

# **WEXPRO COMPANY**

**COLORADO (MOFFAT COUNTY)**

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

**BW MUSSER # 49**

**ORIGINAL WELLBORE**

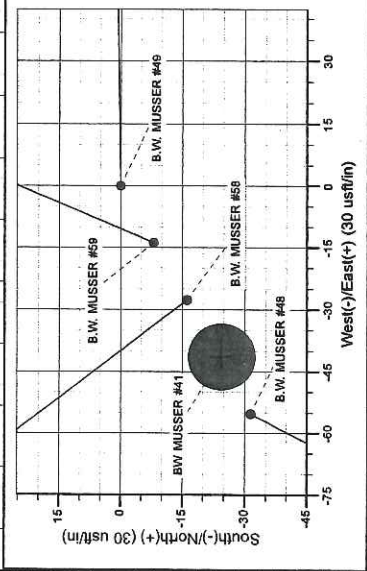
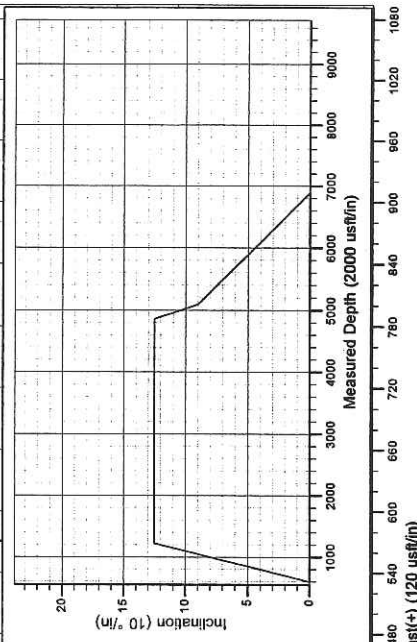
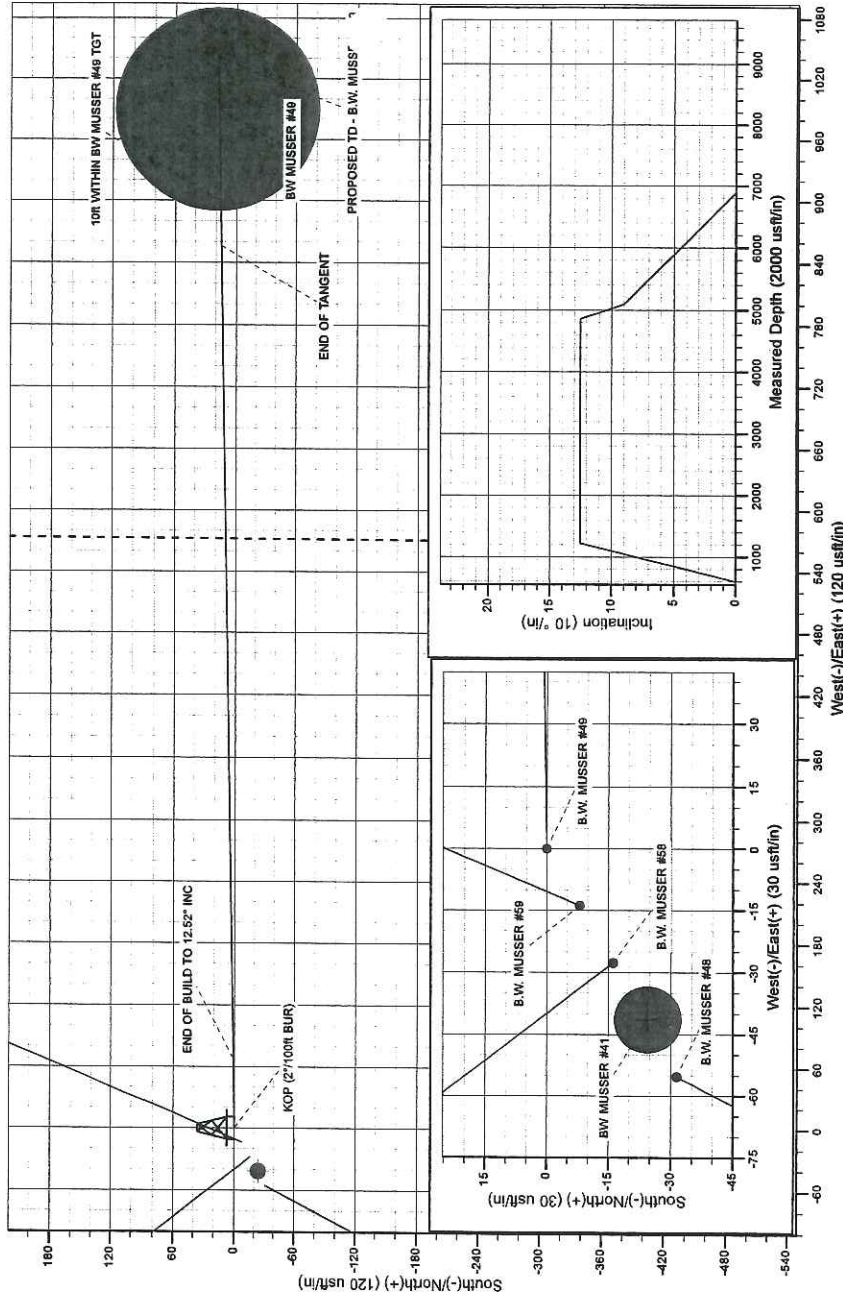
**18 March, 2011**

**Plan: PROPOSAL #1**

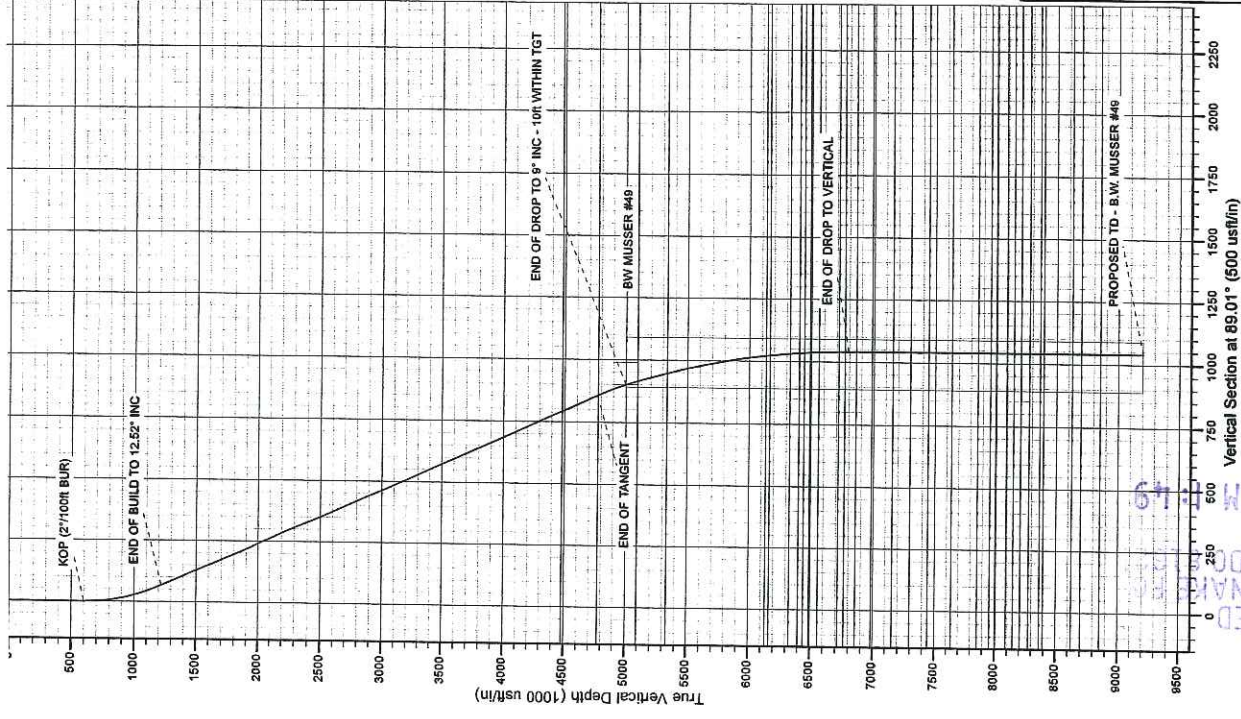
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BLM LITTLE SNAKE FO  
CRAIG, COLORADO 81821

Project: CULUKADU (MUHAI COUNTY)  
 Site: SEC. 9 TWP. 11N RGE. 97W 6th P.M. (5 WELL)  
 Well: B.W. MUSSER #49  
 Wellbore: ORIGINAL WELLBORE  
 Design: PROPOSAL #1



Azimuths to True North		Magnetic North: 10.71°		Magnetic Field		Dip Angle: 66.86°		Date: 18/03/2011		Model: IGRF2010	
TVD	MD	Inc	Azi	+N/-S	+E/-W	V-Sect	Annotation				
600.0	600.0	0.00	0.00	0.0	0.0	0.0	KOP (2°/100ft BUR)				
1221.3	1226.2	12.52	89.01	1.2	68.2	68.2	END OF BUILD TO 12.52° INC				
4769.2	4860.7	12.52	89.01	14.8	856.2	856.3	END OF TANGENT				
5000.0	5095.6	9.00	89.01	15.6	900.1	900.2	EOD TO 9° INC - 10ft WITHIN TGT				
6782.8	6885.6	0.00	0.00	18.0	1041.1	1041.3	END OF DROP TO VERTICAL				
9203.0	9306.0	0.00	0.00	18.0	1041.1	1041.3	PROPOSED TD - B.W. MUSSER #49				



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# Planning Report

<b>Database:</b>	EDM_5000_1_7	<b>Local Co-ordinate Reference:</b>	Well BW MUSSER # 49
<b>Company:</b>	WEXPRO COMPANY	<b>TVD Reference:</b>	KB-EST @ 6727.0usft (Original Well Elev)
<b>Project:</b>	COLORADO (MOFFAT COUNTY)	<b>MD Reference:</b>	KB-EST @ 6727.0usft (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>	BW MUSSER # 49	<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

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

Well	BW MUSSER # 49					
Well Position	+N/-S	24.4 usft	Northing:	1,595,120.54 usft	Latitude:	40° 56' 0.510 N
	+E/-W	41.4 usft	Easting:	2,226,795.64 usft	Longitude:	108° 17' 55.320 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,699.0 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

Design		PROPOSAL #1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	89.01

<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	-6,727.0	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	
1,226.2	12.52	89.01	1,221.3	-5,505.7	1.2	68.2	2.00	2.00	0.00	89.01	
4,860.7	12.52	89.01	4,769.2	-1,957.8	14.8	856.2	0.00	0.00	0.00	0.00	
5,095.6	9.00	89.01	5,000.0	-1,727.0	15.6	900.1	1.50	-1.50	0.00	180.00	10ft WITHIN BW MI
6,895.6	0.00	0.00	6,792.6	65.6	18.0	1,041.1	0.50	-0.50	0.00	180.00	
9,306.0	0.00	0.00	9,203.0	2,476.0	18.0	1,041.1	0.00	0.00	0.00	0.00	

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 CRAIG, COLORADO 81682

# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well BW MUSSER # 49
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:	BW MUSSER # 49	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
KOP (2°/100R BUR)										
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	89.01	700.0	6,027.02	0.0	1.7	1.7	2.00	2.00	0.00
800.0	4.00	89.01	799.8	5,927.16	0.1	7.0	7.0	2.00	2.00	0.00
900.0	6.00	89.01	899.5	5,827.55	0.3	15.7	15.7	2.00	2.00	0.00
1,000.0	8.00	89.01	998.7	5,728.30	0.5	27.9	27.9	2.00	2.00	0.00
1,100.0	10.00	89.01	1,097.5	5,629.53	0.8	43.5	43.5	2.00	2.00	0.00
1,200.0	12.00	89.01	1,195.6	5,531.38	1.1	62.6	62.6	2.00	2.00	0.00
END OF BUILD TO 12.52° INC										
1,226.2	12.52	89.01	1,221.3	5,505.75	1.2	68.2	68.2	2.00	2.00	0.00
1,300.0	12.52	89.01	1,293.3	5,433.73	1.5	84.2	84.2	0.00	0.00	0.00
1,400.0	12.52	89.01	1,390.9	5,336.11	1.8	105.8	105.9	0.00	0.00	0.00
1,500.0	12.52	89.01	1,488.5	5,238.49	2.2	127.5	127.5	0.00	0.00	0.00
1,600.0	12.52	89.01	1,586.1	5,140.87	2.6	149.2	149.2	0.00	0.00	0.00
1,700.0	12.52	89.01	1,683.8	5,043.25	3.0	170.9	170.9	0.00	0.00	0.00
1,800.0	12.52	89.01	1,781.4	4,945.63	3.3	192.6	192.6	0.00	0.00	0.00
1,900.0	12.52	89.01	1,879.0	4,848.01	3.7	214.3	214.3	0.00	0.00	0.00
2,000.0	12.52	89.01	1,976.6	4,750.39	4.1	235.9	236.0	0.00	0.00	0.00
2,100.0	12.52	89.01	2,074.2	4,652.77	4.5	257.6	257.7	0.00	0.00	0.00
2,200.0	12.52	89.01	2,171.9	4,555.15	4.8	279.3	279.3	0.00	0.00	0.00
2,300.0	12.52	89.01	2,269.5	4,457.53	5.2	301.0	301.0	0.00	0.00	0.00
2,400.0	12.52	89.01	2,367.1	4,359.91	5.6	322.7	322.7	0.00	0.00	0.00
2,500.0	12.52	89.01	2,464.7	4,262.29	6.0	344.3	344.4	0.00	0.00	0.00
2,600.0	12.52	89.01	2,562.3	4,164.67	6.3	366.0	366.1	0.00	0.00	0.00
2,700.0	12.52	89.01	2,660.0	4,067.05	6.7	387.7	387.8	0.00	0.00	0.00
2,800.0	12.52	89.01	2,757.6	3,969.43	7.1	409.4	409.5	0.00	0.00	0.00
2,900.0	12.52	89.01	2,855.2	3,871.81	7.4	431.1	431.1	0.00	0.00	0.00
3,000.0	12.52	89.01	2,952.8	3,774.19	7.8	452.8	452.8	0.00	0.00	0.00
3,100.0	12.52	89.01	3,050.4	3,676.57	8.2	474.4	474.5	0.00	0.00	0.00
3,200.0	12.52	89.01	3,148.1	3,578.94	8.6	496.1	496.2	0.00	0.00	0.00
3,300.0	12.52	89.01	3,245.7	3,481.32	8.9	517.8	517.9	0.00	0.00	0.00
3,400.0	12.52	89.01	3,343.3	3,383.70	9.3	539.5	539.6	0.00	0.00	0.00
3,500.0	12.52	89.01	3,440.9	3,286.08	9.7	561.2	561.3	0.00	0.00	0.00
3,600.0	12.52	89.01	3,538.5	3,188.46	10.1	582.9	582.9	0.00	0.00	0.00
3,700.0	12.52	89.01	3,636.2	3,090.84	10.4	604.5	604.6	0.00	0.00	0.00
3,800.0	12.52	89.01	3,733.8	2,993.22	10.8	626.2	626.3	0.00	0.00	0.00
3,900.0	12.52	89.01	3,831.4	2,895.60	11.2	647.9	648.0	0.00	0.00	0.00
4,000.0	12.52	89.01	3,929.0	2,797.98	11.6	669.6	669.7	0.00	0.00	0.00
4,100.0	12.52	89.01	4,026.6	2,700.36	11.9	691.3	691.4	0.00	0.00	0.00
4,200.0	12.52	89.01	4,124.3	2,602.74	12.3	713.0	713.1	0.00	0.00	0.00
4,300.0	12.52	89.01	4,221.9	2,505.12	12.7	734.6	734.7	0.00	0.00	0.00
4,400.0	12.52	89.01	4,319.5	2,407.50	13.1	756.3	756.4	0.00	0.00	0.00
4,500.0	12.52	89.01	4,417.1	2,309.88	13.4	778.0	778.1	0.00	0.00	0.00
A-4-G SD										
4,565.4	12.52	89.01	4,481.0	2,246.00	13.7	792.2	792.3	0.00	0.00	0.00
4,600.0	12.52	89.01	4,514.7	2,212.26	13.8	799.7	799.8	0.00	0.00	0.00
4,700.0	12.52	89.01	4,612.4	2,114.64	14.2	821.4	821.5	0.00	0.00	0.00

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Well:	BW MUSSER # 49	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)
4,800.0	12.52	89.01	4,710.0	2,017.02	14.6	843.0	843.2	0.00	0.00	0.00
<b>END OF TANGENT</b>										
4,860.7	12.52	89.01	4,769.2	1,957.80	14.8	856.2	856.3	0.00	0.00	0.00
<b>(BIG WATER SD)</b>										
4,865.6	12.45	89.01	4,774.0	1,953.00	14.8	857.3	857.4	1.50	-1.50	0.00
4,900.0	11.93	89.01	4,807.6	1,919.36	14.9	864.5	864.7	1.50	-1.50	0.00
5,000.0	10.43	89.01	4,905.7	1,821.26	15.3	883.9	884.1	1.50	-1.50	0.00
<b>END OF DROP TO 9° INC - 10R WITHIN TGT</b>										
5,095.6	9.00	89.01	5,000.0	1,727.00	15.6	900.1	900.2	1.50	-1.50	0.00
5,100.0	8.98	89.01	5,004.3	1,722.69	15.6	900.7	900.9	0.50	-0.50	0.00
<b>A-4-H SD</b>										
5,189.7	8.53	89.01	5,093.0	1,634.00	15.8	914.4	914.5	0.50	-0.50	0.00
5,200.0	8.48	89.01	5,103.2	1,623.84	15.8	915.9	916.1	0.50	-0.50	0.00
5,300.0	7.98	89.01	5,202.1	1,524.87	16.1	930.2	930.4	0.50	-0.50	0.00
5,400.0	7.48	89.01	5,301.2	1,425.78	16.3	943.7	943.8	0.50	-0.50	0.00
<b>FORT UNION FORMATION</b>										
5,433.1	7.31	89.01	5,334.0	1,393.00	16.4	947.9	948.1	0.50	-0.50	0.00
5,500.0	6.98	89.01	5,400.4	1,326.58	16.5	956.3	956.4	0.50	-0.50	0.00
5,600.0	6.48	89.01	5,499.7	1,227.27	16.7	968.0	968.1	0.50	-0.50	0.00
5,700.0	5.98	89.01	5,599.1	1,127.86	16.9	978.8	979.0	0.50	-0.50	0.00
5,800.0	5.48	89.01	5,698.6	1,028.36	17.1	988.8	988.9	0.50	-0.50	0.00
5,900.0	4.98	89.01	5,798.2	928.77	17.2	997.9	998.1	0.50	-0.50	0.00
6,000.0	4.48	89.01	5,897.9	829.11	17.4	1,006.1	1,006.3	0.50	-0.50	0.00
6,100.0	3.98	89.01	5,997.6	729.39	17.5	1,013.5	1,013.7	0.50	-0.50	0.00
6,200.0	3.48	89.01	6,097.4	629.60	17.6	1,020.0	1,020.2	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8A</b>										
6,235.7	3.30	89.01	6,133.0	594.00	17.7	1,022.1	1,022.3	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8B</b>										
6,266.7	3.14	89.01	6,164.0	563.00	17.7	1,023.9	1,024.0	0.50	-0.50	0.00
6,300.0	2.98	89.01	6,197.2	529.76	17.7	1,025.7	1,025.8	0.50	-0.50	0.00
6,400.0	2.48	89.01	6,297.1	429.87	17.8	1,030.4	1,030.6	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8E</b>										
6,430.9	2.32	89.01	6,328.0	399.00	17.8	1,031.7	1,031.9	0.50	-0.50	0.00
6,500.0	1.98	89.01	6,397.1	329.95	17.9	1,034.3	1,034.5	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8E1</b>										
6,506.0	1.95	89.01	6,403.0	324.00	17.9	1,034.5	1,034.7	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8F</b>										
6,545.0	1.75	89.01	6,442.0	285.00	17.9	1,035.8	1,035.9	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8G</b>										
6,593.0	1.51	89.01	6,490.0	237.00	17.9	1,037.1	1,037.3	0.50	-0.50	0.00
6,600.0	1.48	89.01	6,497.0	229.99	17.9	1,037.3	1,037.5	0.50	-0.50	0.00
<b>L.F.U. ALLEN 8H</b>										
6,663.0	1.16	89.01	6,560.0	167.00	18.0	1,038.8	1,038.9	0.50	-0.50	0.00
6,700.0	0.98	89.01	6,597.0	130.02	18.0	1,039.5	1,039.6	0.50	-0.50	0.00
6,800.0	0.48	89.01	6,697.0	30.02	18.0	1,040.7	1,040.9	0.50	-0.50	0.00
<b>L.F.U. ALLEN 9A</b>										
6,817.0	0.39	89.01	6,714.0	13.00	18.0	1,040.9	1,041.0	0.50	-0.50	0.00
<b>L.F.U. ALLEN 9B</b>										
6,865.0	0.15	89.01	6,762.0	-35.00	18.0	1,041.1	1,041.2	0.50	-0.50	0.00
<b>END OF DROP TO VERTICAL</b>										
6,895.6	0.00	0.00	6,792.6	-65.61	18.0	1,041.1	1,041.3	0.50	-0.50	-290.82



# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well BW MUSSER # 49
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:	BW MUSSER # 49	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)
6,900.0	0.00	0.00	6,797.0	-69.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 9C										
6,958.0	0.00	0.00	6,855.0	-128.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,897.0	-169.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 11										
7,088.0	0.00	0.00	6,985.0	-258.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,100.0	0.00	0.00	6,997.0	-269.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,097.0	-369.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 11A										
7,257.0	0.00	0.00	7,154.0	-427.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,197.0	-469.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 11B										
7,397.0	0.00	0.00	7,294.0	-567.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,297.0	-569.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,397.0	-669.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 11C										
7,547.0	0.00	0.00	7,444.0	-717.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,497.0	-769.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,597.0	-869.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. 4600										
7,742.0	0.00	0.00	7,639.0	-912.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,697.0	-969.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,797.0	-1,069.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 10A										
7,959.0	0.00	0.00	7,856.0	-1,129.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,897.0	-1,169.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 10B										
8,061.0	0.00	0.00	7,958.0	-1,231.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
8,100.0	0.00	0.00	7,997.0	-1,269.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 10C										
8,109.0	0.00	0.00	8,006.0	-1,279.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 6										
8,192.0	0.00	0.00	8,089.0	-1,362.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,097.0	-1,369.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 6A										
8,252.0	0.00	0.00	8,149.0	-1,422.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,197.0	-1,469.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 6B										
8,310.0	0.00	0.00	8,207.0	-1,480.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 6C										
8,379.0	0.00	0.00	8,276.0	-1,549.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,297.0	-1,569.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 6D										
8,466.0	0.00	0.00	8,363.0	-1,636.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 6E										
8,497.0	0.00	0.00	8,394.0	-1,667.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,397.0	-1,669.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,497.0	-1,769.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,597.0	-1,869.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
L.F.U. ALLEN 6G										
8,730.0	0.00	0.00	8,627.0	-1,900.00	18.0	1,041.1	1,041.3	0.00	0.00	0.00

# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well BW MUSSER # 49
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:	BW MUSSER # 49	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	8,697.0	-1,969.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
<b>L.F.U. ALLEN 6H</b>										
<b>8,804.0</b>	<b>0.00</b>	<b>0.00</b>	<b>8,701.0</b>	<b>-1,974.00</b>	<b>18.0</b>	<b>1,041.1</b>	<b>1,041.3</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
8,900.0	0.00	0.00	8,797.0	-2,069.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
<b>L.F.U. ALLEN 6K</b>										
<b>8,956.0</b>	<b>0.00</b>	<b>0.00</b>	<b>8,853.0</b>	<b>-2,126.00</b>	<b>18.0</b>	<b>1,041.1</b>	<b>1,041.3</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
9,000.0	0.00	0.00	8,897.0	-2,169.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
9,100.0	0.00	0.00	8,997.0	-2,269.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,097.0	-2,369.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,197.0	-2,469.97	18.0	1,041.1	1,041.3	0.00	0.00	0.00
<b>PROPOSED TD - B.W. MUSSER #49</b>										
<b>9,306.0</b>	<b>0.00</b>	<b>0.00</b>	<b>9,203.0</b>	<b>-2,476.00</b>	<b>18.0</b>	<b>1,041.1</b>	<b>1,041.3</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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CRAIG, COLORADO 81602  
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# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well BW MUSSER # 49
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:	BW MUSSER # 49	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Formations						
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,565.4	4,481.0	A-4-G SD				
4,865.6	4,774.0	(BIG WATER SD)				
5,189.7	5,093.0	A-4-H SD				
5,433.1	5,334.0	FORT UNION FORMATION				
6,235.7	6,133.0	L.F.U. ALLEN 8A				
6,266.7	6,164.0	L.F.U. ALLEN 8B				
6,430.9	6,328.0	L.F.U. ALLEN 8E				
6,506.0	6,403.0	L.F.U. ALLEN 8E1				
6,545.0	6,442.0	L.F.U. ALLEN 8F				
6,593.0	6,490.0	L.F.U. ALLEN 8G				
6,663.0	6,560.0	L.F.U. ALLEN 8H				
6,817.0	6,714.0	L.F.U. ALLEN 9A				
6,865.0	6,762.0	L.F.U. ALLEN 9B				
6,958.0	6,855.0	L.F.U. ALLEN 9C				
7,088.0	6,985.0	L.F.U. ALLEN 11				
7,257.0	7,154.0	L.F.U. ALLEN 11A				
7,397.0	7,294.0	L.F.U. ALLEN 11B				
7,547.0	7,444.0	L.F.U. ALLEN 11C				
7,742.0	7,639.0	L.F.U. 4600				
7,959.0	7,856.0	L.F.U. ALLEN 10A				
8,061.0	7,958.0	L.F.U. ALLEN 10B				
8,109.0	8,006.0	L.F.U. ALLEN 10C				
8,192.0	8,089.0	L.F.U. ALLEN 6				
8,252.0	8,149.0	L.F.U. ALLEN 6A				
8,310.0	8,207.0	L.F.U. ALLEN 6B				
8,379.0	8,276.0	L.F.U. ALLEN 6C				
8,466.0	8,363.0	L.F.U. ALLEN 6D				
8,497.0	8,394.0	L.F.U. ALLEN 6E				
8,730.0	8,627.0	L.F.U. ALLEN 6G				
8,804.0	8,701.0	L.F.U. ALLEN 6H				
8,956.0	8,853.0	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)
1,226.2	1,221.3	1.2	68.2	END OF BUILD TO 12.52° INC
4,860.7	4,769.2	14.8	856.2	END OF TANGENT
5,095.6	5,000.0	15.6	900.1	END OF DROP TO 9° INC - 10ft WITHIN TGT
6,895.6	6,792.6	18.0	1,041.1	END OF DROP TO VERTICAL
9,306.0	9,203.0	18.0	1,041.1	PROPOSED TD - B.W. MUSSER #49