

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

RECEIVED
BLM LITTLE SNAKE FC
CRAIG, COLORADO 81625
2011 SEP 29 PM 1:25

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		

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 #48		
Well Position	+N/-S	-6.9 usft	Northing:
	+E/-W	-13.8 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	40° 56' 0.200 N
		Longitude:	108° 17' 56.040 W
		Ground Level:	6,698.0 usft

Wellbore	ORIGINAL WELLBORE		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	18/03/2011	10.71
			Dip Angle (°)
			66.86
			Field Strength (nT)
			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	207.62

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	-6,726.0	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. A
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	

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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)
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

KOP (2°/100ft BUR)

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

END OF BUILD TO 12° INC

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

A-4.5 SD

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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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
(BIG WATER SD)										
4,838.1	12.00	207.62	4,795.0	1,931.00	-382.2	-200.0	431.4	0.00	0.00	0.00
END OF TANGENT										
4,846.7	12.00	207.62	4,803.4	1,922.63	-383.8	-200.8	433.2	0.00	0.00	0.00
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
END OF DROP TO 9° INC - 10ft WITHIN TGT										
5,046.7	9.00	207.62	5,000.0	1,726.00	-416.1	-217.7	469.6	1.50	-1.50	0.00
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
A-4 HSD										
5,169.1	8.39	207.62	5,121.0	1,605.00	-432.5	-226.3	488.1	0.50	-0.50	0.00
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
FORT UNION FORMATION										
5,418.4	7.14	207.62	5,368.0	1,358.00	-462.3	-241.9	521.8	0.50	-0.50	0.00
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
L.F.U. ALLEN 8A										
6,220.8	3.13	207.62	6,167.0	559.00	-525.9	-275.2	593.6	0.50	-0.50	0.00
L.F.U. ALLEN 8B										
6,251.8	2.97	207.62	6,198.0	528.00	-527.4	-276.0	595.2	0.50	-0.50	0.00
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
L.F.U. ALLEN 8E										
6,420.0	2.13	207.62	6,366.0	360.00	-534.1	-279.4	602.7	0.50	-0.50	0.00
L.F.U. ALLEN 8E1										
6,492.0	1.77	207.62	6,438.0	288.00	-536.2	-280.6	605.2	0.50	-0.50	0.00
6,500.0	1.73	207.62	6,446.0	280.04	-536.4	-280.7	605.4	0.50	-0.50	0.00
L.F.U. ALLEN 8F										
6,531.0	1.58	207.62	6,477.0	249.00	-537.2	-281.1	606.3	0.50	-0.50	0.00
L.F.U. ALLEN 8G										
6,576.1	1.35	207.62	6,522.0	204.00	-538.3	-281.6	607.5	0.50	-0.50	0.00
6,600.0	1.23	207.62	6,545.9	180.07	-538.7	-281.9	608.0	0.50	-0.50	0.00
L.F.U. ALLEN 8H										
6,647.1	1.00	207.62	6,593.0	133.00	-539.5	-282.3	608.9	0.50	-0.50	0.00
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
L.F.U. ALLEN 9A										
6,803.1	0.22	207.62	6,749.0	-23.00	-541.0	-283.1	610.6	0.50	-0.50	0.00
END OF DROP TO VERTICAL										
6,846.7	0.00	0.00	6,792.6	-66.61	-541.1	-283.1	610.7	0.50	-0.50	0.00
L.F.U. ALLEN 9B										

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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)
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 8										
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

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CRAIG, COLORADO 81625

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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		

Formations

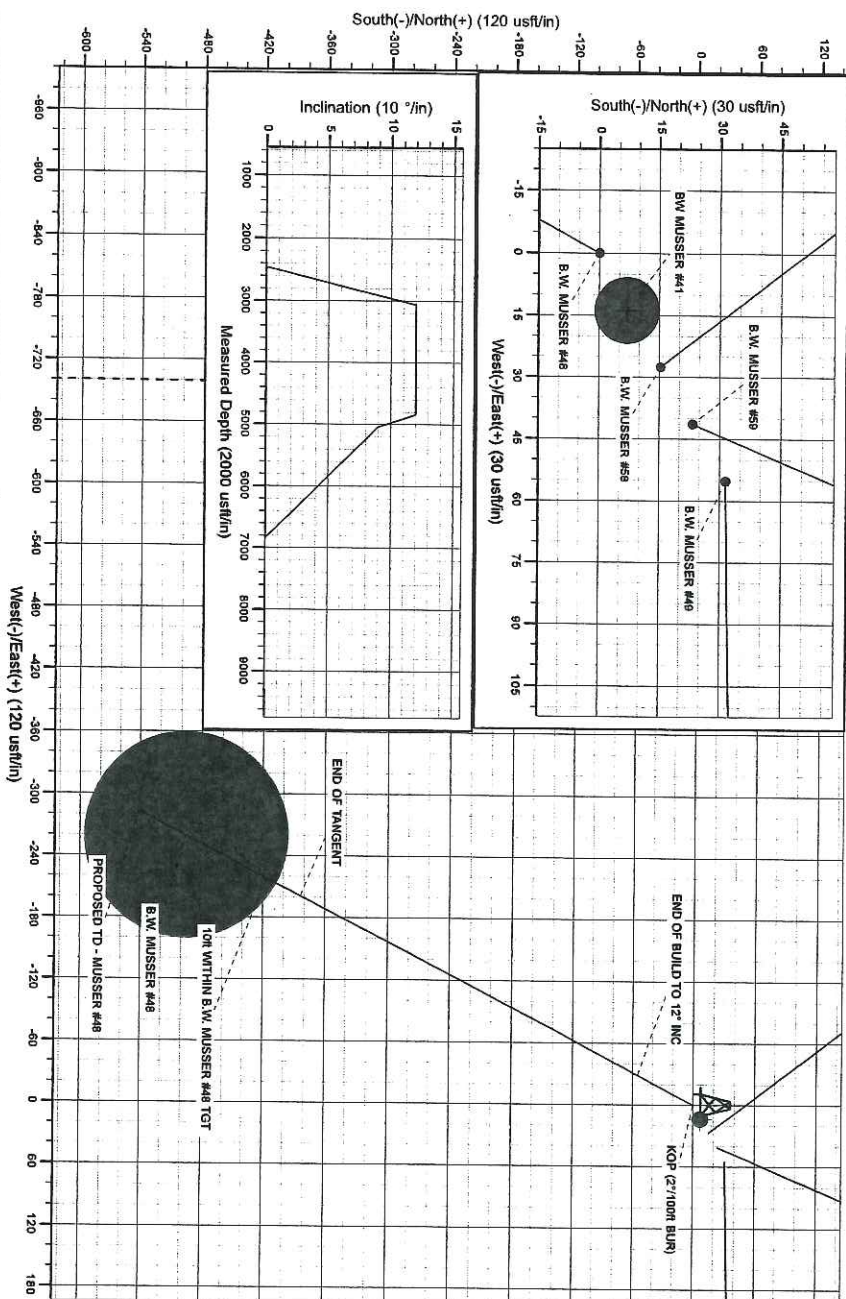
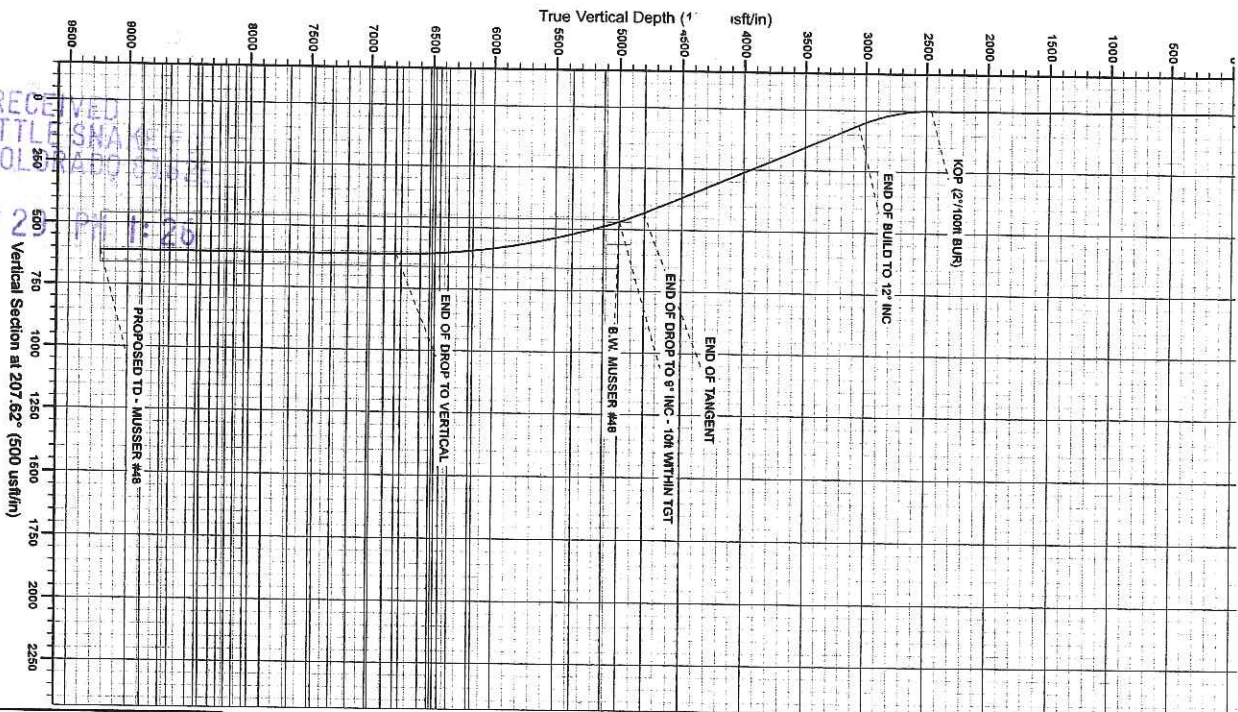
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,538.6	4,502.0	A-4-G SD			
4,838.1	4,795.0	(BIG WATER SD)			
5,169.1	5,121.0	A-4-H SD			
5,418.4	5,368.0	FORT UNION FORMATION			
6,220.8	6,167.0	L.F.U. ALLEN 8A			
6,251.8	6,198.0	L.F.U. ALLEN 8B			
6,420.0	6,366.0	L.F.U. ALLEN 8E			
6,492.0	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

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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: 53000.7 nT
 Dip Angle: 66.86°
 Date: 18/03/2011
 Model: IGRF2010

TVD	MD	Inc	Azi	+N/S	+E/W	Used	Annotation
2464.4	2464.4	0.00	0.00	0.0	0.0	0.0	KOP (2 1/4\"
3080.0	3084.4	12.00	207.62	-55.5	-29.0	62.6	END OF BUILD TO 12' INC
4803.4	4846.7	12.00	207.62	-383.8	-200.8	433.2	END OF TANGENT
5000.0	5046.7	0.00	0.00	-416.1	-217.7	489.8	END OF DROP TO VERTICAL
6782.8	6846.7	0.00	0.00	-541.1	-283.1	610.7	PROPOSED TD - MUSSEY #48
9233.0	9287.1	0.00	0.00	-541.1	-283.1	610.7	