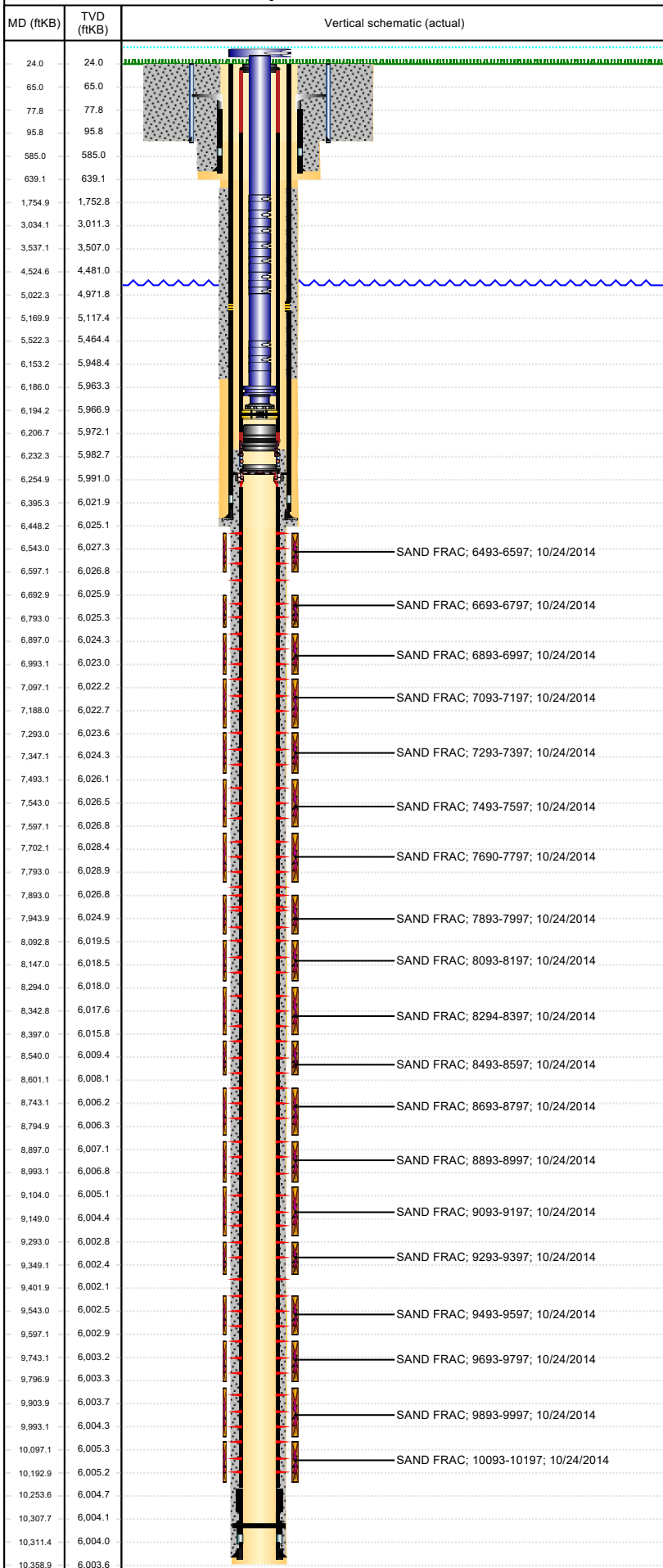


Land, Original Hole, 8/22/2022 10:00:20 AM



Well Header						
Surface UWI 0512338854	Business Unit Rockies	Gov Auth Dist	Prod Tree Loc Land			
Original RKB Elevation (ft) 4,867.00	Original KB to Ground (ft) 24.00	Original Spud Date 6/29/2014	Abandon Date			
Comment PER DRILLING & COGCC LOGGING REQUIREMENTS RULE 317.0 DESIGNATED WELL FOR RESISTIVITY LOG ON THIS 6 WELL PAD WILL BE BROOK LC28-75-1BHNC						
Directions To Well HWY 14 & CR 115, NORTH 6.5 MILES, WEST .3 MILES INTO LOCATION						
Congressional Location						
Quarter 3 SW	Quarter 4 SE	Section 28	Township 9	Township N/S Dir N	Range 59	Range E/W Dir W
Bottom Hole Legal Location						
Bottom Hole Legal Location NENW SEC 28-T9N-R59W						
Plug Back Total Depths						
Date	PBTD (ftKB)	Method	Com			
7/5/2014	10,309	CASING TALLY	FLOAT COLLAR			
Wellbore Sections						
Section Des		Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)		
CONDUCTOR		26	24.0	124.0		
SURFACE		13 3/4	124.0	639.0		
INTERMEDIATE		8 3/4	639.0	6,448.0		
PRODUCTION		6 1/8	6,448.0	10,359.0		
Zone Statuses						
Zone Name	Status Date	Status	Fluid Type	Job	Prod Method	
NIOBRARA	11/29/2014	PR	Gas	DRILLING/COMPLI	Flowing	
NIOBRARA	11/29/2014	PR	Oil	DRILLING/COMPLI	Flowing	
NIOBRARA	11/29/2014	PR	Gas		Sales	
NIOBRARA	12/1/2014	PR	Water	DRILLING/COMPLI	Flowing	
NIOBRARA	12/3/2014	PR	Oil	DRILLING/COMPLI	Sales	
NIOBRARA	12/30/2014	PR				
Casing Strings						
Conductor, Planned?-N, 124ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (M)	Set Depth (M)
Conductor	5/5/2014	16	42.09	A-52A	24	124
Surface, Planned?-N, 629.3ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (M)	Set Depth (M)
Surface	6/29/2014	9 5/8	36.00	J-55	66.7	629.3
Liner, Planned?-N, 6232.2ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (M)	Set Depth (M)
Liner	9/20/2014	4 1/2	11.60	P-110	24	6232.2
Intermediate Casing 1, Planned?-N, 6438ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (M)	Set Depth (M)
Intermediate Casing 1	7/2/2014	7	26.00	P-110IC	24	6438
Production Casing, Planned?-N, 10355ftKB						
Casing Description	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (M)	Set Depth (M)
Production Casing	7/5/2014	4 1/2	11.60	P-110HC	6203.9	10355
Cement						
Description					Top Depth (ftKB)	Bottom Depth (ftKB)
Conductor Cement					24.0	124.0
Description					Top Depth (ftKB)	Bottom Depth (ftKB)
Surface Casing Cement					24.0	629.3
Description					Top Depth (ftKB)	Bottom Depth (ftKB)
Intermediate Casing Cement					1,725.0	6,185.0
Description					Top Depth (ftKB)	Bottom Depth (ftKB)
Liner Cement					6,229.6	10,355.0
Tubing Strings						
Tubing Description	Run Date	String Mark ID (in)	Wt (lb/ft)	Grade	Len (ft)	Set Depth
Tubing - Production	11/23/2014	2 3/8	1.995	4.70	L-80	6,181.45
						0

Land, Original Hole, 8/22/2022 10:00:20 AM

MD (ftKB) / TVD (ftKB)		Vertical schematic (actual)	Tubing Components								
MD (ftKB)	TVD (ftKB)		Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Btm (ftKB)	Btm (TVD) (ftKB)	
24.0	24.0		Mandrel	7		N-80	1	0.80	20.8	20.8	
65.0	65.0		Tubing	2 3/8	4.70	L-80	56	1,729.86	1,750.7	1,748.6	
77.8	77.8		Gas Lift Mandrel	2 3/8		N-80	1	4.10	1,754.8	1,752.6	
95.8	95.8		Tubing	2 3/8	4.70	L-80	24	746.72	2,501.5	2,487.6	
585.0	585.0		Gas Lift Mandrel	2 3/8		N-80	1	4.10	2,505.6	2,491.7	
639.1	639.1		Tubing	2 3/8	4.70	L-80	17	528.52	3,034.1	3,011.3	
1,754.9	1,752.8		Gas Lift Mandrel	2 3/8		N-80	1	4.10	3,038.2	3,015.3	
3,034.1	3,011.3		Tubing	2 3/8	4.70	L-80	16	494.90	3,533.1	3,503.1	
3,537.1	3,507.0		Gas Lift Mandrel	2 3/8		N-80	1	4.10	3,537.2	3,507.1	
4,524.6	4,481.0		Tubing	2 3/8	4.70	L-80	16	497.87	4,035.1	3,997.0	
5,022.3	4,971.8		Gas Lift Mandrel	2 3/8		N-80	1	4.10	4,039.2	4,001.0	
5,169.9	5,117.4		Tubing	2 3/8	4.70	L-80	16	485.59	4,524.8	4,481.2	
5,522.3	5,464.4		Gas Lift Mandrel	2 3/8		N-80	1	4.10	4,528.9	4,485.3	
6,153.2	5,948.4		Tubing	2 3/8	4.70	L-80	16	489.23	5,018.1	4,967.6	
6,194.2	5,966.9		Gas Lift Mandrel	2 3/8		N-80	1	4.10	5,022.2	4,971.7	
6,206.7	5,972.1		Tubing	2 3/8	4.70	L-80	16	500.19	5,522.4	5,464.5	
6,232.3	5,982.7		Gas Lift Mandrel	2 3/8		N-80	1	4.10	5,526.5	5,468.5	
6,254.9	5,991.0		Tubing	2 3/8	4.70	L-80	20	622.52	6,149.0	5,946.5	
6,395.3	6,021.9		Gas Lift Mandrel	2 3/8		N-80	1	4.10	6,153.1	5,948.4	
6,448.2	6,025.1		XN-Nipple	2 3/8	4.70	N-80	1	1.40	6,154.5	5,949.1	
6,543.0	6,027.3	Tubing	2 3/8	4.70	L-80	1	31.45	6,186.0	5,963.3		
6,597.1	6,026.8	On-Off Tool	3 3/4		N-80	1	1.30	6,187.3	5,963.9		
6,692.9	6,025.9	Pup Joint	2 3/8	4.70	N-80	1	6.10	6,193.4	5,966.6		
6,793.0	6,025.3	Ceramic disc sub	3 1/16		P-110	1	0.80	6,194.2	5,966.9		
6,897.0	6,024.3	ArrowSet 1X Packer	4		N-80	1	7.30	6,201.5	5,970.0		
6,993.1	6,023.0	Other In Hole									
7,097.1	6,022.2	Run Date	Des	Make	OD (in)	Top (ftKB)	Btm (ftKB)			Planned	
7,188.0	6,022.7										
7,293.0	6,023.6										
7,347.1	6,024.3										
7,493.1	6,026.1										
7,543.0	6,026.5										
7,597.1	6,026.8										
7,702.1	6,028.4										
7,793.0	6,028.9										
7,893.0	6,026.8										
7,943.9	6,024.9										
8,092.8	6,019.5										
8,147.0	6,018.5										
8,294.0	6,018.0										
8,342.8	6,017.6										
8,397.0	6,015.8										
8,540.0	6,009.4										
8,601.1	6,008.1										
8,743.1	6,006.2										
8,794.9	6,006.3										
8,897.0	6,007.1										
8,993.1	6,006.8										
9,104.0	6,005.1										
9,149.0	6,004.4										
9,293.0	6,002.8										
9,349.1	6,002.4										
9,401.9	6,002.1										
9,543.0	6,002.5										
9,597.1	6,002.9										
9,743.1	6,003.2										
9,796.9	6,003.3										
9,903.9	6,003.7										
9,993.1	6,004.3										
10,097.1	6,005.3										
10,192.9	6,005.2										
10,253.6	6,004.7										
10,307.7	6,004.1										
10,311.4	6,004.0										
10,358.9	6,003.6										
			Logs								
		Date	Type	Depth Top (MD) (ftKB)		Btm (ftKB)					
		7/1/2014	MUD LOGGING	639		10,359.0					
		7/1/2014	MWD	639		10,359.0					
		8/19/2014	USIT	24		6,185.0					
			Perforation Data								
		Linked Zone	Explosive Type	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date				
		NIOBRARA, <idrecwellbore>	A	8	6,493.0	6,497.0	10/31/2014				
		NIOBRARA, <idrecwellbore>	A	8	6,543.0	6,547.0	10/31/2014				
		NIOBRARA, <idrecwellbore>	A	8	6,593.0	6,597.0	10/31/2014				
		NIOBRARA, <idrecwellbore>	A	8	6,688.0	6,692.0	10/31/2014				
		NIOBRARA, <idrecwellbore>	A	8	6,743.0	6,747.0	10/31/2014				
		NIOBRARA, <idrecwellbore>	A	8	6,793.0	6,797.0	10/31/2014				
		NIOBRARA, <idrecwellbore>	A	8	6,893.0	6,897.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	6,940.0	6,944.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	6,993.0	6,997.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	7,093.0	7,097.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	7,143.0	7,147.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	7,188.0	7,192.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	7,293.0	7,297.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	7,343.0	7,347.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	7,393.0	7,397.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	7,497.0	7,501.0	10/30/2014				
		NIOBRARA, <idrecwellbore>	A	8	7,543.0	7,547.0	10/30/2014				

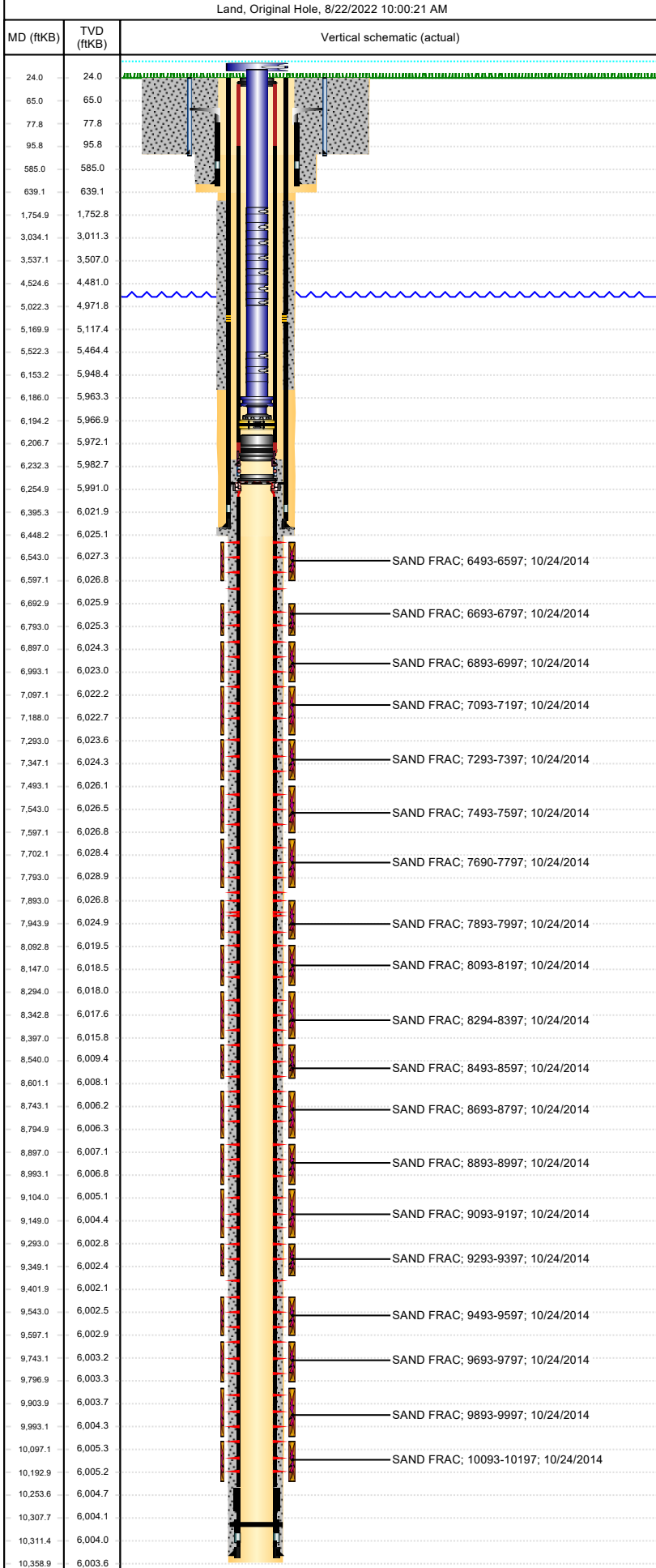
MD (ftKB)		TVD (ftKB)	Vertical schematic (actual)	Perforation Data					
				Linked Zone	Explosive Type	Sum of Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
24.0	24.0			NIOBRARA, <idrecwellbore>	A	8	7,593.0	7,597.0	10/30/2014
65.0	65.0			NIOBRARA, <idrecwellbore>	A	8	7,698.0	7,702.0	10/30/2014
77.8	77.8			NIOBRARA, <idrecwellbore>	A	8	7,743.0	7,747.0	10/30/2014
95.8	95.8			NIOBRARA, <idrecwellbore>	A	8	7,793.0	7,797.0	10/30/2014
585.0	585.0			NIOBRARA, <idrecwellbore>	A	8	7,800.0	7,996.0	10/29/2014
639.1	639.1			NIOBRARA, <idrecwellbore>	A	8	7,893.0	7,897.0	10/29/2014
1,754.9	1,752.8			NIOBRARA, <idrecwellbore>	A	8	7,940.0	7,944.0	10/29/2014
3,034.1	3,011.3			NIOBRARA, <idrecwellbore>	A	8	8,093.0	8,097.0	10/29/2014
3,537.1	3,507.0			NIOBRARA, <idrecwellbore>	A	8	8,143.0	8,147.0	10/29/2014
4,524.6	4,481.0			NIOBRARA, <idrecwellbore>	A	8	8,193.0	8,197.0	10/29/2014
5,022.3	4,971.8			NIOBRARA, <idrecwellbore>	A	8	8,295.0	8,299.0	10/29/2014
5,169.9	5,117.4			NIOBRARA, <idrecwellbore>	A	8	8,343.0	8,347.0	10/29/2014
5,522.3	5,464.4			NIOBRARA, <idrecwellbore>	A	8	8,393.0	8,397.0	10/29/2014
6,153.2	5,948.4			NIOBRARA, <idrecwellbore>	A	8	8,493.0	8,497.0	10/29/2014
6,186.0	5,963.3			NIOBRARA, <idrecwellbore>	A	8	8,540.0	8,544.0	10/29/2014
6,194.2	5,966.9			NIOBRARA, <idrecwellbore>	A	8	8,597.0	8,601.0	10/29/2014
6,206.7	5,972.1			NIOBRARA, <idrecwellbore>	A	8	8,693.0	8,697.0	10/28/2014
6,232.3	5,982.7			NIOBRARA, <idrecwellbore>	A	8	8,743.0	8,747.0	10/28/2014
6,254.9	5,991.0			NIOBRARA, <idrecwellbore>	A	8	8,793.0	8,795.0	10/28/2014
6,395.3	6,021.9			NIOBRARA, <idrecwellbore>	A	8	8,893.0	8,897.0	10/28/2014
6,448.2	6,025.1		NIOBRARA, <idrecwellbore>	A	8	8,943.0	8,947.0	10/28/2014	
6,543.0	6,027.3	SAND FRAC; 6493-6597; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	8,993.0	8,997.0	10/28/2014	
6,597.1	6,026.8		NIOBRARA, <idrecwellbore>	A	8	9,104.0	9,108.0	10/28/2014	
6,692.9	6,025.9	SAND FRAC; 6693-6797; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	9,145.0	9,149.0	10/28/2014	
6,793.0	6,025.3		NIOBRARA, <idrecwellbore>	A	8	9,193.0	9,197.0	10/28/2014	
6,897.0	6,024.3	SAND FRAC; 6893-6997; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	9,293.0	9,297.0	10/27/2014	
6,993.1	6,023.0		NIOBRARA, <idrecwellbore>	A	8	9,345.0	9,349.0	10/27/2014	
7,097.1	6,022.2	SAND FRAC; 7093-7197; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	9,398.0	9,402.0	10/27/2014	
7,188.0	6,022.7		NIOBRARA, <idrecwellbore>	A	8	9,493.0	9,497.0	10/27/2014	
7,293.0	6,023.6		NIOBRARA, <idrecwellbore>	A	8	9,543.0	9,547.0	10/27/2014	
7,347.1	6,024.3	SAND FRAC; 7293-7397; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	9,593.0	9,597.0	10/27/2014	
7,493.1	6,026.1		NIOBRARA, <idrecwellbore>	A	8	9,693.0	9,697.0	10/27/2014	
7,543.0	6,026.5	SAND FRAC; 7493-7597; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	9,743.0	9,747.0	10/27/2014	
7,597.1	6,026.8		NIOBRARA, <idrecwellbore>	A	8	9,793.0	9,797.0	10/27/2014	
7,702.1	6,028.4	SAND FRAC; 7690-7797; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	9,900.0	9,904.0	10/26/2014	
7,793.0	6,028.9		NIOBRARA, <idrecwellbore>	A	8	9,943.0	9,947.0	10/26/2014	
7,893.0	6,026.8		NIOBRARA, <idrecwellbore>	A	8	9,993.0	9,997.0	10/26/2014	
7,943.9	6,024.9	SAND FRAC; 7893-7997; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	10,093.0	10,097.0	10/26/2014	
8,092.8	6,019.5		NIOBRARA, <idrecwellbore>	A	8	10,143.0	10,147.0	10/26/2014	
8,147.0	6,018.5	SAND FRAC; 8093-8197; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8	10,193.0	10,197.0	10/26/2014	
8,294.0	6,018.0		NIOBRARA, <idrecwellbore>	A	8				
8,342.8	6,017.6	SAND FRAC; 8294-8397; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
8,397.0	6,015.8		NIOBRARA, <idrecwellbore>	A	8				
8,540.0	6,009.4	SAND FRAC; 8493-8597; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
8,601.1	6,008.1		NIOBRARA, <idrecwellbore>	A	8				
8,743.1	6,006.2	SAND FRAC; 8693-8797; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
8,794.9	6,006.3		NIOBRARA, <idrecwellbore>	A	8				
8,897.0	6,007.1	SAND FRAC; 8893-8997; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
8,993.1	6,006.8		NIOBRARA, <idrecwellbore>	A	8				
9,104.0	6,005.1	SAND FRAC; 9093-9197; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
9,149.0	6,004.4		NIOBRARA, <idrecwellbore>	A	8				
9,293.0	6,002.8	SAND FRAC; 9293-9397; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
9,349.1	6,002.4		NIOBRARA, <idrecwellbore>	A	8				
9,401.9	6,002.1		NIOBRARA, <idrecwellbore>	A	8				
9,543.0	6,002.5	SAND FRAC; 9493-9597; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
9,597.1	6,002.9		NIOBRARA, <idrecwellbore>	A	8				
9,743.1	6,003.2	SAND FRAC; 9693-9797; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
9,796.9	6,003.3		NIOBRARA, <idrecwellbore>	A	8				
9,903.9	6,003.7	SAND FRAC; 9893-9997; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
9,993.1	6,004.3		NIOBRARA, <idrecwellbore>	A	8				
10,097.1	6,005.3	SAND FRAC; 10093-10197; 10/24/2014	NIOBRARA, <idrecwellbore>	A	8				
10,192.9	6,005.2		NIOBRARA, <idrecwellbore>	A	8				
10,253.6	6,004.7		NIOBRARA, <idrecwellbore>	A	8				
10,307.7	6,004.1		NIOBRARA, <idrecwellbore>	A	8				
10,311.4	6,004.0		NIOBRARA, <idrecwellbore>	A	8				
10,358.9	6,003.6		NIOBRARA, <idrecwellbore>	A	8				
Total (Sum)						456			
Stimulation Intervals									
Interval Num	Start Date	Primary Job Type	Zone						
1	10/24/2014	DRILLING/COMPLETION - ORIGINAL	NIOBRARA, <idrecwellbore>						
Technical Result		Tech Result Details			Tech Result Note				
Success		According to Plan							
Comment									
See Frac Attachment									
19 STAGE HORIZONTAL NIOBRARA									
SILVERSTIM WITH HALLIBURTON Δ DELTA CREW									
PLUG AND PERF Δ 3 WELL ZIPPER, WELL #2									
RECYCLED WATER RAN AT AROUND A 1:5 RATIO;									

MD (ftKB)	TVD (ftKB)	Vertical schematic (actual)	Stimulation Intervals			
			Interval Num	Start Date	Primary Job Type	Zone
			2	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			3	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			4	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			5	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			6	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			7	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
		SAND FRAC; 6493-6597; 10/24/2014				
		SAND FRAC; 6693-6797; 10/24/2014				
		SAND FRAC; 6893-6997; 10/24/2014				
		SAND FRAC; 7093-7197; 10/24/2014				
		SAND FRAC; 7293-7397; 10/24/2014				
		SAND FRAC; 7493-7597; 10/24/2014				
		SAND FRAC; 7690-7797; 10/24/2014				
		SAND FRAC; 7893-7997; 10/24/2014				
		SAND FRAC; 8093-8197; 10/24/2014				
		SAND FRAC; 8294-8397; 10/24/2014				
		SAND FRAC; 8493-8597; 10/24/2014				
		SAND FRAC; 8693-8797; 10/24/2014				
		SAND FRAC; 8893-8997; 10/24/2014				
		SAND FRAC; 9093-9197; 10/24/2014				
		SAND FRAC; 9293-9397; 10/24/2014				
		SAND FRAC; 9493-9597; 10/24/2014				
		SAND FRAC; 9693-9797; 10/24/2014				
		SAND FRAC; 9893-9997; 10/24/2014				
		SAND FRAC; 10093-10197; 10/24/2014				

MD (ftKB)	TVD (ftKB)	Vertical schematic (actual)	Interval Num	Start Date	Primary Job Type	Zone	
24.0	24.0		8	10/24/2014	DRILLING/COMPLETION - ORIGINAL		
65.0	65.0		Technical Result	Tech Result Details		Tech Result Note	
77.8	77.8		Comment				
95.8	95.8		See Frac Attachment				
585.0	585.0		19 STAGE HORIZONTAL NIOBRARA				
639.1	639.1		SILVERSTIM WITH HALLIBURTON ̈ DELTA CREW				
1,754.9	1,752.8		PLUG AND PERF ̈ 3 WELL ZIPPER, WELL #2				
3,034.1	3,011.3		RECYCLED WATER RAN AT AROUND A 1:5 RATIO;				
3,537.1	3,507.0						
4,524.6	4,481.0						
5,022.3	4,971.8						
5,169.9	5,117.4		9	10/24/2014	DRILLING/COMPLETION - ORIGINAL		
5,522.3	5,464.4		Technical Result	Tech Result Details		Tech Result Note	
6,153.2	5,948.4		Comment				
6,186.0	5,963.3		See Frac Attachment				
6,194.2	5,966.9		19 STAGE HORIZONTAL NIOBRARA				
6,206.7	5,972.1		SILVERSTIM WITH HALLIBURTON ̈ DELTA CREW				
6,232.3	5,982.7		PLUG AND PERF ̈ 3 WELL ZIPPER, WELL #2				
6,254.9	5,991.0		RECYCLED WATER RAN AT AROUND A 1:5 RATIO;				
6,395.3	6,021.9						
6,448.2	6,025.1						
6,543.0	6,027.3	SAND FRAC; 6493-6597; 10/24/2014					
6,597.1	6,026.8						
6,692.9	6,025.9	SAND FRAC; 6693-6797; 10/24/2014					
6,793.0	6,025.3						
6,897.0	6,024.3	SAND FRAC; 6893-6997; 10/24/2014					
6,993.1	6,023.0						
7,097.1	6,022.2	SAND FRAC; 7093-7197; 10/24/2014					
7,188.0	6,022.7						
7,293.0	6,023.6						
7,347.1	6,024.3	SAND FRAC; 7293-7397; 10/24/2014					
7,493.1	6,026.1						
7,543.0	6,026.5	SAND FRAC; 7493-7597; 10/24/2014					
7,597.1	6,026.8						
7,702.1	6,028.4	SAND FRAC; 7690-7797; 10/24/2014					
7,793.0	6,028.9						
7,893.0	6,026.8						
7,943.9	6,024.9	SAND FRAC; 7893-7997; 10/24/2014					
8,092.8	6,019.5						
8,147.0	6,018.5	SAND FRAC; 8093-8197; 10/24/2014					
8,294.0	6,018.0						
8,342.8	6,017.6	SAND FRAC; 8294-8397; 10/24/2014					
8,397.0	6,015.8						
8,540.0	6,009.4	SAND FRAC; 8493-8597; 10/24/2014					
8,601.1	6,008.1						
8,743.1	6,006.2	SAND FRAC; 8693-8797; 10/24/2014					
8,794.9	6,006.3						
8,897.0	6,007.1	SAND FRAC; 8893-8997; 10/24/2014					
8,993.1	6,006.8						
9,104.0	6,005.1						
9,149.0	6,004.4	SAND FRAC; 9093-9197; 10/24/2014					
9,293.0	6,002.8						
9,349.1	6,002.4	SAND FRAC; 9293-9397; 10/24/2014					
9,401.9	6,002.1						
9,543.0	6,002.5	SAND FRAC; 9493-9597; 10/24/2014					
9,597.1	6,002.9						
9,743.1	6,003.2	SAND FRAC; 9693-9797; 10/24/2014					
9,796.9	6,003.3						
9,903.9	6,003.7	SAND FRAC; 9893-9997; 10/24/2014					
9,993.1	6,004.3						
10,097.1	6,005.3						
10,192.9	6,005.2	SAND FRAC; 10093-10197; 10/24/2014					
10,253.6	6,004.7						
10,307.7	6,004.1						
10,311.4	6,004.0						
10,358.9	6,003.6						
			Interval Num	Start Date	Primary Job Type	Zone	
			10	10/24/2014	DRILLING/COMPLETION - ORIGINAL		
			Technical Result	Tech Result Details		Tech Result Note	
			Comment				
			See Frac Attachment				
			19 STAGE HORIZONTAL NIOBRARA				
			SILVERSTIM WITH HALLIBURTON ̈ DELTA CREW				
			PLUG AND PERF ̈ 3 WELL ZIPPER, WELL #2				
			RECYCLED WATER RAN AT AROUND A 1:5 RATIO;				
			Interval Num	Start Date	Primary Job Type	Zone	
			11	10/24/2014	DRILLING/COMPLETION - ORIGINAL		
			Technical Result	Tech Result Details		Tech Result Note	
			Comment				
			See Frac Attachment				
			19 STAGE HORIZONTAL NIOBRARA				
			SILVERSTIM WITH HALLIBURTON ̈ DELTA CREW				
			PLUG AND PERF ̈ 3 WELL ZIPPER, WELL #2				
			RECYCLED WATER RAN AT AROUND A 1:5 RATIO;				
			Interval Num	Start Date	Primary Job Type	Zone	
			12	10/24/2014	DRILLING/COMPLETION - ORIGINAL		
			Technical Result	Tech Result Details		Tech Result Note	
			Comment				
			See Frac Attachment				
			19 STAGE HORIZONTAL NIOBRARA				
			SILVERSTIM WITH HALLIBURTON ̈ DELTA CREW				
			PLUG AND PERF ̈ 3 WELL ZIPPER, WELL #2				
			RECYCLED WATER RAN AT AROUND A 1:5 RATIO;				
			Interval Num	Start Date	Primary Job Type	Zone	
			13	10/24/2014	DRILLING/COMPLETION - ORIGINAL		
			Technical Result	Tech Result Details		Tech Result Note	
			Comment				
			See Frac Attachment				
			19 STAGE HORIZONTAL NIOBRARA				
			SILVERSTIM WITH HALLIBURTON ̈ DELTA CREW				
			PLUG AND PERF ̈ 3 WELL ZIPPER, WELL #2				
			RECYCLED WATER RAN AT AROUND A 1:5 RATIO;				

MD (ftKB)	TVD (ftKB)	Vertical schematic (actual)	Stimulation Intervals			
			Interval Num	Start Date	Primary Job Type	Zone
			14	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			15	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			16	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			17	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			18	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
			Interval Num	Start Date	Primary Job Type	Zone
			19	10/24/2014	DRILLING/COMPLETION - ORIGINAL	
			Technical Result		Tech Result Details	Tech Result Note
			Comment See Frac Attachment 19 STAGE HORIZONTAL NIOBRARA SILVERSTIM WITH HALLIBURTON δ DELTA CREW PLUG AND PERF δ 3 WELL ZIPPER, WELL #2 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;			
		SAND FRAC; 6493-6597; 10/24/2014				
		SAND FRAC; 6693-6797; 10/24/2014				
		SAND FRAC; 6893-6997; 10/24/2014				
		SAND FRAC; 7093-7197; 10/24/2014				
		SAND FRAC; 7293-7397; 10/24/2014				
		SAND FRAC; 7493-7597; 10/24/2014				
		SAND FRAC; 7690-7797; 10/24/2014				
		SAND FRAC; 7893-7997; 10/24/2014				
		SAND FRAC; 8093-8197; 10/24/2014				
		SAND FRAC; 8294-8397; 10/24/2014				
		SAND FRAC; 8493-8597; 10/24/2014				
		SAND FRAC; 8693-8797; 10/24/2014				
		SAND FRAC; 8893-8997; 10/24/2014				
		SAND FRAC; 9093-9197; 10/24/2014				
		SAND FRAC; 9293-9397; 10/24/2014				
		SAND FRAC; 9493-9597; 10/24/2014				
		SAND FRAC; 9693-9797; 10/24/2014				
		SAND FRAC; 9893-9997; 10/24/2014				
		SAND FRAC; 10093-10197; 10/24/2014				

Land, Original Hole, 8/22/2022 10:00:21 AM



Stimulation Intervals

Interval Num	Start Date	Primary Job Type	Zone
20	10/24/2014	DRILLING/COMPLETION - ORIGINAL	

Technical Result	Tech Result Details	Tech Result Note

Comment
 See Frac Attachment
 19 STAGE HORIZONTAL NIOBRARA
 SILVERSTIM WITH HALLIBURTON δ DELTA CREW
 PLUG AND PERF δ 3 WELL ZIPPER, WELL #2
 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;

Interval Num	Start Date	Primary Job Type	Zone
21	10/24/2014	DRILLING/COMPLETION - ORIGINAL	

Technical Result	Tech Result Details	Tech Result Note

Comment
 See Frac Attachment
 19 STAGE HORIZONTAL NIOBRARA
 SILVERSTIM WITH HALLIBURTON δ DELTA CREW
 PLUG AND PERF δ 3 WELL ZIPPER, WELL #2
 RECYCLED WATER RAN AT AROUND A 1:5 RATIO;