



# **WEXPRO COMPANY**

**COLORADO (MOFFAT COUNTY)**

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

**B.W. MUSSER #48**

**ORIGINAL WELLBORE**

**18 March, 2011**

**Plan: PROPOSAL #1**



# Planning Report

<b>Database:</b>	EDM_5000_1_7	<b>Local Co-ordinate Reference:</b>	Well B.W. MUSSER #48
<b>Company:</b>	WEXPRO COMPANY	<b>TVD Reference:</b>	KB-EST @ 6726.0usft (Original Well Elev)
<b>Project:</b>	COLORADO (MOFFAT COUNTY)	<b>MD Reference:</b>	KB-EST @ 6726.0usft (Original Well Elev)
<b>Site:</b>	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	<b>North Reference:</b>	True
<b>Well:</b>	B.W. MUSSER #48	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

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

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

<b>Well</b>	B.W. MUSSER #48		
<b>Well Position</b>	<b>+N/-S</b>	-6.9 usft	<b>Northing:</b> 1,595,090.96 usft
	<b>+E/-W</b>	-13.8 usft	<b>Easting:</b> 2,226,739.41 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	40° 56' 0.200 N
		<b>Longitude:</b>	108° 17' 56.040 W
		<b>Ground Level:</b>	6,698.0 usft

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

<b>Design</b>	PROPOSAL #1				
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<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	5,000.0	0.0	0.0	207.62	

<b>Plan Sections</b>											
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	-6,726.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,464.4	0.00	0.00	2,464.4	-4,261.6	0.0	0.0	0.00	0.00	0.00	0.00	
3,064.4	12.00	207.62	3,060.0	-3,666.0	-55.5	-29.0	2.00	2.00	0.00	207.62	
4,846.7	12.00	207.62	4,803.4	-1,922.6	-383.8	-200.8	0.00	0.00	0.00	0.00	
5,046.7	9.00	207.62	5,000.0	-1,726.0	-416.1	-217.7	1.50	-1.50	0.00	180.00	10ft WITHIN B.W. M
6,846.7	0.00	0.00	6,792.6	66.6	-541.1	-283.1	0.50	-0.50	0.00	180.00	
9,287.1	0.00	0.00	9,233.0	2,507.0	-541.1	-283.1	0.00	0.00	0.00	0.00	



# Planning Report

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Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6726.0usft (Original Well Elev)
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6726.0usft (Original Well Elev)
Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	North Reference:	True
Well:	B.W. MUSSER #48	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	6,726.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	6,626.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	6,526.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	6,426.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	6,326.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	6,226.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	6,126.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	6,026.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	5,926.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	5,826.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	5,726.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	5,626.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	5,526.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	5,426.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	5,326.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	5,226.00	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	5,126.00	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	5,026.00	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	4,926.00	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	4,826.00	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	4,726.00	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	4,626.00	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	4,526.00	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	4,426.00	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	4,326.00	0.0	0.0	0.0	0.00	0.00	0.00
<b>KOP (2°/100ft BUR)</b>										
2,464.4	0.00	0.00	2,464.4	4,261.57	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.71	207.62	2,500.0	4,226.00	-0.2	-0.1	0.2	2.00	2.00	0.00
2,600.0	2.71	207.62	2,599.9	4,126.05	-2.8	-1.5	3.2	2.00	2.00	0.00
2,700.0	4.71	207.62	2,699.7	4,026.27	-8.6	-4.5	9.7	2.00	2.00	0.00
2,800.0	6.71	207.62	2,799.2	3,926.77	-17.4	-9.1	19.6	2.00	2.00	0.00
2,900.0	8.71	207.62	2,898.3	3,827.68	-29.3	-15.3	33.0	2.00	2.00	0.00
3,000.0	10.71	207.62	2,996.9	3,729.11	-44.2	-23.1	49.9	2.00	2.00	0.00
<b>END OF BUILD TO 12° INC</b>										
3,064.4	12.00	207.62	3,060.0	3,665.95	-55.5	-29.0	62.6	2.00	2.00	0.00
3,100.0	12.00	207.62	3,094.8	3,631.15	-62.0	-32.5	70.0	0.00	0.00	0.00
3,200.0	12.00	207.62	3,192.7	3,533.34	-80.4	-42.1	90.8	0.00	0.00	0.00
3,300.0	12.00	207.62	3,290.5	3,435.52	-98.9	-51.7	111.6	0.00	0.00	0.00
3,400.0	12.00	207.62	3,388.3	3,337.71	-117.3	-61.4	132.4	0.00	0.00	0.00
3,500.0	12.00	207.62	3,486.1	3,239.90	-135.7	-71.0	153.2	0.00	0.00	0.00
3,600.0	12.00	207.62	3,583.9	3,142.08	-154.1	-80.6	174.0	0.00	0.00	0.00
3,700.0	12.00	207.62	3,681.7	3,044.27	-172.6	-90.3	194.7	0.00	0.00	0.00
3,800.0	12.00	207.62	3,779.5	2,946.45	-191.0	-99.9	215.5	0.00	0.00	0.00
3,900.0	12.00	207.62	3,877.4	2,848.64	-209.4	-109.6	236.3	0.00	0.00	0.00
4,000.0	12.00	207.62	3,975.2	2,750.82	-227.8	-119.2	257.1	0.00	0.00	0.00
4,100.0	12.00	207.62	4,073.0	2,653.01	-246.2	-128.8	277.9	0.00	0.00	0.00
4,200.0	12.00	207.62	4,170.8	2,555.19	-264.7	-138.5	298.7	0.00	0.00	0.00
4,300.0	12.00	207.62	4,268.6	2,457.38	-283.1	-148.1	319.5	0.00	0.00	0.00
4,400.0	12.00	207.62	4,366.4	2,359.56	-301.5	-157.8	340.3	0.00	0.00	0.00
4,500.0	12.00	207.62	4,464.3	2,261.75	-319.9	-167.4	361.1	0.00	0.00	0.00
<b>A-4-G SD</b>										
4,538.6	12.00	207.62	4,502.0	2,224.00	-327.0	-171.1	369.1	0.00	0.00	0.00
4,600.0	12.00	207.62	4,562.1	2,163.93	-338.3	-177.0	381.9	0.00	0.00	0.00



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Well:	B.W. MUSSER #48	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)
4,700.0	12.00	207.62	4,659.9	2,066.12	-356.8	-186.7	402.7	0.00	0.00	0.00
4,800.0	12.00	207.62	4,757.7	1,968.30	-375.2	-196.3	423.4	0.00	0.00	0.00
<b>(BIG WATER SD)</b>										
<b>4,838.1</b>	<b>12.00</b>	<b>207.62</b>	<b>4,795.0</b>	<b>1,931.00</b>	<b>-382.2</b>	<b>-200.0</b>	<b>431.4</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>END OF TANGENT</b>										
<b>4,846.7</b>	<b>12.00</b>	<b>207.62</b>	<b>4,803.4</b>	<b>1,922.63</b>	<b>-383.8</b>	<b>-200.8</b>	<b>433.2</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
4,900.0	11.20	207.62	4,855.6	1,870.41	-393.3	-205.8	443.9	1.50	-1.50	0.00
5,000.0	9.70	207.62	4,953.9	1,772.07	-409.4	-214.2	462.0	1.50	-1.50	0.00
<b>END OF DROP TO 9° INC - 10ft WITHIN TGT</b>										
<b>5,046.7</b>	<b>9.00</b>	<b>207.62</b>	<b>5,000.0</b>	<b>1,726.00</b>	<b>-416.1</b>	<b>-217.7</b>	<b>469.6</b>	<b>1.50</b>	<b>-1.50</b>	<b>0.00</b>
5,100.0	8.73	207.62	5,052.7	1,673.33	-423.4	-221.5	477.8	0.50	-0.50	0.00
<b>A-4-H SD</b>										
<b>5,169.1</b>	<b>8.39</b>	<b>207.62</b>	<b>5,121.0</b>	<b>1,605.00</b>	<b>-432.5</b>	<b>-226.3</b>	<b>488.1</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
5,200.0	8.23	207.62	5,151.6	1,574.43	-436.4	-228.4	492.6	0.50	-0.50	0.00
5,300.0	7.73	207.62	5,250.6	1,475.40	-448.7	-234.8	506.5	0.50	-0.50	0.00
5,400.0	7.23	207.62	5,349.8	1,376.25	-460.3	-240.8	519.5	0.50	-0.50	0.00
<b>FORT UNION FORMATION</b>										
<b>5,418.4</b>	<b>7.14</b>	<b>207.62</b>	<b>5,368.0</b>	<b>1,358.00</b>	<b>-462.3</b>	<b>-241.9</b>	<b>521.8</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
5,500.0	6.73	207.62	5,449.0	1,276.99	-471.1	-246.5	531.6	0.50	-0.50	0.00
5,600.0	6.23	207.62	5,548.4	1,177.63	-481.1	-251.7	542.9	0.50	-0.50	0.00
5,700.0	5.73	207.62	5,647.8	1,078.18	-490.3	-256.5	553.4	0.50	-0.50	0.00
5,800.0	5.23	207.62	5,747.4	978.63	-498.8	-261.0	562.9	0.50	-0.50	0.00
5,900.0	4.73	207.62	5,847.0	879.01	-506.5	-265.0	571.6	0.50	-0.50	0.00
6,000.0	4.23	207.62	5,946.7	779.32	-513.4	-268.6	579.4	0.50	-0.50	0.00
6,100.0	3.73	207.62	6,046.4	679.56	-519.5	-271.8	586.4	0.50	-0.50	0.00
6,200.0	3.23	207.62	6,146.3	579.75	-524.9	-274.7	592.4	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8A</b>										
<b>6,220.8</b>	<b>3.13</b>	<b>207.62</b>	<b>6,167.0</b>	<b>559.00</b>	<b>-525.9</b>	<b>-275.2</b>	<b>593.6</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
<b>L.F.U. ALLEN 8B</b>										
<b>6,251.8</b>	<b>2.97</b>	<b>207.62</b>	<b>6,198.0</b>	<b>528.00</b>	<b>-527.4</b>	<b>-276.0</b>	<b>595.2</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
6,300.0	2.73	207.62	6,246.1	479.88	-529.5	-277.1	597.6	0.50	-0.50	0.00
6,400.0	2.23	207.62	6,346.0	379.98	-533.4	-279.1	602.0	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8E</b>										
<b>6,420.0</b>	<b>2.13</b>	<b>207.62</b>	<b>6,366.0</b>	<b>360.00</b>	<b>-534.1</b>	<b>-279.4</b>	<b>602.7</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
<b>L.F.U. ALLEN 8E1</b>										
<b>6,492.0</b>	<b>1.77</b>	<b>207.62</b>	<b>6,438.0</b>	<b>288.00</b>	<b>-536.2</b>	<b>-280.6</b>	<b>605.2</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
6,500.0	1.73	207.62	6,446.0	280.04	-536.4	-280.7	605.4	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8F</b>										
<b>6,531.0</b>	<b>1.58</b>	<b>207.62</b>	<b>6,477.0</b>	<b>249.00</b>	<b>-537.2</b>	<b>-281.1</b>	<b>606.3</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
<b>L.F.U. ALLEN 8G</b>										
<b>6,576.1</b>	<b>1.35</b>	<b>207.62</b>	<b>6,522.0</b>	<b>204.00</b>	<b>-538.3</b>	<b>-281.6</b>	<b>607.5</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
6,600.0	1.23	207.62	6,545.9	180.07	-538.7	-281.9	608.0	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8H</b>										
<b>6,647.1</b>	<b>1.00</b>	<b>207.62</b>	<b>6,593.0</b>	<b>133.00</b>	<b>-539.5</b>	<b>-282.3</b>	<b>608.9</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
6,700.0	0.73	207.62	6,645.9	80.08	-540.3	-282.7	609.7	0.50	-0.50	0.00
6,800.0	0.23	207.62	6,745.9	-19.91	-541.0	-283.1	610.6	0.50	-0.50	0.00
<b>L.F.U. ALLEN 9A</b>										
<b>6,803.1</b>	<b>0.22</b>	<b>207.62</b>	<b>6,749.0</b>	<b>-23.00</b>	<b>-541.0</b>	<b>-283.1</b>	<b>610.6</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
<b>END OF DROP TO VERTICAL</b>										
<b>6,846.7</b>	<b>0.00</b>	<b>0.00</b>	<b>6,792.6</b>	<b>-66.61</b>	<b>-541.1</b>	<b>-283.1</b>	<b>610.7</b>	<b>0.50</b>	<b>-0.50</b>	<b>0.00</b>
<b>L.F.U. ALLEN 9B</b>										



# Planning Report

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Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6726.0usft (Original Well Elev)
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6726.0usft (Original Well Elev)
Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	North Reference:	True
Well:	B.W. MUSSER #48	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)
6,850.1	0.00	0.00	6,796.0	-70.00	-541.1	-283.1	610.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,845.9	-119.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 9C										
6,941.1	0.00	0.00	6,887.0	-161.00	-541.1	-283.1	610.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,945.9	-219.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 11										
7,074.1	0.00	0.00	7,020.0	-294.00	-541.1	-283.1	610.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,045.9	-319.91	-541.1	-283.1	610.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,145.9	-419.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 11A										
7,239.1	0.00	0.00	7,185.0	-459.00	-541.1	-283.1	610.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,245.9	-519.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 11B										
7,383.1	0.00	0.00	7,329.0	-603.00	-541.1	-283.1	610.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,345.9	-619.91	-541.1	-283.1	610.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,445.9	-719.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 11C										
7,528.1	0.00	0.00	7,474.0	-748.00	-541.1	-283.1	610.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,545.9	-819.91	-541.1	-283.1	610.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,645.9	-919.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. 4600										
7,721.1	0.00	0.00	7,667.0	-941.00	-541.1	-283.1	610.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,745.9	-1,019.91	-541.1	-283.1	610.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,845.9	-1,119.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 10A										
7,944.1	0.00	0.00	7,890.0	-1,164.00	-541.1	-283.1	610.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,945.9	-1,219.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 10B										
8,051.1	0.00	0.00	7,997.0	-1,271.00	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 10C										
8,093.1	0.00	0.00	8,039.0	-1,313.00	-541.1	-283.1	610.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,045.9	-1,319.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6										
8,175.1	0.00	0.00	8,121.0	-1,395.00	-541.1	-283.1	610.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,145.9	-1,419.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6A										
8,236.1	0.00	0.00	8,182.0	-1,456.00	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6B										
8,296.1	0.00	0.00	8,242.0	-1,516.00	-541.1	-283.1	610.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,245.9	-1,519.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6C										
8,363.1	0.00	0.00	8,309.0	-1,583.00	-541.1	-283.1	610.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,345.9	-1,619.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6D										
8,446.1	0.00	0.00	8,392.0	-1,666.00	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6E										
8,480.1	0.00	0.00	8,426.0	-1,700.00	-541.1	-283.1	610.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,445.9	-1,719.91	-541.1	-283.1	610.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,545.9	-1,819.91	-541.1	-283.1	610.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,645.9	-1,919.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6G										



# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #48
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6726.0usft (Original Well Elev)
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6726.0usft (Original Well Elev)
Site:	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	North Reference:	True
Well:	B.W. MUSSER #48	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)
8,710.1	0.00	0.00	8,656.0	-1,930.00	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6H										
8,787.1	0.00	0.00	8,733.0	-2,007.00	-541.1	-283.1	610.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,745.9	-2,019.91	-541.1	-283.1	610.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,845.9	-2,119.91	-541.1	-283.1	610.7	0.00	0.00	0.00
L.F.U. ALLEN 6K										
8,937.1	0.00	0.00	8,883.0	-2,157.00	-541.1	-283.1	610.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,945.9	-2,219.91	-541.1	-283.1	610.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,045.9	-2,319.91	-541.1	-283.1	610.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,145.9	-2,419.91	-541.1	-283.1	610.7	0.00	0.00	0.00
PROPOSED TD - MUSSER #48										
9,287.1	0.00	0.00	9,233.0	-2,507.00	-541.1	-283.1	610.7	0.00	0.00	0.00

# Planning Report

<b>Database:</b>	EDM_5000_1_7	<b>Local Co-ordinate Reference:</b>	Well B.W. MUSSER #48
<b>Company:</b>	WEXPRO COMPANY	<b>TVD Reference:</b>	KB-EST @ 6726.0usft (Original Well Elev)
<b>Project:</b>	COLORADO (MOFFAT COUNTY)	<b>MD Reference:</b>	KB-EST @ 6726.0usft (Original Well Elev)
<b>Site:</b>	SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)	<b>North Reference:</b>	True
<b>Well:</b>	B.W. MUSSER #48	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

## Formations

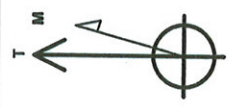
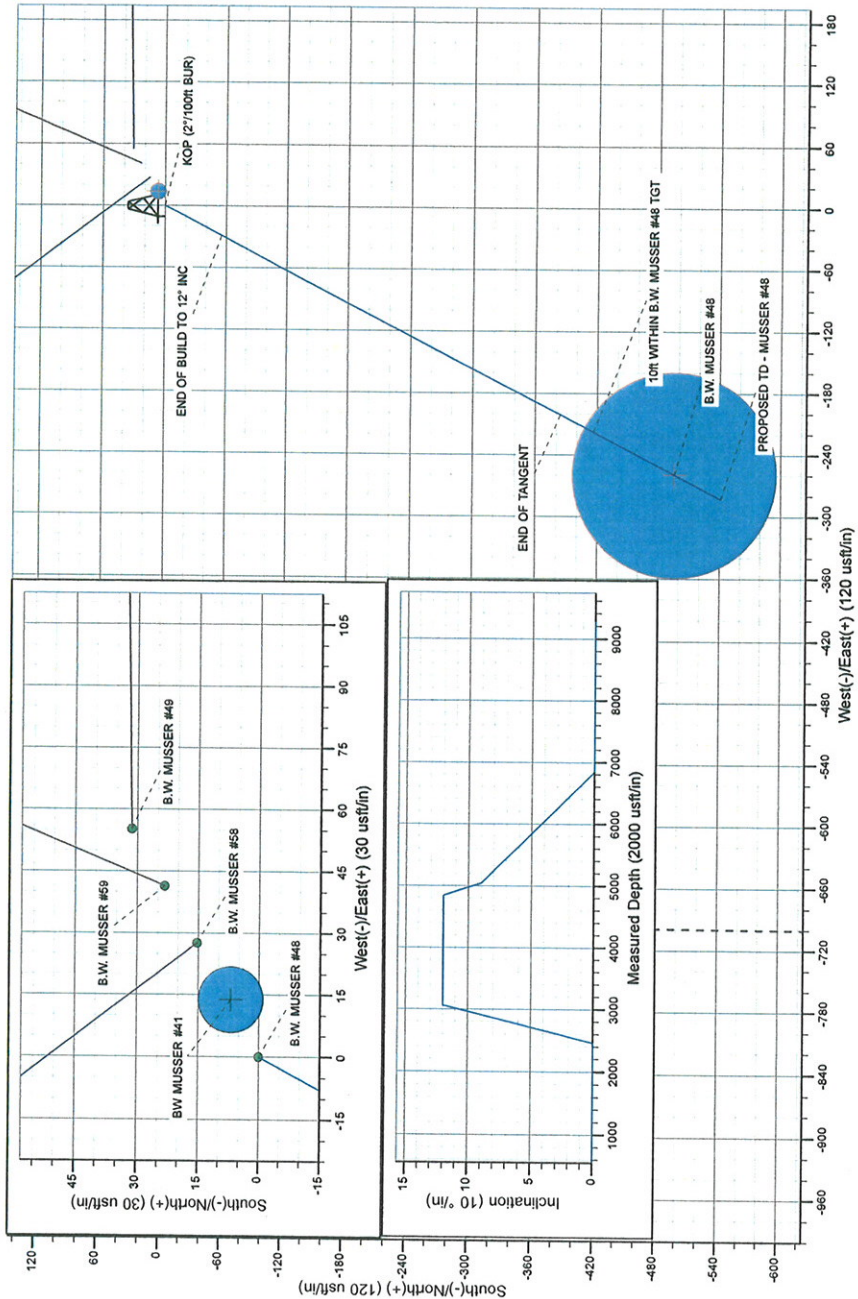
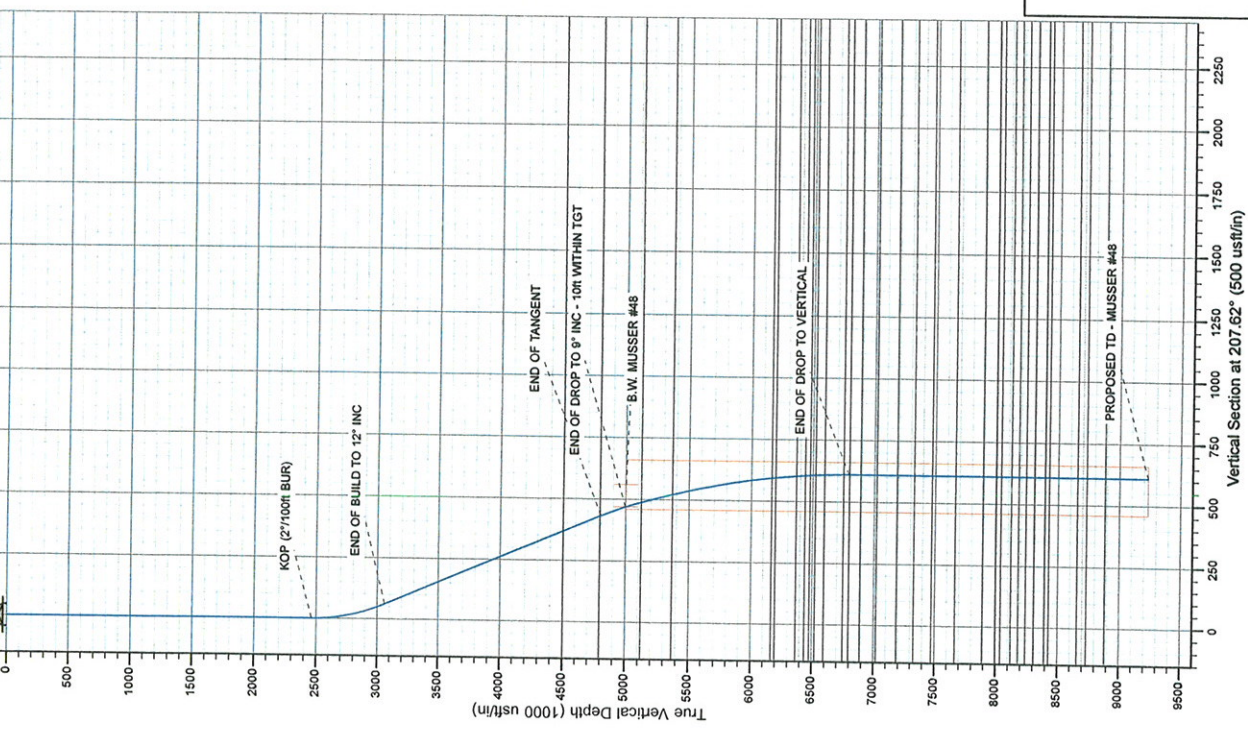
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,538.6	4,502.0	A-4-G SD			
4,838.1	4,795.0	(BIG WATER SD)			
5,169.1	5,121.0	A-4-H SD			
5,418.4	5,368.0	FORT UNION FORMATION			
6,220.8	6,167.0	L.F.U. ALLEN 8A			
6,251.8	6,198.0	L.F.U. ALLEN 8B			
6,420.0	6,366.0	L.F.U. ALLEN 8E			
6,492.0	6,438.0	L.F.U. ALLEN 8E1			
6,531.0	6,477.0	L.F.U. ALLEN 8F			
6,576.1	6,522.0	L.F.U. ALLEN 8G			
6,647.1	6,593.0	L.F.U. ALLEN 8H			
6,803.1	6,749.0	L.F.U. ALLEN 9A			
6,850.1	6,796.0	L.F.U. ALLEN 9B			
6,941.1	6,887.0	L.F.U. ALLEN 9C			
7,074.1	7,020.0	L.F.U. ALLEN 11			
7,239.1	7,185.0	L.F.U. ALLEN 11A			
7,383.1	7,329.0	L.F.U. ALLEN 11B			
7,528.1	7,474.0	L.F.U. ALLEN 11C			
7,721.1	7,667.0	L.F.U. 4600			
7,944.1	7,890.0	L.F.U. ALLEN 10A			
8,051.1	7,997.0	L.F.U. ALLEN 10B			
8,093.1	8,039.0	L.F.U. ALLEN 10C			
8,175.1	8,121.0	L.F.U. ALLEN 6			
8,236.1	8,182.0	L.F.U. ALLEN 6A			
8,296.1	8,242.0	L.F.U. ALLEN 6B			
8,363.1	8,309.0	L.F.U. ALLEN 6C			
8,446.1	8,392.0	L.F.U. ALLEN 6D			
8,480.1	8,426.0	L.F.U. ALLEN 6E			
8,710.1	8,656.0	L.F.U. ALLEN 6G			
8,787.1	8,733.0	L.F.U. ALLEN 6H			
8,937.1	8,883.0	L.F.U. ALLEN 6K			

## Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,464.4	2,464.4	0.0	0.0	KOP (2°/100ft BUR)
3,064.4	3,060.0	-55.5	-29.0	END OF BUILD TO 12° INC
4,846.7	4,803.4	-383.8	-200.8	END OF TANGENT
5,046.7	5,000.0	-416.1	-217.7	END OF DROP TO 9° INC - 10ft WITHIN TGT
6,846.7	6,792.6	-541.1	-283.1	END OF DROP TO VERTICAL
9,287.1	9,233.0	-541.1	-283.1	PROPOSED TD - MUSSER #48



Project: COLORADO (MOFFAT COUNTY)  
 Site: SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)  
 Well: B.W. MUSSEY #48  
 Wellbore: ORIGINAL WELLBORE  
 Design: PROPOSAL #1



Azimuths to True North  
 Magnetic North: 10.71°  
 Magnetic Field  
 Strength: 53000.7snT  
 Dip Angle: 66.86°  
 Date: 18/03/2011  
 Model: IGRF2010

ANNOTATIONS					
TVD	MD	Inc	Azi	+N/-S	+E/-W
2464.4	2464.4	0.00	0.00	0.0	0.0
3060.0	3064.4	12.00	207.62	-55.5	-29.0
4803.4	4846.7	12.00	207.62	-383.3	-200.8
5000.0	5046.7	9.00	207.62	-416.1	-217.7
6792.6	6846.7	0.00	0.00	-541.1	-283.1
9233.0	9287.1	0.00	0.00	-541.1	-283.1

Annotation  
 KOP (27'100ft BUR)  
 END OF BUILD TO 12' INC  
 END OF TANGENT  
 EOD TO 9' INC - 10ft WITHIN TGT  
 END OF DROP TO VERTICAL  
 PROPOSED TD - MUSSEY #48