



US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

2N-65W-21 ADAMSON 22-21HZ PAD

ADAMSON 35C-28HZ

PLAN A

Plan: PERMIT REV-1

Standard Planning Report

22 April, 2015

Database:	Denver Sales	Local Co-ordinate Reference:	Well ADAMSON 35C-28HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4892 & KB 17 @ 4909.00usft (PERMIT)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4892 & KB 17 @ 4909.00usft (PERMIT)
Site:	2N-65W-21 ADAMSON 22-21HZ PAD	North Reference:	True
Well:	ADAMSON 35C-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-1		

Project	WELD-NAD83-UTMFT13N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site						2N-65W-21 ADAMSON 22-21HZ PAD						
Site Position:			Northing:		14,571,804.88 usft		Latitude:		40.123315			
From:			Lat/Long		Easting:		1,731,516.21 usft		Longitude:		-104.674117	
Position Uncertainty:			0.00 usft		Slot Radius:		13.200 in		Grid Convergence:		0.21	

Well	ADAMSON 35C-28HZ					
Well Position	+N/-S	-0.36 usft	Northing:	14,571,804.63 usft	Latitude:	40.123314
	+E/-W	29.91 usft	Easting:	1,731,546.12 usft	Longitude:	-104.674010
Position Uncertainty		3.28 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,892.00 usft

Wellbore	PLAN A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/6/2015	8.30	66.72	52,611

Design	PERMIT REV-1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.40

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,545.00	0.00	0.00	1,545.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,073.26	10.57	332.38	2,070.27	43.03	-22.51	2.00	2.00	0.00	332.38	
6,532.17	10.57	332.38	6,453.59	767.45	-401.50	0.00	0.00	0.00	0.00	
7,060.43	0.00	0.00	6,978.86	810.48	-424.01	2.00	-2.00	0.00	180.00	
7,991.13	93.07	180.40	7,551.00	206.85	-428.26	10.00	10.00	-19.30	180.40	
13,499.32	93.07	180.40	7,256.00	-5,293.30	-467.00	0.00	0.00	0.00	0.00	PBHL_ADAMSON 35

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Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4892 & KB 17 @ 4909.00usft (PERMIT)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4892 & KB 17 @ 4909.00usft (PERMIT)
Site:	2N-65W-21 ADAMSON 22-21HZ PAD	North Reference:	True
Well:	ADAMSON 35C-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,295.00	0.00	0.00	1,295.00	0.00	0.00	0.00	0.00	0.00	0.00
Fox Hills Marker									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,345.00	0.00	0.00	1,345.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,545.00	0.00	0.00	1,545.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,600.00	1.10	332.38	1,599.99	0.47	-0.24	-0.47	2.00	2.00	0.00
1,700.00	3.10	332.38	1,699.92	3.71	-1.94	-3.70	2.00	2.00	0.00
1,800.00	5.10	332.38	1,799.66	10.05	-5.26	-10.01	2.00	2.00	0.00
1,900.00	7.10	332.38	1,899.09	19.46	-10.18	-19.39	2.00	2.00	0.00
2,000.00	9.10	332.38	1,998.09	31.95	-16.71	-31.83	2.00	2.00	0.00
2,073.26	10.57	332.38	2,070.27	43.03	-22.51	-42.88	2.00	2.00	0.00
Start 4458.91 hold at 2073.26 MD									
2,100.00	10.57	332.38	2,096.55	47.38	-24.79	-47.20	0.00	0.00	0.00
2,200.00	10.57	332.38	2,194.86	63.62	-33.29	-63.39	0.00	0.00	0.00
2,300.00	10.57	332.38	2,293.16	79.87	-41.78	-79.58	0.00	0.00	0.00
2,400.00	10.57	332.38	2,391.47	96.12	-50.28	-95.76	0.00	0.00	0.00
2,500.00	10.57	332.38	2,489.77	112.36	-58.78	-111.95	0.00	0.00	0.00
2,599.99	10.57	332.38	2,588.08	128.61	-67.28	-128.14	0.00	0.00	0.00
2,699.99	10.57	332.38	2,686.38	144.86	-75.78	-144.32	0.00	0.00	0.00
2,799.99	10.57	332.38	2,784.69	161.10	-84.28	-160.51	0.00	0.00	0.00
2,899.99	10.57	332.38	2,882.99	177.35	-92.78	-176.70	0.00	0.00	0.00
2,999.99	10.57	332.38	2,981.29	193.59	-101.28	-192.88	0.00	0.00	0.00
3,099.99	10.57	332.38	3,079.60	209.84	-109.78	-209.07	0.00	0.00	0.00
3,199.99	10.57	332.38	3,177.90	226.09	-118.28	-225.26	0.00	0.00	0.00
3,299.99	10.57	332.38	3,276.21	242.33	-126.78	-241.44	0.00	0.00	0.00
3,399.99	10.57	332.38	3,374.51	258.58	-135.28	-257.63	0.00	0.00	0.00
3,499.99	10.57	332.38	3,472.82	274.83	-143.78	-273.82	0.00	0.00	0.00
3,599.99	10.57	332.38	3,571.12	291.07	-152.28	-290.00	0.00	0.00	0.00
3,699.99	10.57	332.38	3,669.43	307.32	-160.78	-306.19	0.00	0.00	0.00
3,799.99	10.57	332.38	3,767.73	323.57	-169.28	-322.38	0.00	0.00	0.00
3,899.99	10.57	332.38	3,866.04	339.81	-177.78	-338.56	0.00	0.00	0.00
3,999.99	10.57	332.38	3,964.34	356.06	-186.28	-354.75	0.00	0.00	0.00
4,099.99	10.57	332.38	4,062.64	372.30	-194.77	-370.94	0.00	0.00	0.00
4,199.99	10.57	332.38	4,160.95	388.55	-203.27	-387.12	0.00	0.00	0.00
4,299.99	10.57	332.38	4,259.25	404.80	-211.77	-403.31	0.00	0.00	0.00
4,399.99	10.57	332.38	4,357.56	421.04	-220.27	-419.50	0.00	0.00	0.00
4,499.99	10.57	332.38	4,455.86	437.29	-228.77	-435.68	0.00	0.00	0.00

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Well:	ADAMSON 35C-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,576.42	10.57	332.38	4,531.00	449.71	-235.27	-448.05	0.00	0.00	0.00
Sussex									
4,599.99	10.57	332.38	4,554.17	453.54	-237.27	-451.87	0.00	0.00	0.00
4,699.99	10.57	332.38	4,652.47	469.78	-245.77	-468.06	0.00	0.00	0.00
4,799.99	10.57	332.38	4,750.78	486.03	-254.27	-484.24	0.00	0.00	0.00
4,899.99	10.57	332.38	4,849.08	502.28	-262.77	-500.43	0.00	0.00	0.00
4,999.99	10.57	332.38	4,947.38	518.52	-271.27	-516.62	0.00	0.00	0.00
5,099.99	10.57	332.38	5,045.69	534.77	-279.77	-532.80	0.00	0.00	0.00
5,199.99	10.57	332.38	5,143.99	551.01	-288.27	-548.99	0.00	0.00	0.00
5,299.99	10.57	332.38	5,242.30	567.26	-296.77	-565.18	0.00	0.00	0.00
5,399.99	10.57	332.38	5,340.60	583.51	-305.27	-581.36	0.00	0.00	0.00
5,499.99	10.57	332.38	5,438.91	599.75	-313.77	-597.55	0.00	0.00	0.00
5,599.99	10.57	332.38	5,537.21	616.00	-322.27	-613.74	0.00	0.00	0.00
5,699.99	10.57	332.38	5,635.52	632.25	-330.77	-629.92	0.00	0.00	0.00
5,799.99	10.57	332.38	5,733.82	648.49	-339.27	-646.11	0.00	0.00	0.00
5,899.99	10.57	332.38	5,832.13	664.74	-347.76	-662.30	0.00	0.00	0.00
5,999.99	10.57	332.38	5,930.43	680.99	-356.26	-678.48	0.00	0.00	0.00
6,099.99	10.57	332.38	6,028.73	697.23	-364.76	-694.67	0.00	0.00	0.00
6,199.99	10.57	332.38	6,127.04	713.48	-373.26	-710.86	0.00	0.00	0.00
6,299.99	10.57	332.38	6,225.34	729.73	-381.76	-727.04	0.00	0.00	0.00
6,399.99	10.57	332.38	6,323.65	745.97	-390.26	-743.23	0.00	0.00	0.00
6,499.99	10.57	332.38	6,421.95	762.22	-398.76	-759.42	0.00	0.00	0.00
6,532.17	10.57	332.38	6,453.59	767.45	-401.50	-764.62	0.00	0.00	0.00
Start Drop -2.00									
6,599.99	9.21	332.38	6,520.40	777.76	-406.89	-774.90	2.00	-2.00	0.00
6,699.99	7.21	332.38	6,619.37	790.41	-413.51	-787.51	2.00	-2.00	0.00
6,799.99	5.21	332.38	6,718.78	800.00	-418.53	-797.06	2.00	-2.00	0.00
6,899.99	3.21	332.38	6,818.50	806.50	-421.93	-803.53	2.00	-2.00	0.00
6,980.56	1.60	332.38	6,899.00	809.49	-423.49	-806.52	2.00	-2.00	0.00
Sharon Springs									
6,999.99	1.21	332.38	6,918.42	809.92	-423.71	-806.94	2.00	-2.00	0.00
7,042.57	0.36	332.38	6,961.00	810.43	-423.98	-807.45	2.00	-2.00	0.00
Niobrara Top									
7,060.43	0.00	0.00	6,978.86	810.48	-424.01	-807.50	2.00	-2.00	0.00
Start DLS 10.00 TFO 180.40									
7,099.99	3.96	180.40	7,018.39	809.12	-424.02	-806.14	10.00	10.00	0.00
7,108.63	4.82	180.40	7,027.00	808.45	-424.02	-805.47	10.00	10.00	0.00
Niobrara B Bench									
7,173.30	11.29	180.40	7,091.00	799.40	-424.09	-796.42	10.00	10.00	0.00
Niobrara C Bench									
7,199.99	13.96	180.40	7,117.04	793.57	-424.13	-790.59	10.00	10.00	0.00
7,299.99	23.96	180.40	7,211.50	761.13	-424.36	-758.15	10.00	10.00	0.00
7,320.40	26.00	180.40	7,230.00	752.51	-424.42	-749.53	10.00	10.00	0.00
Fort Hays									
7,336.08	27.57	180.40	7,244.00	745.44	-424.47	-742.46	10.00	10.00	0.00
Codell									
7,399.99	33.96	180.40	7,298.89	712.78	-424.70	-709.79	10.00	10.00	0.00
7,499.99	43.96	180.40	7,376.55	649.99	-425.14	-647.00	10.00	10.00	0.00
7,599.98	53.96	180.40	7,442.13	574.66	-425.67	-571.68	10.00	10.00	0.00
7,699.98	63.96	180.40	7,493.64	489.10	-426.27	-486.11	10.00	10.00	0.00
7,799.98	73.96	180.40	7,529.50	395.89	-426.93	-392.90	10.00	10.00	0.00
7,899.98	83.96	180.40	7,548.63	297.87	-427.62	-294.88	10.00	10.00	0.00
7,991.13	93.07	180.40	7,551.00	206.85	-428.26	-203.86	10.00	10.00	0.00

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Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4892 & KB 17 @ 4909.00usft (PERMIT)
Site:	2N-65W-21 ADAMSON 22-21HZ PAD	North Reference:	True
Well:	ADAMSON 35C-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start 5508.19 hold at 7991.13 MD - TOP OF PRODUCTION(2592 FSL 803 FWL)									
7,999.98	93.07	180.40	7,550.52	198.01	-428.32	-195.02	0.00	0.00	0.00
8,099.98	93.07	180.40	7,545.17	98.16	-429.03	-95.16	0.00	0.00	0.00
8,199.98	93.07	180.40	7,539.81	-1.70	-429.73	4.70	0.00	0.00	0.00
8,299.98	93.07	180.40	7,534.45	-101.55	-430.43	104.55	0.00	0.00	0.00
8,399.98	93.07	180.40	7,529.10	-201.41	-431.14	204.41	0.00	0.00	0.00
8,499.98	93.07	180.40	7,523.74	-301.26	-431.84	304.27	0.00	0.00	0.00
8,599.98	93.07	180.40	7,518.39	-401.11	-432.54	404.12	0.00	0.00	0.00
8,699.98	93.07	180.40	7,513.03	-500.97	-433.25	503.98	0.00	0.00	0.00
8,799.98	93.07	180.40	7,507.68	-600.82	-433.95	603.84	0.00	0.00	0.00
8,899.98	93.07	180.40	7,502.32	-700.67	-434.65	703.69	0.00	0.00	0.00
8,999.98	93.07	180.40	7,496.97	-800.53	-435.36	803.55	0.00	0.00	0.00
9,099.98	93.07	180.40	7,491.61	-900.38	-436.06	903.40	0.00	0.00	0.00
9,199.98	93.07	180.40	7,486.25	-1,000.24	-436.76	1,003.26	0.00	0.00	0.00
9,299.98	93.07	180.40	7,480.90	-1,100.09	-437.47	1,103.12	0.00	0.00	0.00
9,399.98	93.07	180.40	7,475.54	-1,199.94	-438.17	1,202.97	0.00	0.00	0.00
9,499.98	93.07	180.40	7,470.19	-1,299.80	-438.87	1,302.83	0.00	0.00	0.00
9,599.98	93.07	180.40	7,464.83	-1,399.65	-439.58	1,402.69	0.00	0.00	0.00
9,699.98	93.07	180.40	7,459.48	-1,499.50	-440.28	1,502.54	0.00	0.00	0.00
9,799.98	93.07	180.40	7,454.12	-1,599.36	-440.98	1,602.40	0.00	0.00	0.00
9,899.98	93.07	180.40	7,448.77	-1,699.21	-441.69	1,702.25	0.00	0.00	0.00
9,999.98	93.07	180.40	7,443.41	-1,799.07	-442.39	1,802.11	0.00	0.00	0.00
10,099.98	93.07	180.40	7,438.05	-1,898.92	-443.09	1,901.97	0.00	0.00	0.00
10,199.98	93.07	180.40	7,432.70	-1,998.77	-443.80	2,001.82	0.00	0.00	0.00
10,299.98	93.07	180.40	7,427.34	-2,098.63	-444.50	2,101.68	0.00	0.00	0.00
10,399.98	93.07	180.40	7,421.99	-2,198.48	-445.20	2,201.54	0.00	0.00	0.00
10,499.98	93.07	180.40	7,416.63	-2,298.34	-445.91	2,301.39	0.00	0.00	0.00
10,599.98	93.07	180.40	7,411.28	-2,398.19	-446.61	2,401.25	0.00	0.00	0.00
10,699.98	93.07	180.40	7,405.92	-2,498.04	-447.31	2,501.10	0.00	0.00	0.00
10,799.98	93.07	180.40	7,400.57	-2,597.90	-448.02	2,600.96	0.00	0.00	0.00
10,899.98	93.07	180.40	7,395.21	-2,697.75	-448.72	2,700.82	0.00	0.00	0.00
10,999.98	93.07	180.40	7,389.85	-2,797.60	-449.42	2,800.67	0.00	0.00	0.00
11,099.98	93.07	180.40	7,384.50	-2,897.46	-450.13	2,900.53	0.00	0.00	0.00
11,199.98	93.07	180.40	7,379.14	-2,997.31	-450.83	3,000.39	0.00	0.00	0.00
11,299.98	93.07	180.40	7,373.79	-3,097.17	-451.53	3,100.24	0.00	0.00	0.00
11,399.98	93.07	180.40	7,368.43	-3,197.02	-452.24	3,200.10	0.00	0.00	0.00
11,499.98	93.07	180.40	7,363.08	-3,296.87	-452.94	3,299.96	0.00	0.00	0.00
11,599.98	93.07	180.40	7,357.72	-3,396.73	-453.64	3,399.81	0.00	0.00	0.00
11,699.98	93.07	180.40	7,352.37	-3,496.58	-454.35	3,499.67	0.00	0.00	0.00
11,799.98	93.07	180.40	7,347.01	-3,596.43	-455.05	3,599.52	0.00	0.00	0.00
11,899.98	93.07	180.40	7,341.65	-3,696.29	-455.75	3,699.38	0.00	0.00	0.00
11,999.98	93.07	180.40	7,336.30	-3,796.14	-456.46	3,799.24	0.00	0.00	0.00
12,099.98	93.07	180.40	7,330.94	-3,896.00	-457.16	3,899.09	0.00	0.00	0.00
12,199.98	93.07	180.40	7,325.59	-3,995.85	-457.86	3,998.95	0.00	0.00	0.00
12,299.98	93.07	180.40	7,320.23	-4,095.70	-458.57	4,098.81	0.00	0.00	0.00
12,399.98	93.07	180.40	7,314.88	-4,195.56	-459.27	4,198.66	0.00	0.00	0.00
12,499.98	93.07	180.40	7,309.52	-4,295.41	-459.97	4,298.52	0.00	0.00	0.00
12,599.98	93.07	180.40	7,304.17	-4,395.27	-460.68	4,398.37	0.00	0.00	0.00
12,699.97	93.07	180.40	7,298.81	-4,495.12	-461.38	4,498.23	0.00	0.00	0.00
12,799.97	93.07	180.40	7,293.45	-4,594.97	-462.08	4,598.09	0.00	0.00	0.00
12,899.97	93.07	180.40	7,288.10	-4,694.83	-462.78	4,697.94	0.00	0.00	0.00
12,999.97	93.07	180.40	7,282.74	-4,794.68	-463.49	4,797.80	0.00	0.00	0.00
13,099.97	93.07	180.40	7,277.39	-4,894.53	-464.19	4,897.66	0.00	0.00	0.00

Database:	Denver Sales	Local Co-ordinate Reference:	Well ADAMSON 35C-28HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4892 & KB 17 @ 4909.00usft (PERMIT)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4892 & KB 17 @ 4909.00usft (PERMIT)
Site:	2N-65W-21 ADAMSON 22-21HZ PAD	North Reference:	True
Well:	ADAMSON 35C-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLAN A		
Design:	PERMIT REV-1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,199.97	93.07	180.40	7,272.03	-4,994.39	-464.89	4,997.51	0.00	0.00	0.00
13,299.97	93.07	180.40	7,266.68	-5,094.24	-465.60	5,097.37	0.00	0.00	0.00
13,399.97	93.07	180.40	7,261.32	-5,194.10	-466.30	5,197.22	0.00	0.00	0.00
13,499.32	93.07	180.40	7,256.00	-5,293.30	-467.00	5,296.43	0.00	0.00	0.00
TD at 13499.32 - PBHL_ADAMSON 35C-28HZ(2380 FSL 749 FWL)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_ADAMSON 35C-28HZ	0.00	0.00	7,256.00	-5,293.30	-467.00	14,566,509.66	1,731,098.54	40.108778	-104.675680
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,345.00	1,345.00	9 5/8"	9.625	13.500	
7,991.13	7,551.00	TOP OF PRODUCTION(2592 FSL 803 FWL)	5.500	7.875	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,295.00	1,295.00	Fox Hills Marker		0.00		
4,576.42	4,531.00	Sussex				
6,980.56	6,899.00	Sharon Springs		0.00		
7,042.57	6,961.00	Niobrara Top		0.00		
7,108.63	7,027.00	Niobrara B Bench		0.00		
7,173.30	7,091.00	Niobrara C Bench		0.00		
7,320.40	7,230.00	Fort Hays		0.00		
7,336.08	7,244.00	Codell		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,545.00	1,545.00	0.00	0.00	Start Build 2.00	
2,073.26	2,070.27	43.03	-22.51	Start 4458.91 hold at 2073.26 MD	
6,532.17	6,453.59	767.45	-401.50	Start Drop -2.00	
7,060.43	6,978.86	810.48	-424.01	Start DLS 10.00 TFO 180.40	
7,991.13	7,551.00	206.85	-428.26	Start 5508.19 hold at 7991.13 MD	
13,499.32	7,256.00	-5,293.30	-467.00	TD at 13499.32	