



DE ET SE ES

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government

RECEIVED  
JUL 22 2011  
COGCC

1. OGCC Operator Number: 95960*	4. Contact Name: Tammy Fredrickson	Complete the Attachment Checklist OP OGCC
2. Name of Operator: WEXPRO COMPANY*		
3. Address: P.O. BOX 458 City: ROCK SPRINGS State: WY Zip: 82902	Phone: 307 352-7514 Fax: 307 352-7575	
5. API Number 05- 081-07618-00*	OGCC Facility ID Number 414020	Survey Plat X X
6. Well/Facility Name: BW MUSSER*	7. Well/Facility Number 38*	Directional Survey X X
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NE NE 4-11N-97W	6 PM	Surface Eqpmt Diagram
9. County: MOFFAT*	10. Field Name: Powder Wash*	Technical Info Page X X
11. Federal, Indian or State Lease Number: COD038749B*		Other X

General Notice PA 100 047671A

☒ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:	552' FNL/FSL OK	758' FEL/FWL OK
Change of Surface Footage to Exterior Section Lines:	336' FNL*	597' FEL*
Change of Bottomhole Footage from Exterior Section Lines:	360' FNL*	2180' FEL*
Change of Bottomhole Footage to Exterior Section Lines:	100' FNL*	1680' FEL*

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer NW NE 4-11N-97W 6 PM

Latitude 40.940631 40.949272 (BHL)

Longitude -108.289197 -108.293417 (BHL)

Ground Elevation 6602'\*

Distance to nearest property line 11,088'

Distance to nearest bldg, public rd, utility or RR 250'

Distance to nearest lease line 100'

Is location in a High Density Area (rule 603b)? Yes/No NO

Distance to nearest well same formation 680'

Surface owner consultation date: 11/02/10

GPS DATA:

Date of Measurement 06/13/11 PDOP Reading 1.0 Instrument Operator's Name Trevor Anderson

☐ CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ Remove from surface borehole  
Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):

Effective Date: \_\_\_\_\_

Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME

From: \_\_\_\_\_

To: \_\_\_\_\_

Effective Date: \_\_\_\_\_

☐ ABANDONED LOCATION:

Was location ever built? ☐ Yes ☐ No

Is site ready for inspection? ☐ Yes ☐ No

Date Ready for Inspection: \_\_\_\_\_

☐ NOTICE OF CONTINUED SHUT IN STATUS

Date well shut in or temporarily abandoned: \_\_\_\_\_

Has Production Equipment been removed from site? ☐ Yes ☐ No

MIT required if shut in longer than two years. Date of last MIT \_\_\_\_\_

☐ SPUD DATE: \_\_\_\_\_

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing sealed)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK \*submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.

Final reclamation will commence on approximately \_\_\_\_\_

☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☒ Notice of Intent

Approximate Start Date: 8/1/2011

☐ Report of Work Done

Date Work Completed: \_\_\_\_\_

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input checked="" type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete

Signed: W.T. Davey, Jr. Date: 7-18-11 Email: tammy.fredrickson@quester.com

Print Name: W.T. Davey, Jr. Title: Drilling Manager

COGCC Approved: \_\_\_\_\_ Title: NWA Engineer Date: 10/1/11

CONDITIONS OF APPROVAL, IF ANY:

**DRILLING PLAN  
WEXPRO COMPANY  
MUSSER WELL NO. 38  
REVISED 7/06/2011  
MOFFAT COUNTY, COLORADO**

1. SURFACE FORMATION, ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS:

		<b>MD</b>	<b>TVD</b>
<b>Wasatch</b>	-	<b>Surface</b>	<b>Surface</b>
A-4-G	-	4,482'	4,363' - gas - secondary objective
A-4-H	-	5,063'	4,932' - gas - secondary objective
<b>Fort Union</b>	-	<b>5,239'</b>	<b>5,106'</b> - gas - major objective
Allen 8 A	-	6,046'	5,909' - gas - major objective
Allen 8 B	-	6,106'	5,969' - gas - major objective
Allen 8 E	-	6,239'	6,102' - gas - major objective
Allen 8 H	-	6,485'	6,348' - gas - major objective
Allen 11	-	6,935'	6,798' - gas - major objective
Allen 11 A	-	7,153'	7,016' - gas - major objective
4600	-	7,606'	7,469' - gas - major objective
Allen 10 B	-	7,887'	7,750' - gas - major objective
Allen 10 C	-	7,934'	7,797' - gas - major objective
Allen 6 G	-	8,557'	8,420' - gas - major objective
Allen 6 H	-	8,641'	8,504' - gas - major objective
Allen 6 K	-	8,790'	8,653' - gas - major objective
Lance	-	9,119'	8,932' - gas - secondary objective
<b>Total Depth</b>	-	<b>9,469'</b>	<b>9,332'</b>

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected.

2. PRESSURE CONTROL EQUIPMENT: (see attached diagram) Operator's minimum specifications for pressure control equipment require an 11-inch 3000 psi double gate hydraulically operated blowout preventer and an 11-inch 3000 psi annular preventer. BOP equipment will be tested to its rated working pressure or 70-percent of the internal yield of the surface casing. The annular preventer will be tested at 50-percent of its rated working pressure. NOTE: The surface casing will be pressure tested to a minimum of 1500 psi. BOP's will be checked daily as to mechanical operating condition and will be tested by rig equipment after each string of casing is run. All ram type preventers will have hand wheels which will be operative and accessible at the time the preventers are installed. Accumulator will include both electric and air power source (see attached diagram).

At this time Wexpro Company requests approval, if needed, to use “Flex Hose” between the BOP and Choke Manifold. The Flex Hose will have a minimum rating of 5,000 psi. Please see the attached specifications sheet for more details.

AUXILIARY EQUIPMENT:

- a) Manually operated kelly cock
- b) No floats at bit
- c) Monitoring of mud system will be visual
- d) Full opening floor valves in the full open position, capable of fitting all drill stem connections manually operated

3. CASING PROGRAM:

Size		Top Bottom		Weight	Grade	Thread	Condition
Hole	Casing						
20"	16"	sfc	80'	STEEL PIPE CONDUCTOR			New
12-1/4"	9-5/8"	sfc	1500'	36	J55	LT&C	New
7-7/8"	4-1/2"	sfc	9,469' MD	13.5	P110	LT&C	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
9-5/8"	36 lb.	J55	LTC	2,020 psi	3,520 psi	453,000 lb.
4-1/2"	13.5 lb.	P110	LTC	10,670 psi	12,410 psi	338,000 lb.

Area Fracture Gradient: 0.750 psi/foot

The variance to Onshore #2 is requested because surface casing depth for this well is 1500' and high pressure is not expected.

**A properly lubricated and maintained rotating head:** A diverter bowl will be utilized in place of a rotating head. The diverter bowl will force the air and cutting returns to the reserve pit as it is used to drill the surface casing.

**Blooi e line discharge will be 100 feet from the well bore and securely anchored:** The blooi e line discharge for this operation will be located 50 to 70 feet from the wellhead.

**Automatic ignitor or continuous pilot light on the blooi e line:** A diffuser will be used rather than an automatic pilot/ignitor. Water is injected into the compressed air and eliminates the need for the pilot light and the need for dust suppression equipment.

**Compressor located in the direction from the blooie line is a minimum of 100' from the well bore:** Truck mounted air compressors will be located within 50 feet on the opposite side of the wellhead from the blooie line and equipped with a (1) emergency kill switch on the driller's console, (2) pressure relief valve on the compressor and (3) spark arrestors on the motors.

CEMENTING PROGRAMS: (See Attached Details)

9-5/8" Surface Casing: **Lead Slurry:** 585 cubic feet Poz/G with 2% CaCl<sub>2</sub> and 1/4% cello flake (only if lost circulation is encountered).  
**Tail Slurry:** 395 cubic feet Poz/G with 2% CaCl<sub>2</sub> and 1/4% cello flake (only if lost circulation is encountered).

4-1/2" Production Casing: **Lead Slurry:** 1265 cubic feet Light 50/50 Poz/G with retarder, reducer and fluid loss additive. Volume to be calculated from logs to bring cement from 4,200 ft to surface with 15% excess.  
**Tail Slurry:** 1384 cubic feet 35/65 Poz-G with retarder, reducer and fluid loss additive. Volume to be calculated from caliper logs to bring tail cement from TD to 4,200' with 15% excess.

4. MUD PROGRAM:

- 1) Surface hole will be drilled to 1500' mud drilled and cased with an Air Drilling rig.
- 2) Surface casing will be drilled out 10 feet and formation tested to 10.0 ppg mud equivalent.
- 3) Fresh water with gel and polymer sweeps as necessary. Mud weight of 9.5 - 10.0 ppg to be accomplished by 5,000 feet to total depth, if needed.
  - A. Mud weight 9.0 - 10.0 ppg
  - B. Viscosity 35 - 45 cp
  - C. PH 10
  - D. Water Loss <7
  - E. Type Fresh water and dispersed mud
  - F. Asphalt 6#/bbl

Sufficient mud materials to maintain mud properties, control lost circulation and to contain blowout will be available at the wellsite.

No chrome constituent additives will be used in the mud system on Federal, State and Indian lands without prior BLM/State approval to ensure adequate protection of fresh water aquifers.

5.

DIL-SFL:  
MICRO-LOG:  
FDC-CNL-GR-Cal:

Total depth to surface casing.  
Total depth to surface casing.  
Total depth to surface casing.

TESTING:

None.

CORING:

None.

6.

ABNORMAL PRESSURE AND TEMPERATURE: A BHT of 195<sup>0</sup> F and a BHP of 3500 psi are possible.

7.

ANTICIPATED STARTING DATE:

September 15, 2011

DURATION OF OPERATION:

20 days

MUSSER WELL NO. 38 : CEMENT CALCULATIONS

SURFACE CASING:

CASING:	9.625 " 36#, J-55	0.4340 cu.ft./lin.ft	ID= 8.921
ANNULUS:	12.250 " x 9.625" Gauge Hole	0.3131 cu.ft./lin.ft	
CONDUCTOR	16.000 " STEEL PIPE	0.8908	
EXCESS:		100%	
CEMENT YIELD:	LEAD	2.65 cu.ft./sack	11.5 PPG
	TAIL	1.26 cu.ft./sack	15.2 PPG
CONDUCTOR DEPTH		80	
TOTAL DEPTH		1,500 Feet	
TOP OF TAIL		900 Feet	
TOP OF LEAD		0 Feet	(Surface)

LEAD SLURRY

CU.FT

COND/CSG ANN	80	TO	0	0.8908	71.27	
ANN (OH)	900	TO	80	0.3131	256.77	
ANN EXCESS				100%	256.77	
					584.80	221 SACKS 584.8 CU.FT.

TAIL SLURRY

CU.FT

CSG SHOE (45")	1,500	TO	1,455	0.4340	19.53	
COND/CSG ANN	-	TO	-	0.8908	0.00	
ANN (OH)	1,500	TO	900	0.3131	187.88	
ANN EXCESS				100%	187.88	
					395.28	314 SACKS 395 CU.FT.
					DISPLACEMENT	112.5 BBLs

PRODUCTION CASING:

CASING:	4.500 ", 13.5#, P-110	0.0838 cu.ft./lin.ft	ID= 3.92
ANNULUS:	7.875 "(For Gauge Hole)	0.2278 cu.ft./lin.ft	
	8.921 " ID x 4-1/2" CASING ANNULUS	0.3236 cu.ft./lin.ft	
EXCESS:		15%	
CEMENT YIELD:	LEAD	2.63 cu.ft./sack	11.5 PPG
	TAIL	1.49 cu.ft./sack	14.2 PPG
TOTAL DEPTH		9,469 Feet	
TOP OF TAIL		4,200 Feet	
TOP OF LEAD	OPEN HOLE TOP	1,500 Feet	
	CASED HOLE TOP	SURFACE Feet	

LEAD SLURRY

CU.FT

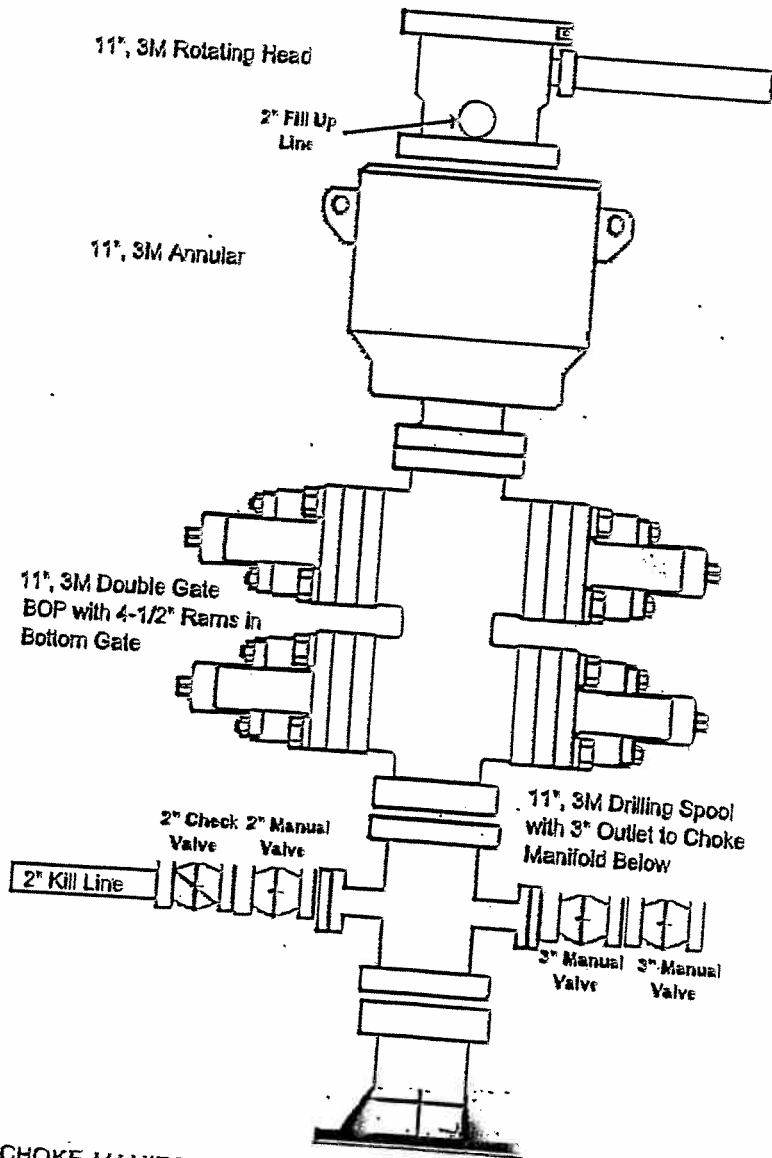
ANN	4,200	TO	1,500	0.2278	614.93	7-7/8" (For Gauge hole)
	1,500	TO	0	0.3236	485.34	9-5/8" X 4-1/2" Casing Annulus
ANN EXCESS				15%	165.04	
					1265.31	481 SACKS 1265 CU.FT.

TAIL SLURRY

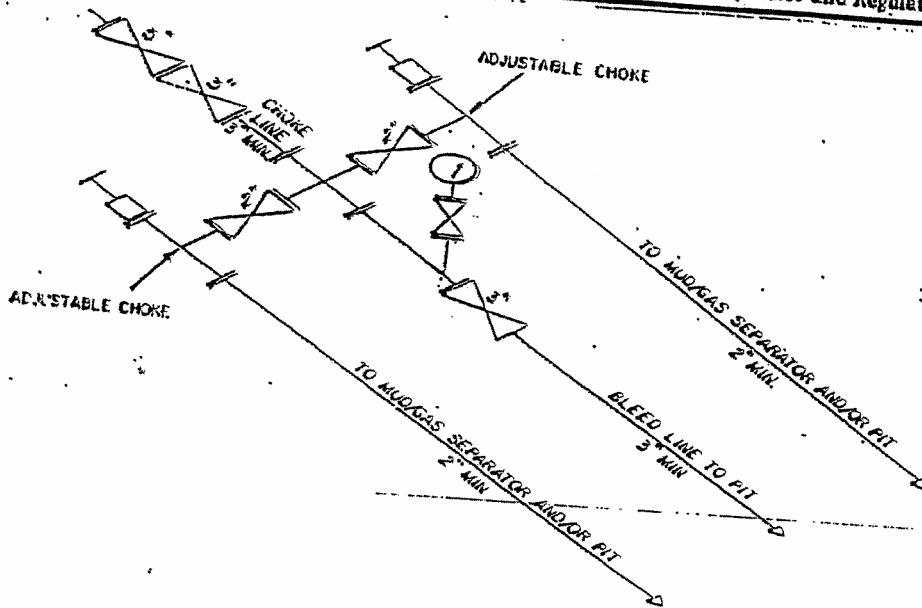
CU.FT

CSG	9,469	TO	9,424	0.0838	3.77	
ANN	9,469	TO	4,200	0.2278	1200.03	
ANN EXCESS				15%	180.00	
					1383.81	929 SACKS 1384 CU.FT.
					DISPLACEMENT	140.6 BBLs

# 3,000 psi BOP Minimum Requirements



3M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY  
46812 Federal Register / Vol. 63, No. 225 / Friday, November 18, 1988 / Rules and Regulations





## Construction

**Tube:** Black, oil and abrasion resistant HNBR for H<sub>2</sub>S service.

**Reinforcement:** Multiple plies of bias laid textile cord for extra strength and flexibility. Spirally wound, high tensile, multiple strand cables to provide unsurpassed ruggedness and reliability to withstand sudden high pressure.

**Cover:** Special flame resistant red Neoprene (CR) with optional stainless steel armor.

**Fittings:** Integral connection flanged or hubbed.

**Temperature:** -40°F to 212°F

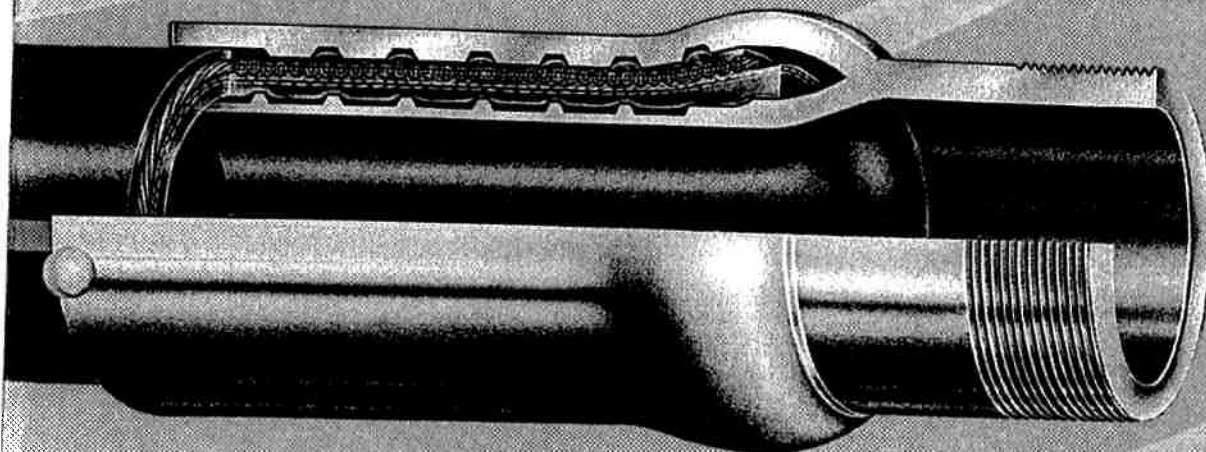
**Branding:** NRP Choke & Kill Hose. MADE IN USA.

## Specifications

NRP Part Number	Hose ID (in)	Hose OD (in)	Rated WP (psi)	Test Pressure (psi)	Minimum Bend Radius	Weight per Foot (lbs)
5035-32	2.00	4.45	5,000	10,000	44	12.9
5035-40	2.50	4.60	5,000	10,000	48	13.9
5035-48	3.00	5.10	5,000	10,000	52	16.1
5040-32	2.00	4.68	10,000	15,000	48	22.4
5040-40	2.50	5.34	10,000	15,000	52	27.4
5040-48	3.00	5.84	10,000	15,000	56	28.8

## Specifications

NRP Rotary Number	NRP Vibrator Number	Hose ID (in)	Hose OD (in)	Grade	Rated WP (psi)	Test Pressure (psi)	Minimum Bend Radius	Weight per Foot (lbs)	Weight of 2 Cplgs (lbs)	Cplg Thread API (in)
5501-40	5502-40	2.50	4.45	C	4,000	8,000	36	12.9	54	3
5501-48	5502-48	3.00	4.95	C	4,000	8,000	48	14.9	74	4
5501-56	5502-56	3.50	5.45	C	4,000	8,000	54	16.6	94	4
5603-40	5604-40	2.50	4.60	D	5,000	10,000	36	13.6	54	3
5603-48	5604-48	3.00	5.10	D	5,000	10,000	48	15.5	74	4
5603-56	5604-56	3.50	5.75	D	5,000	10,000	54	18.6	94	4







# **WEXPRO COMPANY**

**COLORADO (MOFFAT COUNTY)  
SEC. 4 TWP 11N RGE. 97W 6th P.M.  
B.W. MUSSER #38**

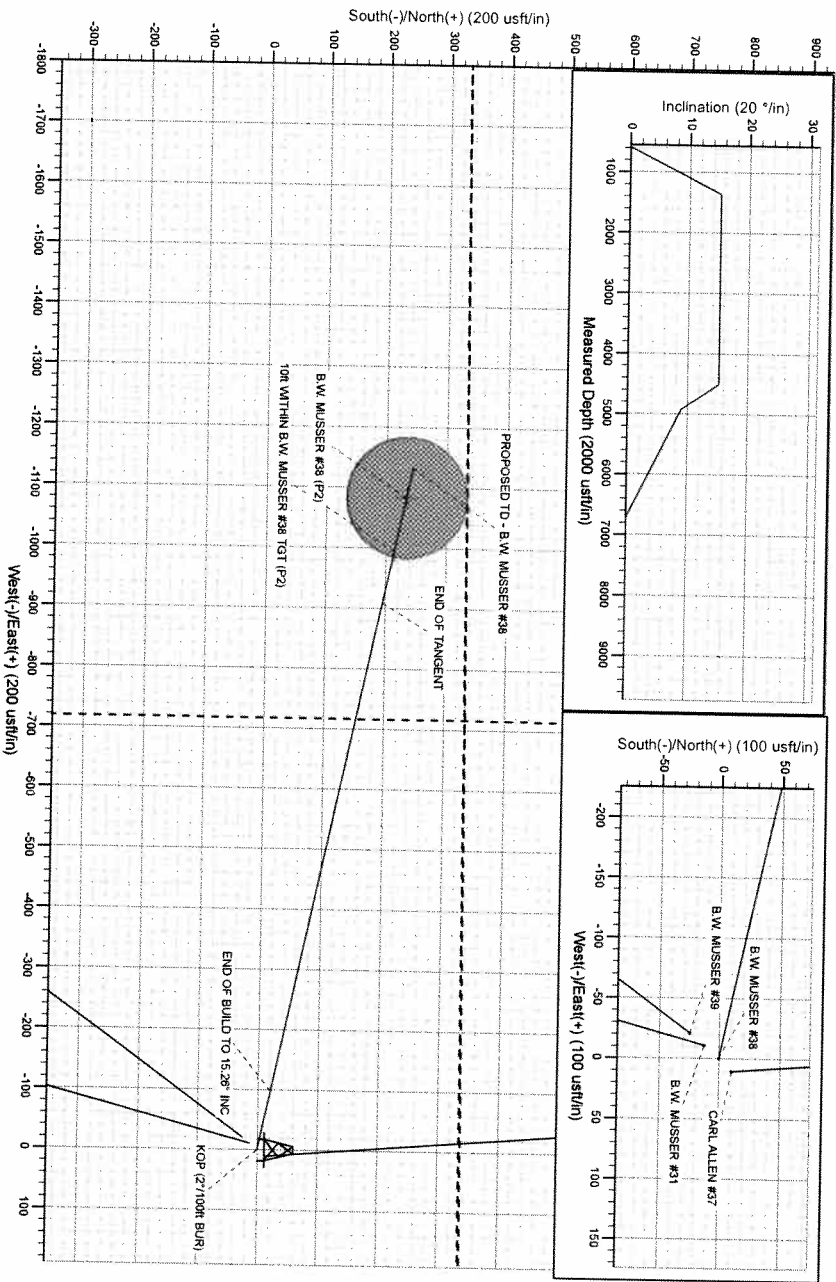
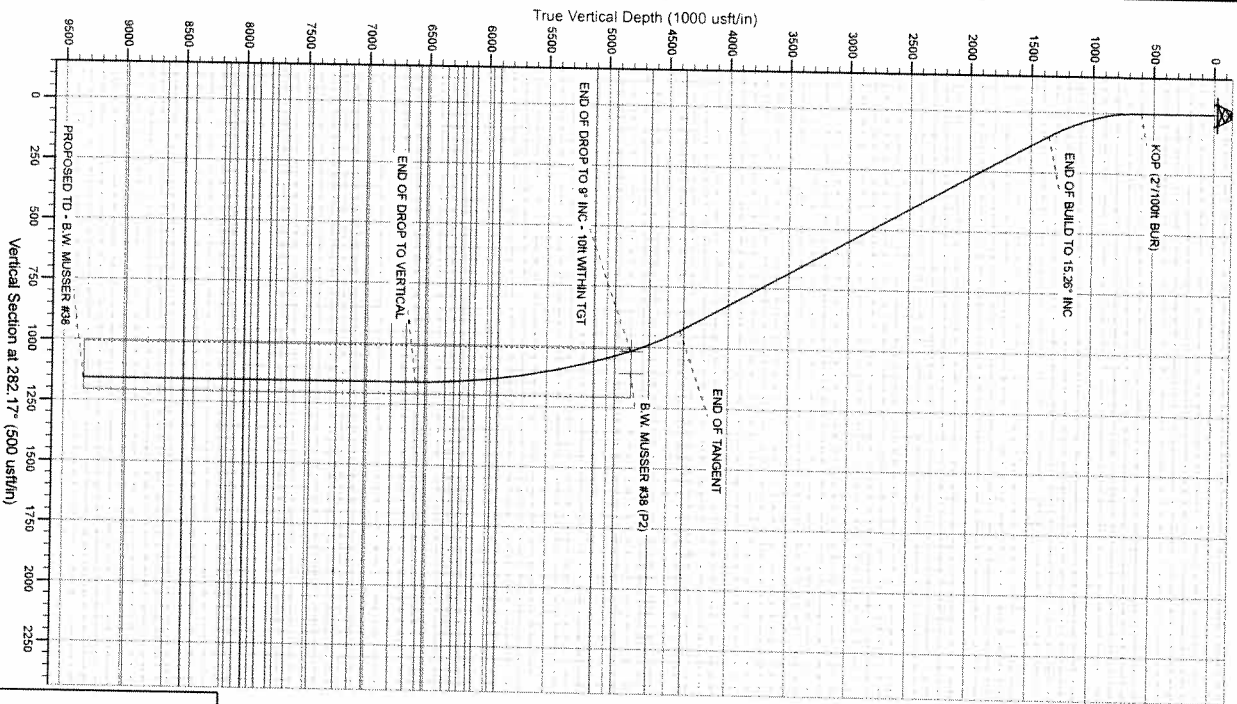
**ORIGINAL WELLBORE**

**21 June, 2011**

**Plan: PROPOSAL #2**



Project: COLORADO (MOFFAT COUNTY)  
Site: SEC. 4 TWP 11N RGE. 97W 6th P.M.  
Well: B.W. MUSSER #38  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #2



Azimuths to True North  
Magnetic North: 10.75°  
Magnetic Field  
Strength: 53037.7nT  
Dip Angle: 66.89°  
Date: 12/12/2010  
Model: IGRF2010

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/S	+E/W	Vsect	Annotation		
600.0	600.0	0.00	0.00	0.0	0.0	0.0	KOP (27/100ft BUR)		
1334.2	1363.2	15.26	282.17	21.3	-88.8	101.1	END OF BUILD TO 15.26° INC		
4391.9	4512.0	15.26	282.17	196.1	-909.2	930.1	END OF TANGENT		
4800.0	4828.6	9.00	282.17	214.6	-994.9	1017.8	END OF DROP TO 9° INC - 10ft WITHIN TGT		
6592.6	6728.6	0.00	0.00	244.3	-1132.8	1158.9	END OF BUILD TO VERTICAL		
9332.0	9469.0	0.00	0.00	244.3	-1132.8	1158.9	PROPOSED TD - B.W. MUSSER #38		

# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #38
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6604.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6604.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #38	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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. 4 TWP 11N RGE. 97W 6th P.M.		
Site Position:		Northing:	1,600,528.61 usft
From:	Lat/Long	Easting:	2,229,601.25 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	40° 56' 54.791 N
		Longitude:	108° 17' 21.001 W
		Grid Convergence:	-1.80 °

Well	B.W. MUSSER #38		
Well Position	+N/-S	28.4 usft	Northing:
	+E/-W	-8.3 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	40° 56' 55.071 N
		Longitude:	108° 17' 21.109 W
		Ground Level:	0.0 usft

Wellbore	ORIGINAL WELLBORE		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	12/12/2010	10.75
			Dip Angle
			66.89
			Field Strength
			53.038

Design	PROPOSAL #2		
Audit Notes:			

Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	4,800.0	0.0	0.0	282.17

Plan Sections											
MD	Inc	Azi	Vertical	SS	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
(usft)	(°)	(°)	Depth	(usft)	(usft)	(usft)	Rate	Rate	Rate	(°)	
							(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	-6,604.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	-6,004.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,363.2	15.26	282.17	1,354.2	-5,249.8	21.3	-98.8	2.00	2.00	0.00	282.17	
4,512.0	15.26	282.17	4,391.9	-2,212.1	196.1	-909.2	0.00	0.00	0.00	0.00	
4,929.6	9.00	282.17	4,800.0	-1,804.0	214.6	-994.9	1.50	-1.50	0.00	180.00	10ft WITHIN B.W. N
6,729.6	0.00	0.00	6,592.6	-11.4	244.3	-1,132.8	0.50	-0.50	0.00	180.00	
9,469.0	0.00	0.00	9,332.0	2,728.0	244.3	-1,132.8	0.00	0.00	0.00	0.00	

# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #38
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6604.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6604.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #38	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

## 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	6,604.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	6,504.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	6,404.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	6,304.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	6,204.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	6,104.00	0.0	0.0	0.0	0.00	0.00	0.00
KOP (2°/100ft BUR)										
600.0	0.00	0.00	600.0	6,004.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	2.00	282.17	700.0	5,904.02	0.4	-1.7	1.7	2.00	2.00	0.00
800.0	4.00	282.17	799.8	5,804.16	1.5	-6.8	7.0	2.00	2.00	0.00
900.0	6.00	282.17	899.5	5,704.55	3.3	-15.3	15.7	2.00	2.00	0.00
1,000.0	8.00	282.17	998.7	5,605.30	5.9	-27.3	27.9	2.00	2.00	0.00
1,100.0	10.00	282.17	1,097.5	5,506.53	9.2	-42.5	43.5	2.00	2.00	0.00
1,200.0	12.00	282.17	1,195.6	5,408.38	13.2	-61.2	62.6	2.00	2.00	0.00
1,300.0	14.00	282.17	1,293.1	5,310.94	17.9	-83.2	85.1	2.00	2.00	0.00
END OF BUILD TO 15.26° INC										
1,363.2	15.26	282.17	1,354.2	5,249.76	21.3	-98.8	101.1	2.00	2.00	0.00
1,400.0	15.26	282.17	1,389.7	5,214.29	23.3	-108.3	110.7	0.00	0.00	0.00
1,500.0	15.26	282.17	1,486.2	5,117.82	28.9	-134.0	137.1	0.00	0.00	0.00
1,600.0	15.26	282.17	1,582.6	5,021.35	34.4	-159.7	163.4	0.00	0.00	0.00
1,700.0	15.26	282.17	1,679.1	4,924.88	40.0	-185.5	189.7	0.00	0.00	0.00
1,800.0	15.26	282.17	1,775.6	4,828.41	45.5	-211.2	216.1	0.00	0.00	0.00
1,900.0	15.26	282.17	1,872.1	4,731.93	51.1	-236.9	242.4	0.00	0.00	0.00
2,000.0	15.26	282.17	1,968.5	4,635.46	56.6	-262.7	268.7	0.00	0.00	0.00
2,100.0	15.26	282.17	2,065.0	4,538.99	62.2	-288.4	295.0	0.00	0.00	0.00
2,200.0	15.26	282.17	2,161.5	4,442.52	67.7	-314.2	321.4	0.00	0.00	0.00
2,300.0	15.26	282.17	2,258.0	4,346.05	73.3	-339.9	347.7	0.00	0.00	0.00
2,400.0	15.26	282.17	2,354.4	4,249.57	78.9	-365.6	374.0	0.00	0.00	0.00
2,500.0	15.26	282.17	2,450.9	4,153.10	84.4	-391.4	400.4	0.00	0.00	0.00
2,600.0	15.26	282.17	2,547.4	4,056.63	90.0	-417.1	426.7	0.00	0.00	0.00
2,700.0	15.26	282.17	2,643.8	3,960.16	95.5	-442.8	453.0	0.00	0.00	0.00
2,800.0	15.26	282.17	2,740.3	3,863.69	101.1	-468.6	479.3	0.00	0.00	0.00
2,900.0	15.26	282.17	2,836.8	3,767.21	106.6	-494.3	505.7	0.00	0.00	0.00
3,000.0	15.26	282.17	2,933.3	3,670.74	112.2	-520.0	532.0	0.00	0.00	0.00
3,100.0	15.26	282.17	3,029.7	3,574.27	117.7	-545.8	558.3	0.00	0.00	0.00
3,200.0	15.26	282.17	3,126.2	3,477.80	123.3	-571.5	584.7	0.00	0.00	0.00
3,300.0	15.26	282.17	3,222.7	3,381.33	128.8	-597.2	611.0	0.00	0.00	0.00
3,400.0	15.26	282.17	3,319.1	3,284.85	134.4	-623.0	637.3	0.00	0.00	0.00
3,500.0	15.26	282.17	3,415.6	3,188.38	139.9	-648.7	663.6	0.00	0.00	0.00
3,600.0	15.26	282.17	3,512.1	3,091.91	145.5	-674.5	690.0	0.00	0.00	0.00
3,700.0	15.26	282.17	3,608.6	2,995.44	151.0	-700.2	716.3	0.00	0.00	0.00
3,800.0	15.26	282.17	3,705.0	2,898.97	156.6	-725.9	742.6	0.00	0.00	0.00
3,900.0	15.26	282.17	3,801.5	2,802.49	162.1	-751.7	768.9	0.00	0.00	0.00
4,000.0	15.26	282.17	3,898.0	2,706.02	167.7	-777.4	795.3	0.00	0.00	0.00
4,100.0	15.26	282.17	3,994.4	2,609.55	173.2	-803.1	821.6	0.00	0.00	0.00
4,200.0	15.26	282.17	4,090.9	2,513.08	178.8	-828.9	847.9	0.00	0.00	0.00
4,300.0	15.26	282.17	4,187.4	2,416.61	184.3	-854.6	874.3	0.00	0.00	0.00
4,400.0	15.26	282.17	4,283.9	2,320.13	189.9	-880.3	900.6	0.00	0.00	0.00
A-4-G SD										
4,482.0	15.26	282.17	4,363.0	2,241.00	194.4	-901.5	922.2	0.00	0.00	0.00
4,500.0	15.26	282.17	4,380.3	2,223.66	195.4	-906.1	926.9	0.00	0.00	0.00
END OF TANGENT										
4,512.0	15.26	282.17	4,391.9	2,212.12	196.1	-909.2	930.1	0.00	0.00	0.00
4,600.0	13.94	282.17	4,477.1	2,126.93	200.7	-930.9	952.3	1.50	-1.50	0.00

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #38
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6604.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6604.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #38	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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	12.44	282.17	4,574.4	2,029.57	205.6	-953.2	975.1	1.50	-1.50	0.00
(BIG WATER SD)										
4,775.2	11.32	282.17	4,648.0	1,956.00	208.8	-968.3	990.6	1.50	-1.50	0.00
4,800.0	10.94	282.17	4,672.3	1,931.65	209.8	-973.0	995.4	1.50	-1.50	0.00
4,900.0	9.44	282.17	4,770.8	1,833.23	213.6	-990.3	1,013.1	1.50	-1.50	0.00
END OF DROP TO 9" INC - 10ft WITHIN TGT										
4,929.6	9.00	282.17	4,800.0	1,804.00	214.6	-994.9	1,017.8	1.50	-1.50	0.00
5,000.0	8.65	282.17	4,869.5	1,734.45	216.8	-1,005.5	1,028.6	0.50	-0.50	0.00
A-4-H SD										
5,063.1	8.33	282.17	4,932.0	1,672.00	218.8	-1,014.6	1,037.9	0.50	-0.50	0.00
5,100.0	8.15	282.17	4,968.5	1,635.52	219.9	-1,019.8	1,043.2	0.50	-0.50	0.00
5,200.0	7.65	282.17	5,067.5	1,536.47	222.8	-1,033.2	1,056.9	0.50	-0.50	0.00
FORT UNION FORMATION										
5,238.8	7.45	282.17	5,106.0	1,498.00	223.9	-1,038.2	1,062.0	0.50	-0.50	0.00
5,300.0	7.15	282.17	5,166.7	1,437.30	225.5	-1,045.8	1,069.8	0.50	-0.50	0.00
5,400.0	6.65	282.17	5,266.0	1,338.03	228.1	-1,057.5	1,081.8	0.50	-0.50	0.00
5,500.0	6.15	282.17	5,365.3	1,238.65	230.4	-1,068.4	1,093.0	0.50	-0.50	0.00
5,600.0	5.65	282.17	5,464.8	1,139.18	232.6	-1,078.5	1,103.2	0.50	-0.50	0.00
5,700.0	5.15	282.17	5,564.4	1,039.63	234.6	-1,087.7	1,112.7	0.50	-0.50	0.00
5,800.0	4.65	282.17	5,664.0	939.99	236.4	-1,096.0	1,121.2	0.50	-0.50	0.00
5,900.0	4.15	282.17	5,763.7	840.29	238.0	-1,103.5	1,128.9	0.50	-0.50	0.00
6,000.0	3.65	282.17	5,863.5	740.52	239.4	-1,110.1	1,135.7	0.50	-0.50	0.00
L.F.U. ALLEN 8A										
6,045.6	3.42	282.17	5,909.0	695.00	240.0	-1,112.9	1,138.5	0.50	-0.50	0.00
6,100.0	3.15	282.17	5,963.3	640.69	240.7	-1,115.9	1,141.6	0.50	-0.50	0.00
L.F.U. ALLEN 8B										
6,105.7	3.12	282.17	5,969.0	635.00	240.7	-1,116.2	1,141.9	0.50	-0.50	0.00
6,200.0	2.65	282.17	6,063.2	540.82	241.7	-1,120.9	1,146.6	0.50	-0.50	0.00
L.F.U. ALLEN 8E										
6,238.9	2.45	282.17	6,102.0	502.00	242.1	-1,122.6	1,148.4	0.50	-0.50	0.00
L.F.U. ALLEN 8E1										
6,283.9	2.23	282.17	6,147.0	457.00	242.5	-1,124.4	1,150.2	0.50	-0.50	0.00
6,300.0	2.15	282.17	6,163.1	440.91	242.6	-1,125.0	1,150.8	0.50	-0.50	0.00
L.F.U. ALLEN 8F										
6,357.9	1.86	282.17	6,221.0	383.00	243.0	-1,126.9	1,152.9	0.50	-0.50	0.00
6,400.0	1.65	282.17	6,263.0	340.96	243.3	-1,128.2	1,154.1	0.50	-0.50	0.00
L.F.U. ALLEN 8G										
6,411.0	1.59	282.17	6,274.0	330.00	243.4	-1,128.5	1,154.5	0.50	-0.50	0.00
L.F.U. ALLEN 8H										
6,485.0	1.22	282.17	6,348.0	256.00	243.8	-1,130.3	1,156.3	0.50	-0.50	0.00
6,500.0	1.15	282.17	6,363.0	240.99	243.8	-1,130.6	1,156.6	0.50	-0.50	0.00
6,600.0	0.65	282.17	6,463.0	141.01	244.2	-1,132.1	1,158.1	0.50	-0.50	0.00
L.F.U. ALLEN 9A										
6,652.0	0.39	282.17	6,515.0	89.00	244.3	-1,132.6	1,158.6	0.50	-0.50	0.00
6,700.0	0.15	282.17	6,563.0	41.01	244.3	-1,132.8	1,158.8	0.50	-0.50	0.00
L.F.U. ALLEN 9B										
6,711.0	0.09	282.17	6,574.0	30.00	244.3	-1,132.8	1,158.9	0.50	-0.50	0.00
END OF DROP TO VERTICAL										
6,729.6	0.00	0.00	6,592.6	11.39	244.3	-1,132.8	1,158.9	0.50	-0.50	0.00
6,800.0	0.00	0.00	6,663.0	-58.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 9C										
6,810.0	0.00	0.00	6,673.0	-69.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00



# Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #38
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6604.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6604.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #38	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

## 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	6,763.0	-158.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 11										
6,935.0	0.00	0.00	6,798.0	-194.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,863.0	-258.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,100.0	0.00	0.00	6,963.0	-358.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 11A										
7,153.0	0.00	0.00	7,016.0	-412.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,200.0	0.00	0.00	7,063.0	-458.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 11B										
7,273.0	0.00	0.00	7,136.0	-532.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,163.0	-558.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 11C										
7,389.0	0.00	0.00	7,252.0	-648.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,263.0	-658.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,363.0	-758.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,463.0	-858.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. 4600										
7,606.0	0.00	0.00	7,469.0	-865.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,563.0	-958.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 10A										
7,795.0	0.00	0.00	7,658.0	-1,054.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,663.0	-1,058.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 10B										
7,887.0	0.00	0.00	7,750.0	-1,146.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,763.0	-1,158.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 10C										
7,934.0	0.00	0.00	7,797.0	-1,193.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,863.0	-1,258.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6										
8,030.0	0.00	0.00	7,893.0	-1,289.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6A										
8,088.0	0.00	0.00	7,951.0	-1,347.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,100.0	0.00	0.00	7,963.0	-1,358.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6B										
8,141.0	0.00	0.00	8,004.0	-1,400.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,063.0	-1,458.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6C										
8,216.0	0.00	0.00	8,079.0	-1,475.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6D										
8,278.0	0.00	0.00	8,141.0	-1,537.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,163.0	-1,558.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6E										
8,313.0	0.00	0.00	8,176.0	-1,572.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,263.0	-1,658.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,363.0	-1,758.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6G										
8,557.0	0.00	0.00	8,420.0	-1,816.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,463.0	-1,858.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6H										
8,641.0	0.00	0.00	8,504.0	-1,900.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,563.0	-1,958.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
L.F.U. ALLEN 6K										

Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #38
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6604.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6604.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #38	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

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)
8,790.0	0.00	0.00	8,653.0	-2,049.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,663.0	-2,058.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,763.0	-2,158.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,863.0	-2,258.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
9,100.0	0.00	0.00	8,963.0	-2,358.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
LNCE										
9,119.0	0.00	0.00	8,982.0	-2,378.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,063.0	-2,458.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,163.0	-2,558.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,263.0	-2,658.99	244.3	-1,132.8	1,158.9	0.00	0.00	0.00
PROPOSED TO - B.W. MUSSER #38										
9,469.0	0.00	0.00	9,332.0	-2,728.00	244.3	-1,132.8	1,158.9	0.00	0.00	0.00



Planning Report

Database:	EDM_5000_1_7	Local Co-ordinate Reference:	Well B.W. MUSSER #38
Company:	WEXPRO COMPANY	TVD Reference:	KB-EST @ 6604.0usft
Project:	COLORADO (MOFFAT COUNTY)	MD Reference:	KB-EST @ 6604.0usft
Site:	SEC. 4 TWP 11N RGE. 97W 6th P.M.	North Reference:	True
Well:	B.W. MUSSER #38	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #2		

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,482.0	4,363.0	A-4-G SD			
4,775.2	4,648.0	(BIG WATER SD)			
5,063.1	4,932.0	A-4-H SD			
5,238.8	5,106.0	FORT UNION FORMATION			
6,045.6	5,909.0	L.F.U. ALLEN 8A			
6,105.7	5,969.0	L.F.U. ALLEN 8B			
6,238.9	6,102.0	L.F.U. ALLEN 8E			
6,283.9	6,147.0	L.F.U. ALLEN 8E1			
6,357.9	6,221.0	L.F.U. ALLEN 8F			
6,411.0	6,274.0	L.F.U. ALLEN 8G			
6,485.0	6,348.0	L.F.U. ALLEN 8H			
6,652.0	6,515.0	L.F.U. ALLEN 9A			
6,711.0	6,574.0	L.F.U. ALLEN 9B			
6,810.0	6,673.0	L.F.U. ALLEN 9C			
6,935.0	6,798.0	L.F.U. ALLEN 11			
7,153.0	7,016.0	L.F.U. ALLEN 11A			
7,273.0	7,136.0	L.F.U. ALLEN 11B			
7,389.0	7,252.0	L.F.U. ALLEN 11C			
7,606.0	7,469.0	L.F.U. 4600			
7,795.0	7,658.0	L.F.U. ALLEN 10A			
7,887.0	7,750.0	L.F.U. ALLEN 10B			
7,934.0	7,797.0	L.F.U. ALLEN 10C			
8,030.0	7,893.0	L.F.U. ALLEN 6			
8,088.0	7,951.0	L.F.U. ALLEN 6A			
8,141.0	8,004.0	L.F.U. ALLEN 6B			
8,216.0	8,079.0	L.F.U. ALLEN 6C			
8,278.0	8,141.0	L.F.U. ALLEN 6D			
8,313.0	8,176.0	L.F.U. ALLEN 6E			
8,557.0	8,420.0	L.F.U. ALLEN 6G			
8,641.0	8,504.0	L.F.U. ALLEN 6H			
8,790.0	8,653.0	L.F.U. ALLEN 6K			
9,119.0	8,982.0	LNCE			

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)
1,363.2	1,354.2	21.3	-98.8	END OF BUILD TO 15.26° INC
4,512.0	4,391.9	196.1	-909.2	END OF TANGENT
4,929.6	4,800.0	214.6	-994.9	END OF DROP TO 9° INC - 10ft WITHIN TGT
6,729.6	6,592.6	244.3	-1,132.8	END OF DROP TO VERTICAL
9,469.0	9,332.0	244.3	-1,132.8	PROPOSED TD - B.W. MUSSER #38



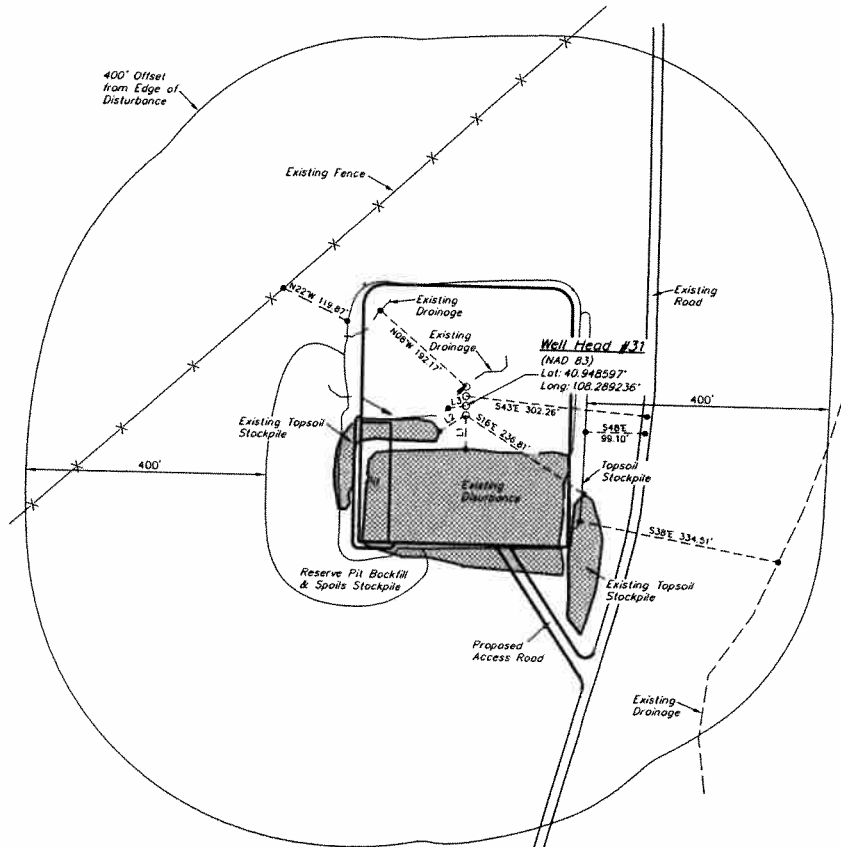
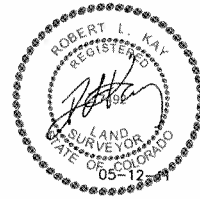
# WEXPRO COMPANY

## ADDENDUM TO LEGAL PLAT FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
SECTION 4, T11N, R97W, 6th P.M.  
LOT 5



SCALE: 1" = 200'  
DATE: 08-06-10  
DRAWN BY: K.G.  
REVISED: 03-08-11 S.L.  
REVISED: 04-20-11 S.L.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S40°39'11\"W	57.25'
L2	N81°02'54\"W	51.15'
L3	N56°58'43\"W	29.60'

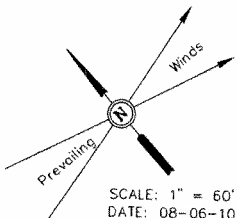
UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

# WEXPRO COMPANY

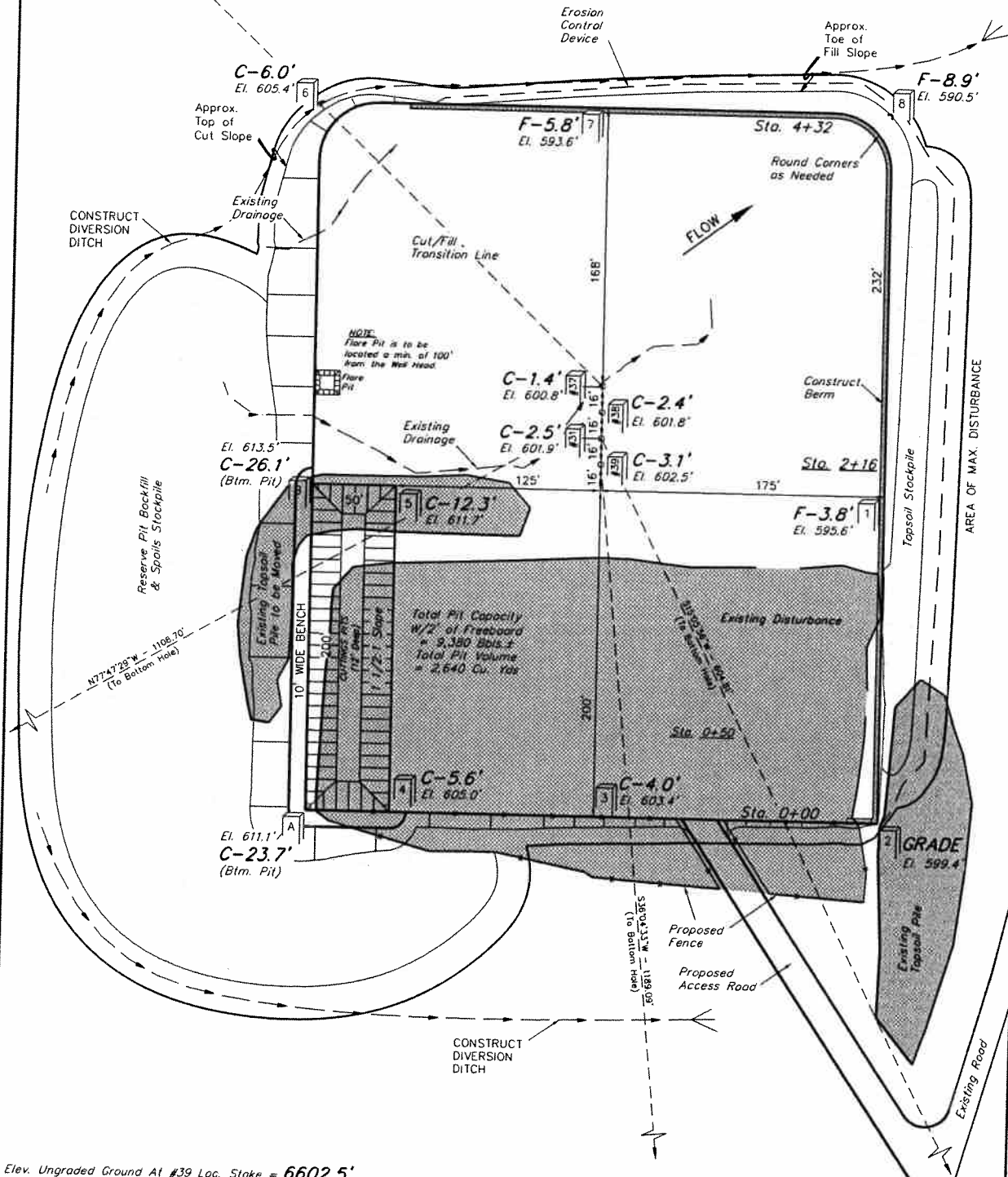
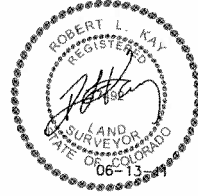
## CONSTRUCTION LAYOUT FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
SECTION 4, T11N, R97W, 6th P.M.  
LOT 5

FIGURE #1



SCALE: 1" = 60'  
DATE: 08-06-10  
DRAWN BY: K.G.  
REVISED: 03-08-11 S.L.  
REVISED: 04-20-11 S.L.  
REVISED: 06-13-11 S.L.



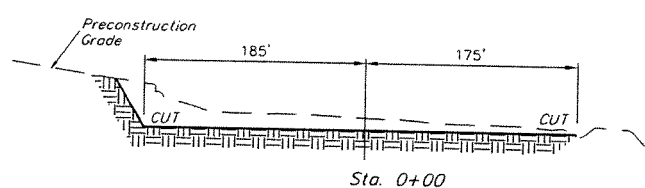
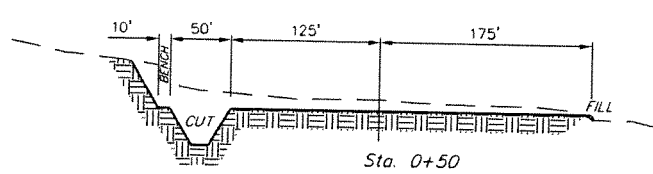
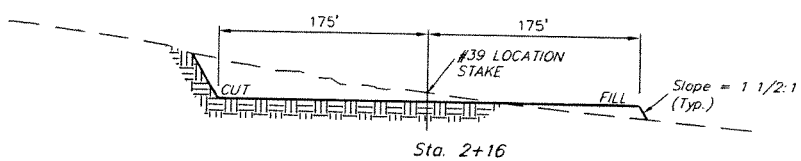
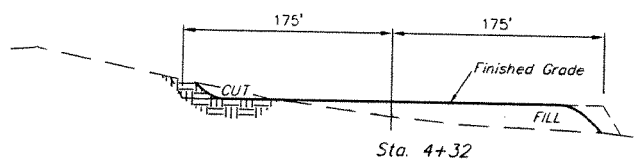
Elev. Ungraded Ground At #39 Loc. Stake = 6602.5'  
FINISHED GRADE ELEV. AT #39 LOC. STAKE = 6599.4'

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1" = 40'  
 X-Section  
 Scale  
 1" = 100'  
 DATE: 08-06-10  
 DRAWN BY: K.G.  
 REVISED: 03-08-11 S.L.  
 REVISED: 04-20-11 S.L.

**WEXPRO COMPANY**  
 CONSTRUCTION LAYOUT CROSS SECTION FOR  
 B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
 SECTION 4, T11N, R97W, 6th P.M.  
 LOT 5

**FIGURE #2**



NOTE:  
 Topsoil should not be  
 Stripped Below Finished  
 Grade on Substructure Area.

\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping (New Construction Only)	= 2,210 Cu. Yds.
Remaining Location	= 27,560 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 29,770 CU.YDS.</b>
<b>FILL</b>	<b>= 7,490 CU.YDS.</b>

EXCESS MATERIAL	= 22,280 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,530 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 18,750 Cu. Yds.

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE	= ± 6.069 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.087 ACRES
PIPELINE DISTURBANCE	= ± 0.873 ACRES
<b>TOTAL</b>	<b>= ± 7.029 ACRES</b>

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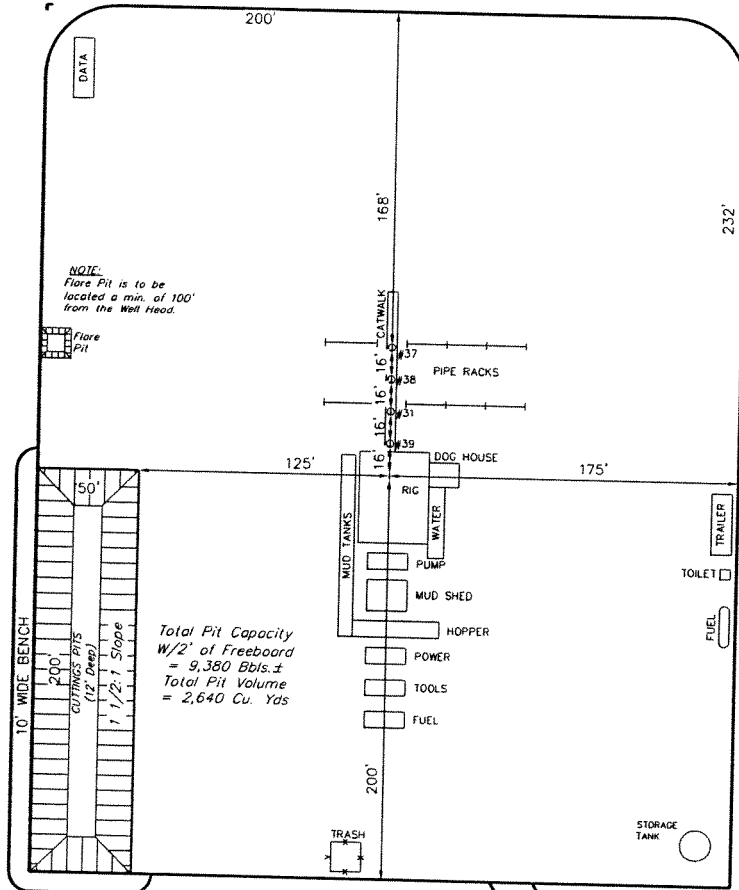
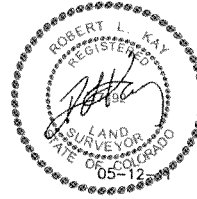
WEXPRO COMPANY

TYPICAL RIG LAYOUT FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
SECTION 4, T11N, R97W, 6th P.M.  
LOT 5

FIGURE #3

SCALE: 1" = 60'  
DATE: 08-06-10  
DRAWN BY: K.G.  
REVISED: 03-08-11 S.L.  
REVISED: 04-20-11 S.L.



Total Pit Capacity  
W/2' of Freeboard  
= 9,380 Bbls.  
Total Pit Volume  
= 2,640 Cu. Yds

Proposed  
Access Road

Existing Road

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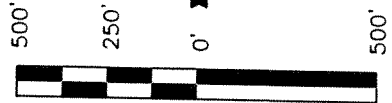
LOCATION DRAWING FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
SECTION 4, T11N, R97W, 6th P.M.  
LOT 5



FIGURE #4

DATE: 12-09-09  
DRAWN BY: K.G.  
REVISED: 05-04-10  
REVISED: 08-06-10  
REVISED: 03-08-11 S.L.  
REVISED: 04-20-11 S.L.



SCALE

5/8" Rebar, Pile of  
Stones, Replaced Rebar,  
w/ 3/4" Rebar & 2"  
Alum. Cap  
Lat: 40.949556  
Long: 108.287039

N89°53'35"E - 2642.90' (Meas.)

Set Marked Stone  
Lat: 40.949542  
Long: 108.296603

T12N  
T11N

Lot 7

S83°37'46"W - 5742.35' (To Power Line)

S81°08'03"W - 5783.78' (To Water Well)

S77°54'08"W - 6167.63' (To Building)

MOUNTAIN FUEL SUPPLY CO.  
INDUSTRIAL  
PERMIT #35880-F-  
DEPTH TO GW 812'

Lot 6

Proposed  
Access Road

Existing  
Road

Lot 5

BLM  
Lands

County  
Road #4

N00°05'44"W - 2618.14' (Meas.)

Set Marked Stone,  
Pile of Stones,  
Steel Post,  
Lat: 40.942372  
Long: 108.287022

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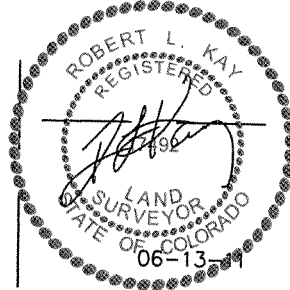
WEXPRO COMPANY

BOTTOM HOLE DRAWING FOR

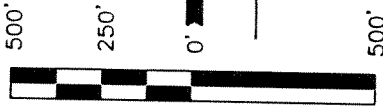
B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
SECTION 4, T11N, R97W, 6th P.M.  
LOT 5

FIGURE #5

E 1/4 Cor. Sec. 33  
Set Marked Stone  
Lot: 40.956792  
Long: 108.287108



33



SCALE

DATE: 03-09-10  
DRAWN BY: K.G.  
REVISED: 05-04-10  
REVISED: 08-06-10  
REVISED: 03-08-11 S.L.  
REVISED: 04-20-11 S.L.  
REVISED: 06-13-11 S.L.

BOTTOM HOLE  
CARL ALLEN #37

5/8" Rebar, Pile of  
Stones, Replaced  
Rebar, w/ 3/4" Rebar  
& 2" Alum. Cap  
Lot: 40.949556  
Long: 108.287039

N00°24'54"W - 2637.04' (Meas.)

N89°53'35"E - 2642.90' (Meas.)

Set Marked Stone  
Lot: 40.949542  
Long: 108.296603

BOTTOM HOLE  
B.W. MUSSER #38

Lot 7

Lot 6

Lot 5

BOTTOM HOLE  
B.W. MUSSER #39

BOTTOM HOLE  
B.W. MUSSER #31

T12N  
T11N

N00°05'44"W - 2618.14' (Meas.)

Set Marked Stone,  
Pile of Stones,  
Steel Post,  
Lot: 40.942372  
Long: 108.287022

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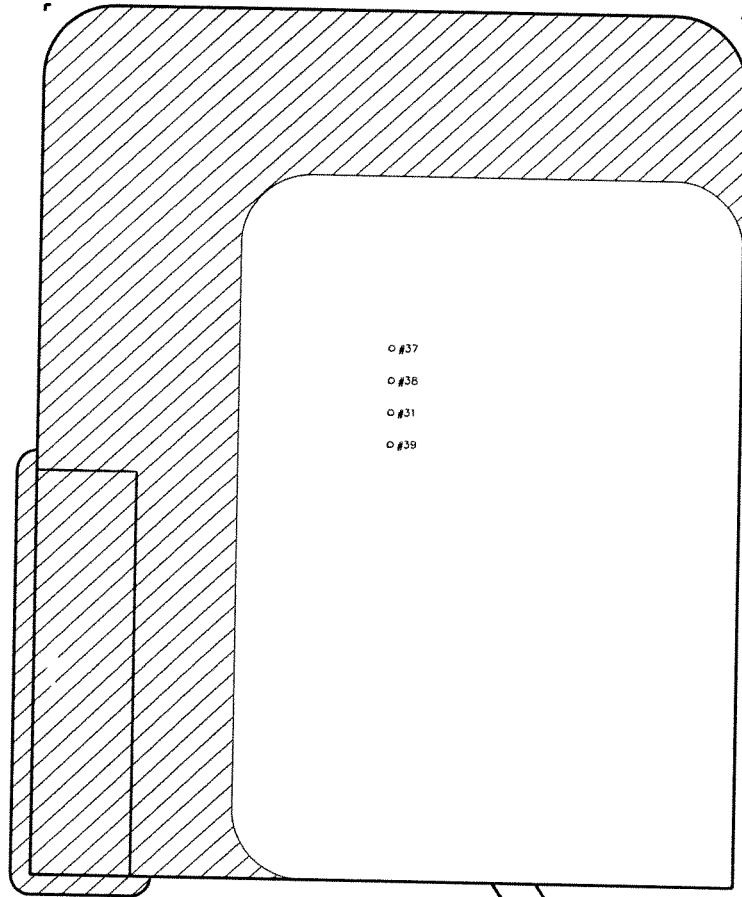
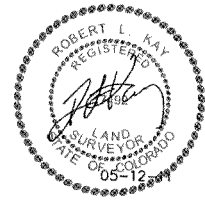
RECLAMATION DIAGRAM FOR

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
SECTION 4, T11N, R97W, 6th P.M.  
LOT 5

FIGURE #6



SCALE: 1" = 50'  
DATE: 08-06-10  
DRAWN BY: K.G.  
REVISED: 04-20-11 S.L.



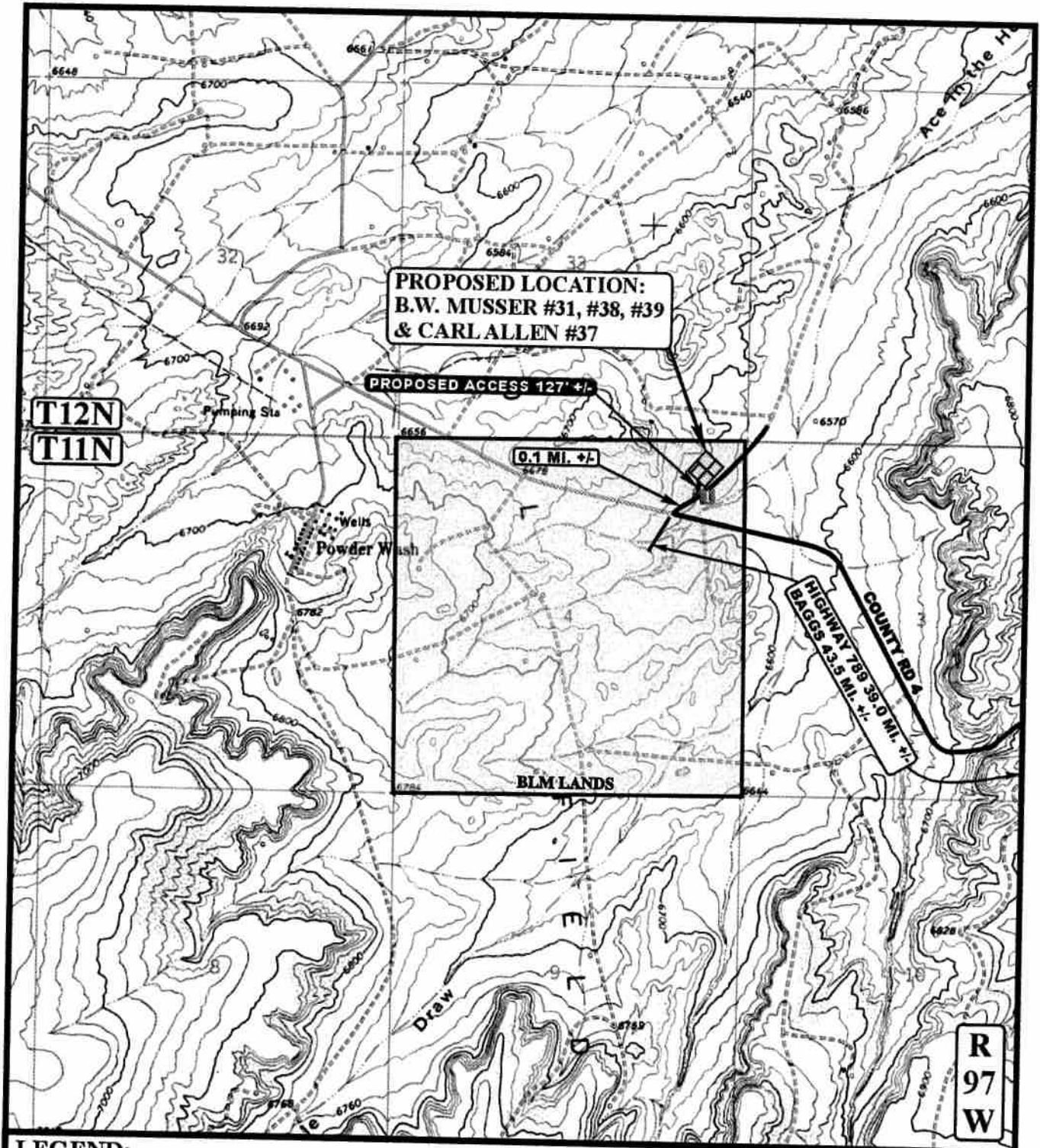
APPROXIMATE ACREAGES  
UN-RECLAIMED =  $\pm 1.991$  ACRES

Access Road

Existing Road

 RECLAIMED AREA

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**LEGEND:**

————— EXISTING ROAD  
- - - - - PROPOSED ACCESS ROAD

18" CMP REQUIRED

**U E L S** Uintah Engineering & Land Surveying  
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**WEXPRO COMPANY**

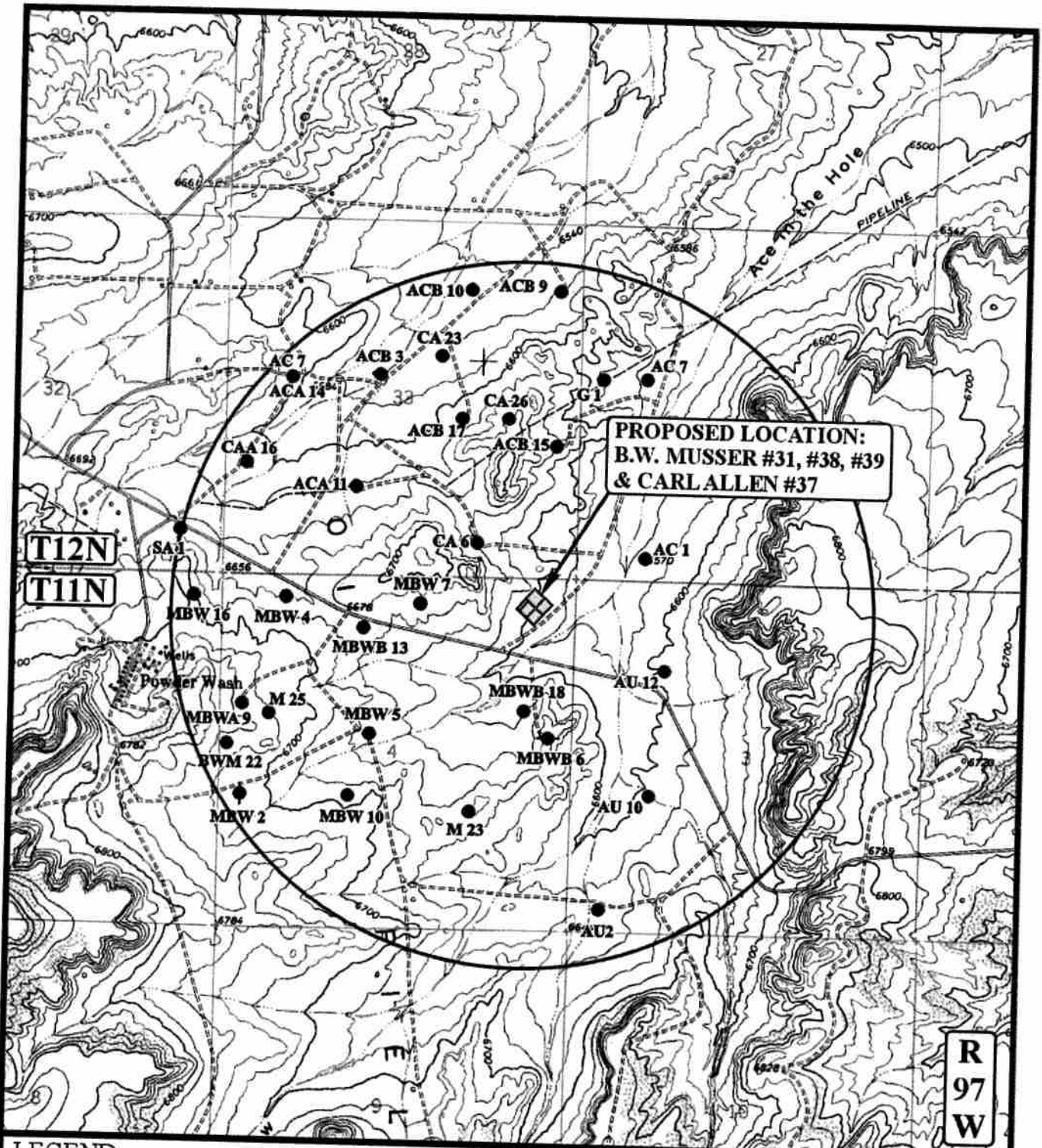
**B.W. MUSSER #31, #38, #39 & CARL ALLEN #37**  
**SECTION 4, T11N, R97W, 6th P.M.**  
**LOT 5**

**TOPOGRAPHIC MAP**

SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 03-09-11

MONTH 07 DAY 23 YEAR 08

**B**  
TOPO



# LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



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## WEXPRO COMPANY

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
 SECTION 4, T11N, R97W, 6th P.M.  
 LOT 5

TOPOGRAPHIC MAP

07 23 08  
 MONTH DAY YEAR

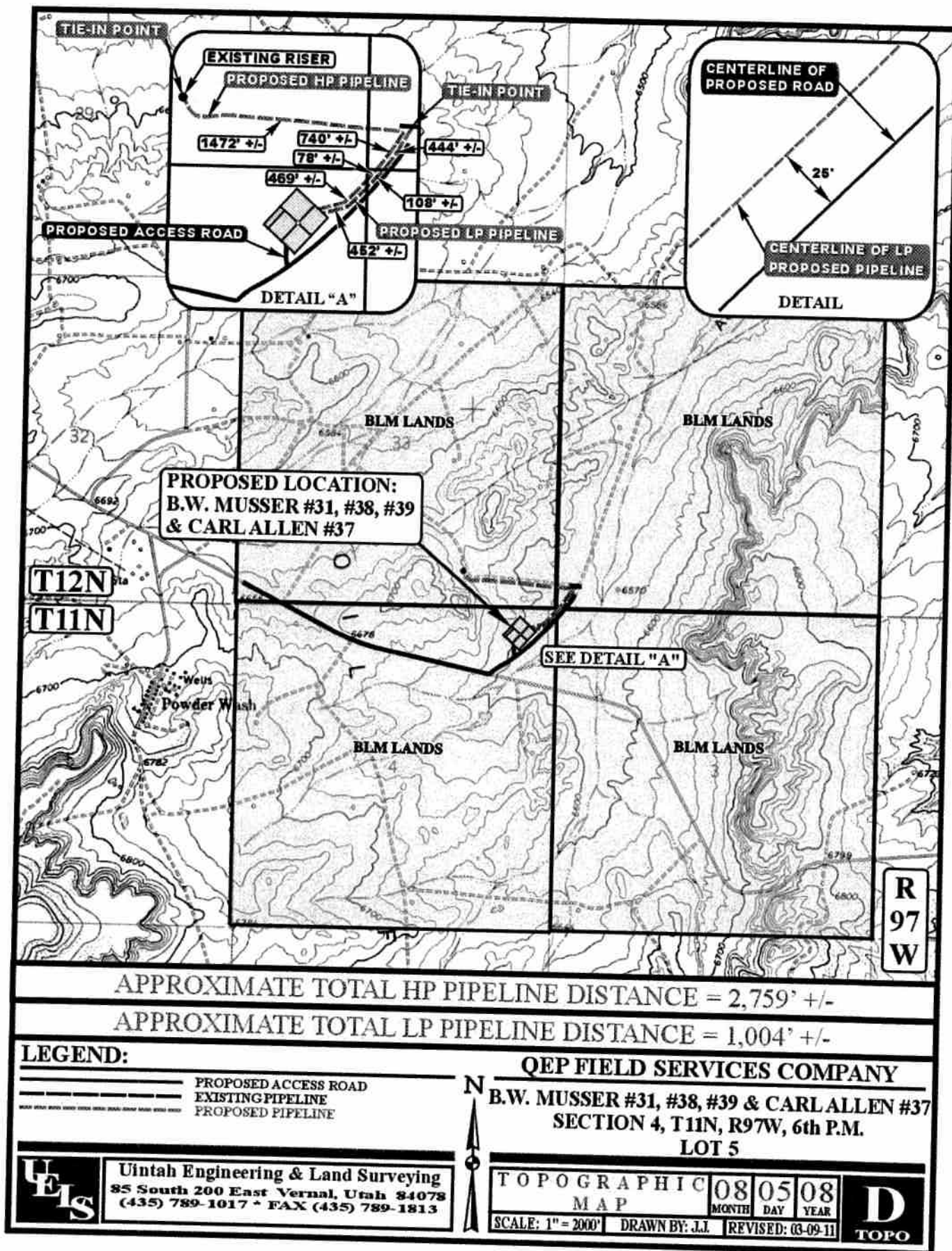
SCALE: 1" = 2000'

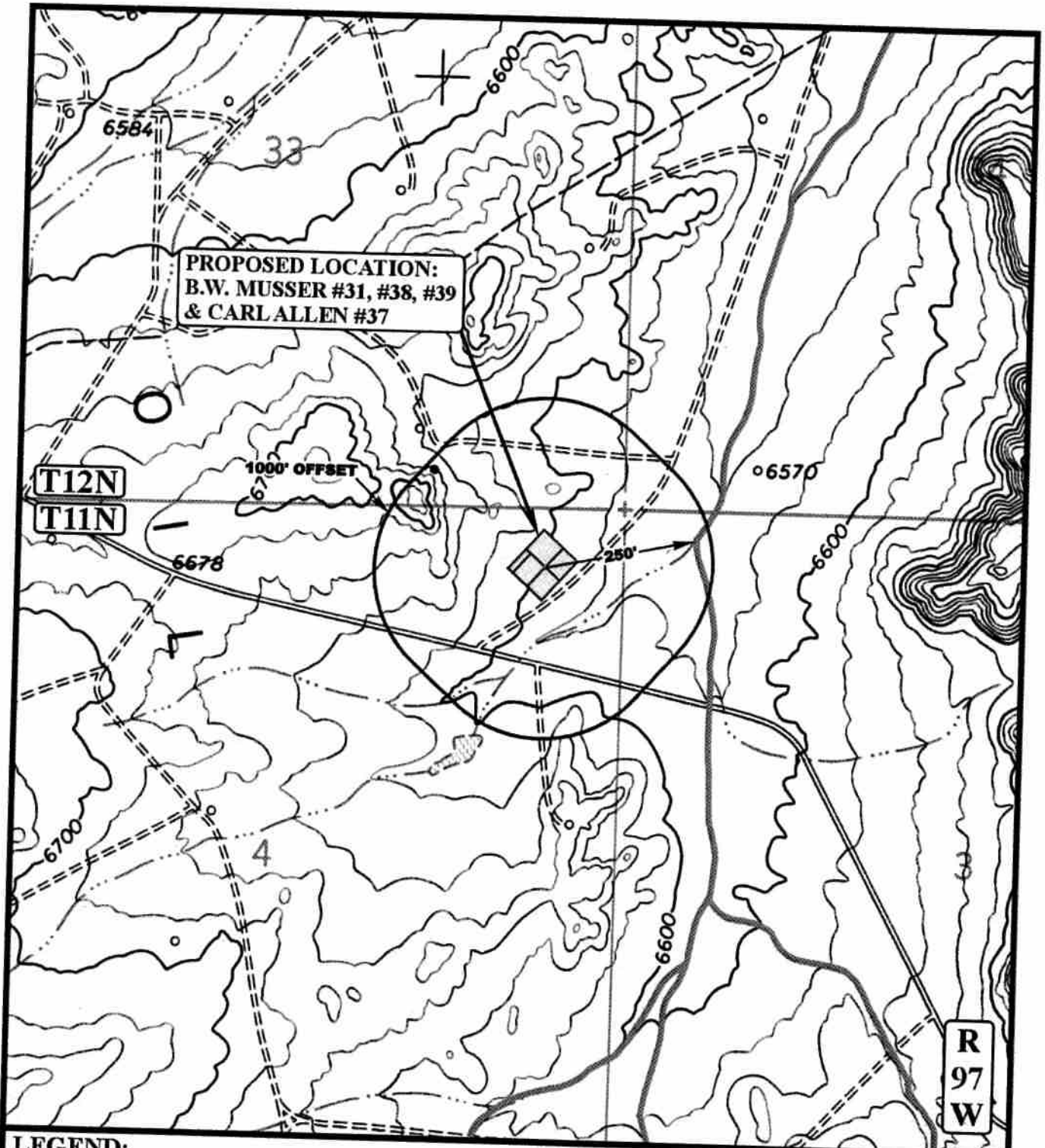
DRAWN BY: J.J.

REVISED: 03-09-11

C  
 TOPO







**LEGEND:**

— EXISTING DRAINAGE  
 --- 1000' OFFSET BOUNDARY



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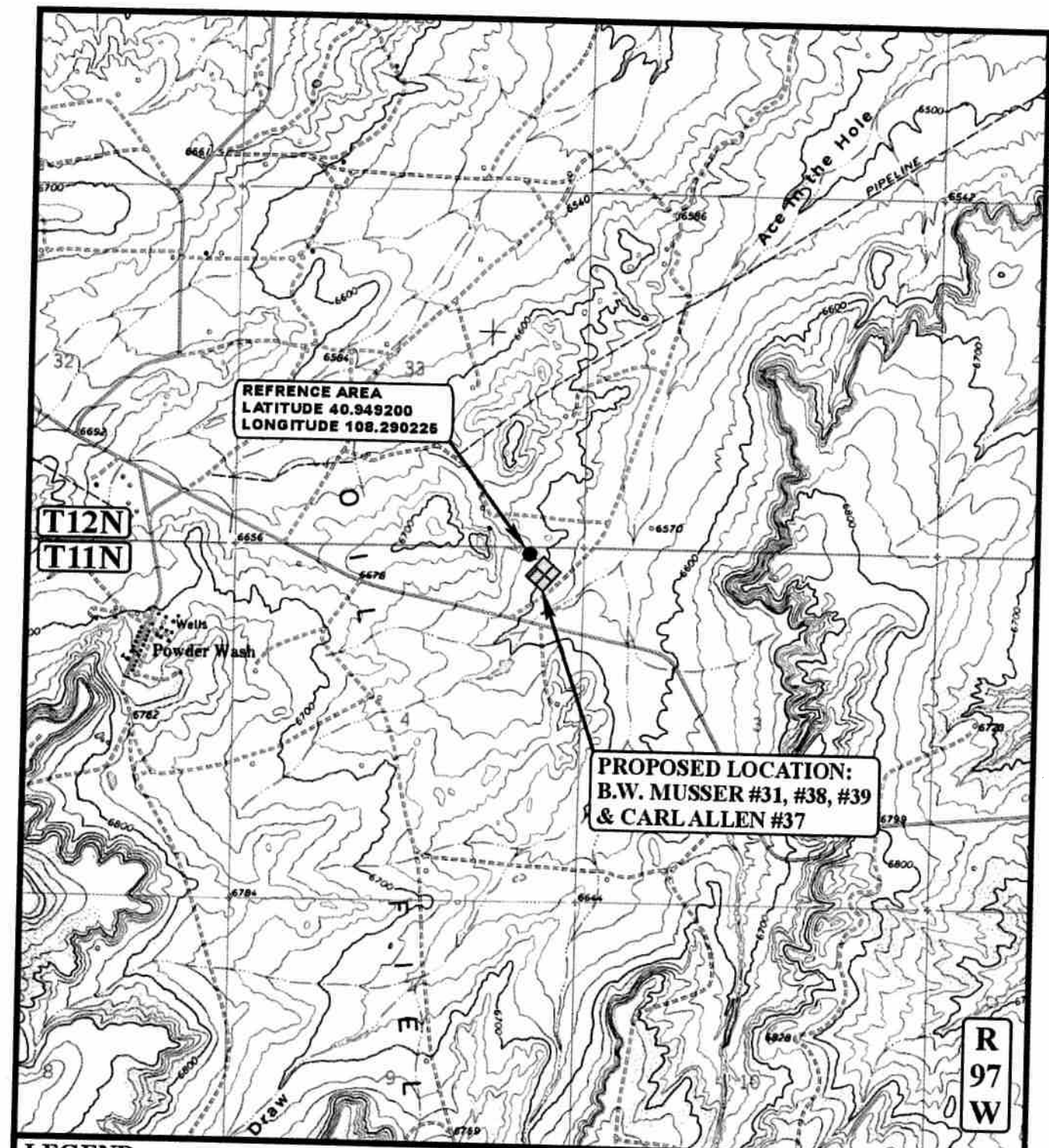
**B.W. MUSSER #31, #38, #39 & CARL ALLEN #37**  
**SECTION 4, T11N, R97W, 6th P.M.**  
**LOT 5**

**HYDROLOGY MAP**

**12 10 09**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.H. REVISED: 03-09-11





LEGEND:

WEXPRO COMPANY

B.W. MUSSER #31, #38, #39 & CARL ALLEN #37  
SECTION 4, T11N, R97W, 6th P.M.  
LOT 5



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
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REFERENCE AREA  
MAP

12 10 09  
MONTH DAY YEAR

REF  
TOPO

SCALE: 1" = 2000' DRAWN BY: J.H. REV: 03-09-11 J.J.