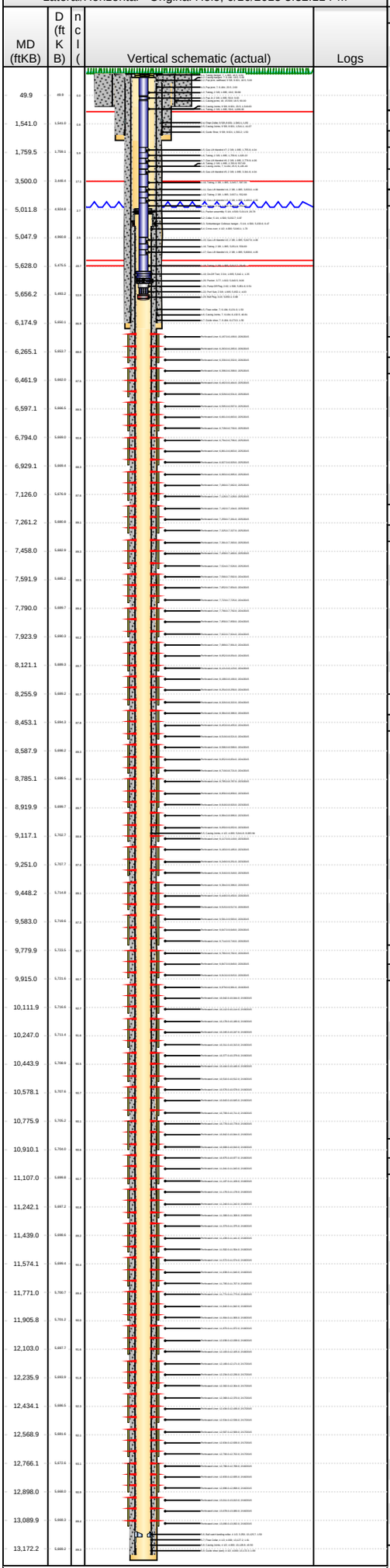
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233925600	1CO0761111		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,747.50	4,729.00			13,182.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
1/10/2015	2/25/2015	Redtail	Charles Ohlson	565.0	FSL	711.0	FWL

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	SW			33			10	N	58	W	

Lateral/Horizontal - Original Hole, 6/16/2015 3:32:11 PM



Wellbore Sections

Wellbore Name	Start Date	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Original Hole	12/11/2014	24	18.5	108.5
Original Hole	1/10/2015	13 1/2	108.5	1,600.0
Original Hole	1/11/2015	8 3/4	1,600.0	6,195.0
Original Hole	1/15/2015	6	6,195.0	13,182.0

Conductor Pipe, 108.5ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
16	42.09	J-55	18.5	108.5	90.00	Casing joints

Surface Csg, 1,583.7ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
9 5/8	36.00	J-55	18.5	18.5	0.00	Landing joint
9 5/8	36.00	J-55	18.5	23.5	5.00	Pup joint, wellhead
9 5/8	36.00	J-55	23.5	1,540.1	1,516.63	Casing Joints
9 5/8	36.00	J-55	1,540.1	1,541.1	1.00	Float Collar
9 5/8	36.00	J-55	1,541.1	1,582.2	41.07	Casing Joints
9 5/8	36.00	J-55	1,582.2	1,583.7	1.50	Guide Shoe

Frac String, 5,016.8ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
7			12.0	14.1	2.10	Casing Hanger
4 1/2	11.60	P-110	14.1	57.4	43.29	Casing Joints
4 1/2	11.60	P-110	57.4	66.9	9.48	Pup Joint 3.24ft, 6.24ft
4 1/2	11.60	P-110	66.9	5,001.8	4,934.93	Casing Joints
4 1/2			5,001.8	5,005.9	4.14	Handling Pup
4 1/2			5,005.9	5,016.8	10.90	Seal Assembly

Intermediate Csg, 6,174.8ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
7	29.00	P-110	18.5	18.5	0.00	Landing joint
7	29.00	P-110	18.5	23.5	5.00	Casing hangert
7	29.00	P-110	23.5	25.5	2.00	Pup joint
7	29.00	P-110	25.5	6,131.0	6,105.49	Casing Joints
7	29.00	P-110	6,131.0	6,132.5	1.50	Float collar
7	29.00	P-110	6,132.5	6,173.3	40.81	Casing Joints
7	29.00	P-110	6,173.3	6,174.8	1.50	Guide shoe

Liner, 13,174.0ftKB

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
5 1/4	11.60	P-110	5,011.9	5,032.7	20.78	Packer assembly
5 1/4	11.60	P-110	5,032.7	5,033.6	0.87	Collar
5 1/4	11.60	P-110	5,033.6	5,040.1	6.47	Schlumberger Collosus hanger.
4 1/2	11.60	P-110	5,040.1	5,041.8	1.70	Cross over
4 1/2	11.60	P-110	5,041.8	13,125.7	8,083.94	Casing Joints
4 1/2	11.60	P-110	13,125.7	13,127.2	1.50	Ball catch landing collar
4 1/2	11.60	P-110	13,127.2	13,128.8	1.61	Float Collar
4 1/2	11.60	P-110	13,128.8	13,172.3	43.50	Casing Joints
4 1/2	11.60	P-110	13,172.3	13,174.0	1.69	Guide shoe (wet)

Cement Stages

Des	Pump Start Date	Drill Out Date	Top (ftKB)	Btm (ftKB)	Top Meas Meth
Conductor Cement	12/11/2014		18.5	108.5	Returns to Surface
Surface Casing Cement	1/10/2015		18.5	1,583.7	Returns to Surface
Intermediate Casing Cement	1/15/2015		18.5	6,174.8	Returns to Surface
Liner Cement	1/18/2015		5,011.9	13,174.0	Volume Calculations

Perforations

Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
Perforated Liner	2/26/2015	6,197.0	6,199.0	Niobrara, Original Hole
Perforated Liner	2/26/2015	6,263.0	6,265.0	Niobrara, Original Hole
Perforated Liner	2/26/2015	6,330.0	6,332.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,396.0	6,398.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,462.0	6,464.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,529.0	6,531.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,595.0	6,597.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,661.0	6,663.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,728.0	6,730.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,794.0	6,796.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,861.0	6,863.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,927.0	6,929.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	6,993.0	6,995.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	7,060.0	7,062.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	7,126.0	7,128.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	7,192.0	7,194.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	7,259.0	7,261.0	Niobrara, Original Hole

Report Printed: 6/16/2015

Lease Review All - Frac Summary

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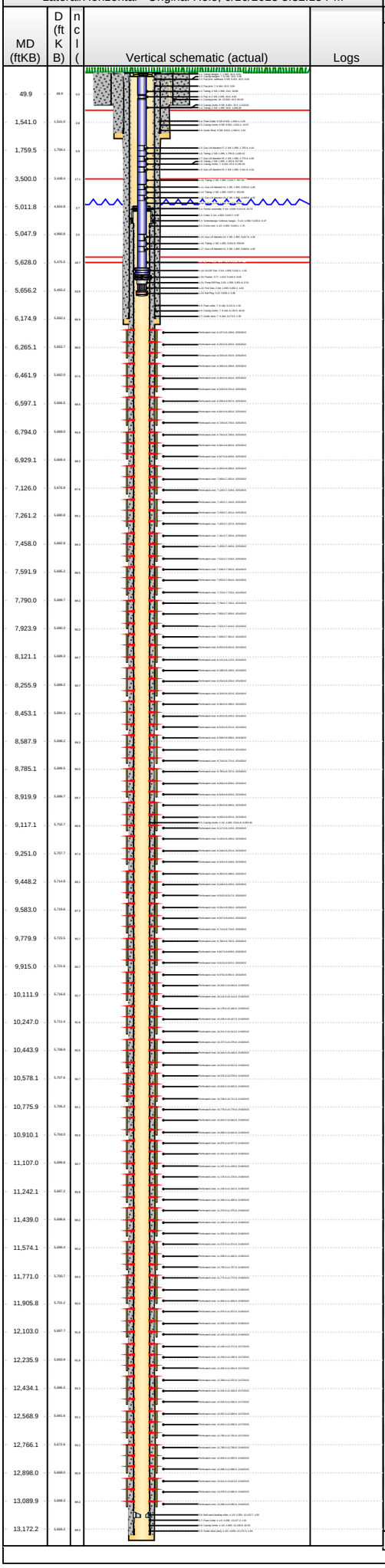
Lot	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Section Suffix	Section Type	Township	Township N/S Dir	Range	Range E/W Dir	Meridian
	SW	SW			33			10	N	58	W	

Lateral/Horizontal - Original Hole, 6/16/2015 3:32:13 PM



Perforations

Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
Perforated Liner	2/25/2015	7,325.0	7,327.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	7,391.0	7,393.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	7,458.0	7,460.0	Niobrara, Original Hole
Perforated Liner	2/25/2015	7,524.0	7,526.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	7,590.0	7,592.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	7,652.0	7,654.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	7,723.0	7,725.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	7,790.0	7,792.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	7,856.0	7,858.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	7,922.0	7,924.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	7,989.0	7,991.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,052.0	8,054.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,121.0	8,123.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,188.0	8,190.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,254.0	8,256.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,320.0	8,322.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,384.0	8,386.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,453.0	8,455.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,519.0	8,521.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,586.0	8,588.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,652.0	8,654.0	Niobrara, Original Hole
Perforated Liner	2/24/2015	8,719.0	8,721.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	8,785.0	8,787.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	8,856.0	8,858.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	8,918.0	8,920.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	8,984.0	8,986.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	9,050.0	9,052.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	9,117.0	9,119.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	9,183.0	9,185.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	9,249.0	9,251.0	Niobrara, Original Hole
Perforated Liner	2/23/2015	9,316.0	9,318.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,384.0	9,386.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,448.0	9,450.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,515.0	9,517.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,581.0	9,583.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,647.0	9,649.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,714.0	9,716.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,780.0	9,782.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,847.0	9,849.0	Niobrara, Original Hole
Perforated Liner	2/20/2015	9,913.0	9,915.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	9,979.0	9,981.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,042.0	10,044.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,112.0	10,114.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,178.0	10,180.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,245.0	10,247.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,311.0	10,313.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,377.0	10,379.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,444.0	10,446.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,510.0	10,512.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,576.0	10,578.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,643.0	10,645.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,709.0	10,711.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,776.0	10,778.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,842.0	10,844.0	Niobrara, Original Hole
Perforated Liner	2/19/2015	10,908.0	10,910.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	10,975.0	10,977.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,041.0	11,043.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,107.0	11,109.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,176.0	11,178.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,240.0	11,242.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,306.0	11,308.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,373.0	11,375.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,439.0	11,441.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,502.0	11,504.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,572.0	11,574.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,638.0	11,640.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,705.0	11,707.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,771.0	11,773.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,840.0	11,842.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	11,904.0	11,906.0	Niobrara, Original Hole

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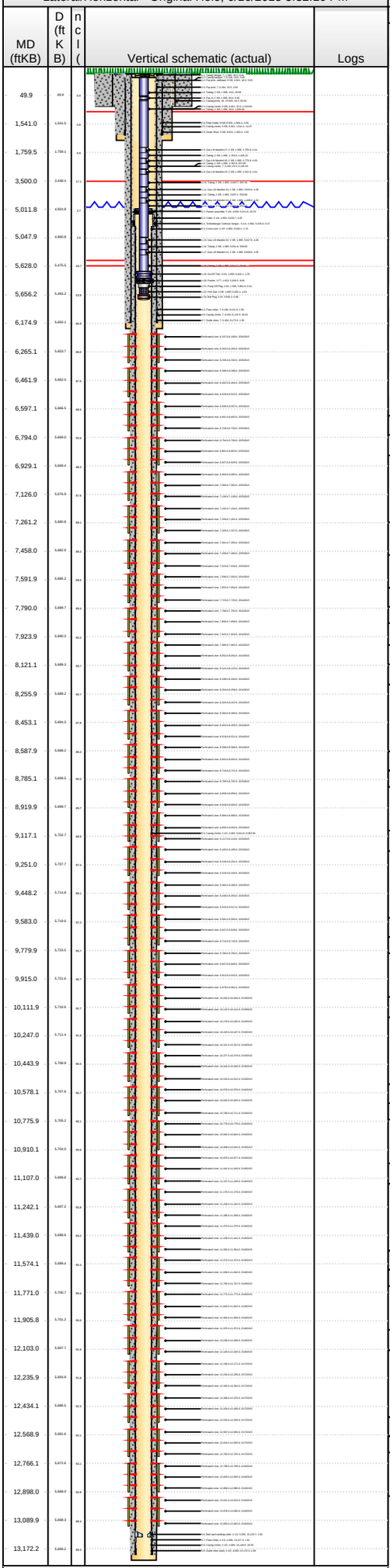
Lateral/Horizontal - Original Hole, 6/16/2015 3:32:16 PM



Perforations

Type of Hole	Date	Top (ftKB)	Btm (ftKB)	Zone
Perforated Liner	2/18/2015	11,970.0	11,972.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	12,036.0	12,038.0	Niobrara, Original Hole
Perforated Liner	2/18/2015	12,103.0	12,105.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,169.0	12,171.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,234.0	12,236.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,302.0	12,304.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,368.0	12,370.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,434.0	12,436.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,534.0	12,536.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,567.0	12,569.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,634.0	12,636.0	Niobrara, Original Hole
Perforated Liner	2/17/2015	12,700.0	12,702.0	Niobrara, Original Hole
Perforated Liner	2/16/2015	12,766.0	12,768.0	Niobrara, Original Hole
Perforated Liner	2/16/2015	12,833.0	12,835.0	Niobrara, Original Hole
Perforated Liner	2/16/2015	12,896.0	12,898.0	Niobrara, Original Hole
Perforated Liner	2/16/2015	13,011.0	13,013.0	Niobrara, Original Hole
Perforated Liner	2/16/2015	13,078.0	13,080.0	Niobrara, Original Hole
Perforated Liner	2/16/2015	13,090.0	13,092.0	Niobrara, Original Hole

Stimulations & Treatments

Sand Frac on 2/16/2015 06:00

Comment

Treatment End Date:2/25/2015; Number of staged intervals: 35; Min frac gradient: 0.769 psi/ft; Number of perfs: 1260; XL Gel: 61862 bbl; Linear Gel: 13163 bbl; 15% HCL: 768 bbl; Slickwater: 31932 bbl; Freshwater: 910 bbl

Total Clean Volu...	Vol Slurry Tot (bbl)	Proppant Desig...	Proppant Frm (lb)	P Max (psi)	Avg Treat...	Avg Treat...	Max Tre...	Frac Gr...
108634.00	113411.10	4,985,300.0	4,477,303.0	9,768.0	4,717.0	54.10	63.60	0.78

Total Add Amount

Proppant Ottawa 20/40 4362607 lb; Proppant Ottawa 40/70 114696 lb

Stim/Treat Fluids

Fluid Name
Trident XL Gel; CMHPG Linear Gel; 15% HCL

Stim/Treat Stages

Interval 1

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
1	2/16/2015	13,011.0	13,092.0	4090.00	4314.00	XL Gel:1392 bbl;Linear Gel:397 bbl; 15% HCL:12 bbl; Slickwater:2279bbl;Freshwater:10bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
1	Proppant	Ottawa 20/40	85,993.0	lb	20/40
1	Proppant	Ottawa 40/70	3,020.0	lb	40/70

Interval 2

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
2	2/17/2015	12,766.0	12,898.0	2789.90	2920.00	XL Gel:1463 bbl;Linear Gel:309 bbl; 15% HCL:18 bbl; Slickwater:990bbl;Freshwater:10bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
2	Proppant	Ottawa 20/40	71,761.0	lb	20/40
2	Proppant	Ottawa 40/70	3,000.0	lb	40/70

Interval 3

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
3	2/17/2015	12,567.0	12,702.0	2860.20	2988.30	XL Gel:1502 bbl;Linear Gel:314 bbl; 15% HCL:12 bbl; Slickwater:1023bbl;Freshwater:10bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
3	Proppant	Ottawa 20/40	90,024.0	lb	20/40
3	Proppant	Ottawa 40/70	3,167.0	lb	40/70

Interval 4

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
4	2/17/2015	12,368.0	12,536.0	3057.50	3159.50	XL Gel:1568 bbl;Linear Gel:312 bbl; 15% HCL:12 bbl; Slickwater:1146bbl;Freshwater:20bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
4	Proppant	Ottawa 20/40	97,710.0	lb	20/40
4	Proppant	Ottawa 40/70	3,319.0	lb	40/70

Interval 5

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
5	2/17/2015	12,169.0	12,304.0	3139.80	3270.10	XL Gel:1792 bbl;Linear Gel:272 bbl; 15% HCL:12 bbl; Slickwater:1054bbl;Freshwater:10bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
5	Proppant	Ottawa 20/40	124,877.0	lb	20/40
5	Proppant	Ottawa 40/70	3,328.0	lb	40/70

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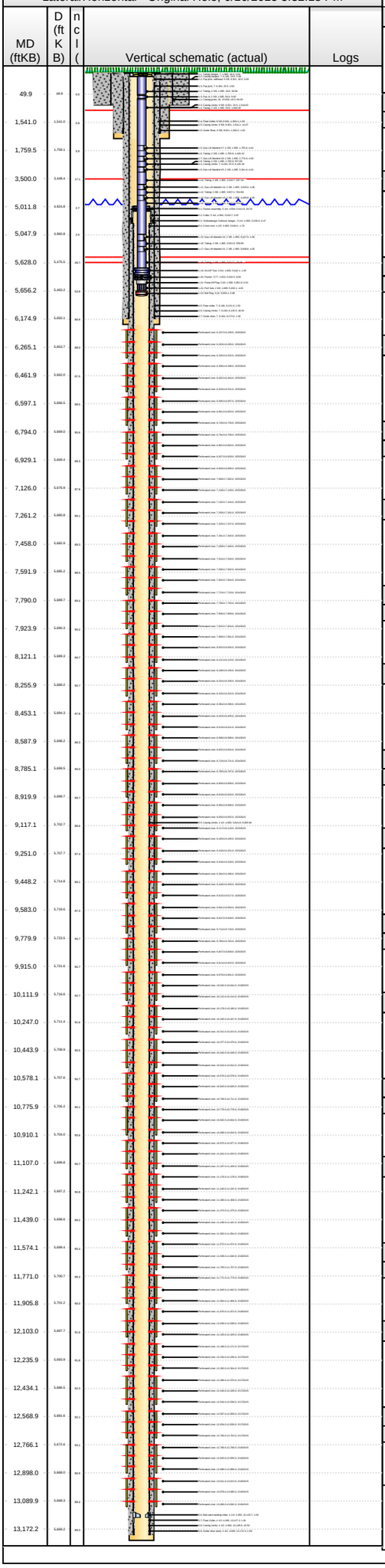
Lateral/Horizontal - Original Hole, 6/16/2015 3:32:18 PM



Stim/Treat Stages

Interval 6

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
6	2/17/2015	11,970.0	12,105.0	3217.40	3360.90	XL Gel:1901 bbl;Linear Gel:290 bbl; 15% HCL:12 bbl; Slickwater:1005bbl;Freshwater:10bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
6	Proppant	Ottawa 20/40	141,791.0	lb	20/40
6	Proppant	Ottawa 40/70	3,290.0	lb	40/70

Interval 7

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
7	2/18/2015	11,771.0	11,906.0	2947.70	3056.70	XL Gel:1626 bbl;Linear Gel:299 bbl; 15% HCL:24 bbl; Slickwater:963bbl;Freshwater:36bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
7	Proppant	Ottawa 20/40	110,125.0	lb	20/40
7	Proppant	Ottawa 40/70	3,432.0	lb	40/70

Interval 8

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
8	2/18/2015	11,572.0	11,707.0	2981.70	3098.30	XL Gel:1669 bbl;Linear Gel:297 bbl; 15% HCL:24 bbl; Slickwater:957bbl;Freshwater:36bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
8	Proppant	Ottawa 20/40	113,732.0	lb	20/40
8	Proppant	Ottawa 40/70	3,249.0	lb	40/70

Interval 9

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
9	2/18/2015	11,373.0	11,504.0	3390.90	3525.10	XL Gel:2188 bbl;Linear Gel:206 bbl; 15% HCL:24 bbl; Slickwater:923bbl;Freshwater:50bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
9	Proppant	Ottawa 20/40	141,853.0	lb	20/40
9	Proppant	Ottawa 40/70	3,246.0	lb	40/70

Interval 10

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
10	2/18/2015	11,176.0	11,308.0	3387.80	3529.30	XL Gel:1912 bbl;Linear Gel:393 bbl; 15% HCL:24 bbl; Slickwater:1039bbl;Freshwater:20bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
10	Proppant	Ottawa 20/40	137,946.0	lb	20/40
10	Proppant	Ottawa 40/70	3,416.0	lb	40/70

Interval 11

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
11	2/18/2015	10,975.0	11,109.0	3303.90	3442.60	XL Gel:1911 bbl;Linear Gel:393 bbl; 15% HCL:24 bbl; Slickwater:956bbl;Freshwater:20bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
11	Proppant	Ottawa 20/40	142,278.0	lb	20/40
11	Proppant	Ottawa 40/70	3,405.0	lb	40/70

Interval 12

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
12	2/19/2015	10,776.0	10,910.0	3380.30	3511.60	XL Gel:1912 bbl;Linear Gel:387 bbl; 15% HCL:24 bbl; Slickwater:1032bbl;Freshwater:25bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
12	Proppant	Ottawa 20/40	141,901.0	lb	20/40
12	Proppant	Ottawa 40/70	3,250.0	lb	40/70

Interval 13

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
13	2/19/2015	10,576.0	10,711.0	3265.20	3457.00	XL Gel:1882 bbl;Linear Gel:389 bbl; 15% HCL:24 bbl; Slickwater:936bbl;Freshwater:34bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
13	Proppant	Ottawa 20/40	140,404.0	lb	20/40
13	Proppant	Ottawa 40/70	3,532.0	lb	40/70

Interval 14

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
14	2/19/2015	10,377.0	10,512.0	3268.00	3524.20	XL Gel:1907 bbl;Linear Gel:345 bbl; 15% HCL:24 bbl; Slickwater:965bbl;Freshwater:28bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
14	Proppant	Ottawa 20/40	140,760.0	lb	20/40
14	Proppant	Ottawa 40/70	3,234.0	lb	40/70

Report Printed: 6/16/2015

Lease Review All - Frac Summary

Well Name: RAZOR 33M-2801

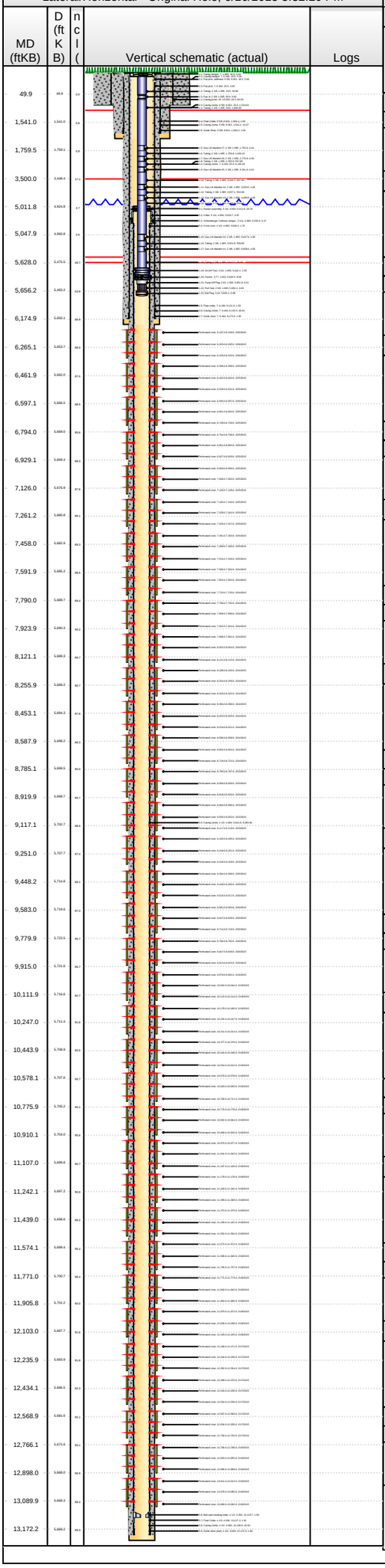
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233925600	1CO0761111		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,747.50	4,729.00			13,182.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
1/10/2015	2/25/2015	Redtail	Charles Ohlson	565.0	FSL	711.0	FWL

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	SW			33			10	N	58	W	

Lateral/Horizontal - Original Hole, 6/16/2015 3:32:20 PM



Stim/Treat Stages

Interval 15

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
15	2/19/2015	10,178.0	10,313.0	3284.00	3438.80	XL Gel:1904 bbl;Linear Gel:400 bbl; 15% HCL:24 bbl; Slickwater:929bbl;Freshwater:28bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
15	Proppant	Ottawa 20/40	141,728.0	lb	20/40
15	Proppant	Ottawa 40/70	3,333.0	lb	40/70

Interval 16

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
16	2/19/2015	9,979.0	10,114.0	3251.60	3405.00	XL Gel:1905 bbl;Linear Gel:401 bbl; 15% HCL:24 bbl; Slickwater:897bbl;Freshwater:25bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
16	Proppant	Ottawa 20/40	139,120.0	lb	20/40
16	Proppant	Ottawa 40/70	3,743.0	lb	40/70

Interval 17

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
17	2/19/2015	9,780.0	9,915.0	3260.10	3395.00	XL Gel:1908 bbl;Linear Gel:413 bbl; 15% HCL:24 bbl; Slickwater:890bbl;Freshwater:25bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
17	Proppant	Ottawa 20/40	141,970.0	lb	20/40
17	Proppant	Ottawa 40/70	3,347.0	lb	40/70

Interval 18

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
18	2/20/2015	9,581.0	9,716.0	3299.70	3421.00	XL Gel:1861 bbl;Linear Gel:435 bbl; 15% HCL:24 bbl; Slickwater:953bbl;Freshwater:27bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
18	Proppant	Ottawa 20/40	138,184.0	lb	20/40
18	Proppant	Ottawa 40/70	3,057.0	lb	40/70

Interval 19

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
19	2/20/2015	9,384.0	9,517.0	3285.00	3428.00	XL Gel:1961 bbl;Linear Gel:412 bbl; 15% HCL:24 bbl; Slickwater:869bbl;Freshwater:20bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
19	Proppant	Ottawa 20/40	141,716.0	lb	20/40
19	Proppant	Ottawa 40/70	3,229.0	lb	40/70

Interval 20

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
20	2/23/2015	9,183.0	9,318.0	2787.70	2827.20	XL Gel:1573 bbl;Linear Gel:283 bbl; 15% HCL:24 bbl; Slickwater:883bbl;Freshwater:25bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
20	Proppant	Ottawa 20/40	59,871.0	lb	20/40
20	Proppant	Ottawa 40/70	3,256.0	lb	40/70

Interval 21

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
21	2/23/2015	8,984.0	9,119.0	3119.50	3260.00	XL Gel:1911 bbl;Linear Gel:307 bbl; 15% HCL:24 bbl; Slickwater:840bbl;Freshwater:38bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
21	Proppant	Ottawa 20/40	141,730.0	lb	20/40
21	Proppant	Ottawa 40/70	3,218.0	lb	40/70

Interval 22

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
22	2/23/2015	8,785.0	8,920.0	3222.10	3371.40	XL Gel:1916 bbl;Linear Gel:400 bbl; 15% HCL:24 bbl; Slickwater:866bbl;Freshwater:17bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
22	Proppant	Ottawa 20/40	141,112.0	lb	20/40
22	Proppant	Ottawa 40/70	3,366.0	lb	40/70

Interval 23

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
23	2/23/2015	8,586.0	8,721.0	3080.60	3200.40	XL Gel:1806 bbl;Linear Gel:413 bbl; 15% HCL:24 bbl; Slickwater:808bbl;Freshwater:30bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
23	Proppant	Ottawa 20/40	118,630.0	lb	20/40
23	Proppant	Ottawa 40/70	3,255.0	lb	40/70

Report Printed: 6/16/2015

Lease Review All - Frac Summary

Well Name: RAZOR 33M-2801

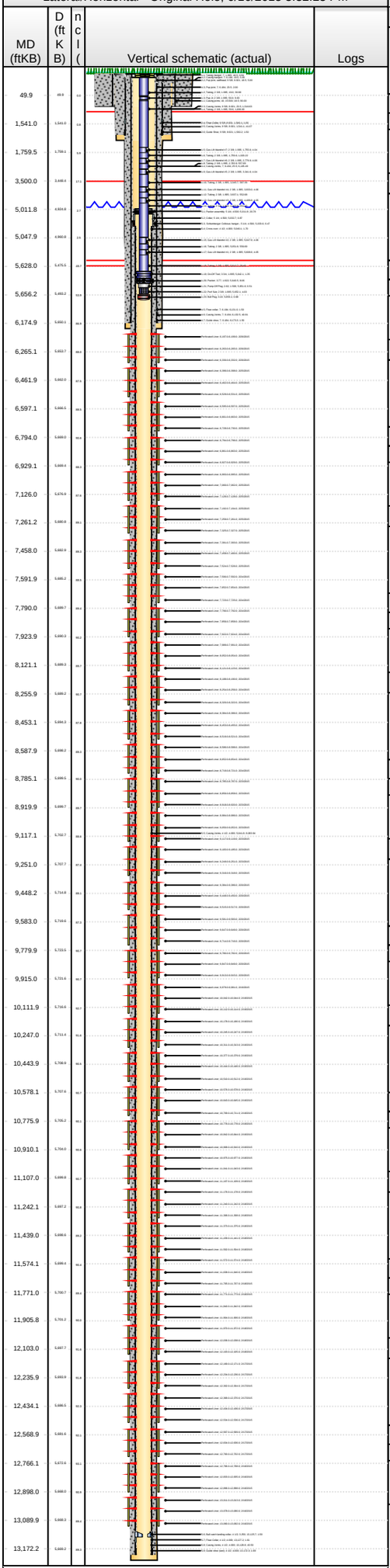
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233925600	1CO0761111		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,747.50	4,729.00			13,182.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
1/10/2015	2/25/2015	Redtail	Charles Ohlson	565.0	FSL	711.0	FWL

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	SW			33			10	N	58	W	

Lateral/Horizontal - Original Hole, 6/16/2015 3:32:23 PM



Stim/Treat Stages

Interval 24

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
24	2/24/2015	8,384.0	8,521.0	3049.40	3189.50	XL Gel:1767 bbl;Linear Gel:477 bbl; 15% HCL:24 bbl; Slickwater:759bbl;Freshwater:23bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
24	Proppant	Ottawa 20/40	141,784.0	lb	20/40
24	Proppant	Ottawa 40/70	3,318.0	lb	40/70

Interval 25

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
25	2/24/2015	8,188.0	8,322.0	3069.80	3223.90	XL Gel:1782 bbl;Linear Gel:444 bbl; 15% HCL:24 bbl; Slickwater:792bbl;Freshwater:29bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
25	Proppant	Ottawa 20/40	140,973.0	lb	20/40
25	Proppant	Ottawa 40/70	3,210.0	lb	40/70

Interval 26

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
26	2/24/2015	7,989.0	8,123.0	3046.90	3197.70	XL Gel:1832 bbl;Linear Gel:406 bbl; 15% HCL:24 bbl; Slickwater:764bbl;Freshwater:22bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
26	Proppant	Ottawa 20/40	143,231.0	lb	20/40
26	Proppant	Ottawa 40/70	3,320.0	lb	40/70

Interval 27

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
27	2/24/2015	7,790.0	7,924.0	3054.10	3192.20	XL Gel:1811 bbl;Linear Gel:413 bbl; 15% HCL:24 bbl; Slickwater:776bbl;Freshwater:31bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
27	Proppant	Ottawa 20/40	142,480.0	lb	20/40
27	Proppant	Ottawa 40/70	3,345.0	lb	40/70

Interval 28

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
28	2/24/2015	7,590.0	7,725.0	3039.20	3183.80	XL Gel:1783 bbl;Linear Gel:413 bbl; 15% HCL:24 bbl; Slickwater:792bbl;Freshwater:28bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
28	Proppant	Ottawa 20/40	142,068.0	lb	20/40
28	Proppant	Ottawa 40/70	3,127.0	lb	40/70

Interval 29

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
29	2/24/2015	7,391.0	7,526.0	3020.90	3163.20	XL Gel:1805 bbl;Linear Gel:413 bbl; 15% HCL:24 bbl; Slickwater:754bbl;Freshwater:25bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
29	Proppant	Ottawa 20/40	141,306.0	lb	20/40
29	Proppant	Ottawa 40/70	3,269.0	lb	40/70

Interval 30

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
30	2/25/2015	7,192.0	7,327.0	2696.60	2777.50	XL Gel:1482 bbl;Linear Gel:387 bbl; 15% HCL:24 bbl; Slickwater:779bbl;Freshwater:25bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
30	Proppant	Ottawa 20/40	87,861.0	lb	20/40
30	Proppant	Ottawa 40/70	3,207.0	lb	40/70

Interval 31

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
31	2/25/2015	6,993.0	7,128.0	2591.40	2669.80	XL Gel:1380 bbl;Linear Gel:429 bbl; 15% HCL:24 bbl; Slickwater:742bbl;Freshwater:16bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
31	Proppant	Ottawa 20/40	78,368.0	lb	20/40
31	Proppant	Ottawa 40/70	3,289.0	lb	40/70

Interval 32

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
32	2/25/2015	6,794.0	6,929.0	2620.00	2702.00	XL Gel:1471 bbl;Linear Gel:404 bbl; 15% HCL:24 bbl; Slickwater:693bbl;Freshwater:28bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
32	Proppant	Ottawa 20/40	74,734.0	lb	20/40
32	Proppant	Ottawa 40/70	3,246.0	lb	40/70

Report Printed: 6/16/2015

Lease Review All - Frac Summary

Well Name: RAZOR 33M-2801

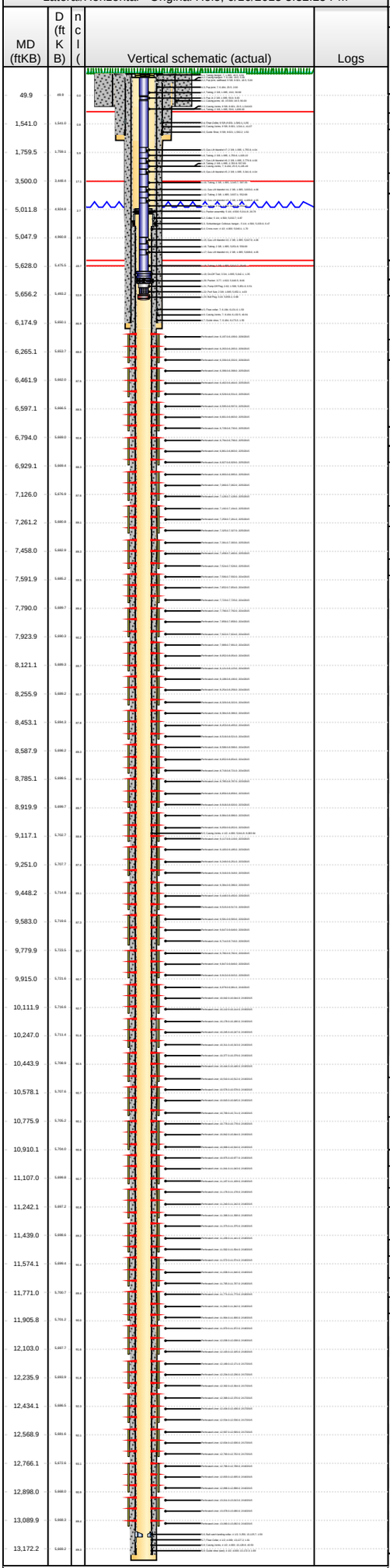
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233925600	1CO0761111		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,747.50	4,729.00			13,182.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
1/10/2015	2/25/2015	Redtail	Charles Ohlson	565.0	FSL	711.0	FWL

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	SW			33			10	N	58	W	

Lateral/Horizontal - Original Hole, 6/16/2015 3:32:25 PM



Stim/Treat Stages

Interval 33

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
33	2/25/2015	6,595.0	6,730.0	2953.70	3098.50	XL Gel:1798 bbl;Linear Gel:487 bbl; 15% HCL:24 bbl; Slickwater:621bbl;Freshwater:25bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
33	Proppant	Ottawa 20/40	145,128.0	lb	20/40
33	Proppant	Ottawa 40/70	3,243.0	lb	40/70

Interval 34

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
34	2/25/2015	6,396.0	6,531.0	2930.00	3068.20	XL Gel:1774 bbl;Linear Gel:414 bbl; 15% HCL:24 bbl; Slickwater:670bbl;Freshwater:48bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
34	Proppant	Ottawa 20/40	138,650.0	lb	20/40
34	Proppant	Ottawa 40/70	3,161.0	lb	40/70

Interval 35

Stg #	Start Date	Top (ftKB)	Btm (ftKB)	Vol Clean...	Vol Slurry...	Comment
35	2/25/2015	6,197.0	6,332.0	2891.40	3040.40	XL Gel:1810 bbl;Linear Gel:413 bbl; 15% HCL:24 bbl; Slickwater:589bbl;Freshwater:56bbl

Stim/Treat Additives

Stg #	Add	Type	Amount	Units	Sand Size
35	Proppant	Ottawa 20/40	140,808.0	lb	20/40
35	Proppant	Ottawa 40/70	3,269.0	lb	40/70

Tubing - Production set at 5,656.8ftKB on 3/16/2015 06:00

Set Depth (ftKB)	Comment	Run Date	Pull Date
5,656.8		3/16/2015	

Item Des	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	7	1.995	0.50	18.5	19.0
Tubing	2 3/8	1.995	30.98	19.0	50.0
Pup Jt	2 3/8	1.995	9.63	50.0	59.6
Tubing	2 3/8	1.995	1,696.00	59.6	1,755.6
Gas Lift Mandrel #7	2 3/8	1.995	4.04	1,755.6	1,759.7
Tubing	2 3/8	1.995	1,020.22	1,759.7	2,779.9
Gas Lift Mandrel #6	2 3/8	1.995	4.06	2,779.9	2,783.9
Tubing	2 3/8	1.995	557.69	2,783.9	3,341.6
Gas Lift Mandrel #5	2 3/8	1.995	4.04	3,341.6	3,345.7
Tubing	2 3/8	1.995	587.39	3,345.7	3,933.1
Gas Lift Mandrel #4	2 3/8	1.995	4.06	3,933.1	3,937.1
Tubing	2 3/8	1.995	552.68	3,937.1	4,489.8
Gas Lift Mandrel #3	2 3/8	1.995	4.05	4,489.8	4,493.8
Tubing	2 3/8	1.995	554.03	4,493.8	5,047.9
Gas Lift Mandrel #2	2 3/8	1.995	4.06	5,047.9	5,051.9
Tubing	2 3/8	1.995	556.69	5,051.9	5,608.6
Gas Lift Mandrel #1	2 3/8	1.995	4.05	5,608.6	5,612.7
Tubing	2 3/8	1.995	29.48	5,612.7	5,642.2
On-Off Tool	3 3/4	1.995	1.35	5,642.2	5,643.5
Packer	3.766	1.922	8.06	5,643.5	5,651.6
Pump Off Plug	2.622	1.500	0.51	5,651.6	5,652.1
Perf Sub	2 3/8	1.995	4.03	5,652.1	5,656.1
Bull Plug	3.1		0.68	5,656.1	5,656.8

Rod Strings

<des> on <dttmrun>

Rod Description	Run Date	Pull Date

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)
CFP	4	2/26/2015	3/13/2015	6,363.0	6,365.0
CFP	4	2/25/2015	3/13/2015	6,570.0	6,572.0
CFP	4	2/25/2015	3/13/2015	6,745.0	6,747.0
CFP	4	2/25/2015	3/13/2015	6,950.0	6,952.0
CFP	4	2/25/2015	3/13/2015	7,153.0	7,155.0
CFP	4	2/25/2015	3/13/2015	7,353.0	7,355.0
CFP	4	2/25/2015	3/13/2015	7,557.0	7,559.0
CFP	4	2/24/2015	3/13/2015	7,752.0	7,754.0
CFP	4	2/24/2015	3/13/2015	7,954.0	7,956.0
CFP	4	2/24/2015	3/13/2015	8,150.0	8,152.0
CFP	4	2/24/2015	3/13/2015	8,354.0	8,356.0

Report Printed: 6/16/2015

Lease Review All - Frac Summary

Well Name: RAZOR 33M-2801

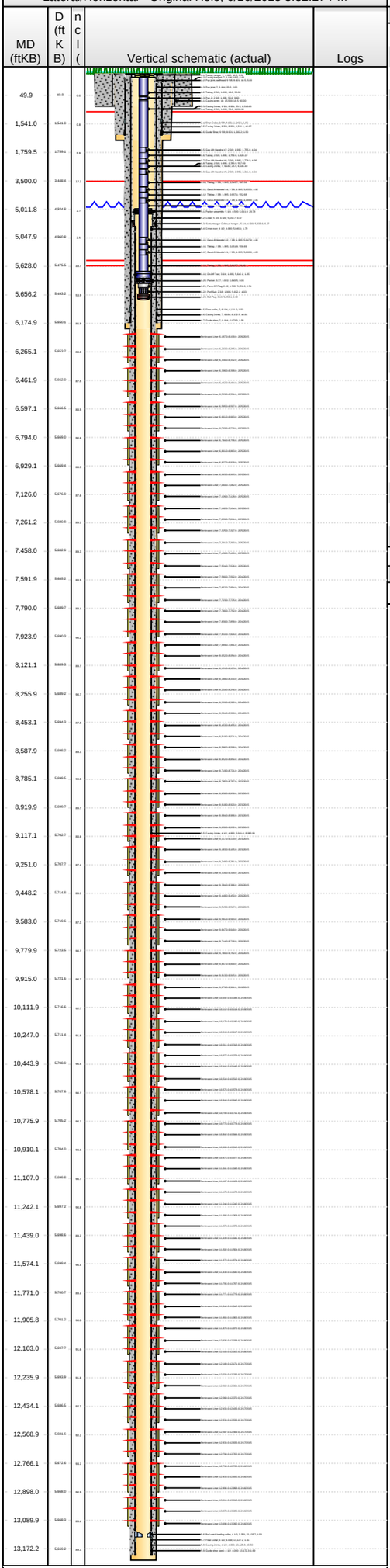
API Number	WPC ID	Well Permit Number	Field Name	County	State
051233925600	1CO0761111		DJ Horizontal Niobrara	Weld	CO

Well Configuration Type	Orig KB Elv (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	Tubing Head Elevation (ft)	Total Depth (ftKB)
Lateral/Horizontal	4,747.50	4,729.00			13,182.0

Original Spud Date	Completion Date	Asset Group	Responsible Engineer	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
1/10/2015	2/25/2015	Redtail	Charles Ohlson	565.0	FSL	711.0	FWL

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	SW			33			10	N	58	W	

Lateral/Horizontal - Original Hole, 6/16/2015 3:32:27 PM



Other In Hole

Des	OD (in)	Run Date	Pull Date	Top (ftKB)	Btm (ftKB)
CFP	4	2/24/2015	3/13/2015	8,543.0	8,545.0
CFP	4	2/24/2015	3/13/2015	8,747.0	8,749.0
CFP	4	2/23/2015	3/13/2015	8,953.0	8,955.0
CFP	4	2/23/2015	3/13/2015	9,150.0	9,152.0
CFP	4	2/23/2015	3/13/2015	9,350.0	9,352.0
CFP	4	2/20/2015	3/13/2015	9,530.0	9,532.0
CFP	4	2/20/2015	3/13/2015	9,740.0	9,742.0
CFP	4	2/20/2015	3/13/2015	9,946.0	9,948.0
CFP	4	2/19/2015	3/13/2015	10,145.0	10,147.0
CFP	4	2/19/2015	3/13/2015	10,334.0	10,336.0
CFP	4	2/19/2015	3/13/2015	10,527.0	10,529.0
CFP	4	2/19/2015	3/13/2015	10,737.0	10,739.0
CFP	4	2/19/2015	3/13/2015	10,938.0	10,940.0
CFP	4	2/18/2015	3/13/2015	11,151.0	11,153.0
CFP	4	2/18/2015	3/14/2015	11,345.0	11,347.0
CFP	4	2/18/2015	3/14/2015	11,528.0	11,530.0
CFP	4	2/18/2015	3/14/2015	11,736.0	11,738.0
CFP	4	2/18/2015	3/14/2015	11,943.0	11,945.0
CFP	4	2/18/2015	3/14/2015	12,137.0	12,139.0
CFP	4	2/17/2015	3/14/2015	12,335.0	12,337.0
CFP	4	2/17/2015	3/14/2015	12,534.0	12,536.0
CFP	4	2/17/2015	3/14/2015	12,726.0	12,728.0
CFP	4	2/16/2015	3/14/2015	12,921.0	12,923.0
CFP	4	2/16/2015	3/14/2015	13,100.0	13,102.0

Bottom Hole Cores

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

Report Printed: 6/16/2015