



Original Hole [Land]			Well Header															
MD (ftKB)	Incl (°)	Vertical schematic (actual)	Surface UWI 0512348045		Asset Team		Production Tree Location Land											
			Original RKB Elevation (ft) 4,812.00		Original KB to Ground (ft) 30.00		Original Spud Date 1/6/2019		Abandon Date									
			Range		Well Sub-Status PR				High Pressure N									
			Directions To Well CR 34 and CR 53, East .1 mile, South 2.5 miles, West .5 miles into location.				Latitude (°) 40.197079181		Longitude (°) -104.575949517									
			Comment															
			Congressional Location															
			Quarter 3 SE		Quarter 4 NW		Section 29		Township 3		Township N/S Dir N		Range 64		Range E/W Dir W			
			Rig Operator															
			Rig/Unit Supervisor ABELARDO RANGEL															
			Daily Cost Summary															
			Sum of Field Est (Cost) 0															
			Wellbore Plug Back Total Depths															
			Date 6/3/2019		PBTD (ftKB) 17,642		Method CASING TALLY		Com DRILLED 42 PLUGS AND CLEANED OUT 30' PAST ALP									
			Wellbore Sections															
			Section Des		Hole Size (in)		Top Depth (ftKB)		Btm Depth (ftKB)									
			CONDUCTOR		26		30.0		110.0									
			SURFACE		13 1/2		110.0		1,969.0									
			PRODUCTION		8 1/2		1,969.0		17,760.0									
			Zone Statuses															
			Zone Name		Status Date				Status									
			NIOBRARA		6/14/2019				PR									
			Casing Strings															
			Conductor, Actual, 110ftKB															
			Casing Description Conductor		Run Date 11/29/2018		OD (in) 16		Wt/Len (lb/ft) 36.94		Grade A-52A		Top Depth (ftKB) 30		Set Depth (ftKB) 110			
			SURFACE, Actual, 1959.5ftKB															
			Casing Description SURFACE		Run Date 1/6/2019		OD (in) 9 5/8		Wt/Len (lb/ft) 36.00		Grade J-55		Top Depth (ftKB) 30		Set Depth (ftKB) 1959.5			
			Production Casing, Actual, 17745.9ftKB															
			Casing Description Production Casing		Run Date 1/10/2019		OD (in) 5 1/2		Wt/Len (lb/ft) 20.00		Grade P110 CYHF		Top Depth (ftKB) 30		Set Depth (ftKB) 17745.9			
			Cement															
			Des		Start Date		Top (ftKB)		Btm (ftKB)									
			Conductor Cement		11/29/2018		30.0		110.0									
			Surface Casing Cement		1/6/2019		30.0		1,959.5									
			Production Casing Cement		1/10/2019		2,380.0		17,745.9									
			Proposed Cement															
			Des		Top (ftKB)		Btm (ftKB)											
			Tubing Strings															
			Tubing Description Tubing - Production		Run Date 6/8/2019		String Make 2 3/8		ID (in) 2.000		Wt (lb/ft) 4.70		Grade L-80		Len (ft) 7,179.39		Set Depth (ftKB) 6,875.6	
			Tubing Components															
			Item Des		OD (in)		Wt (lb/ft)		Grade		Jts		Len (ft)		Btm (ftKB)		Btm (TVD) (ftKB)	
			Mandrel		7		4.70		N-80		1		0.50		30.5		30.5	
			Tubing		2 3/8		4.70		L-80		214		6,789.49		6,820.0		6,643.7	
			X-Profile Nipple		2 9/16		4.70		N-80		1		1.30		6,821.3		6,644.7	
			Tubing		2 3/8		4.70		L-80		12		380.60		7,201.9		6,872.9	
			XN-Profile Nipple		2 9/16		4.70		N-80		1		1.30		7,203.2		6,873.4	
			Tubing Pup Joint		2 3/8		4.70		N-80		1		4.10		7,207.3		6,874.9	
			Pump Off		3 1/16		4.70		N-80		1		1.00		7,208.3		6,875.2	
			Dissolvable Disc Sub															
			Ceramic Rupture Disc Sub		3 1/16		4.70		N-80		1		0.80		7,209.1		6,875.5	
			Mule Shoe		3 1/16		4.70		J-55		1		0.30		7,209.4		6,875.6	



Wellbore Schematic Input Report

Well Name: GUTTERSEN D29-738

Original Hole [Land]			Other In Hole					
MD (ftKB)	Incl (°)	Vertical schematic (actual)	Run Date	Des	Make	OD (in)	Top (ftKB)	Btm (ftKB)
30.5	0.4	Landing Joint, 5 1/2in; 30.5; 30 TVD; 0.54; 30-30.5 TVD; 30-30.5	Proposed Other In Hole					
109.9	0.4	WELLHEAD, 9 5/8in; 36.9; 30 TVD; 6.94; 30-36.9 TVD; 30-36.9	Des		Make		OD (in)	Top (ftKB) Btm (ftKB)
1,917.0	0.6	Conductor, 16in; 110; 30 TVD; 80.00; 30-110 TVD; 30-110	Logs					
1,959.6	0.7	Float Collar, 9 5/8in; 1917.1; S 1916.1 TVD; 1.00; 1916.1-1917.1 TVD; 1916.1-1917.1	Date	Type		Depth Top (MD) (ftKB)		Btm (ftKB)
3,840.9	16.2	Float Shoe, 9 5/8in; 1959.5; 1958 TVD; 1.50; 1958-1959.5 TVD; 1958-1959.5	1/5/2019	MWD		1,969		17,747.0
5,045.3	15.5	Marker Joint, 5 1/2in; 6321.5; 6166.8 TVD; 11.16; 6166.8-6177.6 TVD; 6310.3-6321.5	1/31/2019	USIT/CBL		24		6,749.0
6,310.4	15.7	NIO C CHALK (NIO C CHALK	Perforation Data					
6,819.9	35.8		Linked Zone	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date	
6,903.9	43.1		NIOBRARA, Original Hole	4	7,466.0	7,467.0	3/18/2019	
6,913.1	43.9		NIOBRARA, Original Hole	4	7,494.0	7,495.0	3/18/2019	
7,142.4	64.1		NIOBRARA, Original Hole	4	7,522.0	7,523.0	3/18/2019	
7,203.1	68.6		NIOBRARA, Original Hole	4	7,549.0	7,550.0	3/18/2019	
7,208.3	69.1		NIOBRARA, Original Hole	4	7,579.0	7,580.0	3/18/2019	
7,209.3	69.2		NIOBRARA, Original Hole	4	7,605.0	7,606.0	3/18/2019	
7,465.9	88.8		NIOBRARA, Original Hole	4	7,633.0	7,634.0	3/18/2019	
7,716.9	89.8		NIOBRARA, Original Hole	4	7,657.0	7,658.0	3/18/2019	
7,971.1	89.2		NIOBRARA, Original Hole	4	7,717.0	7,718.0	3/18/2019	
8,020.0	89.3		NIOBRARA, Original Hole	4	7,744.0	7,745.0	3/18/2019	
8,219.2	89.3		NIOBRARA, Original Hole	4	7,773.0	7,774.0	3/18/2019	
8,479.0	89.2		NIOBRARA, Original Hole	4	7,800.0	7,801.0	3/18/2019	
8,720.1	90.0		NIOBRARA, Original Hole	4	7,828.0	7,829.0	3/18/2019	
8,971.1	89.9		NIOBRARA, Original Hole	4	7,856.0	7,857.0	3/18/2019	
9,219.2	89.9		NIOBRARA, Original Hole	4	7,885.0	7,886.0	3/18/2019	
9,473.1	90.0		NIOBRARA, Original Hole	4	7,912.0	7,913.0	3/18/2019	
9,724.1	90.3		NIOBRARA, Original Hole	4	7,971.0	7,972.0	3/17/2019	
9,978.0	90.4		NIOBRARA, Original Hole	4	7,996.0	7,997.0	3/17/2019	
10,226.0	90.4		NIOBRARA, Original Hole	4	8,027.0	8,028.0	3/17/2019	
10,477.0	90.3		NIOBRARA, Original Hole	4	8,051.0	8,052.0	3/17/2019	
10,726.0	90.0		NIOBRARA, Original Hole	4	8,079.0	8,080.0	3/17/2019	
10,978.0	90.4		NIOBRARA, Original Hole	4	8,102.0	8,103.0	3/17/2019	
11,003.9	90.4		NIOBRARA, Original Hole	4	8,135.0	8,136.0	3/17/2019	
11,229.0	90.2		NIOBRARA, Original Hole	4	8,163.0	8,164.0	3/17/2019	
11,482.9	90.1		NIOBRARA, Original Hole	4	8,219.0	8,220.0	3/17/2019	
11,737.9	90.4		NIOBRARA, Original Hole	4	8,246.0	8,247.0	3/17/2019	
11,994.1	90.6		NIOBRARA, Original Hole	4	8,274.0	8,275.0	3/17/2019	
12,253.9	90.5		NIOBRARA, Original Hole	4	8,302.0	8,303.0	3/17/2019	
12,511.2	90.4		NIOBRARA, Original Hole	4	8,327.0	8,328.0	3/17/2019	
12,744.1	90.4		NIOBRARA, Original Hole	4	8,358.0	8,359.0	3/17/2019	
12,977.0	90.4		NIOBRARA, Original Hole	4	8,386.0	8,387.0	3/17/2019	
13,209.0	90.4		NIOBRARA, Original Hole	4	8,412.0	8,413.0	3/17/2019	
13,443.9	90.3		NIOBRARA, Original Hole	4	8,470.0	8,471.0	3/16/2019	
13,676.8	90.3		NIOBRARA, Original Hole	4	8,497.0	8,498.0	3/16/2019	
13,912.1	90.4		NIOBRARA, Original Hole	4	8,525.0	8,526.0	3/16/2019	
14,143.0	90.4		NIOBRARA, Original Hole	4	8,556.0	8,557.0	3/16/2019	
14,377.0	90.3		NIOBRARA, Original Hole	4	8,581.0	8,582.0	3/16/2019	
14,396.3	90.3		NIOBRARA, Original Hole	4	8,609.0	8,610.0	3/16/2019	
14,611.9	90.3		NIOBRARA, Original Hole	4	8,635.0	8,636.0	3/16/2019	
14,842.8	90.2		NIOBRARA, Original Hole	4	8,665.0	8,666.0	3/16/2019	
15,075.1	90.2		NIOBRARA, Original Hole	4	8,720.0	8,721.0	3/16/2019	
15,304.1	90.2		NIOBRARA, Original Hole	4	8,748.0	8,749.0	3/16/2019	
15,535.1	90.2		NIOBRARA, Original Hole	4	8,780.0	8,781.0	3/16/2019	
15,765.1	90.3		NIOBRARA, Original Hole	4	8,804.0	8,805.0	3/16/2019	
15,995.1	90.1		NIOBRARA, Original Hole	4	8,832.0	8,833.0	3/16/2019	
16,227.0	90.2		NIOBRARA, Original Hole	4	8,860.0	8,861.0	3/16/2019	
16,454.1	90.3		NIOBRARA, Original Hole	4	8,888.0	8,889.0	3/16/2019	
16,684.1	90.2		NIOBRARA, Original Hole	4	8,916.0	8,917.0	3/16/2019	
16,914.0	90.2		NIOBRARA, Original Hole	4	8,971.0	8,972.0	3/16/2019	
17,144.0	90.1		NIOBRARA, Original Hole	4	8,995.0	8,996.0	3/16/2019	
17,374.0	90.2							
17,607.6	90.2							
17,612.5	90.2							
17,642.1	90.2							
17,699.5	90.2							
17,746.1	90.1							



Wellbore Schematic Input Report

Well Name: GUTTERSEN D29-738

Original Hole [Land]			Perforation Data				
MD (ftKB)	Incl (°)	Vertical schematic (actual)	Linked Zone	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
30.5	0.4	Landing Joint, 5 1/2in; 30.5; 30 TVD; 0.54; 30-30.5 TVD; 30-30.5	NIOBRARA, Original Hole	4	9,027.0	9,028.0	3/16/2019
109.9	0.4	WELLHEAD, 9 5/8in; 36.9; 30 TVD; 6.94; 30-36.9 TVD; 30-36.9	NIOBRARA, Original Hole	4	9,055.0	9,056.0	3/16/2019
1,917.0	0.6	Conductor, 16in; 110; 30 TVD; 80.00; 30-110 TVD; 30-110	NIOBRARA, Original Hole	4	9,083.0	9,084.0	3/16/2019
1,959.6	0.7	Float Collar, 9 5/8in; 1917.1; S 1916.1 TVD; 1.00; 1916.1-1917.1 TVD; 1916.1-1917.1	NIOBRARA, Original Hole	4	9,111.0	9,112.0	3/16/2019
3,840.9	16.2	Float Shoe, 9 5/8in; 1959.5; 1958 TVD; 1.50; 1958-1959.5 TVD; 1958-1959.5	NIOBRARA, Original Hole	4	9,139.0	9,140.0	3/16/2019
5,045.3	15.5	Marker Joint, 5 1/2in; 6321.5; 6166.8 TVD; 11.16; 6166.8-6177.6 TVD; 6310.3-6321.5	NIOBRARA, Original Hole	4	9,167.0	9,168.0	3/16/2019
6,310.4	15.7	NIO C CHALK (NIO C CHALK	NIOBRARA, Original Hole	4	9,219.0	9,220.0	3/16/2019
6,819.9	35.8		NIOBRARA, Original Hole	4	9,250.0	9,251.0	3/16/2019
6,903.9	43.1		NIOBRARA, Original Hole	4	9,278.0	9,279.0	3/16/2019
6,913.1	43.9		NIOBRARA, Original Hole	4	9,306.0	9,307.0	3/16/2019
7,142.4	64.1		NIOBRARA, Original Hole	4	9,334.0	9,335.0	3/16/2019
7,203.1	68.6		NIOBRARA, Original Hole	4	9,363.0	9,364.0	3/16/2019
7,208.3	69.1		NIOBRARA, Original Hole	4	9,390.0	9,391.0	3/16/2019
7,209.3	69.2	NIO C MARL (NIO C MARL	NIOBRARA, Original Hole	4	9,417.0	9,418.0	3/16/2019
7,465.9	88.8		NIOBRARA, Original Hole	4	9,473.0	9,474.0	3/15/2019
7,716.9	89.8		NIOBRARA, Original Hole	4	9,501.0	9,502.0	3/15/2019
7,971.1	89.2	Marker Joint, 5 1/2in; 8020.2; 6923.7 TVD; 10.98; 6923.7-6923.9 TVD; 8009.2-8020.2	NIOBRARA, Original Hole	4	9,528.0	9,529.0	3/15/2019
8,020.0	89.3		NIOBRARA, Original Hole	4	9,557.0	9,558.0	3/15/2019
8,219.2	89.3		NIOBRARA, Original Hole	4	9,585.0	9,586.0	3/15/2019
8,479.0	89.2		NIOBRARA, Original Hole	4	9,613.0	9,614.0	3/15/2019
8,720.1	90.0		NIOBRARA, Original Hole	4	9,641.0	9,642.0	3/15/2019
8,971.1	89.9		NIOBRARA, Original Hole	4	9,668.0	9,669.0	3/15/2019
9,219.2	89.9		NIOBRARA, Original Hole	4	9,724.0	9,725.0	3/13/2019
9,473.1	90.0		NIOBRARA, Original Hole	4	9,755.0	9,756.0	3/13/2019
9,724.1	90.3		NIOBRARA, Original Hole	4	9,780.0	9,781.0	3/13/2019
9,978.0	90.4		NIOBRARA, Original Hole	4	9,808.0	9,809.0	3/13/2019
10,226.0	90.4		NIOBRARA, Original Hole	4	9,835.0	9,836.0	3/13/2019
10,477.0	90.3		NIOBRARA, Original Hole	4	9,863.0	9,864.0	3/13/2019
10,726.0	90.0		NIOBRARA, Original Hole	4	9,891.0	9,892.0	3/13/2019
10,978.0	90.4	Marker Joint, 5 1/2in; 11003.8; 6926.3 TVD; 10.95; 6926.3-6926.2 TVD; 10992.9-11003.8	NIOBRARA, Original Hole	4	9,919.0	9,920.0	3/13/2019
11,003.9	90.4		NIOBRARA, Original Hole	4	9,978.0	9,979.0	3/12/2019
11,229.0	90.2		NIOBRARA, Original Hole	4	10,003.0	10,004.0	3/12/2019
11,482.9	90.1		NIOBRARA, Original Hole	4	10,031.0	10,032.0	3/12/2019
11,737.9	90.4		NIOBRARA, Original Hole	4	10,057.0	10,058.0	3/12/2019
11,994.1	90.6		NIOBRARA, Original Hole	4	10,087.0	10,088.0	3/12/2019
12,253.9	90.5		NIOBRARA, Original Hole	4	10,114.0	10,115.0	3/12/2019
12,511.2	90.4		NIOBRARA, Original Hole	4	10,142.0	10,143.0	3/12/2019
12,744.1	90.4		NIOBRARA, Original Hole	4	10,170.0	10,171.0	3/12/2019
12,977.0	90.4		NIOBRARA, Original Hole	4	10,226.0	10,227.0	3/12/2019
13,209.0	90.4		NIOBRARA, Original Hole	4	10,254.0	10,255.0	3/12/2019
13,443.9	90.3		NIOBRARA, Original Hole	4	10,281.0	10,282.0	3/12/2019
13,676.8	90.3		NIOBRARA, Original Hole	4	10,310.0	10,311.0	3/12/2019
13,912.1	90.4		NIOBRARA, Original Hole	4	10,338.0	10,339.0	3/12/2019
14,143.0	90.4		NIOBRARA, Original Hole	4	10,365.0	10,366.0	3/12/2019
14,377.0	90.3	Marker Joint, 5 1/2in; 14396.4; 6905.6 TVD; 10.63; 6905.6-6905.5 TVD; 14385.8-14396.4	NIOBRARA, Original Hole	4	10,393.0	10,394.0	3/12/2019
14,396.3	90.3		NIOBRARA, Original Hole	4	10,423.0	10,424.0	3/12/2019
14,611.9	90.3		NIOBRARA, Original Hole	4	10,477.0	10,478.0	3/12/2019
14,842.8	90.2		NIOBRARA, Original Hole	4	10,502.0	10,503.0	3/12/2019
15,075.1	90.2		NIOBRARA, Original Hole	4	10,533.0	10,534.0	3/12/2019
15,304.1	90.2		NIOBRARA, Original Hole	4	10,561.0	10,562.0	3/12/2019
15,535.1	90.2		NIOBRARA, Original Hole	4	10,588.0	10,589.0	3/12/2019
15,765.1	90.3		NIOBRARA, Original Hole	4	10,616.0	10,617.0	3/12/2019
15,995.1	90.1		NIOBRARA, Original Hole	4	10,646.0	10,647.0	3/12/2019
16,227.0	90.2		NIOBRARA, Original Hole	4	10,672.0	10,673.0	3/12/2019
16,454.1	90.3		NIOBRARA, Original Hole	4	10,726.0	10,727.0	3/11/2019
16,684.1	90.2		NIOBRARA, Original Hole	4	10,756.0	10,757.0	3/11/2019
16,914.0	90.2		NIOBRARA, Original Hole	4	10,783.0	10,784.0	3/11/2019
17,144.0	90.1	Alpha Sleeve, 5 1/2in; 17612.4; 6893 TVD; 4.75; 6893-6893 TVD; 17607.7-17612.4	NIOBRARA, Original Hole	4	10,811.0	10,812.0	3/11/2019
17,374.0	90.2	Float Collar, 5 1/2in; 17699.6; 6892.7 TVD; 0.97; 6892.7-6892.7 TVD; 17698.6-17699.6	NIOBRARA, Original Hole	4	10,839.0	10,840.0	3/11/2019
17,607.6	90.2	Reamer Shoe, 5 1/2in; 17745.9; 6892.6 TVD; 2.31; 6892.6-6892.6 TVD; 17743.6-17745.9	NIOBRARA, Original Hole	4	10,868.0	10,869.0	3/11/2019
17,612.5	90.2						
17,642.1	90.2						
17,699.5	90.2						
17,746.1	90.1						



Wellbore Schematic Input Report

Well Name: GUTTERSEN D29-738

Original Hole [Land]			Perforation Data				
MD (ftKB)	Incl (°)	Vertical schematic (actual)	Linked Zone	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
30.5	0.4	Landing Joint, 5 1/2in; 30.5; 30 TVD; 0.54; 30-30.5 TVD; 30-30.5	NIOBRARA, Original Hole	4	10,894.0	10,895.0	3/11/2019
109.9	0.4	WELLHEAD, 9 5/8in; 36.9; 30 TVD; 6.94; 30-36.9 TVD; 30-36.9	NIOBRARA, Original Hole	4	10,922.0	10,923.0	3/11/2019
1,917.0	0.6	Conductor, 16in; 110; 30 TVD; 80.00; 30-110 TVD; 30-110	NIOBRARA, Original Hole	4	10,978.0	10,979.0	3/11/2019
1,959.6	0.7	Float Collar, 9 5/8in; 1917.1; S 1916.1 TVD; 1.00; 1916.1-1917.1 TVD; 1916.1-1917.1	NIOBRARA, Original Hole	4	11,009.0	11,010.0	3/11/2019
3,840.9	16.2	Float Shoe, 9 5/8in; 1959.5; 1958 TVD; 1.50; 1958-1959.5 TVD; 1958-1959.5	NIOBRARA, Original Hole	4	11,033.0	11,034.0	3/11/2019
5,045.3	15.5	Marker Joint, 5 1/2in; 6321.5; 6166.8 TVD; 11.16; 6166.8-6177.6 TVD; 6310.3-6321.5	NIOBRARA, Original Hole	4	11,061.0	11,062.0	3/11/2019
6,310.4	15.7	NIO C CHALK (NIO C CHALK	NIOBRARA, Original Hole	4	11,084.0	11,085.0	3/11/2019
6,819.9	35.8		NIOBRARA, Original Hole	4	11,117.0	11,118.0	3/11/2019
6,903.9	43.1		NIOBRARA, Original Hole	4	11,144.0	11,145.0	3/11/2019
6,913.1	43.9		NIOBRARA, Original Hole	4	11,172.0	11,173.0	3/11/2019
7,142.4	64.1		NIOBRARA, Original Hole	4	11,229.0	11,230.0	3/11/2019
7,203.1	68.6		NIOBRARA, Original Hole	4	11,257.0	11,258.0	3/11/2019
7,208.3	69.1		NIOBRARA, Original Hole	4	11,285.0	11,286.0	3/11/2019
7,209.3	69.2	NIO C MARL (NIO C MARL	NIOBRARA, Original Hole	4	11,308.0	11,309.0	3/11/2019
7,465.9	88.8		NIOBRARA, Original Hole	4	11,342.0	11,343.0	3/11/2019
7,716.9	89.8		NIOBRARA, Original Hole	4	11,370.0	11,371.0	3/11/2019
7,971.1	89.2	Marker Joint, 5 1/2in; 8020.2; 6923.7 TVD; 10.98; 6923.7-6923.9 TVD; 8009.2-8020.2	NIOBRARA, Original Hole	4	11,397.0	11,398.0	3/11/2019
8,020.0	89.3		NIOBRARA, Original Hole	4	11,427.0	11,428.0	3/11/2019
8,219.2	89.3		NIOBRARA, Original Hole	4	11,483.0	11,484.0	3/11/2019
8,479.0	89.2		NIOBRARA, Original Hole	4	11,512.0	11,513.0	3/11/2019
8,720.1	90.0		NIOBRARA, Original Hole	4	11,542.0	11,543.0	3/11/2019
8,971.1	89.9		NIOBRARA, Original Hole	4	11,568.0	11,569.0	3/11/2019
9,219.2	89.9		NIOBRARA, Original Hole	4	11,597.0	11,598.0	3/11/2019
9,473.1	90.0		NIOBRARA, Original Hole	4	11,619.0	11,620.0	3/11/2019
9,724.1	90.3		NIOBRARA, Original Hole	4	11,653.0	11,654.0	3/11/2019
9,978.0	90.4		NIOBRARA, Original Hole	4	11,682.0	11,683.0	3/11/2019
10,226.0	90.4		NIOBRARA, Original Hole	4	11,738.0	11,739.0	3/10/2019
10,477.0	90.3		NIOBRARA, Original Hole	4	11,767.0	11,768.0	3/10/2019
10,726.0	90.0		NIOBRARA, Original Hole	4	11,795.0	11,796.0	3/10/2019
10,978.0	90.4	Marker Joint, 5 1/2in; 11003.8; 6926.3 TVD; 10.95; 6926.3-6926.2 TVD; 10992.9-11003.8	NIOBRARA, Original Hole	4	11,823.0	11,824.0	3/10/2019
11,003.9	90.4		NIOBRARA, Original Hole	4	11,852.0	11,853.0	3/10/2019
11,229.0	90.2		NIOBRARA, Original Hole	4	11,880.0	11,881.0	3/10/2019
11,482.9	90.1		NIOBRARA, Original Hole	4	11,908.0	11,909.0	3/10/2019
11,737.9	90.4		NIOBRARA, Original Hole	4	11,937.0	11,938.0	3/10/2019
11,994.1	90.6		NIOBRARA, Original Hole	4	11,994.0	11,995.0	3/10/2019
12,253.9	90.5		NIOBRARA, Original Hole	4	12,028.0	12,029.0	3/10/2019
12,511.2	90.4		NIOBRARA, Original Hole	4	12,052.0	12,053.0	3/10/2019
12,744.1	90.4		NIOBRARA, Original Hole	4	12,081.0	12,082.0	3/10/2019
12,977.0	90.4		NIOBRARA, Original Hole	4	12,105.0	12,106.0	3/10/2019
13,209.0	90.4		NIOBRARA, Original Hole	4	12,138.0	12,139.0	3/10/2019
13,443.9	90.3		NIOBRARA, Original Hole	4	12,167.0	12,168.0	3/10/2019
13,676.8	90.3		NIOBRARA, Original Hole	4	12,201.0	12,202.0	3/10/2019
13,912.1	90.4		NIOBRARA, Original Hole	4	12,254.0	12,255.0	3/10/2019
14,143.0	90.4		NIOBRARA, Original Hole	4	12,283.0	12,284.0	3/10/2019
14,377.0	90.3	Marker Joint, 5 1/2in; 14396.4; 6905.6 TVD; 10.63; 6905.6-6905.5 TVD; 14385.8-14396.4	NIOBRARA, Original Hole	4	12,312.0	12,313.0	3/10/2019
14,396.3	90.3		NIOBRARA, Original Hole	4	12,341.0	12,342.0	3/10/2019
14,611.9	90.3		NIOBRARA, Original Hole	4	12,369.0	12,370.0	3/10/2019
14,842.8	90.2		NIOBRARA, Original Hole	4	12,398.0	12,399.0	3/10/2019
15,075.1	90.2		NIOBRARA, Original Hole	4	12,427.0	12,428.0	3/10/2019
15,304.1	90.2		NIOBRARA, Original Hole	4	12,456.0	12,457.0	3/10/2019
15,535.1	90.2		NIOBRARA, Original Hole	4	12,511.0	12,512.0	3/9/2019
15,765.1	90.3		NIOBRARA, Original Hole	4	12,533.0	12,534.0	3/9/2019
15,995.1	90.1		NIOBRARA, Original Hole	4	12,563.0	12,564.0	3/9/2019
16,227.0	90.2		NIOBRARA, Original Hole	4	12,589.0	12,590.0	3/9/2019
16,454.1	90.3		NIOBRARA, Original Hole	4	12,615.0	12,616.0	3/9/2019
16,684.1	90.2		NIOBRARA, Original Hole	4	12,641.0	12,642.0	3/9/2019
16,914.0	90.2		NIOBRARA, Original Hole	4	12,666.0	12,667.0	3/9/2019
17,144.0	90.1	Alpha Sleeve, 5 1/2in; 17612.4; 6893 TVD; 4.75; 6893-6893 TVD; 17607.7-17612.4	NIOBRARA, Original Hole	4	12,692.0	12,693.0	3/9/2019
17,374.0	90.2	Float Collar, 5 1/2in; 17699.6; 6892.7 TVD; 0.97; 6892.7-6892.7 TVD; 17698.6-17699.6	NIOBRARA, Original Hole	4	12,744.0	12,745.0	3/9/2019
17,607.6	90.2	Reamer Shoe, 5 1/2in; 17745.9; 6892.6 TVD; 2.31; 6892.6-6892.6 TVD; 17743.6-17745.9	NIOBRARA, Original Hole	4	12,770.0	12,771.0	3/9/2019
17,612.5	90.2						
17,642.1	90.2						
17,699.5	90.2						
17,746.1	90.1						



Wellbore Schematic Input Report

Well Name: GUTTERSEN D29-738

Original Hole [Land]			Perforation Data				
MD (ftKB)	Incl (°)	Vertical schematic (actual)	Linked Zone	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
30.5	0.4	Landing Joint, 5 1/2in; 30.5; 30 TVD; 0.54; 30-30.5 TVD; 30-30.5	NIOBRARA, Original Hole	4	12,796.0	12,797.0	3/9/2019
109.9	0.4	WELLHEAD, 9 5/8in; 36.9; 30 TVD; 6.94; 30-36.9 TVD; 30-36.9	NIOBRARA, Original Hole	4	12,822.0	12,823.0	3/9/2019
1,917.0	0.6	Conductor, 16in; 110; 30 TVD; 80.00; 30-110 TVD; 30-110	NIOBRARA, Original Hole	4	12,845.0	12,846.0	3/9/2019
1,959.6	0.7	Float Collar, 9 5/8in; 1917.1; S 1916.1 TVD; 1.00; 1916.1-1917.1 TVD; 1916.1-1917.1	NIOBRARA, Original Hole	4	12,874.0	12,875.0	3/9/2019
3,840.9	16.2	Float Shoe, 9 5/8in; 1959.5; 1958 TVD; 1.50; 1958-1959.5 TVD; 1958-1959.5	NIOBRARA, Original Hole	4	12,900.0	12,901.0	3/9/2019
5,045.3	15.5	Marker Joint, 5 1/2in; 6321.5; 6166.8 TVD; 11.16; 6166.8-6177.6 TVD; 6310.3-6321.5	NIOBRARA, Original Hole	4	12,925.0	12,926.0	3/9/2019
6,310.4	15.7	NIO C CHALK (NIO C CHALK	NIOBRARA, Original Hole	4	12,977.0	12,978.0	3/9/2019
6,819.9	35.8		NIOBRARA, Original Hole	4	13,003.0	13,004.0	3/9/2019
6,903.9	43.1		NIOBRARA, Original Hole	4	13,025.0	13,026.0	3/9/2019
6,913.1	43.9		NIOBRARA, Original Hole	4	13,055.0	13,056.0	3/9/2019
7,142.4	64.1		NIOBRARA, Original Hole	4	13,081.0	13,082.0	3/9/2019
7,203.1	68.6		NIOBRARA, Original Hole	4	13,107.0	13,108.0	3/9/2019
7,208.3	69.1		NIOBRARA, Original Hole	4	13,133.0	13,134.0	3/9/2019
7,209.3	69.2	NIO C MARL (NIO C MARL	NIOBRARA, Original Hole	4	13,163.0	13,164.0	3/9/2019
7,465.9	88.8		NIOBRARA, Original Hole	4	13,211.0	13,212.0	3/8/2019
7,716.9	89.8		NIOBRARA, Original Hole	4	13,237.0	13,238.0	3/8/2019
7,971.1	89.2	Marker Joint, 5 1/2in; 8020.2; 6923.7 TVD; 10.98; 6923.7-6923.9 TVD; 8009.2-8020.2	NIOBRARA, Original Hole	4	13,262.0	13,263.0	3/8/2019
8,020.0	89.3		NIOBRARA, Original Hole	4	13,286.0	13,287.0	3/8/2019
8,219.2	89.3		NIOBRARA, Original Hole	4	13,314.0	13,315.0	3/8/2019
8,479.0	89.2		NIOBRARA, Original Hole	4	13,341.0	13,342.0	3/8/2019
8,720.1	90.0		NIOBRARA, Original Hole	4	13,366.0	13,367.0	3/8/2019
8,971.1	89.9		NIOBRARA, Original Hole	4	13,392.0	13,393.0	3/8/2019
9,219.2	89.9		NIOBRARA, Original Hole	4	13,444.0	13,445.0	3/8/2019
9,473.1	90.0		NIOBRARA, Original Hole	4	13,465.0	13,466.0	3/8/2019
9,724.1	90.3		NIOBRARA, Original Hole	4	13,496.0	13,497.0	3/8/2019
9,978.0	90.4		NIOBRARA, Original Hole	4	13,521.0	13,522.0	3/8/2019
10,226.0	90.3		NIOBRARA, Original Hole	4	13,547.0	13,548.0	3/8/2019
10,477.0	90.0		NIOBRARA, Original Hole	4	13,573.0	13,574.0	3/8/2019
10,726.0	90.4	Marker Joint, 5 1/2in; 11003.8; 6926.3 TVD; 10.95; 6926.3-6926.2 TVD; 10992.9-11003.8	NIOBRARA, Original Hole	4	13,599.0	13,600.0	3/8/2019
10,978.0	90.2		NIOBRARA, Original Hole	4	13,625.0	13,626.0	3/8/2019
11,003.9	90.1		NIOBRARA, Original Hole	4	13,677.0	13,678.0	3/8/2019
11,229.0	90.4		NIOBRARA, Original Hole	4	13,703.0	13,704.0	3/8/2019
11,482.9	90.6		NIOBRARA, Original Hole	4	13,727.0	13,728.0	3/8/2019
11,737.9	90.5		NIOBRARA, Original Hole	4	13,755.0	13,756.0	3/8/2019
11,994.1	90.4		NIOBRARA, Original Hole	4	13,782.0	13,783.0	3/8/2019
12,253.9	90.4		NIOBRARA, Original Hole	4	13,806.0	13,807.0	3/8/2019
12,511.2	90.4		NIOBRARA, Original Hole	4	13,832.0	13,833.0	3/8/2019
12,744.1	90.4		NIOBRARA, Original Hole	4	13,858.0	13,859.0	3/8/2019
12,977.0	90.3		NIOBRARA, Original Hole	4	13,912.0	13,913.0	3/7/2019
13,209.0	90.3		NIOBRARA, Original Hole	4	13,936.0	13,937.0	3/7/2019
13,443.9	90.4		NIOBRARA, Original Hole	4	13,962.0	13,963.0	3/7/2019
13,676.8	90.4		NIOBRARA, Original Hole	4	13,988.0	13,989.0	3/7/2019
13,912.1	90.3	Marker Joint, 5 1/2in; 14396.4; 6905.6 TVD; 10.63; 6905.6-6905.5 TVD; 14385.8-14396.4	NIOBRARA, Original Hole	4	14,014.0	14,015.0	3/7/2019
14,143.0	90.3		NIOBRARA, Original Hole	4	14,043.0	14,044.0	3/7/2019
14,377.0	90.2		NIOBRARA, Original Hole	4	14,065.0	14,066.0	3/7/2019
14,595.1	90.2		NIOBRARA, Original Hole	4	14,091.0	14,092.0	3/7/2019
15,075.1	90.2		NIOBRARA, Original Hole	4	14,143.0	14,144.0	3/5/2019
15,304.1	90.2		NIOBRARA, Original Hole	4	14,164.0	14,165.0	3/5/2019
15,535.1	90.3		NIOBRARA, Original Hole	4	14,195.0	14,196.0	3/5/2019
15,765.1	90.1		NIOBRARA, Original Hole	4	14,221.0	14,222.0	3/5/2019
15,995.1	90.2		NIOBRARA, Original Hole	4	14,247.0	14,248.0	3/5/2019
16,227.0	90.3		NIOBRARA, Original Hole	4	14,273.0	14,274.0	3/5/2019
16,454.1	90.2		NIOBRARA, Original Hole	4	14,296.0	14,297.0	3/5/2019
16,684.1	90.2		NIOBRARA, Original Hole	4	14,325.0	14,326.0	3/5/2019
16,914.0	90.1		NIOBRARA, Original Hole	4	14,377.0	14,378.0	3/5/2019
17,144.0	90.2	Alpha Sleeve, 5 1/2in; 17612.4; 6893 TVD; 4.75; 6893-6893 TVD; 17607.7-17612.4	NIOBRARA, Original Hole	4	14,402.0	14,403.0	3/5/2019
17,374.0	90.2	Float Collar, 5 1/2in; 17699.6; 6892.7 TVD; 0.97; 6892.7-6892.7 TVD; 17698.6-17699.6	NIOBRARA, Original Hole	4	14,428.0	14,429.0	3/5/2019
17,607.6	90.2	Reamer Shoe, 5 1/2in; 17745.9; 6892.6 TVD; 2.31; 6892.6-6892.6 TVD; 17743.6-17745.9	NIOBRARA, Original Hole	4	14,454.0	14,455.0	3/5/2019
17,612.5	90.2		NIOBRARA, Original Hole	4	14,475.0	14,476.0	3/5/2019
17,642.1	90.1		NIOBRARA, Original Hole	4	14,506.0	14,507.0	3/5/2019
17,699.5	90.1						
17,746.1							



Wellbore Schematic Input Report

Well Name: GUTTERSEN D29-738

Original Hole [Land]			Perforation Data				
MD (ftKB)	Incl (°)	Vertical schematic (actual)	Linked Zone	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
30.5	0.4	Landing Joint, 5 1/2in; 30.5; 30 TVD; 0.54; 30-30.5 TVD; 30-30.5	NIOBRARA, Original Hole	4	14,532.0	14,533.0	3/5/2019
109.9	0.4	WELLHEAD, 9 5/8in; 36.9; 30 TVD; 6.94; 30-36.9 TVD; 30-36.9	NIOBRARA, Original Hole	4	14,558.0	14,559.0	3/5/2019
1,917.0	0.6	Conductor, 16in; 110; 30 TVD; 80.00; 30-110 TVD; 30-110	NIOBRARA, Original Hole	4	14,612.0	14,613.0	3/4/2019
1,959.6	0.7	Float Collar, 9 5/8in; 1917.1; S 1916.1 TVD; 1.00; 1916.1-1917.1 TVD; 1916.1-1917.1	NIOBRARA, Original Hole	4	14,636.0	14,637.0	3/4/2019
3,840.9	16.2	Marker Joint, 5 1/2in; 6321.5; 6166.8 TVD; 11.16; 6166.8-6177.6 TVD; 6310.3-6321.5	NIOBRARA, Original Hole	4	14,661.0	14,662.0	3/4/2019
5,045.3	15.5	Float Shoe, 9 5/8in; 1959.5; 1958 TVD; 1.50; 1958-1959.5 TVD; 1958-1959.5	NIOBRARA, Original Hole	4	14,687.0	14,688.0	3/4/2019
6,310.4	15.7	Marker Joint, 5 1/2in; 8020.2; 6923.7 TVD; 10.98; 6923.7-6923.9 TVD; 8009.2-8020.2	NIOBRARA, Original Hole	4	14,713.0	14,714.0	3/4/2019
6,819.9	35.8	NIO C MARL (NIO C MARL)	NIOBRARA, Original Hole	4	14,735.0	14,736.0	3/4/2019
6,903.9	43.1	Marker Joint, 5 1/2in; 11003.8; 6926.3 TVD; 10.95; 6926.3-6926.2 TVD; 10992.9-11003.8	NIOBRARA, Original Hole	4	14,765.0	14,766.0	3/4/2019
6,913.1	43.9	Alpha Sleeve, 5 1/2in; 17612.4; 6893 TVD; 4.75; 6893-6893 TVD; 17607.7-17612.4	NIOBRARA, Original Hole	4	14,791.0	14,792.0	3/4/2019
7,142.4	64.1	Reamer Shoe, 5 1/2in; 17745.9; 6892.6 TVD; 2.31; 6892.6-6892.6 TVD; 17743.6-17745.9	NIOBRARA, Original Hole	4	14,843.0	14,844.0	3/4/2019
7,203.1	68.6		NIOBRARA, Original Hole	4	14,869.0	14,870.0	3/4/2019
7,208.3	69.1		NIOBRARA, Original Hole	4	14,895.0	14,896.0	3/4/2019
7,209.3	69.2		NIOBRARA, Original Hole	4	14,924.0	14,925.0	3/4/2019
7,465.9	88.8		NIOBRARA, Original Hole	4	14,946.0	14,947.0	3/4/2019
7,716.9	89.8		NIOBRARA, Original Hole	4	14,972.0	14,973.0	3/4/2019
7,971.1	89.2		NIOBRARA, Original Hole	4	14,998.0	14,999.0	3/4/2019
8,020.0	89.3		NIOBRARA, Original Hole	4	15,024.0	15,025.0	3/4/2019
8,219.2	89.3		NIOBRARA, Original Hole	4	15,075.0	15,076.0	3/3/2019
8,479.0	89.2		NIOBRARA, Original Hole	4	15,103.0	15,104.0	3/3/2019
8,720.1	90.0		NIOBRARA, Original Hole	4	15,126.0	15,127.0	3/3/2019
8,971.1	89.9		NIOBRARA, Original Hole	4	15,152.0	15,153.0	3/3/2019
9,219.2	89.9		NIOBRARA, Original Hole	4	15,178.0	15,179.0	3/3/2019
9,473.1	90.0		NIOBRARA, Original Hole	4	15,203.0	15,204.0	3/3/2019
9,724.1	90.3		NIOBRARA, Original Hole	4	15,222.0	15,223.0	3/3/2019
9,978.0	90.4		NIOBRARA, Original Hole	4	15,254.0	15,255.0	3/3/2019
10,226.0	90.4		NIOBRARA, Original Hole	4	15,304.0	15,305.0	3/2/2019
10,477.0	90.3		NIOBRARA, Original Hole	4	15,331.0	15,332.0	3/2/2019
10,726.0	90.0		NIOBRARA, Original Hole	4	15,356.0	15,357.0	3/2/2019
10,978.0	90.4		NIOBRARA, Original Hole	4	15,382.0	15,383.0	3/2/2019
11,003.9	90.4		NIOBRARA, Original Hole	4	15,407.0	15,408.0	3/2/2019
11,229.0	90.2		NIOBRARA, Original Hole	4	15,436.0	15,437.0	3/2/2019
11,482.9	90.1		NIOBRARA, Original Hole	4	15,459.0	15,460.0	3/2/2019
11,737.9	90.4		NIOBRARA, Original Hole	4	15,484.0	15,485.0	3/2/2019
11,994.1	90.6		NIOBRARA, Original Hole	4	15,535.0	15,536.0	3/2/2019
12,253.9	90.5		NIOBRARA, Original Hole	4	15,556.0	15,557.0	3/2/2019
12,511.2	90.4		NIOBRARA, Original Hole	4	15,586.0	15,587.0	3/2/2019
12,744.1	90.4		NIOBRARA, Original Hole	4	15,612.0	15,613.0	3/2/2019
12,977.0	90.4		NIOBRARA, Original Hole	4	15,637.0	15,638.0	3/2/2019
13,209.0	90.4		NIOBRARA, Original Hole	4	15,663.0	15,664.0	3/2/2019
13,443.9	90.3		NIOBRARA, Original Hole	4	15,688.0	15,689.0	3/2/2019
13,676.8	90.3		NIOBRARA, Original Hole	4	15,714.0	15,715.0	3/2/2019
13,912.1	90.4		NIOBRARA, Original Hole	4	15,765.0	15,766.0	3/1/2019
14,143.0	90.4		NIOBRARA, Original Hole	4	15,790.0	15,791.0	3/1/2019
14,377.0	90.3		NIOBRARA, Original Hole	4	15,816.0	15,817.0	3/1/2019
14,396.3	90.3		NIOBRARA, Original Hole	4	15,841.0	15,842.0	3/1/2019
14,611.9	90.3		NIOBRARA, Original Hole	4	15,867.0	15,868.0	3/1/2019
14,842.8	90.2		NIOBRARA, Original Hole	4	15,893.0	15,894.0	3/1/2019
15,075.1	90.2		NIOBRARA, Original Hole	4	15,913.0	15,914.0	3/1/2019
15,304.1	90.2		NIOBRARA, Original Hole	4	15,944.0	15,945.0	3/1/2019
15,535.1	90.2		NIOBRARA, Original Hole	4	15,995.0	15,996.0	3/1/2019
15,765.1	90.3		NIOBRARA, Original Hole	4	16,020.0	16,021.0	3/1/2019
15,995.1	90.1		NIOBRARA, Original Hole	4	16,046.0	16,047.0	3/1/2019
16,227.0	90.2		NIOBRARA, Original Hole	4	16,071.0	16,072.0	3/1/2019
16,454.1	90.3		NIOBRARA, Original Hole	4	16,097.0	16,098.0	3/1/2019
16,684.1	90.2		NIOBRARA, Original Hole	4	16,122.0	16,123.0	3/1/2019
16,914.0	90.2		NIOBRARA, Original Hole	4	16,148.0	16,149.0	3/1/2019
17,144.0	90.1		NIOBRARA, Original Hole	4	16,174.0	16,175.0	3/1/2019
17,374.0	90.2		NIOBRARA, Original Hole	4	16,227.0	16,228.0	3/1/2019
17,607.6	90.2		NIOBRARA, Original Hole	4	16,250.0	16,251.0	3/1/2019
17,612.5	90.2						
17,642.1	90.2						
17,699.5	90.2						
17,746.1	90.1						



Wellbore Schematic Input Report

Well Name: GUTTERSEN D29-738

Original Hole [Land]			Perforation Data				
MD (ftKB)	Incl (°)	Vertical schematic (actual)	Linked Zone	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
30.5	0.4	Landing Joint, 5 1/2in; 30.5; 30 TVD; 0.54; 30-30.5 TVD; 30-30.5	NIOBRARA, Original Hole	4	16,276.0	16,277.0	3/1/2019
109.9	0.4	WELLHEAD, 9 5/8in; 36.9; 30 TVD; 6.94; 30-36.9 TVD; 30-36.9	NIOBRARA, Original Hole	4	16,298.0	16,299.0	3/1/2019
1,917.0	0.6	Conductor, 16in; 110; 30 TVD; 80.00; 30-110 TVD; 30-110	NIOBRARA, Original Hole	4	16,327.0	16,328.0	3/1/2019
1,959.6	0.7	Float Collar, 9 5/8in; 1917.1; S 1916.1 TVD; 1.00; 1916.1-1917.1 TVD; 1916.1-1917.1	NIOBRARA, Original Hole	4	16,352.0	16,353.0	3/1/2019
3,840.9	16.2	Float Shoe, 9 5/8in; 1959.5; 1958 TVD; 1.50; 1958-1959.5 TVD; 1958-1959.5	NIOBRARA, Original Hole	4	16,378.0	16,379.0	3/1/2019
5,045.3	15.5	Marker Joint, 5 1/2in; 6321.5; 6166.8 TVD; 11.16; 6166.8-6177.6 TVD; 6310.3-6321.5	NIOBRARA, Original Hole	4	16,403.0	16,404.0	3/1/2019
6,310.4	15.7	NIO C CHALK (NIO C CHALK	NIOBRARA, Original Hole	4	16,454.0	16,455.0	2/28/2019
6,819.9	35.8		NIOBRARA, Original Hole	4	16,484.0	16,485.0	2/28/2019
6,903.9	43.1		NIOBRARA, Original Hole	4	16,505.0	16,506.0	2/28/2019
6,913.1	43.9		NIOBRARA, Original Hole	4	16,531.0	16,532.0	2/28/2019
7,142.4	64.1		NIOBRARA, Original Hole	4	16,557.0	16,558.0	2/28/2019
7,203.1	68.6		NIOBRARA, Original Hole	4	16,582.0	16,583.0	2/28/2019
7,208.3	69.1		NIOBRARA, Original Hole	4	16,611.0	16,612.0	2/28/2019
7,209.3	69.2	NIO C MARL (NIO C MARL	NIOBRARA, Original Hole	4	16,633.0	16,634.0	2/28/2019
7,465.9	88.8		NIOBRARA, Original Hole	4	16,684.0	16,685.0	2/28/2019
7,716.9	89.8		NIOBRARA, Original Hole	4	16,710.0	16,711.0	2/28/2019
7,971.1	89.2	Marker Joint, 5 1/2in; 8020.2; 6923.7 TVD; 10.98; 6923.7-6923.9 TVD; 8009.2-8020.2	NIOBRARA, Original Hole	4	16,731.0	16,732.0	2/28/2019
8,020.0	89.3		NIOBRARA, Original Hole	4	16,761.0	16,762.0	2/28/2019
8,219.2	89.3		NIOBRARA, Original Hole	4	16,786.0	16,787.0	2/28/2019
8,479.0	89.2		NIOBRARA, Original Hole	4	16,812.0	16,813.0	2/28/2019
8,720.1	90.0		NIOBRARA, Original Hole	4	16,837.0	16,838.0	2/28/2019
8,971.1	89.9		NIOBRARA, Original Hole	4	16,861.0	16,862.0	2/28/2019
9,219.2	89.9		NIOBRARA, Original Hole	4	16,914.0	16,915.0	2/27/2019
9,473.1	90.0		NIOBRARA, Original Hole	4	16,939.0	16,940.0	2/27/2019
9,724.1	90.3		NIOBRARA, Original Hole	4	16,965.0	16,966.0	2/27/2019
9,978.0	90.4		NIOBRARA, Original Hole	4	16,991.0	16,992.0	2/27/2019
10,226.0	90.4		NIOBRARA, Original Hole	4	17,016.0	17,017.0	2/27/2019
10,477.0	90.3		NIOBRARA, Original Hole	4	17,045.0	17,046.0	2/27/2019
10,726.0	90.0		NIOBRARA, Original Hole	4	17,067.0	17,068.0	2/27/2019
10,978.0	90.4	Marker Joint, 5 1/2in; 11003.8; 6926.3 TVD; 10.95; 6926.3-6926.2 TVD; 10992.9-11003.8	NIOBRARA, Original Hole	4	17,093.0	17,094.0	2/27/2019
11,003.9	90.4		NIOBRARA, Original Hole	4	17,144.0	17,145.0	2/27/2019
11,229.0	90.2		NIOBRARA, Original Hole	4	17,172.0	17,173.0	2/27/2019
11,482.9	90.1		NIOBRARA, Original Hole	4	17,195.0	17,196.0	2/27/2019
11,737.9	90.4		NIOBRARA, Original Hole	4	17,220.0	17,221.0	2/27/2019
11,994.1	90.6		NIOBRARA, Original Hole	4	17,246.0	17,247.0	2/27/2019
12,253.9	90.5		NIOBRARA, Original Hole	4	17,272.0	17,273.0	2/27/2019
12,511.2	90.4		NIOBRARA, Original Hole	4	17,293.0	17,294.0	2/27/2019
12,744.1	90.4		NIOBRARA, Original Hole	4	17,323.0	17,324.0	2/27/2019
12,977.0	90.4		NIOBRARA, Original Hole	4	17,374.0	17,375.0	2/26/2019
13,209.0	90.4		NIOBRARA, Original Hole	4	17,399.0	17,400.0	2/26/2019
13,443.9	90.3		NIOBRARA, Original Hole	4	17,425.0	17,426.0	2/26/2019
13,676.8	90.3		NIOBRARA, Original Hole	4	17,450.0	17,451.0	2/26/2019
13,912.1	90.4		NIOBRARA, Original Hole	4	17,473.0	17,474.0	2/26/2019
14,143.0	90.4		NIOBRARA, Original Hole	4	17,501.0	17,502.0	2/26/2019
14,377.0	90.3	Marker Joint, 5 1/2in; 14396.4; 6905.6 TVD; 10.63; 6905.6-6905.5 TVD; 14385.8-14396.4	NIOBRARA, Original Hole	4	17,528.0	17,529.0	2/26/2019
14,396.3	90.3		NIOBRARA, Original Hole	4	17,552.0	17,553.0	2/26/2019
14,611.9	90.3						
14,842.8	90.2						
15,075.1	90.2						
15,304.1	90.2						
15,535.1	90.2						
15,765.1	90.3						
15,995.1	90.1						
16,227.0	90.2						
16,454.1	90.3						
16,684.1	90.2						
16,914.0	90.2						
17,144.0	90.1	Alpha Sleeve, 5 1/2in; 17612.4; 6893 TVD; 4.75; 6893-6893 TVD; 17607.7-17612.4					
17,374.0	90.2	Float Collar, 5 1/2in; 17699.6; 6892.7 TVD; 0.97; 6892.7-6892.7 TVD; 17698.6-17699.6					
17,607.6	90.2	Reamer Shoe, 5 1/2in; 17745.9; 6892.6 TVD; 2.31; 6892.6-6892.6 TVD; 17743.6-17745.9					
17,612.5	90.2						
17,642.1	90.2						
17,699.5	90.2						
17,746.1	90.1						
Total				1,344			
Job Supply Amounts							
Supply Item Des		Job Supply Type		Unit	Job Category	Total Ret	Total Co
Daily Cost Breakdown by Category							
Field Est (Cost)		Description			Note		