



# **WEXPRO COMPANY**

**COLORADO (MOFFAT COUNTY)**

**SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)**

**B.W. MUSSER #58**

**ORIGINAL WELLBORE**

**18 March, 2011**

**Plan: PROPOSAL #1**



# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #58
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6727.0usft (Original Well Elev)
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6727.0usft (Original Well Elev)
Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	North Reference:	True
Well:	B.W. MUSSER #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Project:	COLORADO (MOFFAT COUNTY)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)		
Site Position:		Northing:	1,595,097.45 usft
From:	Lat/Long	Easting:	2,226,753.44 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	40° 56' 0.269 N
		Longitude:	108° 17' 55.860 W
		Grid Convergence:	-1.81 °

Well:	B.W. MUSSER #58		
Well Position	+N/-S	8.4 usft	Northing:
	+E/-W	13.8 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
			usft
		Latitude:	40° 56' 0.351 N
		Longitude:	108° 17' 55.680 W
		Ground Level:	6,699.0 usft

Wellbore:	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	18/03/2011	10.71	66.86	53,001

Design:	PROPOSAL #1				
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Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	5,000.0	0.0	0.0	322.56

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	-6,727.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	-6,127.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,376.9	15.54	322.56	1,367.4	-5,359.6	83.1	-63.6	2.00	2.00	0.00	322.56	
4,705.5	15.54	322.56	4,574.3	-2,152.7	791.1	-605.7	0.00	0.00	0.00	0.00	
5,141.3	9.00	322.56	5,000.0	-1,727.0	864.6	-662.0	1.50	-1.50	0.00	180.00	10ft WITHIN B.W. M
6,941.3	0.00	0.00	6,792.6	65.6	976.6	-747.7	0.50	-0.50	0.00	180.00	
9,346.7	0.00	0.00	9,198.0	2,471.0	976.6	-747.7	0.00	0.00	0.00	0.00	

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Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6727.0usft (Original Well Elev)
Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	North Reference:	True
Well:	B.W. MUSSER #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	6,727.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	6,627.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	6,527.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	6,427.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	6,327.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	6,227.00	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP (2°/100ft BUR)</b>										
600.0	0.00	0.00	600.0	6,127.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	2.00	322.56	700.0	6,027.02	1.4	-1.1	1.7	2.00	2.00	0.00
800.0	4.00	322.56	799.8	5,927.16	5.5	-4.2	7.0	2.00	2.00	0.00
900.0	6.00	322.56	899.5	5,827.55	12.5	-9.5	15.7	2.00	2.00	0.00
1,000.0	8.00	322.56	998.7	5,728.30	22.1	-16.9	27.9	2.00	2.00	0.00
1,100.0	10.00	322.56	1,097.5	5,629.53	34.6	-26.5	43.5	2.00	2.00	0.00
1,200.0	12.00	322.56	1,195.6	5,531.38	49.7	-38.1	62.6	2.00	2.00	0.00
1,300.0	14.00	322.56	1,293.1	5,433.94	67.6	-51.7	85.1	2.00	2.00	0.00
<b>END OF BUILD TO 15.54° INC</b>										
1,376.9	15.54	322.56	1,367.4	5,359.60	83.1	-63.6	104.7	2.00	2.00	0.00
1,400.0	15.54	322.56	1,389.7	5,337.33	88.0	-67.4	110.9	0.00	0.00	0.00
1,500.0	15.54	322.56	1,486.0	5,240.99	109.3	-83.7	137.7	0.00	0.00	0.00
1,600.0	15.54	322.56	1,582.4	5,144.64	130.6	-100.0	164.5	0.00	0.00	0.00
1,700.0	15.54	322.56	1,678.7	5,048.30	151.8	-116.3	191.2	0.00	0.00	0.00
1,800.0	15.54	322.56	1,775.0	4,951.95	173.1	-132.6	218.0	0.00	0.00	0.00
1,900.0	15.54	322.56	1,871.4	4,855.60	194.4	-148.8	244.8	0.00	0.00	0.00
2,000.0	15.54	322.56	1,967.7	4,759.26	215.7	-165.1	271.6	0.00	0.00	0.00
2,100.0	15.54	322.56	2,064.1	4,662.91	236.9	-181.4	298.4	0.00	0.00	0.00
2,200.0	15.54	322.56	2,160.4	4,566.57	258.2	-197.7	325.2	0.00	0.00	0.00
2,300.0	15.54	322.56	2,256.8	4,470.22	279.5	-214.0	352.0	0.00	0.00	0.00
2,400.0	15.54	322.56	2,353.1	4,373.88	300.7	-230.3	378.8	0.00	0.00	0.00
2,500.0	15.54	322.56	2,449.5	4,277.53	322.0	-246.5	405.5	0.00	0.00	0.00
2,600.0	15.54	322.56	2,545.8	4,181.19	343.3	-262.8	432.3	0.00	0.00	0.00
2,700.0	15.54	322.56	2,642.2	4,084.84	364.5	-279.1	459.1	0.00	0.00	0.00
2,800.0	15.54	322.56	2,738.5	3,988.50	385.8	-295.4	485.9	0.00	0.00	0.00
2,900.0	15.54	322.56	2,834.8	3,892.15	407.1	-311.7	512.7	0.00	0.00	0.00
3,000.0	15.54	322.56	2,931.2	3,795.81	428.3	-328.0	539.5	0.00	0.00	0.00
3,100.0	15.54	322.56	3,027.5	3,699.46	449.6	-344.3	566.3	0.00	0.00	0.00
3,200.0	15.54	322.56	3,123.9	3,603.11	470.9	-360.5	593.1	0.00	0.00	0.00
3,300.0	15.54	322.56	3,220.2	3,506.77	492.2	-376.8	619.8	0.00	0.00	0.00
3,400.0	15.54	322.56	3,316.6	3,410.42	513.4	-393.1	646.6	0.00	0.00	0.00
3,500.0	15.54	322.56	3,412.9	3,314.08	534.7	-409.4	673.4	0.00	0.00	0.00
3,600.0	15.54	322.56	3,509.3	3,217.73	556.0	-425.7	700.2	0.00	0.00	0.00
3,700.0	15.54	322.56	3,605.6	3,121.39	577.2	-442.0	727.0	0.00	0.00	0.00
3,800.0	15.54	322.56	3,702.0	3,025.04	598.5	-458.2	753.8	0.00	0.00	0.00
3,900.0	15.54	322.56	3,798.3	2,928.70	619.8	-474.5	780.6	0.00	0.00	0.00
4,000.0	15.54	322.56	3,894.6	2,832.35	641.0	-490.8	807.4	0.00	0.00	0.00
4,100.0	15.54	322.56	3,991.0	2,736.01	662.3	-507.1	834.1	0.00	0.00	0.00
4,200.0	15.54	322.56	4,087.3	2,639.66	683.6	-523.4	860.9	0.00	0.00	0.00
4,300.0	15.54	322.56	4,183.7	2,543.31	704.8	-539.7	887.7	0.00	0.00	0.00
4,400.0	15.54	322.56	4,280.0	2,446.97	726.1	-556.0	914.5	0.00	0.00	0.00
4,500.0	15.54	322.56	4,376.4	2,350.62	747.4	-572.2	941.3	0.00	0.00	0.00
4,600.0	15.54	322.56	4,472.7	2,254.28	768.6	-588.5	968.1	0.00	0.00	0.00
<b>A-4-G SD</b>										
4,606.5	15.54	322.56	4,479.0	2,248.00	770.0	-589.6	969.8	0.00	0.00	0.00
4,700.0	15.54	322.56	4,569.1	2,157.93	789.9	-604.8	994.9	0.00	0.00	0.00

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Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>END OF TANGENT</b>										
4,705.5	15.54	322.56	4,574.3	2,152.66	791.1	-605.7	996.3	0.00	0.00	0.00
4,800.0	14.12	322.56	4,665.7	2,061.28	810.3	-620.4	1,020.5	1.50	-1.50	0.00
4,900.0	12.62	322.56	4,763.0	1,964.00	828.6	-634.5	1,043.6	1.50	-1.50	0.00
<b>(BIG WATER SD)</b>										
4,908.2	12.50	322.56	4,771.0	1,956.00	830.1	-635.5	1,045.4	1.50	-1.50	0.00
5,000.0	11.12	322.56	4,860.9	1,866.14	845.0	-647.0	1,064.2	1.50	-1.50	0.00
5,100.0	9.62	322.56	4,959.2	1,767.77	859.3	-657.9	1,082.2	1.50	-1.50	0.00
<b>END OF DROP TO 9° INC - 10ft WITHIN TGT</b>										
5,141.3	9.00	322.56	5,000.0	1,727.00	864.6	-662.0	1,088.9	1.50	-1.50	0.00
5,200.0	8.71	322.56	5,058.0	1,669.02	871.7	-667.5	1,097.9	0.50	-0.50	0.00
<b>A-4-H SD</b>										
5,220.2	8.61	322.56	5,078.0	1,649.00	874.2	-669.3	1,101.0	0.50	-0.50	0.00
5,300.0	8.21	322.56	5,156.9	1,570.10	883.4	-676.4	1,112.6	0.50	-0.50	0.00
5,400.0	7.71	322.56	5,255.9	1,471.07	894.4	-684.8	1,126.5	0.50	-0.50	0.00
<b>FORT UNION FORMATION</b>										
5,467.7	7.37	322.56	5,323.0	1,404.00	901.5	-690.2	1,135.4	0.50	-0.50	0.00
5,500.0	7.21	322.56	5,355.1	1,371.91	904.7	-692.7	1,139.5	0.50	-0.50	0.00
5,600.0	6.71	322.56	5,454.3	1,272.65	914.3	-700.1	1,151.6	0.50	-0.50	0.00
5,700.0	6.21	322.56	5,553.7	1,173.28	923.3	-706.9	1,162.8	0.50	-0.50	0.00
5,800.0	5.71	322.56	5,653.2	1,073.82	931.5	-713.2	1,173.2	0.50	-0.50	0.00
5,900.0	5.21	322.56	5,752.7	974.28	939.1	-719.0	1,182.7	0.50	-0.50	0.00
6,000.0	4.71	322.56	5,852.3	874.65	945.9	-724.3	1,191.3	0.50	-0.50	0.00
6,100.0	4.21	322.56	5,952.0	774.96	952.1	-729.0	1,199.1	0.50	-0.50	0.00
6,200.0	3.71	322.56	6,051.8	675.19	957.6	-733.2	1,206.0	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8A</b>										
6,289.4	3.26	322.56	6,141.0	586.00	961.9	-736.5	1,211.4	0.50	-0.50	0.00
6,300.0	3.21	322.56	6,151.6	575.38	962.3	-736.8	1,212.0	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8B</b>										
6,322.4	3.09	322.56	6,174.0	553.00	963.3	-737.6	1,213.3	0.50	-0.50	0.00
6,400.0	2.71	322.56	6,251.5	475.51	966.4	-740.0	1,217.2	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8E</b>										
6,486.6	2.27	322.56	6,338.0	389.00	969.4	-742.3	1,221.0	0.50	-0.50	0.00
6,500.0	2.21	322.56	6,351.4	375.60	969.8	-742.6	1,221.5	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8E1</b>										
6,556.6	1.92	322.56	6,408.0	319.00	971.5	-743.8	1,223.5	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8F</b>										
6,592.7	1.74	322.56	6,444.0	283.00	972.4	-744.5	1,224.7	0.50	-0.50	0.00
6,600.0	1.71	322.56	6,451.3	275.66	972.6	-744.7	1,224.9	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8G</b>										
6,646.7	1.47	322.56	6,498.0	229.00	973.6	-745.4	1,226.2	0.50	-0.50	0.00
6,700.0	1.21	322.56	6,551.3	175.69	974.6	-746.2	1,227.4	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8H</b>										
6,706.7	1.17	322.56	6,558.0	169.00	974.7	-746.3	1,227.6	0.50	-0.50	0.00
6,800.0	0.71	322.56	6,651.3	75.71	975.9	-747.2	1,229.1	0.50	-0.50	0.00
<b>L.F.U. ALLEN 9A</b>										
6,872.7	0.34	322.56	6,724.0	3.00	976.4	-747.6	1,229.8	0.50	-0.50	0.00
6,900.0	0.21	322.56	6,751.3	-24.29	976.5	-747.7	1,229.9	0.50	-0.50	0.00
<b>L.F.U. ALLEN 9B</b>										
6,917.7	0.12	322.56	6,769.0	-42.00	976.6	-747.7	1,230.0	0.50	-0.50	0.00
<b>END OF DROP TO VERTICAL</b>										

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Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6727.0usft (Original Well Elev)
Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	North Reference:	True
Well:	B.W. MUSSER #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,941.3	0.00	0.00	6,792.6	-65.61	976.6	-747.7	1,230.0	0.50	-0.50	0.00
7,000.0	0.00	0.00	6,851.3	-124.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 9C										
7,011.7	0.00	0.00	6,863.0	-136.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,100.0	0.00	0.00	6,951.3	-224.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 11										
7,141.7	0.00	0.00	6,993.0	-266.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,051.3	-324.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,151.3	-424.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 11A										
7,305.7	0.00	0.00	7,157.0	-430.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,251.3	-524.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 11B										
7,450.7	0.00	0.00	7,302.0	-575.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,351.3	-624.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 11C										
7,598.7	0.00	0.00	7,450.0	-723.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,451.3	-724.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,551.3	-824.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,651.3	-924.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. 4600										
7,803.7	0.00	0.00	7,655.0	-928.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,751.3	-1,024.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,851.3	-1,124.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 10A										
8,003.7	0.00	0.00	7,855.0	-1,128.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,100.0	0.00	0.00	7,951.3	-1,224.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 10B										
8,109.7	0.00	0.00	7,961.0	-1,234.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 10C										
8,150.7	0.00	0.00	8,002.0	-1,275.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,051.3	-1,324.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 5										
8,242.7	0.00	0.00	8,094.0	-1,367.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 6A										
8,293.7	0.00	0.00	8,145.0	-1,418.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,151.3	-1,424.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 6B										
8,353.7	0.00	0.00	8,205.0	-1,478.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,251.3	-1,524.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 6C										
8,420.7	0.00	0.00	8,272.0	-1,545.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,351.3	-1,624.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 6D										
8,500.7	0.00	0.00	8,352.0	-1,625.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 6E										
8,535.7	0.00	0.00	8,387.0	-1,660.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,451.3	-1,724.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,551.3	-1,824.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 6G										
8,771.7	0.00	0.00	8,623.0	-1,896.00	976.6	-747.7	1,230.0	0.00	0.00	0.00

# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #58
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6727.0usft (Original Well Elev)
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6727.0usft (Original Well Elev)
Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	North Reference:	True
Well:	B.W. MUSSER #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,800.0	0.00	0.00	8,651.3	-1,924.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 6H										
8,843.7	0.00	0.00	8,695.0	-1,968.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,751.3	-2,024.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
L.F.U. ALLEN 6K										
8,996.7	0.00	0.00	8,848.0	-2,121.00	976.6	-747.7	1,230.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,851.3	-2,124.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
9,100.0	0.00	0.00	8,951.3	-2,224.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,051.3	-2,324.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,151.3	-2,424.29	976.6	-747.7	1,230.0	0.00	0.00	0.00
PROPOSED TD - B.W. MUSSER #58										
9,346.7	0.00	0.00	9,198.0	-2,471.00	976.6	-747.7	1,230.0	0.00	0.00	0.00



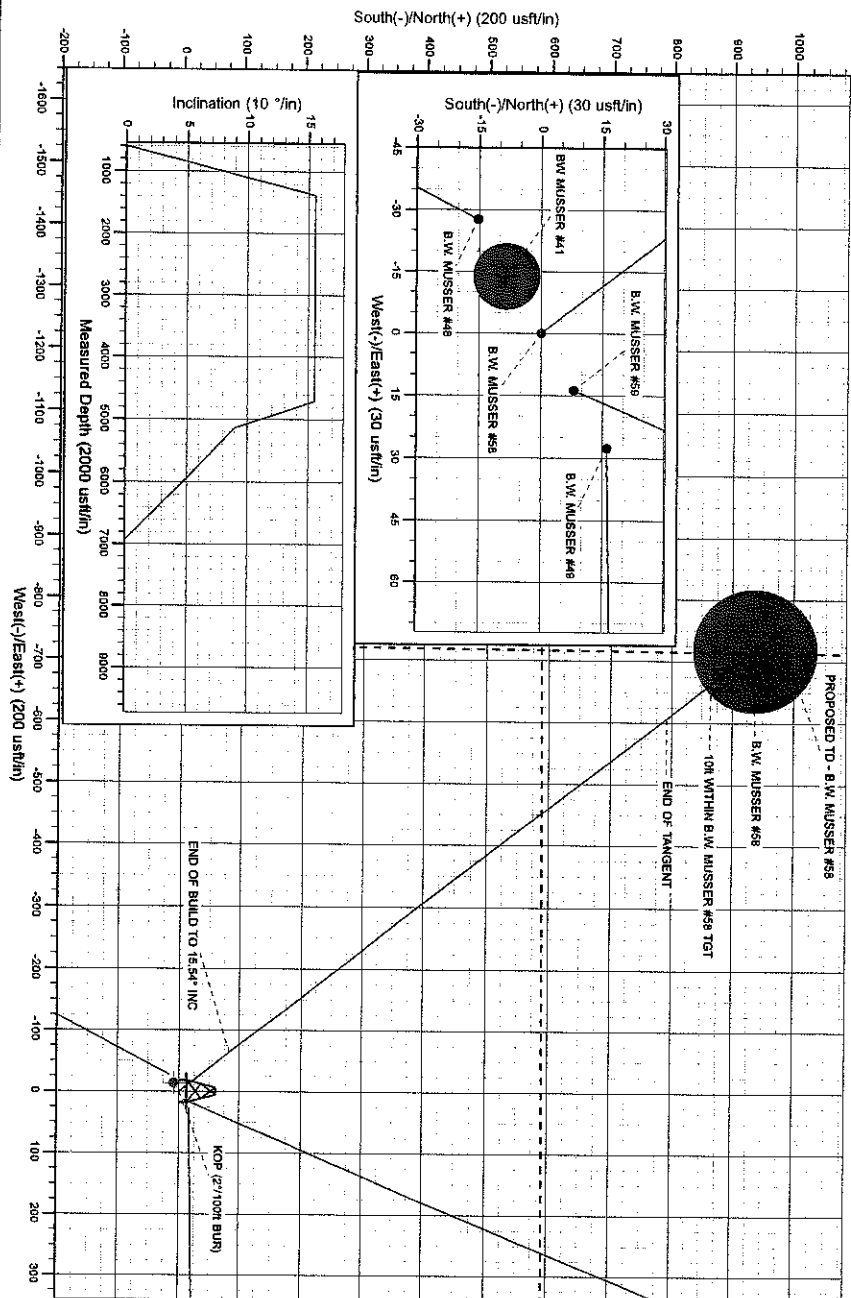
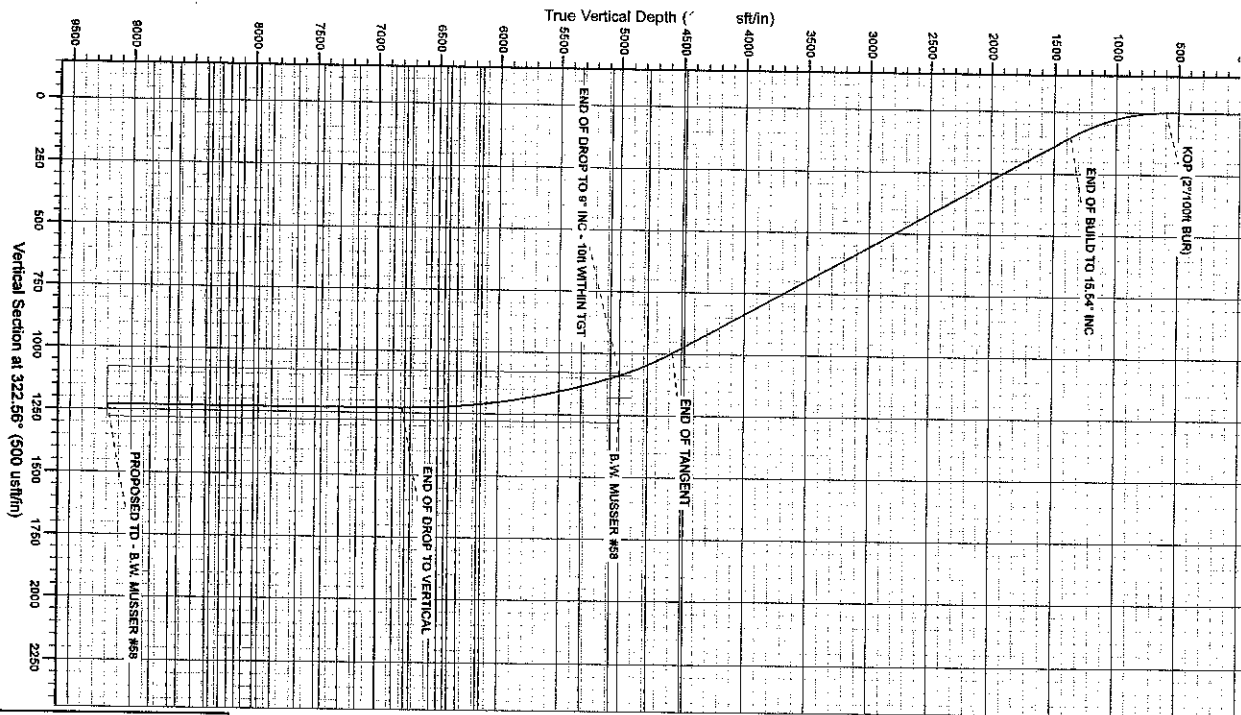
# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #58
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6727.0usft (Original Well Elev)
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6727.0usft (Original Well Elev)
Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	North Reference:	True
Well:	B.W. MUSSER #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,606.5	4,479.0	A-4-G SD				
4,908.2	4,771.0	(BIG WATER SD)				
5,220.2	5,078.0	A-4-H SD				
5,467.7	5,323.0	FORT UNION FORMATION				
6,289.4	6,141.0	L.F.U. ALLEN 8A				
6,322.4	6,174.0	L.F.U. ALLEN 8B				
6,486.6	6,338.0	L.F.U. ALLEN 8E				
6,556.6	6,408.0	L.F.U. ALLEN 8E1				
6,592.7	6,444.0	L.F.U. ALLEN 8F				
6,646.7	6,498.0	L.F.U. ALLEN 8G				
6,706.7	6,558.0	L.F.U. ALLEN 8H				
6,872.7	6,724.0	L.F.U. ALLEN 9A				
6,917.7	6,769.0	L.F.U. ALLEN 9B				
7,011.7	6,863.0	L.F.U. ALLEN 9C				
7,141.7	6,993.0	L.F.U. ALLEN 11				
7,305.7	7,157.0	L.F.U. ALLEN 11A				
7,450.7	7,302.0	L.F.U. ALLEN 11B				
7,598.7	7,450.0	L.F.U. ALLEN 11C				
7,803.7	7,655.0	L.F.U 4600				
8,003.7	7,855.0	L.F.U. ALLEN 10A				
8,109.7	7,961.0	L.F.U. ALLEN 10B				
8,150.7	8,002.0	L.F.U. ALLEN 10C				
8,242.7	8,094.0	L.F.U. ALLEN 6				
8,293.7	8,145.0	L.F.U. ALLEN 6A				
8,353.7	8,205.0	L.F.U. ALLEN 6B				
8,420.7	8,272.0	L.F.U. ALLEN 6C				
8,500.7	8,352.0	L.F.U. ALLEN 6D				
8,535.7	8,387.0	L.F.U. ALLEN 6E				
8,771.7	8,623.0	L.F.U. ALLEN 6G				
8,843.7	8,695.0	L.F.U. ALLEN 6H				
8,996.7	8,848.0	L.F.U. ALLEN 6K				

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.0	600.0	0.0	0.0	KOP (2°/100ft BUR)
1,376.9	1,367.4	83.1	-63.6	END OF BUILD TO 15.54° INC
4,705.5	4,574.3	791.1	-605.7	END OF TANGENT
5,141.3	5,000.0	864.6	-662.0	END OF DROP TO 9° INC - 10ft WITHIN TGT
6,941.3	6,792.6	976.6	-747.7	END OF DROP TO VERTICAL
9,346.7	9,198.0	976.6	-747.7	PROPOSED TD - B.W. MUSSER #58

Project: COLORADO (MOFFAT COUNTY)  
 Site: SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)  
 Well: B.W. MUSSER #58  
 Wellbore: ORIGINAL WELLBORE  
 Design: PROPOSAL #1



Azimuths to True North									
Magnetic North: 10.71°									
Magnetic Field									
Strength: 53000.7nT									
Dip Angle: 66.86°									
Date: 18/03/2014									
Model: IGRF2010									
	TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Annotation	
	6000.0	6000.0	0.00	0.00	0.0	0.0	0.0	KOP (27100ft BUR)	
	1367.4	1376.9	15.54	322.56	83.1	-63.6	104.7	END OF BUILD TO 15.54° INC	
	4574.3	4705.5	15.54	322.56	791.1	-605.7	996.3	END OF TANGENT	
	5000.0	5141.3	8.00	322.56	864.6	-662.0	1088.9	END OF DROP TO VERTICAL	
	6792.6	6941.3	0.00	0.00	976.6	-747.7	1230.0	PROPOSED TD - B.W. MUSSER #58	
	9196.0	9346.7	0.00	0.00	976.6	-747.7	1230.0		