

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		<b>CONFIDENTIAL</b>		5. Lease Serial No. COC58704
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone				6. If Indian, Allottee or Tribe Name
2. Name of Operator ROBERT L BAYLESS, PRODUCER		Contact: HABIB GUERRERO Email: hguerrero@rbayless.com		7. If Unit or CA Agreement, Name and No.
3a. Address PO BOX 168 FARMINGTON, NM 87499		3b. Phone No. (include area code) Ph: 505-326-2659 Ext: 810 Fx: 505-326-2659		8. Lease Name and Well No. WEAVER RIDGE 14-15H
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE 39FSL 1564FEL 39.954075 N Lat, 109.032151 W Lon At proposed prod. zone NESW 2040FSL 2246FWL 39.959552 N Lat, 109.018562 W Lon				9. API Well No.
14. Distance in miles and direction from nearest town or post office* 23 MILES SOUTHWEST OF RANGELY, COLORADO				10. Field and Pool, or Exploratory BANTA RIDGE
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1564 FT- LEASE LINE		16. No. of Acres in Lease 970.00		11. Sec., T., R., M., or Blk. and Survey or Area Sec 14 T1S R104W Mer 6PM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 2650 FT FROM EXISTING WR23-10		19. Proposed Depth 9249 MD 5293 TVD		12. County or Parish RIO BLANCO
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6702 GL		22. Approximate date work will start 07/01/2012		13. State CO
				17. Spacing Unit dedicated to this well
				20. BLM/BIA Bond No. on file CO-0833
				23. Estimated duration 24 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification</li> <li>6. Such other site specific information and/or plans as may be required by the authorized officer.</li> </ul> |
|--|--|

25. Signature (Electronic Submission)	Name (Printed/Typed) HABIB GUERRERO Ph: 505-326-2659 Ext: 810	Date 04/04/2012
Title OPERATIONS ENGINEER		
Approved by (Signature)	Name (Printed/Typed)	Date
Title Office		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Additional Operator Remarks (see next page)**

**Electronic Submission #134744 verified by the BLM Well Information System  
For ROBERT L BAYLESS, PRODUCER LL, sent to the Meeker**

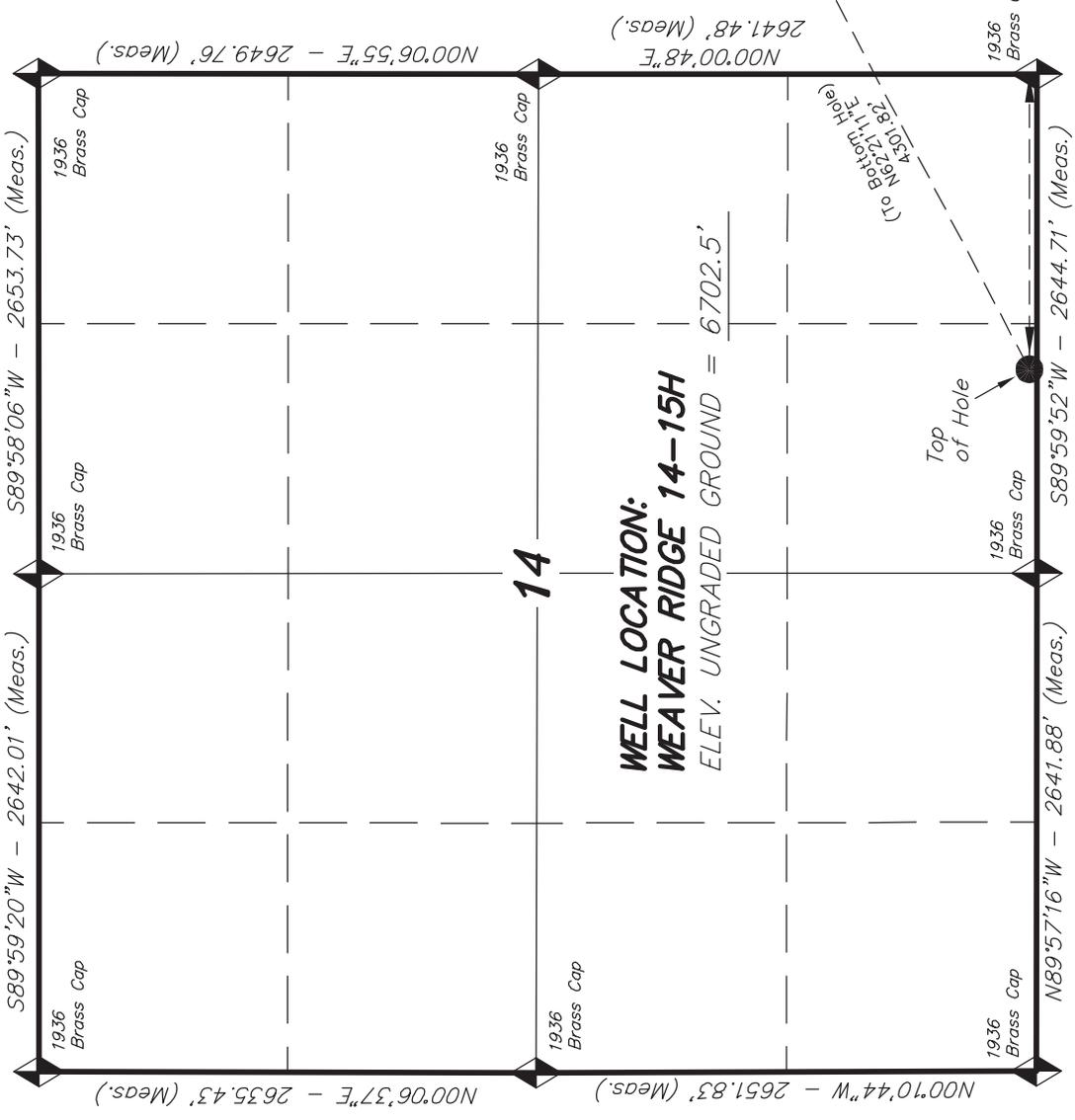
**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**Additional Operator Remarks:**

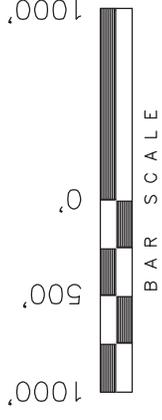
- \* APD fees has been mailed on a separate check to the BLM White River Office.
- \* Other required attachment, such as shape files will be emailed separate.
  
- \* As per BLM, the subject location has been shifted to the east to incorporate the existing BLM road 1220B and the existing 4" surface gas pipeline owned and operated by EnCana as part of the new wellpad.
  
- \* An archeological cultural and historical survey of the area has been performed on February 06, 2012 and submitted separately by the Grand River Institute to the BLM White River office.
  
- \* Bayless primary method is to utilize a closed-loop drilling system to contain drilling cuttings and fluids as shown on exhibit 6. In this case a lined reserve pit (secondary method) will not be necessary. If it is determined that the closed loop system is inadequate Bayless will notify the White River Resource Area Manager by sundry notice that a reserve pit will be used.
  
- \* No oil based Muds will be used.

# T1S, R104W, 6th P.M.

# ROBERT L BAYLESS PRODUCER LLC

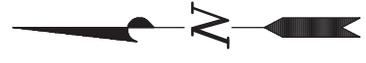


WELL LOCATION, WEAVER RIDGE 14-15H, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 14, T1S, R104W, 6th P.M. RIO BLANCO COUNTY, COLORADO.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Top of Hole footages are 39' FSL & 1564' FEL.



**WELL LOCATION:  
WEAVER RIDGE 14-15H**  
ELEV. UNGRADED GROUND = 6702.5'

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 6189377  
STATE OF UTAH  
03-29-12

◆ = SECTION CORNERS LOCATED BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (WEAVER RIDGE)

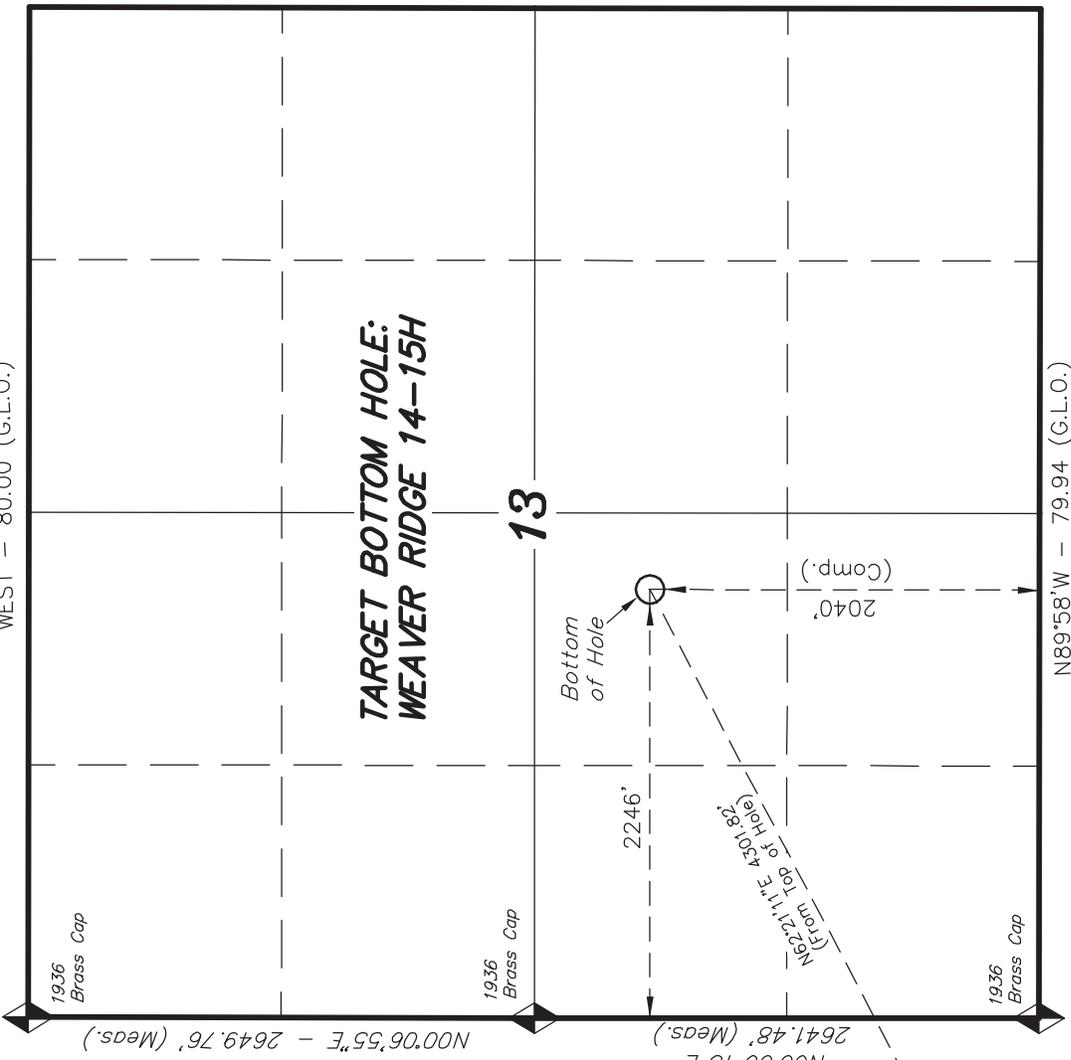
<b>NAD 83 (SURFACE LOCATION)</b>	
LATITUDE =	39°57'14.67" (39.954075)
LONGITUDE =	109°01'55.74" (109.032151)

**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

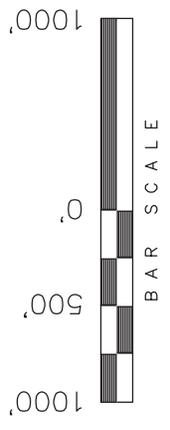
DATE SURVEYED:	12-15-11	SURVEYED BY:	K.S.
DATE DRAWN:	12-29-11	DRAWN BY:	M.W.
REVISED:	L.C.S. 03-29-12	SCALE:	1" = 1000'

**T1S, R104W, 6th P.M.**

WEST - 80.00 (G.L.O.)



TARGET BOTTOM HOLE, WEAVER RIDGE 14-15H, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 13, T1S, R104W, 6th P.M. RIO BLANCO COUNTY, COLORADO.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole Bears S74°54'02"E 2326.17' from the West 1/4 Corner of Section 13.

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 189377  
 STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**  
 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

DATE SURVEYED: 12-15-11	SURVEYED BY: K.S.
DATE DRAWN: 12-29-11	DRAWN BY: M.W.
REVISED: L.C.S. 03-29-12	SCALE: 1" = 1000'

<b>NAD 83 (BOTTOM HOLE LOCATION)</b>	
LATITUDE =	39°57'34.39" (39.959552)
LONGITUDE =	109°01'06.82" (109.018562)

◆ = SECTION CORNERS LOCATED  
 BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (WEAVER RIDGE)

N89°58'W - 79.94 (G.L.O.)

# ROBERT L. BAYLESS, PRODUCER LLC.

## PROPOSED LOCATION LAYOUT

### WEAVER RIDGE 14-15H

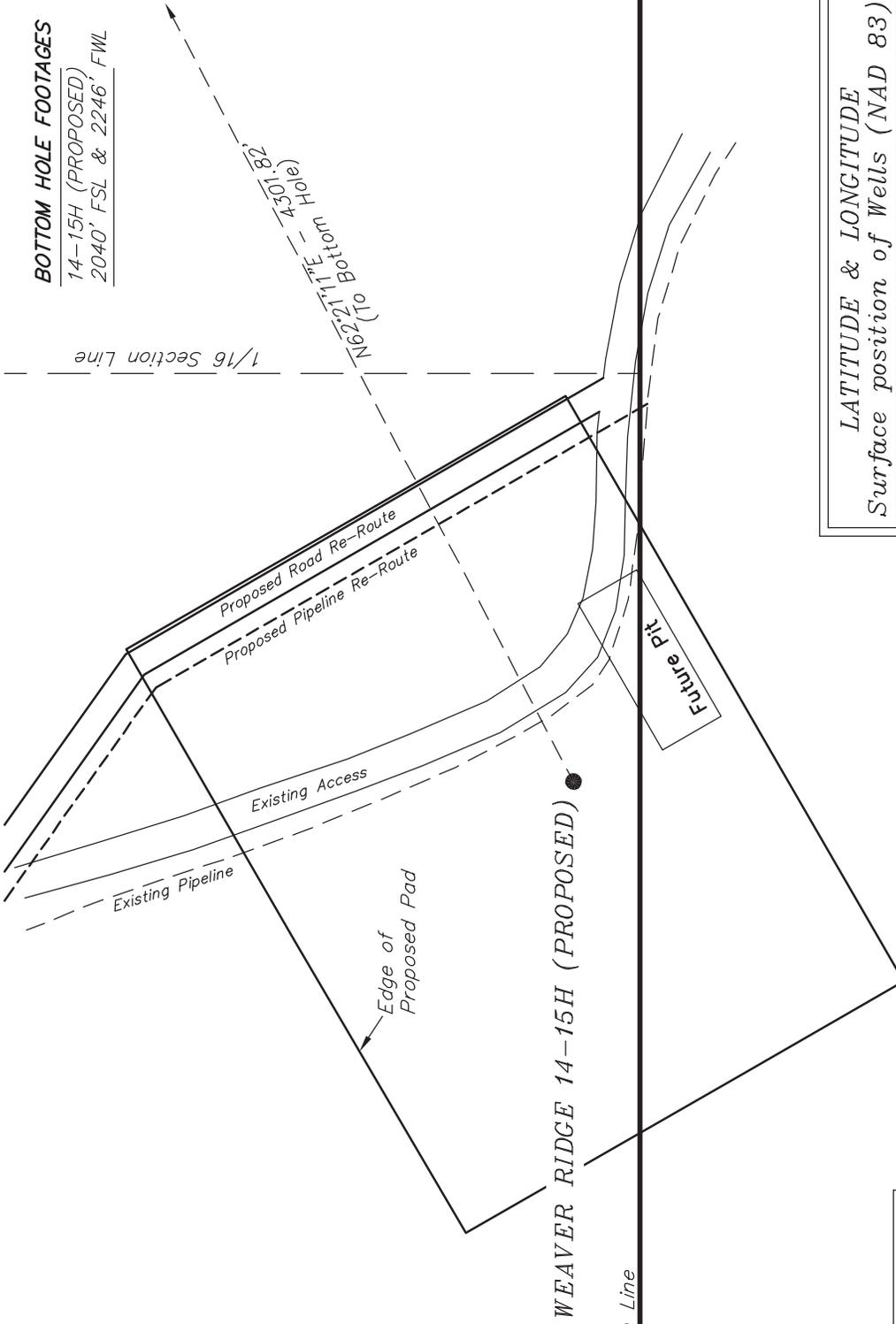
Pad Location: SWSE Section 14, T1S, R104W, 6th P.M.



**TOP HOLE FOOTAGES**

14-15H (PROPOSED)  
39' FSL & 1564' FEL

**BOTTOM HOLE FOOTAGES**  
14-15H (PROPOSED)  
2040' FSL & 2246' FWL



WEAVER RIDGE 14-15H (PROPOSED)

Section Line

**Note:**

Bearings are based on GPS Observations.

**RELATIVE COORDINATES**  
From Top Hole to Bottom Hole

WELL	NORTH	EAST
14-15H	1996'	3811'

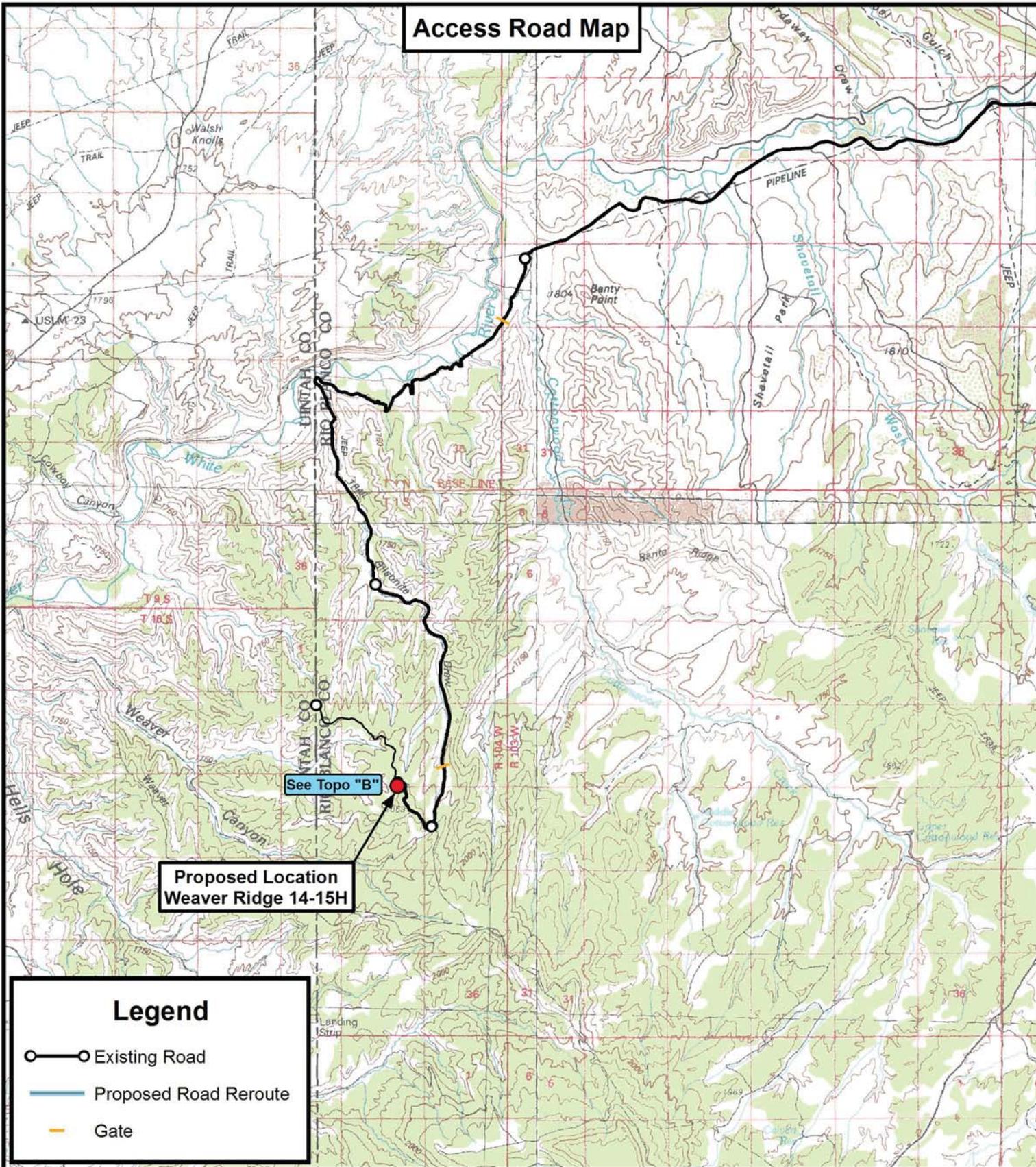
**LATITUDE & LONGITUDE**  
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
14-15H	39° 57' 14.67"	109° 01' 55.74"

SURVEYED BY: K.S.	DATE SURVEYED: 12-15-11
DRAWN BY: M.W.	DATE DRAWN: 12-29-11
SCALE: 1" = 100'	REVISED: L.C.S. 03-29-12

**Tri State**  
Land Surveying, Inc.  
(435) 781-2507  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# Access Road Map



**Proposed Location  
Weaver Ridge 14-15H**

See Topo "B"

## Legend

- Existing Road
- Proposed Road Reroute
- Gate

**Tri State  
Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



## ROBERT L. BAYLESS PRODUCER LLC.

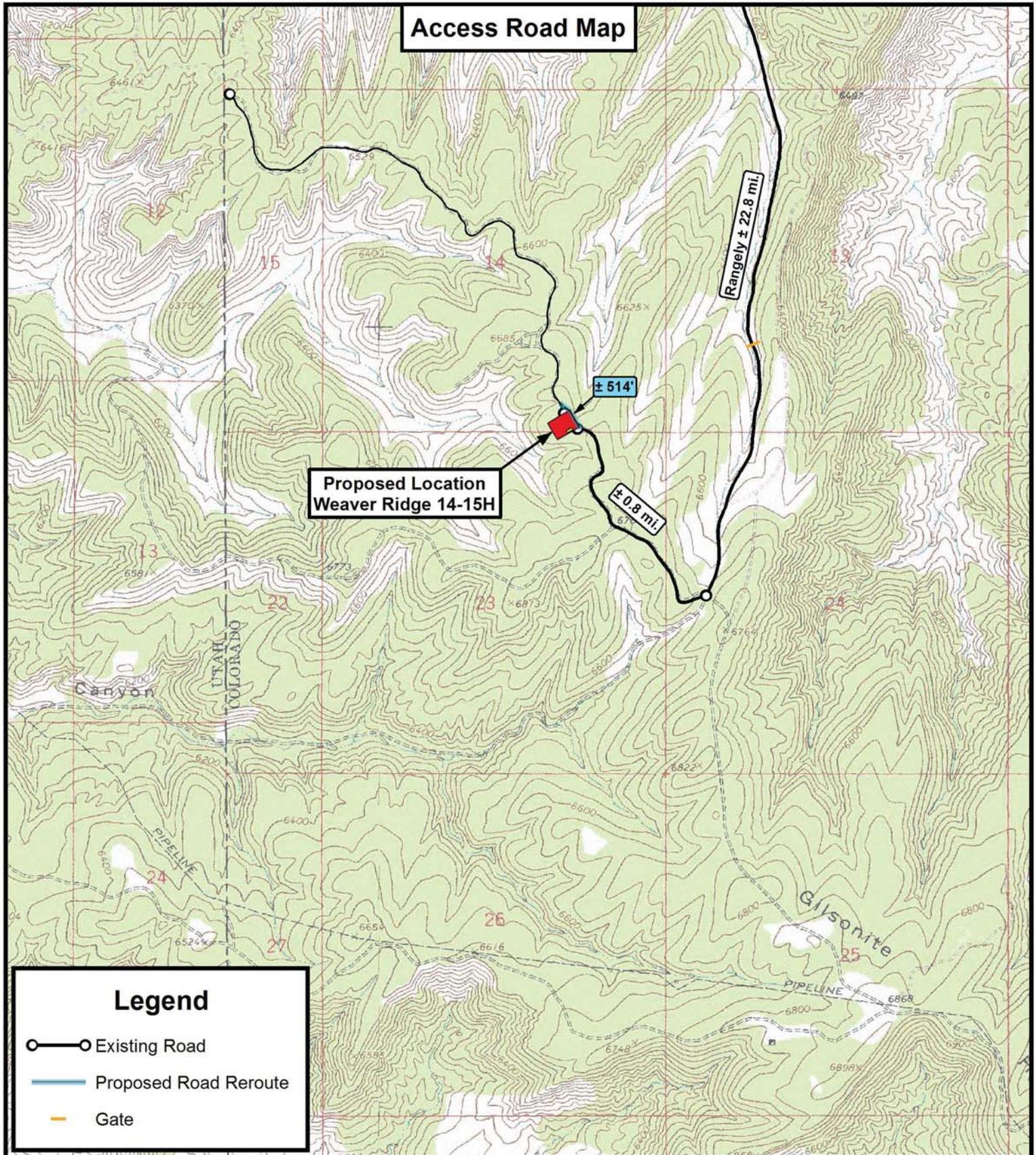
Weaver Ridge 14-15H  
SEC. 14, T1S, R104W, 6th P.M.  
Rio Blanco County, CO.

DRAWN BY:	D.C.R.	REVISED:	03-27-12 D.C.R.
DATE:	01-05-2012		
SCALE:	1:100,000		

**TOPOGRAPHIC MAP**

SHEET  
**A**

### Access Road Map



### Legend

- Existing Road
- Proposed Road Reroute
- Gate

**Tri State Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



### ROBERT L. BAYLESS PRODUCER LLC.

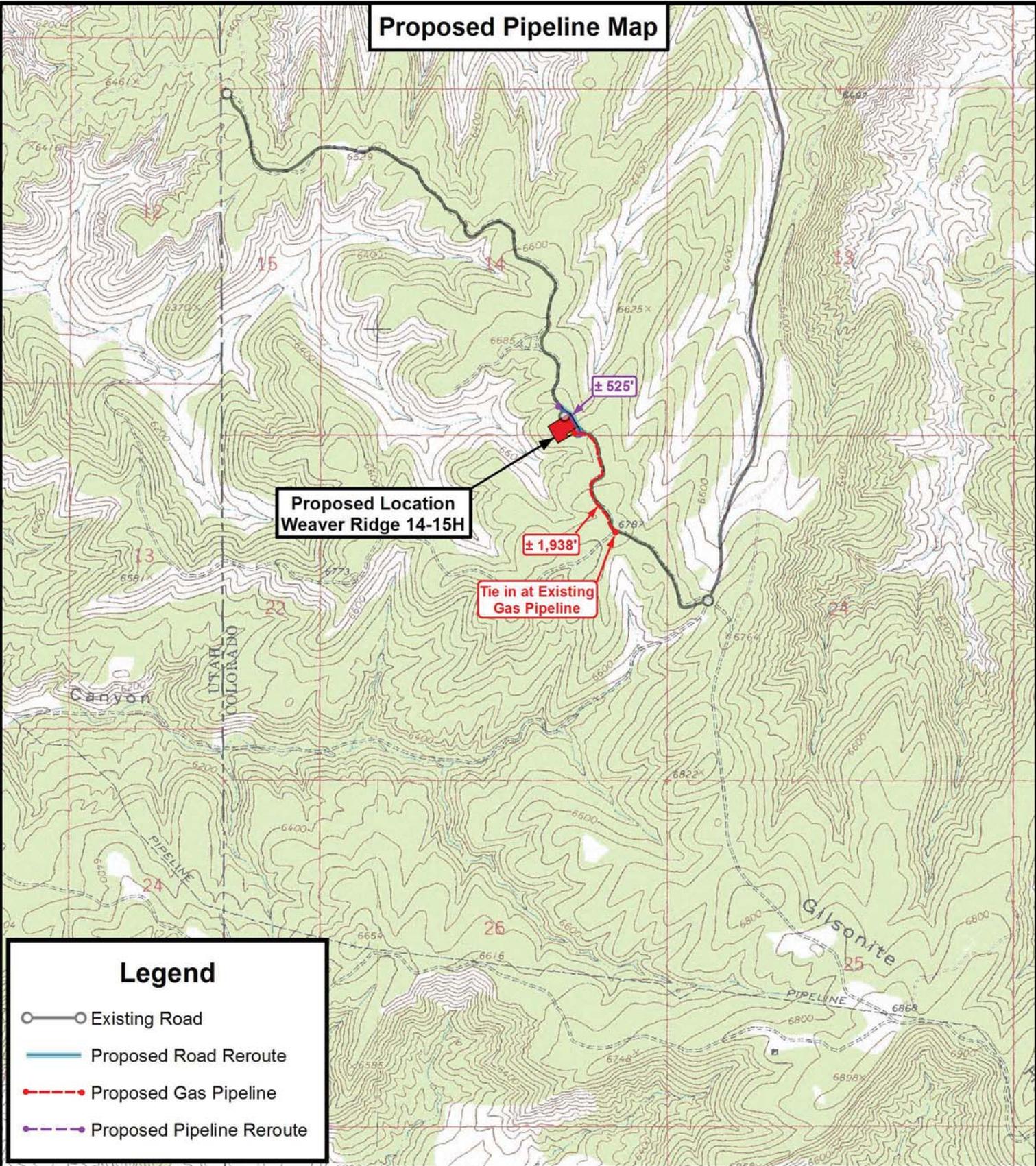
Weaver Ridge 14-15H  
SEC. 14, T1S, R104W, 6th P.M.  
Rio Blanco County, CO.

DRAWN BY:	D.C.R.	REVISED:	03-27-12 D.C.R.
DATE:	01-05-2012		
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET  
**B**

# Proposed Pipeline Map



### Legend

- Existing Road
- Proposed Road Reroute
- Proposed Gas Pipeline
- Proposed Pipeline Reroute



**Tri State  
Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518

DRAWN BY:	D.C.R.	REVISED:	04-02-12 D.C.R.
DATE:	03-27-2012		
SCALE:	1" = 2,000'		



**ROBERT L. BAYLESS PRODUCER LLC.**

Weaver Ridge 14-15H  
SEC. 14, T1S, R104W, 6th P.M.  
Rio Blanco County, CO.

**TOPOGRAPHIC MAP**

	SHEET <b>D</b>
--	-------------------

# Robert L. Bayless, Producer LLC

## DRILLING PROGRAM

(Attachment to Form 3160-3)

### Weaver Ridge # 14-15H

SHL: 39' FSL & 1564' FEL (SWSE) Section 14, T1S R104W  
BHL: 2040' FSL & 2246' FWL (NESW) Section 13, T1S R104W  
Rio Blanco County, Colorado  
Federal Lease: COC-058704

#### 1. SURFACE FORMATION -

Green River Formation – Fresh water possible above 300'.

SURFACE ELEVATION 6702.5 ft (Ground Elevation)

#### 2. ESTIMATED FORMATION TOPS (Water, oil, gas and/or other mineral-bearing formations)

Green River	Surface	Sandstones, shales, siltstones, some water, oil or gas bearing
Wasatch	2,001 ft	Sandstones, shales, siltstones, some water, oil or gas bearing
Mesaverde	2,418 ft	Sandstones, shales, siltstones, some water, oil or gas bearing
Sego	3,509 ft	Sandstones, shales and siltstones, some water and gas bearing
Buck Tongue	3,782 ft	Sandstones, shales and siltstones, some water and gas bearing
Castlegate	4,007 ft	Sandstones, shales and siltstones, some water and gas bearing
Mancos	4,137 ft	Shales and siltstones, some water and gas bearing
Mancos A	4,940 ft	Shales and siltstones, some water and gas bearing
Mancos B	5,284 ft	Shales and siltstones, some water, oil and gas bearing

Total Measured Depth 9,249 ft

#### 3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

Green River Formation – Fresh water possible above 300'.

Mancos B – 5,751' – 9,249' Gas/Oil - Lateral Measured Depth

Water Zones will be protected by setting 9 5/8" casing to 500 ft and circulation cement back to surface. All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth, and adequately protected. A sample will be taken of any water flow and furnished to the White River Field Office for analysis, if requested. All water shows must be reported within one (1) business day after being encountered.

4. CASING PROGRAM (See attached surface casing and centralizer design – Exhibit 2)

Interval (MD)	Hole Diameter	Casing Diameter	Casing Weight and Grade	Section	Cement *
Conductor	20"	14"	(0.25 wall) – (New)	Cond	Class G Cement to Surface ±80 sx
Surf – 500 ft	12-1/4"	9-5/8"	36# J-55 ST&C (New)	Surface	To surface with ±290 sx Class "G"
500 – 5751 ft	8-3/4"	7"	23# J-55 LT&C (New)	Intermediate	Lead: ±190 sx Premium Lite II (3800 ft - surface) Tail: ±310 sx 50:50 Pozmix G (3800 ft – 5751 ft)
5751– 9,249 ft	6 1/8"	*4-1/2"	*11.6# I-80 LT&C (New)	*Liner	*Liner will not be cemented. Packers plus systems

\* 4-1/2" liner will not be cemented.

\*Yields: "Class G" = 1.15 ft<sup>3</sup>/sx  
 "Premium Lite II" = 3.82 ft<sup>3</sup>/sx  
 "50:50 Pozmix G" = 1.26 ft<sup>3</sup>/sx

- Cement volumes are based on gauge hole and will be revised as necessary (Caliper data or mud log) to ensure coverage of all fresh water and hydrocarbon bearing formations.
- 9 5/8" Surface Casing will be cemented to surface. Cement calculation were performed with 100% excess. Actual Cement Volumes will be determined from caliper log.
- 7" Intermediate casing will remain in place from surface to 5751 ft and it will be cement to surface with 30 % excess. Actual Cement Volumes will be determined from caliper log
- All casing will be in new condition.
- Conductor and surface casing may be pre-installed and cemented by a smaller conventional air/mist drilling rig.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

(See attached BOP schematic diagram – Exhibit 3)

All well control equipment shall be installed in accordance with Onshore Order #2 for 3M (3000 psi) systems.

Well control equipment will be rigged up after setting surface casing.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram (Exhibit 3) showing size and pressure readings. BOP's and choke manifold will be installed and pressure tested before drilling out under surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating condition. BOP's will be pressure tested at least once every 30 days. Ram type preventors and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. Annular type preventors will be pressure tested to 50% of their rated working pressure. All casing strings will be pressure tested to 0.22 psi/ft. or 1500 psi, whichever is greater, not to exceed 70% of internal yield.

6. MUD PROGRAM

Interval	Mud Type	Weight	Viscosity	Water Loss (cc)
0 - 500	KCL/polymer system	8.4 - 8.6	38 - 42	6-8
500-5751	KCL/polymer system	8.4 - 9.4	45 - 60	6-8
5751 - 9249	KCL/polymer system	9.4 - 9.8	60 - 80	3-5

Sufficient inventory of mud materials to maintain mud properties, control lost circulation and to contain “kick” will be available at the well site while drilling. Mud will be checked hourly by rig personnel. Material to soak up possible oil or fuel spills will be on site. A mud logger, gas detector and flow sensor will be used. Pressure, volume and temperature will be monitored. It is not intended to use oil in the mud.

7. AUXILIARY EQUIPMENT

- A) Upper and lower kelly cocks - will be available on rig floor
- B) Inside BOP or stab-in valve (available on rig floor)
- C) Mud monitoring will be visually observed
- D) Flare Line System- will be installed prior to drilling our the surface casing shoe

8. LOGGING, CORING, AND TESTING PROGRAM

- A) Logging: The electric logging program will consist of a Gamma Ray and Resistivity While drilling from KOP (4526 ft) to TD
- B) Coring: No coring is planned for this well.
- C) Testing: No DSTs are planned. A DST may be run on an unexpected show of interest.
- D) Mud Logging: Mud logger will be present from 500 ft to TD.

9. ABNORMAL CONDITIONS

- A) Pressures: No anticipated abnormal pressures expected to be encountered Mancos formation pressure gradient-approximately 0.42 psi/ft
- B) Temperatures: No anticipated abnormal temperatures expected to be encountered
- C) H2S: No Hydrogen Sulfide expected
- D) Anticipated bottom-hole pressure: less than 2,223 psi

10. ANTICIPATED START DATE AND OTHER INFORMATION

The anticipated starting date and duration of the drilling operations will be as follow:

- Starting date: July 01, 2012
- Drilling Days: Approximately 24 days
- Completion Days: Approximately 5 days

The well will be drilled from surface location to bottom hole location per attached directional plan as shown on exhibit 8. The proposed well path should not pose any collision or interference concerns with any existing wells along its proposed path (see exhibit 1A).

Footage at top of Productive Zone (intermediate casing shoe) 412’ FSL & 853’ FEL, Sec 14 T1S R104W.

Existing location pad will be of sufficient size to accommodate all completion activities and equipment. All conditions of this approved plan will be applicable during all drilling and completion operations.

**Robert L. Bayless, Producer LLC**

**Weaver Ridge # 14-5H**

SHL: 39' FSL & 1564' FEL (SWSE) Section 14, T1S R104W  
BHL: 2040' FSL & 2246' FWL (NESW) Section 13, T1S R104W  
Rio Blanco County, Colorado  
Federal Lease: COC-058704

**SURFACE CASING AND CENTRALIZER DESIGN**

Proposed Total Vertical Depth: 5,293 ft      Proposed Depth of Surface Casing: 500 ft  
Estimated Pressure Gradient: 0.42 psi/ft  
Bottom Hole Pressure at 5,293 ft      Hydrostatic Head of gas/oil mud: 0.22 psi/ft  
0.42 psi/ft x 5,293 ft = 2,223 psi      0.22 psi/ft x 5,293 ft = 1,164 psi

Maximum Design Surface Pressure

Bottom Hole Pressure	–	Hydrostatic Head	=
(0.42 psi/ft x 5,293 ft)	–	(0.22 psi/ft x 5,293 ft)	=
2,223 psi	–	1,164 psi	= 1,059 psi

Casing Strengths      9-5/8" J-55 36.0 #/ft ST&C

<u>Wt (#/ft)</u>	<u>Tension (lbs)</u>	<u>Burst (psi)</u>	<u>Collapse (psi)</u>
36.0	394,000	3,520	2,020

Safety Factors

Minimum Standards:    Tension (Dry): 1.8    Burst: 1.0    Collapse: 1.125

Tension (Dry): Casing Weight: 36.0 #/ft x 500 ft = 18,000 lbs  
Safety Factor: 394,000 lbs / 18,000 lbs = **21.89**    **OK**

Burst: Safety Factor: 3,520 psi / 1,059 psi = **3.32**    **OK**

Collapse: Hydrostatic: 0.052 x 9.0 ppg x 500 ft = 234 psi  
Safety Factor: 2,020 psi / 234 psi = **8.63**    **OK**

Use: 500 ft of 9 5/8" J-55 36.0 #/ft ST&C casing – "New Condition"

Use: 3M BOPE and casinghead

Centralizers      Use 6 total  
1 middle of bottom joint  
1 top of second joint  
1 top of third joint  
1 every other joint (±80 ft)

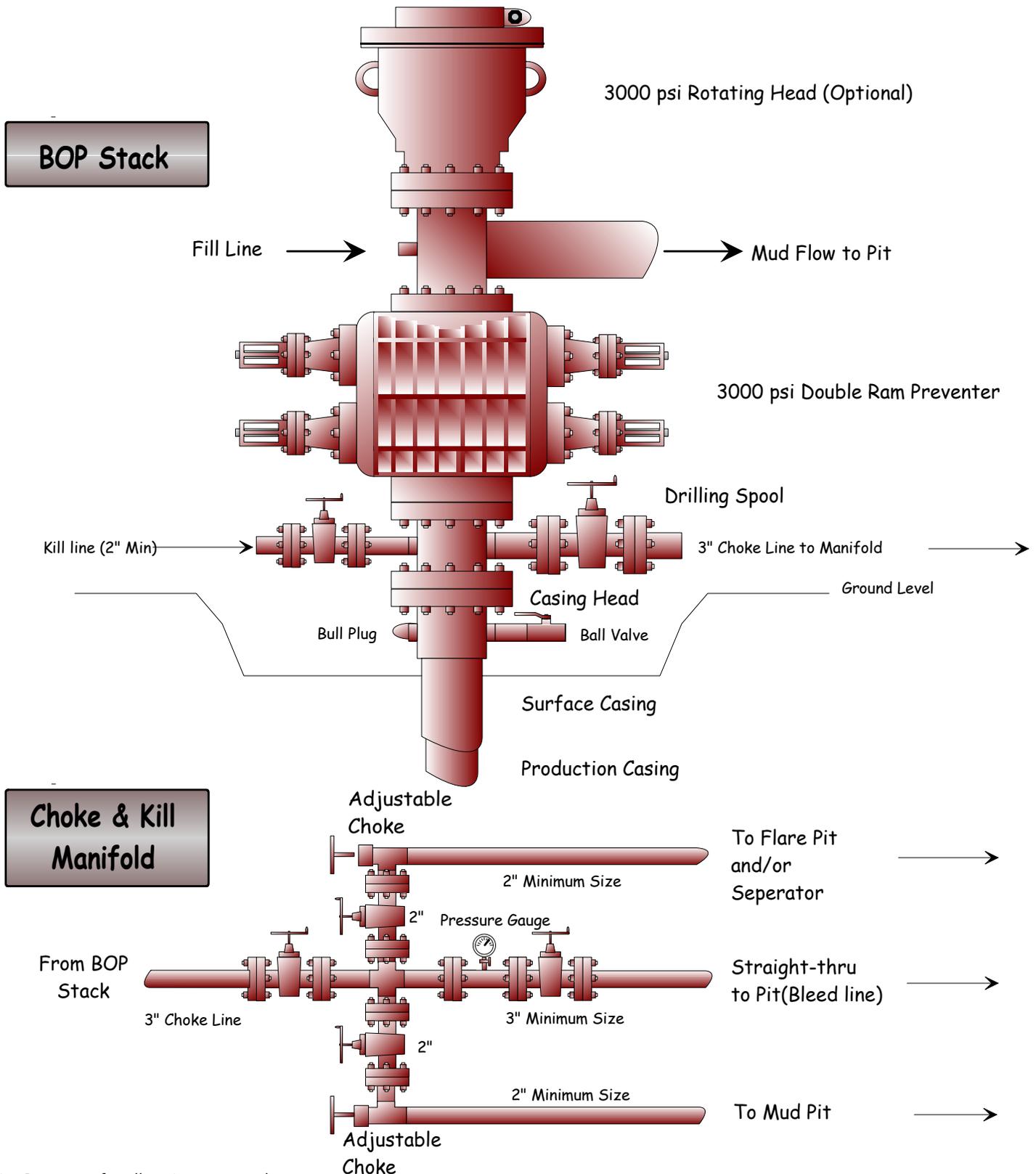
Total centralized      ± 420 ft

Note that field experience indicates that additional centralizers greatly increase the chance of "sticking" the surface casing prior to reaching surface casing total depth.

# Robert L. Bayless, Producer LLC

## BOP and Choke Manifold For 3000 psi Service

### Weaver Ridge #14-15H



Working Pressures for all equipment, Annular Preventor and both rams are rated to 3000 psi or greater

TOPO! map printed on 03/29/12 from "COLORADO.tpo" and "Untitled.tpg"

109°04.000' W

109°03.000' W

109°02.000' W

WGS84 109°01.000' W

39°58.000' N

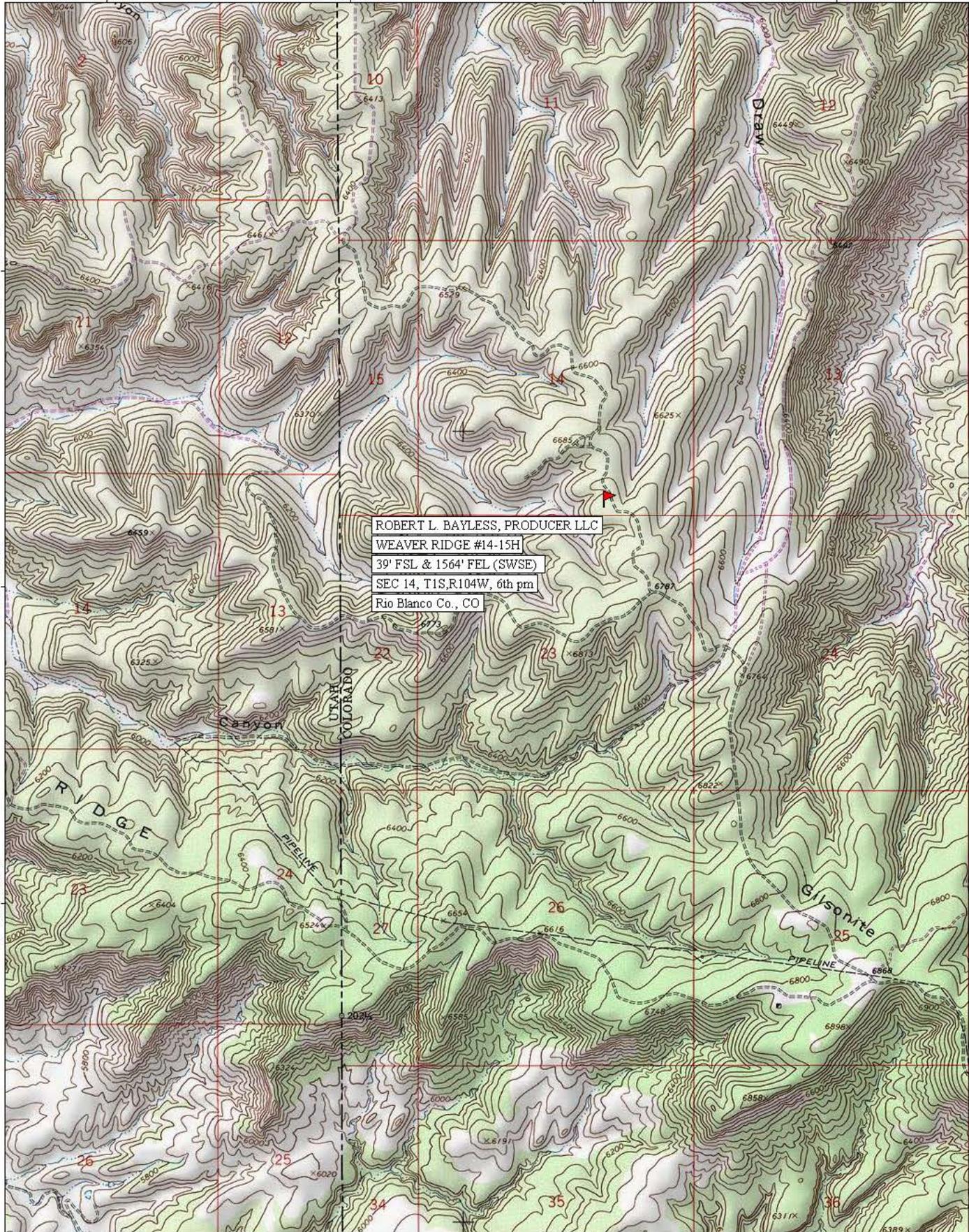
39°58.000' N

39°57.000' N

39°57.000' N

39°56.000' N

39°56.000' N



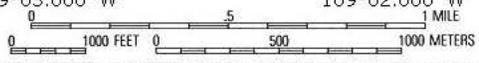
ROBERT L. BAYLESS, PRODUCER LLC  
 WEAVER RIDGE #14-15H  
 39' FSL & 1564' FEL (SWSE)  
 SEC 14, T15S,R104W, 6th pm  
 Rio Blanco Co., CO

109°04.000' W

109°03.000' W

109°02.000' W

WGS84 109°01.000' W



UTAH  
COLORADO

COC 58704

COC 58705

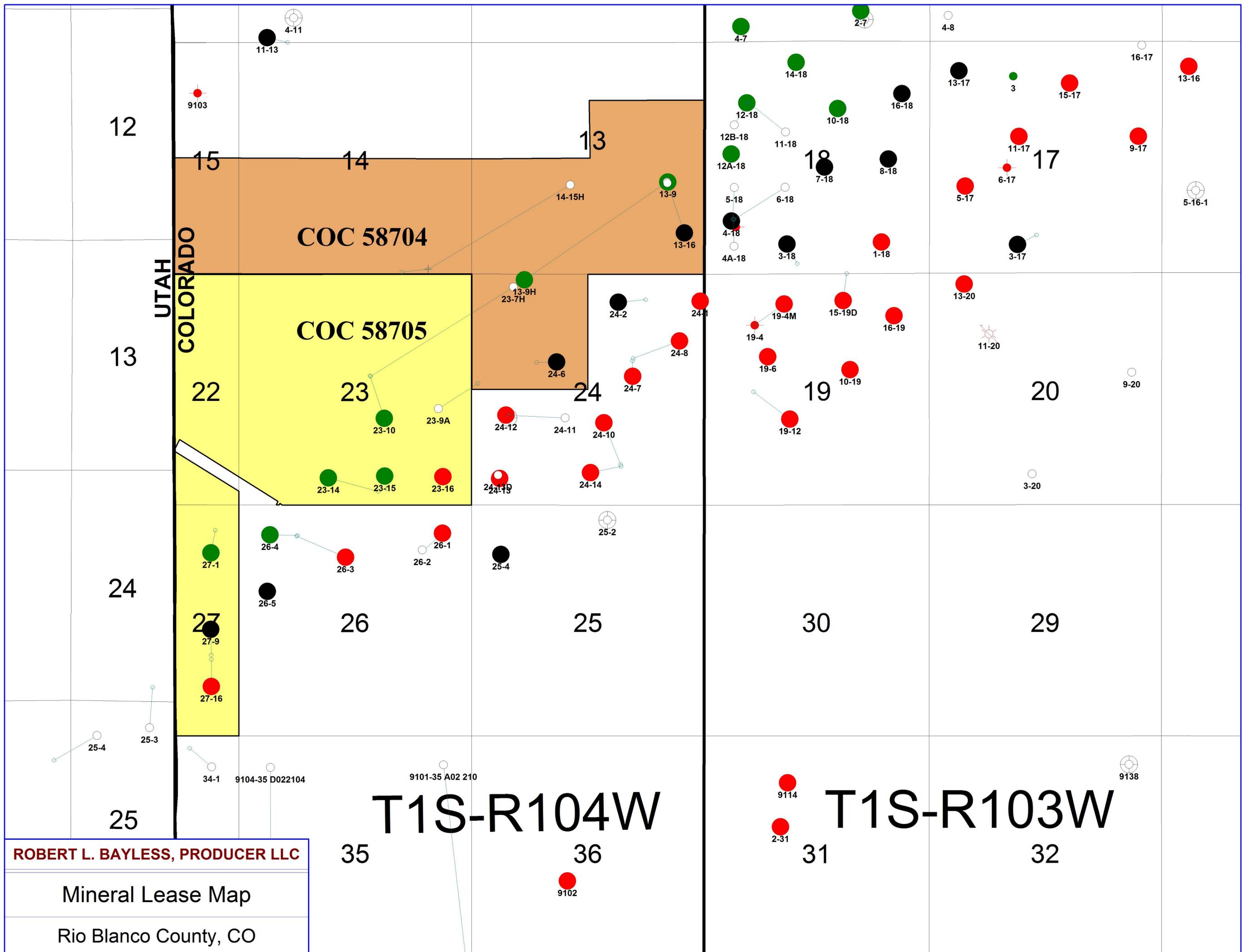
T1S-R104W

T1S-R103W

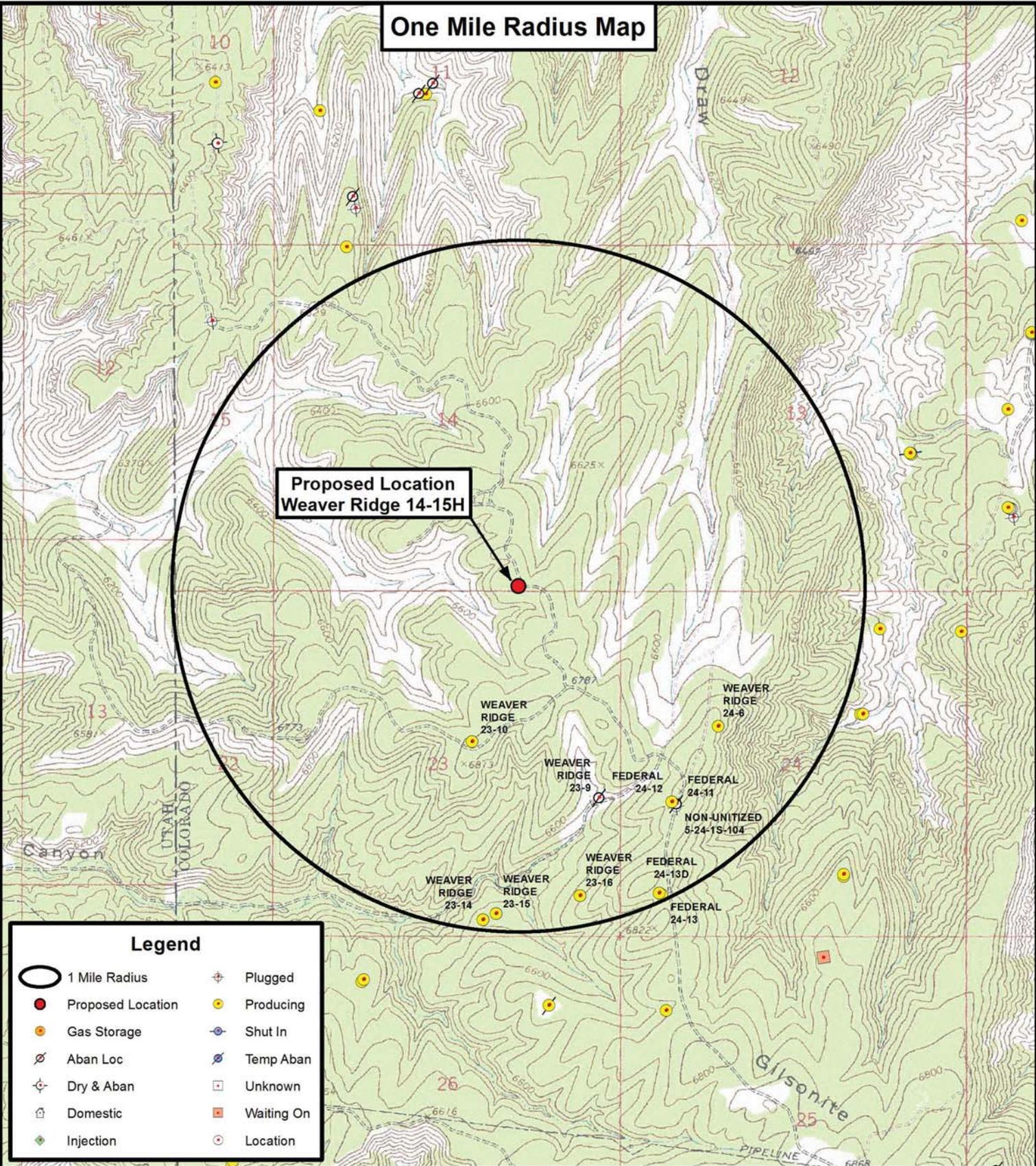
ROBERT L. BAYLESS, PRODUCER LLC

Mineral Lease Map

Rio Blanco County, CO



### One Mile Radius Map



Proposed Location  
Weaver Ridge 14-15H

#### Legend

- 1 Mile Radius
- Proposed Location
- Gas Storage
- Aban Loc
- Dry & Aban
- Domestic
- Injection
- Plugged
- Producing
- Shut In
- Temp Aban
- Unknown
- Waiting On
- Location

**Tri State Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



### ROBERT L. BAYLESS PRODUCER LLC.

Weaver Ridge 14-15H  
SEC. 14, T1S, R104W, 6th P.M.  
Rio Blanco County, CO.

DRAWN BY:	D.C.R.	REVISED:
DATE:	01-05-2012	
SCALE:	1" = 2,000'	

### TOPOGRAPHIC MAP

SHEET  
**C**

Aerial Map



Proposed Location  
Weaver Ridge 14-15H

**Legend**

○—○ Existing Road

— Proposed Road Reroute

**Tri State  
Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



**ROBERT L. BAYLESS PRODUCER LLC.**

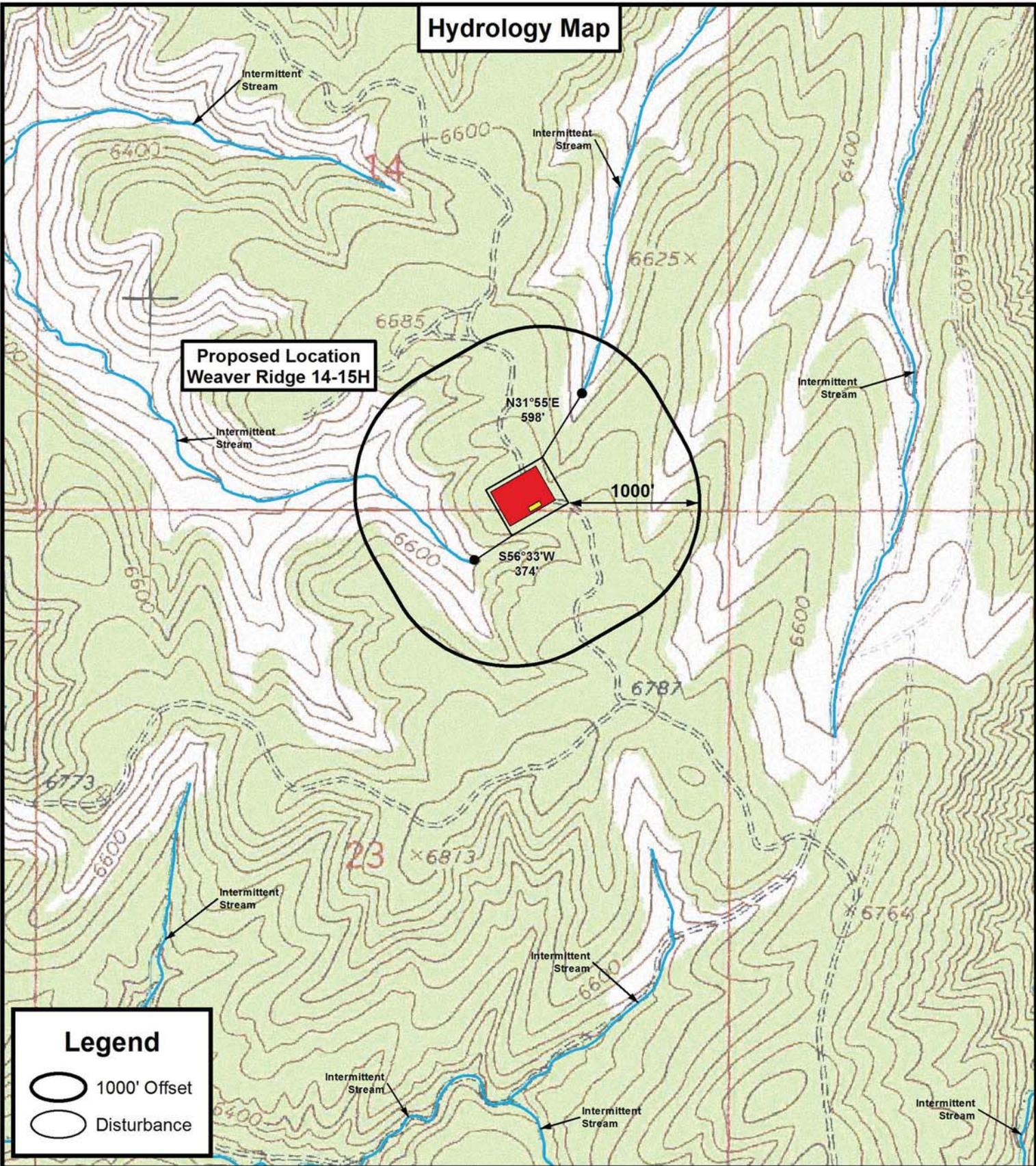
Weaver Ridge 14-15H  
SEC. 14, T1S, R104W, 6th P.M.  
Rio Blanco County, CO.

DRAWN BY:	D.C.R.	REVISED:	03-27-12 D.C.R.
DATE:	01-05-2012		
SCALE:	1" = 1,000'		

**AERIAL MAP**

SHEET  
**E**

# Hydrology Map



## Legend

- 1000' Offset
- Disturbance

**Tri State Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
 F: (435) 781-2518



## ROBERT L. BAYLESS PRODUCER LLC.

Weaver Ridge 14-15H  
 SEC. 14, T1S, R104W, 6th P.M.  
 Rio Blanco County, CO.

DRAWN BY:	D.C.R.	REVISED:
DATE:	01-05-2012	
SCALE:	1" = 1,000'	

## TOPOGRAPHIC MAP

SHEET  
**H**

## **Robert L. Bayless, Producer LLC**

### **Weaver Ridge 14-15H**

SHL: 39' FSL & 1564' FEL (SWSE) Section 14, T1S R104W  
BHL: 2040' FSL & 2246' FWL (NESW) Section 13, T1S R104W  
Rio Blanco County, Colorado  
Federal Lease: COC-058704

### **SURFACE USE PLAN**

(Attachment to Form 3160-3)

#### **WELL LOCATION AND INTRODUCTION**

The surface location of this proposed horizontal well is 39' FSL & 1564' FEL (SWSE) Section 14, of T1S R104W with bottom-hole location at 2040' FSL & 2246' FWL (NESW) Section 13, of T1S R104W. The well site was surveyed and staked on December 15, 2011 by Tri State Land Surveying and Consulting for Robert L. Bayless, Producer LLC (Bayless), at a site that was geologically, legally and topographically acceptable. Onsite meetings with BLM occurred on March 15, 2012. Present were Jay Johnson – BLM, David Kubeczko and Jacob Davidson – COGCC, Jeff Heinle – ETC, Rex Allen – EnCana, Paul Hawkes – Tri State Land, Bill Buniger – Buniger Construction, Tom McCarthy and Habib Guerrero – Bayless.

The White River Resource Area Manager will be notified 24 hours prior to commencing construction of the drillsite, 24 hours notice prior to commencing completion operations and 24 hours prior to commencing reclamation work.

#### **DIRECTIONS TO LOCATION**

Begin at the west end of Rangely, Colorado at the intersection of Highway 64 and County Road 2 (River Road), and travel southerly on County Road 2 for approximately 8.1 miles to the end of pavement. Stay on county road 2 for another 3.9 miles, cross the bridge and turn left. Travel 6.8 miles and veer left. Travel 3.6 miles and turn right at the intersection. Travel 0.8 miles up the hill to the proposed location. There are two gates located on private land, both of which must be passed through during route. Both are shown on exhibit 1B.

#### **1) EXISTING ROADS**

- A) The proposed well is a development/confirmation well. The proposed well has been staked and reference stakes are present. Please refer to sheets P1 to P3 for location photos and proposed well as staked. All existing roads in the area of the drill site are shown on exhibit 1B (Topographic maps "A & B").
- B) (+/- 514 ft) of the existing BLM access road 1220B will be re-routed to the east and incorporated as part of the new wellpad as shown in exhibit 1A and 1C. (+/- 525 ft) of the existing 4" surface gas pipeline owned and operated by EnCana will be relocated to the south west of the re-routed portion. Bayless and EnCana have an agreement to move the pipeline. Exhibit 1A and 5 show the proposed relocation of the BLM road 1220B and 4" pipeline. Any portions of the road and pipeline that remain following the move will be reclaimed as described in Section 10 of this document.
- C) All existing roads within 1.0 mile of the drill site consist of BLM existing dirt and gravel resource road to the edge of the proposed location which will provide access.
- D) All existing county roads use for access the subject well will be coordinated with Rio Blanco County road department. Non-county roads will be maintained to BLM Manual 9113 standards. Maintenance will be done prior to the commencement of operations and will continue until final abandonment and reclamation of the wellpad location. Improvement and/or maintenance plans may include grading, watering for compaction/dust control, ditch maintenance, erosion control, slope stabilization and ROW treatment for noxious weeds, and road closures during periods of excessive soil moisture. Weed control will be performed by certified applicator and conform to the Pesticide Use Proposals (PUP) filed with BLM.

- E) BLM Best Management Practices (BMP's) as outlined in the "Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development" (the Gold Book) will be utilized for all construction and operational activity related to this facility.
- F) Erosion control (wattles, straw bales and ditches) for the re-routed access road and wellpad will be used and placed to control drainage where needed. No culverts are required.

2) **NEW or RECONSTRUCTED ACCESS ROADS**

- A) As per BLM, the subject location has been shifted to the east to incorporate the existing BLM road 1220B and the existing 4" surface gas pipeline owned and operated by EnCana as part of the new wellpad. Exhibit 1A shows the existing and proposed access road and pipeline.
- B) (+/- 514 ft) of the existing BLM road 1220B and (+/- 525 ft) of the existing 4" surface gas pipeline will be re-routed to the east edge of the new wellpad. This 4" surface gas pipeline will be relocated and buried to a depth of 4 ft minimum to the SW side of the re-routed portion of the access road.

+/- 300 feet (0.06 miles) Re-routed portion incorporated to the wellpad  


---

 +/- 214 feet (0.04 miles) Additional re-routed portion  
 +/- 514 feet (0.10 miles) Total new/relocated access road

*This application for Permit to Drill will serve as a request for the BLM to initiate a Right-of-Way (ROW) application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead. The width of ROW requested is 40 feet.*

- c) No additional access roads are planned or will be constructed to access the existing wellpad or production facilities in this well site.

**Road Design Criteria**

- D) New access roads will be designed to BLM Manual section 9113 standards for road shape and drainage features at all the times during construction, drilling and production. The new access road will feature a cleared width of approximately 40 ft with an 18 ft travel/running surface. Road will be crowned with 2% cross-slope.
  - i. +/- 300 ft of new/relocated access road will be part of the wellpad.
  - ii. The maximum grade for the access road will not exceed 6%.
  - iii. No turnouts will be required for the new relocated access road.
  - iv. No significant drainages are crossed with the new/ relocated access road.
  - v. No culvert will be installed.
  - vi. No fence crossing /cattle guards are required for this access road.
  - vii. The proposed new/relocated access road will be staked prior to construction.
- E) Dust control measures will be implemented during dry weather when necessary.
- F) Road will be surfaced to provided "all-weather" access using 6" compacted road base aggregate for road surfacing in Rio Blanco county (ie. Connell Gravel Pit, Urie Rock Company and Maybell Enterprises).

**Road Construction and Maintenance**

- G) The re-routed access road will be designed, constructed and maintained to BLM Manual section 9113 standards for "local Road" classification.
- H) Available topsoil will be removed from the disturbed area and stored in low profile stockpiles at the ROW limits as shown on the typical cross section and Location layout diagrams, Exhibits 5A & 5B. Following construction of the main wellpad/production facilities access road, the topsoil will be respread on the disturbed area (ditch and road slopes) and reseeded with an approved seed mixture #3. ROW reclamation will conform to the description provided in Section 10 of this document.

- I) Bayless assumes the responsibility of maintenance of the access road. The use of access road shall be limited to BLM personnel, Bayless and its authorized representatives, contractors, and subcontractors and shall be limited to business purposes. Bayless shall be responsible for all persons authorized by Bayless to use such roads and shall be responsible for any damage, the proximate cause of which is occasioned by such use, whether damage occurs through the use of Bayless, its personnel, agents, contractors, or subcontractors.
- J) Road maintenance will be performed on a “level 4” standard as defined under BLM handbook. During active operations, roads will be inspected, at minimum, each 30 days and measures taken to address any noted issues. Frequency of inspection will be increased following major precipitation/runoff events or during periods of high traffic activity. Maintenance will include :
  - i. Grading and shaping of the roadway surface to maintain a distinct crown to move water rapidly off the road surface. Replace aggregate surfacing as necessary.
  - ii. Cleaning /reshaping ditches when necessary to maintain adequate flow capacity.
  - iii. Repair of slope protection, energy dissipation or other storm water control by BMP’s.
  - iv. Trimming roadside vegetation for sight distance and traffic safety.
  - v. Repair/replacement of damaged road safety and regulatory signs.
  - vi. Watering for compaction/dust control, ditch maintenance and ROW treatment for noxious weeds.
- K) Noxious weed control will be performed by certified subcontractor. The pesticides use will conform to applicable Pesticide Use Proposal (PUP) filed with the BLM for the Piceance Field Area.

3) **LOCATION OF EXISTING WELLS WHITIN A 1-MILE RADIUS OF THE PROPOSED LOCATION**

The topographic map “C” (Exhibit 4B) shows all existing water, drilling, abandoned disposal, injection, shut-in, producing, observation wells and production facilities within a 1 mile radius of the proposed location.

Water Wells:	None	
Abandoned wells:	2	
Temporary abandoned wells:	None	
Disposal wells:	None	
Drilling Wells:	None	
Producing Wells:	8	See Topo Map C
Shut-in Wells:	None	
Injection Wells:	None	
Monitoring or Observation Wells:	None	

4) **LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES**

- A) The production facilities shall initially consist of four 400 barrel production tanks, pump jack, separator and a meter house will be located on the northwest side of wellpad as per the attached exhibit 5C. Unused areas of the wellpad will be reclaimed, as described in Section 10 of this document, following drilling and completion operations.
- B) The gas gathering line for natural gas production purposes will be a 2” steel pipe. This pipeline will be owned and operated by Energy Transfer (ETC). The length of this surface pipeline will be approximately +/- 1,938 ft and it will tie into the existing 2” gathering line that currently services the Weaver Ridge 23-10 well. Exhibit 1D shows the proposed pipeline.

**Production Facilities Description:**

- C) The wellpad has been designed to accommodate at least 4 future wells. Dimensions of the proposed pad is 300' x 400' =120,000 ft<sup>2</sup> =2.75 acres for drilling and completion operations.
- i. The proposed facilities will consist of an underground flowline from each wellhead to a manifold system. The manifold system will allow a full well stream from each well to flow to the production separator. The 3-phase production separator will be used to separate gas, condensate and water from individual wells. The daily production from each well will be allocated back based on individual gas meters to each well.
  - ii. Gas will flow from the production separator to the sales measurement unit through a buried 2" flowline before leaving the wellpad. Condensate production rates of individual wells will be allocated back based on condensate production measurements taken via the production separator and tank gauging. Condensate from the pad will be sold via trucking.
  - iii. The gas measurement facilities will be installed on the well location. Gas meter will be calibrated in place prior to any deliveries. A copy of the meter calibration reports will be submitted to the BLM Field Office upon request. All meter measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standard for natural gas measurements.
  - iv. The flowline will be buried in a common trench with minimum 3' of cover. BMPs will be utilized to minimize potential impacts from the pipeline construction. Woody debris material will be cleared and rolled to the downgradient side of the right-of-way where feasible to act as brush barrier. Topsoil will be stored on one side of the proposed trench (the upgradient side where feasible) and will be kept within the existing right-of-way. Topsoil will be kept separate from the spoils. Spoil stockpiles from trench excavation will either be stored between the topsoil and the trench or on the opposite side of the trench from the topsoil. Wattles may be installed on the downgradient boundary of stockpiles when there is potential for sediment to leave the pipeline right-of-way. Once the flowline has been installed, the trench will be backfilled with the excavated spoils and compacted as required by the specifications. The topsoil will then be spread back across the disturbed area.
  - v. A metal containment will be place around production tanks. This containment will be able to contain at least 100% of the volume of the largest production tank.
- D) Production facilities may vary according to actual reservoir discovered and will be engineered upon completion of well tests. If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1½ times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement will conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Orders No. 4 & 5.
- E) No facilities will be constructed off location.
- F) Production equipment will be painted light reflective colors to limit evaporation and waste of liquid hydrocarbons. All above ground permanent structures including production equipment will be painted to blend with the surrounding landscape. The color Juniper Green was specified by the BLM at the onsite. All above ground equipment will be painted and maintained through the life of the wells.
- G) All undesirable events (fires, accidents, blowouts, spills) as specified in Notice to Lessees (NTL-3A) will be reported to the White River BLM Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than major events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly report of the Operations and Production.

- H) All production facilities will comply with federal rules regarding noise. Regardless of whether the operation is at the construction, drilling or production phase, adequate muffling techniques, if necessary, will be applied.
- I) (+/- 525 ft) of the existing 4" surface gas pipeline owned and operated by EnCana will be relocated and buried to a depth of 4 ft minimum to the SW side of the re-routed portion of the access road. There is no rock at this location that would cause excessive trenching.
- J) Bayless will contract with a State Certified applicator licensed to work on public land, and treat all state and county identified noxious weed species at least annually, on all facilities associated with this well. Approval shall be documented in writing by the BLM Authorized Officer (AO). The applicator must operate under an approved and approved pesticide use proposal (PUP) application from the BLM. Use of pesticides and herbicides will comply with the applicable Federal and State laws.
- K) The disturbed area will be reseeded, as part of final reclamation using a BLM approved seed mixture. Seeding success will be periodically evaluated. Successful vegetation is expected within two growing seasons. In the event that seeding does not appear to germinate, areas will be reseeded.

**5) LOCATION AND TYPE OF WATER SUPPLY**

Fresh water to be used for the drilling of this well will be hauled by truck over the existing access roads in the area, from the Rangely City water supply which is approximately 22 miles northeast of the proposed location. Humboldt Incorporated and RN Industries will haul water for Bayless. Exhibit 9 shows the anticipated water sources and volumes.

- i. Water will be hauled to the location using existing roads as shown on exhibit 1B
- ii. No new roads will be constructed for purpose of water haulage.
- iii. No water supply pipelines will be laid for this or future wells.
- iv. Water for construction, drilling, dust suppression and completion operations will be utilized from the Rangely City water supply under existing permits.

**6) CONSTRUCTION MATERIALS**

- A) Wellpad sub-grade will be constructed by normal cut and fill methods. Cut has been balanced to meet fill requirements. No offsite borrow will be required to construct the sub-grade. Construction techniques are described in section 9 of this document.
- B) Construction materials will consist of native materials from borrow ditches and location areas.
- C) No construction materials will be removed from BLM lands.
- D) In the event of production, if gravel is required, a small amount of gravel needed for facilities will be hauled in by truck over existing access roads from a local gravel pit or commercial sources in Rio Blanco County, such as Connell gravel pit or Urie's Rock Companies and Maybell Enterprises.
- E) The use of materials will conform to 43 CFR 3610.2-3.

**7) METHODS FOR HANDLING WASTE**

- A) Drilling fluids will be contained utilizing either method.
  - a. Closed Loop drilling system (primary method)
  - b. Lined reserve pit (secondary method).

Bayless primary method is to utilize a closed-loop drilling system to contain drilling fluids as shown on exhibit 6. In this case a lined reserve pit (secondary method) will not be necessary. If it is determined that the closed loop system is inadequate Bayless will notify the White River Resource Area Manager by sundry notice that a reserve pit will be used including a revised drilling rig layout diagram as shown on exhibit 6A.

- B) The closed loop drilling system will include a cuttings catch pit, dewatering system, centrifuge system and additional fluid storage. The cuttings pit will be approximately 11 feet wide, 10 feet deep and 50 ft long with a 45 deg slope (ramp) and drilling fluids including salts and chemicals will be contained within the pit and closed loop system. Cuttings will be treated to meet the requirements of the COGCC table 910-1 before being buried onsite with a minimum of 3 ft of fill to as per COGCC guidelines. Upon termination of drilling and completion operations, the mud will be transferred to another drilling location for recycling/reuse as per COGCC RULE 903. If the mud is not needed elsewhere, all drilling fluids will be treated or disposed as COGCC Rule 325 guidelines.
- C) If it is determined by Bayless to use a lined reserve pit it will be constructed to BLM Gold book, Onshore Order # 1 standards and to meet Colorado Oil and Gas conservation Commission (COGCC) requirements on the wellpad during drilling operations.  
The reserve and dry cuttings pit/trenches will be lined using synthetic liner with thickness of 24 mil. If needed to dry the cuttings and accelerate the pit closure process, the cuttings may be solidified by mixing a drying agent. Excess pit liner above “free board” elevations will be removed and disposed as trash (see item F below).
- D) Drilling fluids will be removed by vacuum truck to another active location and /or will be allowed to evaporate in the reserve pit until the pit is dry enough for back filling. Water produced during test will be disposed of in the reserve pit as per Onshore order 7. Oil produced during tests will be stored in test tanks until sold, at which time it will be hauled from the site. In the event fluids in the pit do not evaporate in a reasonable time, the fluids will be hauled to a state approved disposal site or will be mechanically evaporated. Currently disposal sites on our approved list in the area are: On-site/Peacocks disposal or RN Industries disposal in Rangely, CO. Pits containing water that would provide a medium for breeding mosquitoes will be treated to control mosquito larvae. Treatment will include application of mosquito larvacide.
- E) The reserve pit will be lined with synthetic liner with thickness of 24 mil. The reserve pit liner will be sufficiently reinforced to withstand normal wear and tear associated with the installation and pit use and will be chemically compatible with all substances that will be put into the pit. A minimum of not less than 2 feet freeboard will be maintained in the pit at all the times. All oil or floating debris will be removed from the pit immediately after the drilling phase of the well.
- F) The reserve pit will be fenced “stock tight” on three sides with a 4 strand barbed or woven wire fence during drilling operations and on the fourth side at time of rig release. The pit will remain fenced until backfilled. In order to prevent use by migratory birds, reserve pits that store or are expected to store fluids which may pose a risk to such birds, during completion and after completion activities have ceased, shall be netted. If any other means than netting are used BLM will be notify prior to beginning completion activities.
- G) All mud cuttings will meet the requirements of the COGCC Table 910-1 before being buried on-site. All cuttings will have all harmful properties of the waste reduced or removed and the mobility of leachate constituents reduced or eliminated.
- H) Sewage from the trailer houses will be disposed of in a manner meeting the Rio Blanco County Regulation, as under the guidance of Colorado Water Quality Control Commission, Department of Public Health and Environment. Sewage will not be buried on location or put in a borehole as per Colorado Department of Public Health and Environmental (CDPHE) Regulations unless a CDPHE Permit is obtained. Sewage will normally be stored, on-site, in above ground septic tanks. Contents are periodically hauled to municipal water treatment plants at Meeker and Craig,

Colorado for disposal. Chemical portable toilets will be furnished for human waste and their contents hauled to an approved disposal site. Bayless will have a service agreement with Redi Services of Meeker Colorado for septic removal. Septic is transported by vacuum truck to Meeker Sanitation District at 1150 Market Street for treatment by their facility.

- E) Trash, waste paper and other non-flammable waste will be contained in a portable trash cage which will be totally enclosed. No trash will be placed in the reserves pit. The cage and contents will be transported by a third party contract trucking and dumped to the Rio Blanco County landfill or other CDPHE approved Sanitary Landfill as necessary or upon completion of operations.
- F) Salts that are not used in the drilling fluid will be removed from the location by the supplier. Empty sacks are placed in the trash for disposal to Rio Blanco County landfill.
- G) Chemicals that are not used in the drilling and completion of the well will be removed from the location by the supplier. Used drums are returned to the vendor for reuse.
- H) The producing fluids (produced water, frac fluids and possibly condensate), while testing the well will be flowed back to a frac tank or reserve lined pit. Any condensate will be skimmed and transferred to production tanks. Sand and produced fluids other than condensate will be transferred to the reserve pit until such time as the well is cleaned up sufficiently to produce pipeline quality gas.

Hazardous Material Statement: No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing or completion of the well

8) **ANCILLARY FACILITIES**

No ancillary facilities will be necessary.

9) **WELLSITE LAYOUT (NARRATIVE & DIAGRAM)**

- A) The White River Resource Area Manager shall be notified 24 hours in advanced before any construction begins on the proposed location site.
- B) The wellpad has been designed to accommodate at least 4 future wells. Dimension of proposed facility is approximately 300 ft x 400 ft. Pad size will be reduced to minimum size necessary to conduct safe operations. Any additional area will be approved in advanced. Exhibits 5A and 5B provide the proposed wellsite layout and earthwork requirements. Overall disturbance limits of the wellpad, including BMP installation, are estimated to be at 4.99 acres. Disturbance areas are shown on exhibit 5C.
- C) Roads and well production equipment, such as tank, separators, and others will be placed on location so as to permit maximum interim reclamation of disturbed areas, so proper re-contouring and re-vegetation can occur. The total reclaimed area has been estimated to be 2.41 acres, exhibit 5C.
- D) All equipment and vehicles will be confined to the existing access road and wellpad area outlines in exhibit 1A and 1B.
- E) A final diagram showing the proposed production facilities layout will be submitted to the Authorized Officer via Sundry Notice (form 3160-5) for approval of subsequent operations.
- F) During wellpad construction, if snow is encountered, the snow will be removed before construction begins or the topsoil is disturbed and placed downhill of the topsoil stockpile location.

- All available topsoil will be stripped on well locations and access roads, prior to construction, and stockpiled for use reclamation of the site. Topsoil stockpile will be clearly segregated from any spoil pile and placed in location as shown on Exhibit 5A. Topsoil depth at this site is estimated at 3". If necessary, topsoil will be temporarily seeded and covered with a wildlife friendly biodegradable erosion control blanket. Additionally, wattles will be installed on the downgradient end of the topsoil pile.
  - When appropriate in the growing season, any weeds in the topsoil pile should be treated prior redistribution of the topsoil during construction/expansion of the proposed pad.
  - Wellpad sub-grade will be constructed using cut/fill methods to achieve the required site profile. Embankments may be layer placed or constructed by side casting/ end dumping. No offsite borrow will be required for subgrade construction at this site. Excess cut will be stockpiled in areas as shown on Exhibit 5A.
  - Aggregate surfacing (road base material) will be hauled, placed and compacted to achieve necessary thickness to provide "all weather" surface. If needed, aggregate will be obtained from commercial sources in Rio Blanco County (ie. Connell Gravel Pit, Urie Rock Company and Maybell Enterprises).
- G) The reserve pit size will be capable of holding the TD hole volumes for this and future wells. This pit might be used for testing, but only after the drilling is completed and the drilling equipment and personnel are off the well site location.
- H) The reserve pit will be designed to prevent the collection of surface runoff. The design, size and capacity of the reserve pit have been increased to allow for additional completion fluids.
- I) If needed, flare pits must be located a sufficient distance from the reserve pit to prevent the liner from being damage during flaring operations.
- J) Compaction and construction of the berms surrounding production tanks will be designed to conform with SPCC plans to prevent lateral movement of fluids through the berm, prior to any storage of fluids.
- K) All surface disturbing activities will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- L) BMP's associated with stormwater management / erosion control will be applied to the site during and after construction and drilling/completions operations. Straw wattles, and or dirt berms will be used where needed for perimeter runoff control around of the wellpad and stockpiles. In order to prevent the discharge of sediments from disturbed slopes associated with the access road or wellpad, water containments will be constructed where needed along the side of the road to keep the water running down. Erosion control barriers such as straw wattles or excelsior logs will be also constructed, if necessary.

## **10) PLANS FOR SURFACE RECLAMATION**

- A) Immediately upon completion of the drilling and well completion, the well location and surrounding area(s) will be cleared of all debris, material, trash and junk not required for production.
- B) Interim restoration applicable to all areas of disturbance on the pad and access road not needed for production or access will be rehabilitated. Rehabilitation of these previously disturbed areas will consist of backfilling and contouring, back sloping and contouring all cut & fill slopes and re-seeding. Wellpad size will be reduced to minimum size necessary to conduct safe operations and cuts and fill will be reduced to 3:1 or less slope, whenever practicable.

- C) If it is determined by Bayless to use a lined reserve pit will be allowed to dry prior to the commencement of backfilling work. The cuttings pit will be emptied as previously describe in item 7. The pit will be backfilled and re-contoured to blend with the existing environment as soon as practical after the cuttings have dried.
- D) Unneeded disturbed surfaces remaining after drilling and completion operations will be shaped to match the surrounding terrain and seeded as specified by the BLM. Site specific BMP's associated with interim reclamation will be applied per the approved ISWMP permit for this site.
  - a. Regrading will consist of cut/fill operations to return disturbed areas not required for production to approximate original contour. Stockpile spoil will be incorporated into the regarded area in locations which will be available for final re-contouring upon well abandonment.
  - b. The stockpiled topsoil material will be evenly distributed over the disturbed area for surface restoration. Following the topsoil placement, the area will be revegetated using a certified and an approved seed mixture #3 as prescribed by the BLM. Seed will be certified and free of noxious weeds. Seed certification tags will be submitted to the area manager within 30 days of seeding. Revegetation is generally scheduled for the fall planting season, September 15<sup>th</sup> through the first frost, unless instructed otherwise. If necessary, a BLM certified weed applicator will be used for weed control.
- E) Once all wells planned for the pad have been drilled, completed and hooked up to production equipment, interim reclamations will take place, see exhibit 5C. Restoration of un-needed portions of the pad will commence as soon as practical after the installation of production facilities but no later than 6 months.
- F) If needed, immediately after interim reclamation is concluded, livestock grazing will be excluded from all reclaimed wellpad areas by installation of a four-strand BLM Type D barbed wire fence, unless otherwise instructed by the BLM. No cattle guards are expected for this location.
- G) Cut and fill slopes no actively used during the production phase (generally that area outside the rig anchors) will be reduced to 3:1 slope and the surface will be roughened on the contour.
- H) Salvaged topsoil from the location will be evenly redistributed over the cut and fill surfaces. Upon final reclamations at the end of the project life, topsoil spread on these surfaces will be used for the overall reclamation effort. Any materials temporarily stockpile will receive short term stabilization using seed mixture #3 approved by the BLM.
- I) Plans for implementation of specific BMP's on the wellpad, access road and pipeline during interim and final reclamation are described in detail on the BMP (Exhibit 7).
- J) Once the last well on the pad is P&A'd, the well site and access road will be restored to their approximate original contours. For the well pad, this will consist of pushing fill material into the cuts and up over the back slope. For the access road, culverts and ditch topsoil will be redistributed over all disturbed areas and seed applies as required by the BLM.
- K) Upon final abandonment of the well, Bayless will return all remaining disturbed areas to approximate original contour and rehabilitate the road and location to a satisfactorily revegetated, safe and stable condition per BLM specifications.
  - i. Topsoil will be removed from remaining sideslopes and temporarily regraded areas (interim reclamation) and stockpiled for redistribution on final graded areas.
  - ii. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be re-contoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape.

- iii. Natural drainage patterns will be restored and stabilized by an application of BMP's per approved SWMP for this site. These BMP's include surface roughening, seeding and erosion control wattles following regarding operations. Storm runoff from re-graded areas will continue to be controlled at the perimeter of the disturbed area using straw wattles or dirt berm or other appropriate BMP's. These measures will continue to be maintained around the perimeter of the site until stabilization of the reclaimed areas has been achieved, see exhibit 5C.
- iv. A seed mixture # 3 previously approved by the BLM will be used to reclaim and reseed the access road, wellpad, pipeline and all disturbed areas. Seed will be applied with a drill at the prescribed rate unless slopes or other impediments preclude such work. If broadcast, seed will be applied at double the prescribed drill rate. Refer to BMP (Exhibit 7) for reseeding procedures on interim and final reclamation.

<b>Native Seed Mix #3</b>	
<b>Common Name</b>	<b>LBS PLS/acre*</b>
Western Wheatgrass (Rosana)	4
Indian Ricegrass (Rimrock)	3
Bluebunch Wheatgrass (Whitmar)	3.5
Needle and Thread Grass	2.5
Lewis Flax (Maple Grove)	1
Scarlet Globemallow	0.5
*Application rate is drill seed rate. Should seed be broadcast, apply at two times the rate	

- L) Rehabilitation operations (both interim and final) will start in a timely manner following the completion of operations per Onshore Order #1. Site specific BMP's will be applied as described above. Additional reclamation efforts will be undertaken if, after the first growing season, there are no positive indicators of successful establishment of seeded species (i.e. germination). Reclamation efforts will continue so as to ensure a sufficient vegetative ground cover from reclaimed plant species within (3) growing seasons after the application of seed.

**11) SURFACE OWNERSHIP**

Surface and minerals ownership at the wellpad is the:

Bureau of Land Management,  
 White River Resource Area  
 220 E. Market Street  
 Meeker, CO 81641                      970-878-3800

**12) ADDITIONAL INFORMATION**

- A) An archeological cultural and historical survey of the area has been performed on February 06, 2012 and submitted separately by the Grand River Institute to the BLM White River office. Raptors and Sensitivity plant surveys are expected to be done on June 1<sup>st</sup>, 2006 by West Water engineering and submitted separately to the BLM.
- B) The well site and lease is located entirely on Federal surface, exhibit 4A. Surface access will be via county and BLM roads, exhibit 1B.

- C) The project area is situated in the uplands of the northwest edge of the Piceance Basin. The topographic and geologic features include a moderate relief area which is well drained. The area has slight sand and silt deposition and is surrounded by rock outcrops with moderately eroded drainages. The major soil type is a clay/loam.
- D) The Flora in the area consists of Juniper, Pinon pine, Matchbrush, Mountain Mahogany, Phlox, Rubber rabbitbrush, Shadscale saltbrush, Penstemon, Mormon tea, Snowberry, Basin wildrye, Cheatgrass, and Indian ricegrass.
- E) No Fauna was observed in the area. Assumed Fauna are mule deer, elk, coyotes, rabbits, raptors, and rodents.
- F) The proximity of water is an unnamed intermittent drainage 374 feet northeast of location that flows into Weaver Canyon. There are no occupied dwellings or other features in the vicinity of this location.
- G) The concurrent surface use in the area is grazing and petroleum production.
- H) Total surface maximum surface disturbance is estimated at 4.99 acres including the drilling/production facility pad, new access road, re-routed road access road, associated flowlines and installation of storm water management BMP's Maximum Disturbed are is indicated on exhibit 5C.

**12) REPRESENTATIVES (LESSEE'S OR OPERATOR'S) & CERTIFICATION**

Robert L. Bayless, Producer LLC  
P.O. Box 168  
Farmington, NM 87499

Habib Guerrero – Operations Engineer  
Phone: (505) 326-2659  
Fax: (505) 326-6911

**13) CERTIFICATION:**

I hereby certify that Robert L. Bayless, Producer LLC is responsible under the terms and conditions of the lease to conduct lease operations in conjunction with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Robert L. Bayless, Producer LLC under their nationwide surety bond, BLM Bond #CO0833.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Robert L. Bayless, Producer LLC and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

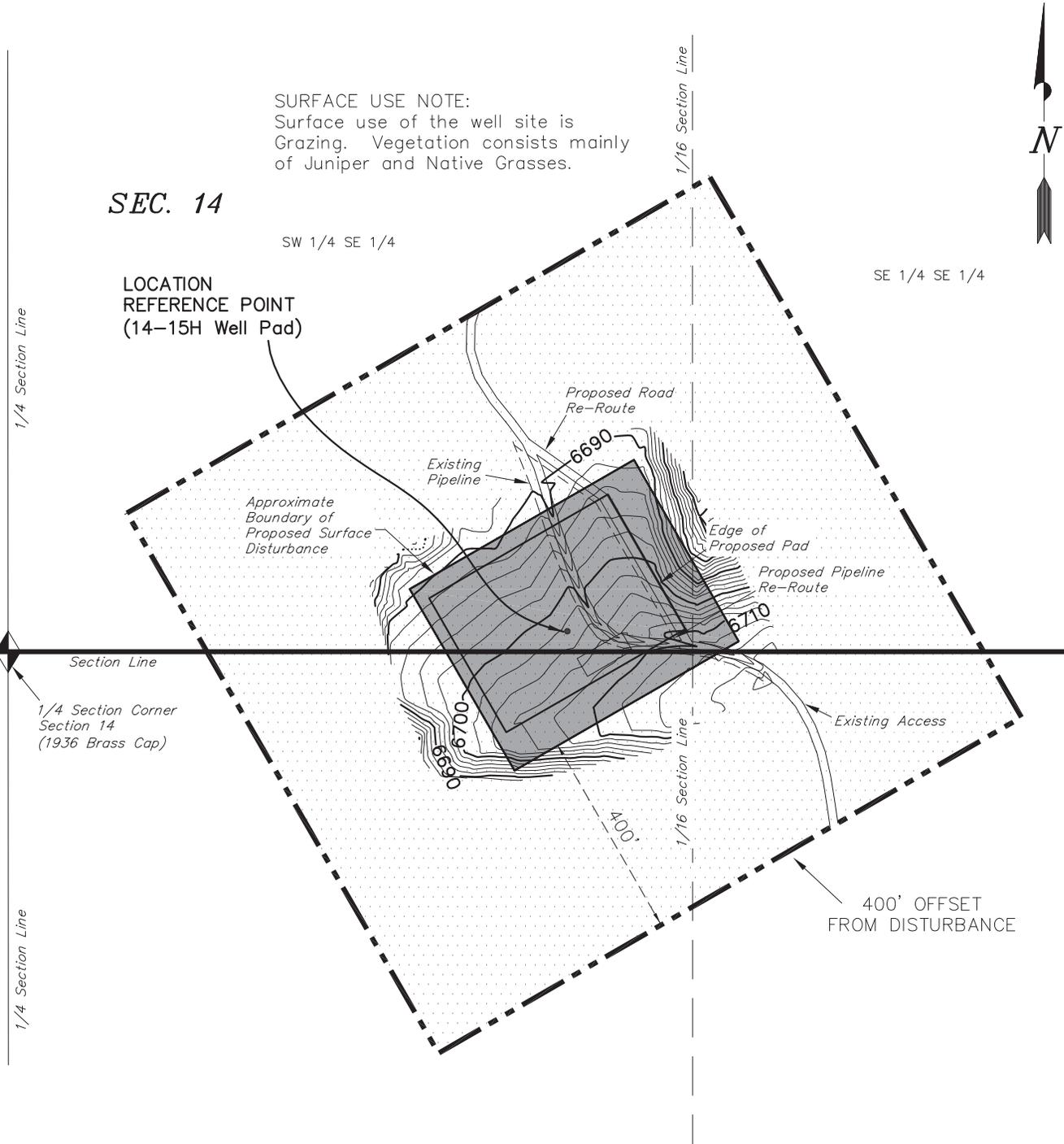
\_\_\_\_\_  
Habib J. Guerrero  
Operations Engineer  
Robert L. Bayless, Producer LLC

March 30, 2012  
Date

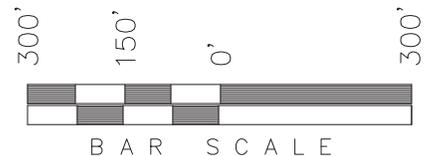
# ROBERT L. BAYLESS, PRODUCER LLC.

## ADDENDUM DRAWING WEAVER RIDGE 14-15H

Pad Location: SWSE SECTION 14, T1S, R104W, 6th P.M.



Distances from Well Head				
WELL	BUILDING	ABOVE GROUND UTILITY	PUBLIC ROAD	RAILROAD
14-15H	N13°E 5.9 MILES	N13°E 5.9 MILES	N13°E 5.9 MILES	N01°E 12.7 MILES



SURVEYED BY:	K.S.	DATE SURVEYED:	12-15-11
DRAWN BY:	M.W.	DATE DRAWN:	12-29-11
SCALE:	1" = 300'	REVISED:	M.W. - 03-27-12

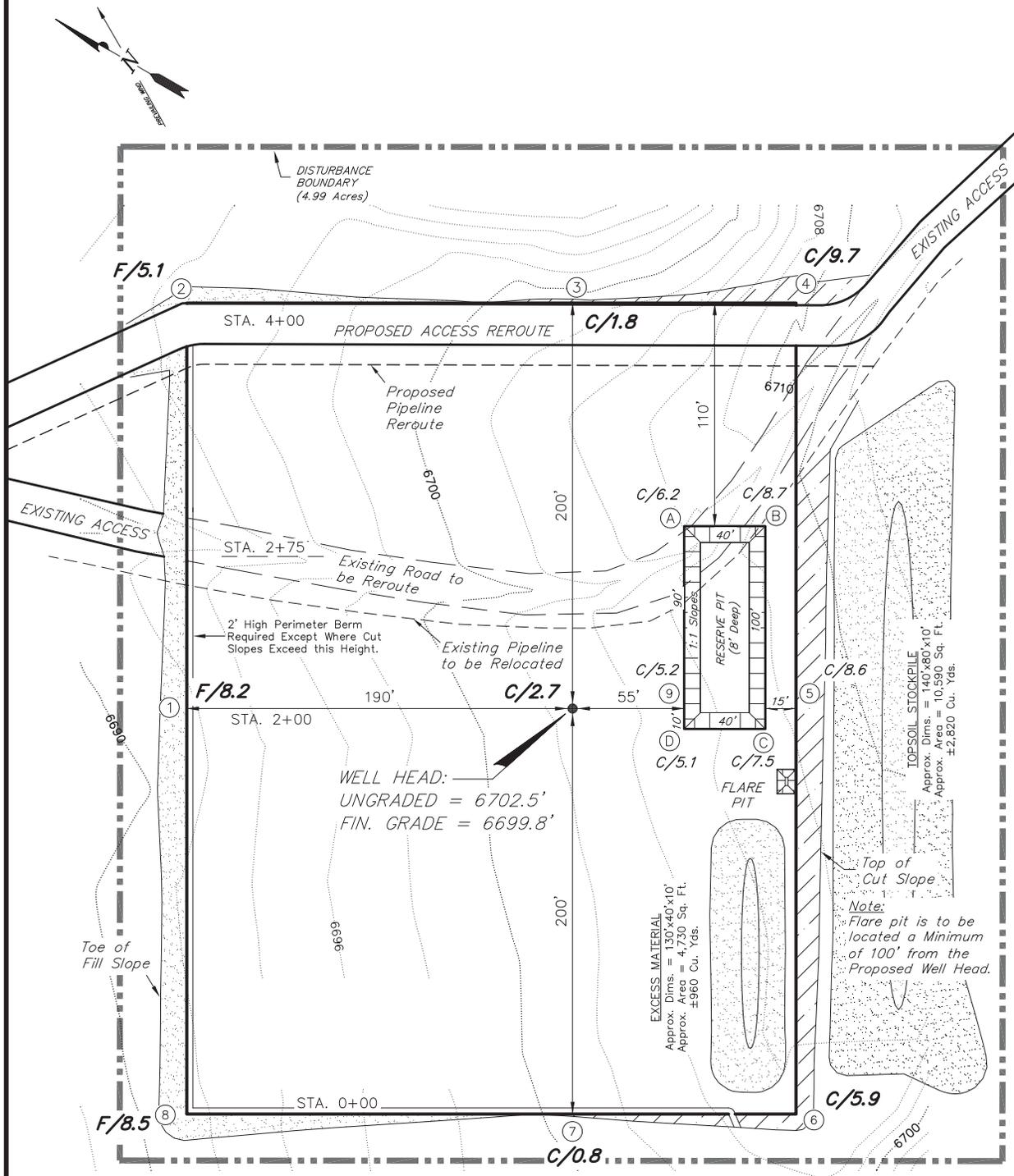
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**ROBERT L. BAYLESS, PRODUCER LLC.**

PROPOSED LOCATION LAYOUT

WEAVER RIDGE 14-15H

Pad Location: SWSE Section 14, T1S, R104W, 6th P.M.



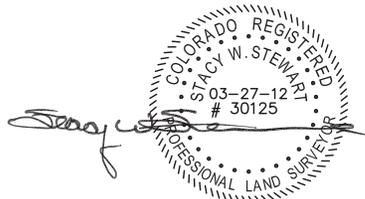
WELL HEAD:  
UNGRADED = 6702.5'  
FIN. GRADE = 6699.8'

EXCESS MATERIAL  
Approx. Dims = 130' x 40' x 10'  
Approx. Area = 4,730 Sq. Ft.  
Approx. ±960 Cu. Yds.

TOPSOIL STOCKPILE  
Approx. Dims = 140' x 80' x 10'  
Approx. Area = 10,590 Sq. Ft.  
Approx. ±2,820 Cu. Yds.

Note:  
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

- REFERENCE POINTS
- 250' SOUTHWESTERLY - 6699.2'
  - 300' SOUTHWESTERLY - 6696.0'
  - 240' NORTHWESTERLY - 6689.7'
  - 250' NORTHWESTERLY - 6687.6'



NOTE: The topsoil & excess material areas are calculated as being mounds containing 3,780 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

Note: Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

SURVEYED BY:	C.D.S.	DATE SURVEYED:	10-03-11
DRAWN BY:	F.T.M.	DATE DRAWN:	10-06-11
SCALE:	1" = 50'	REVISED:	M.W. - 03-27-12

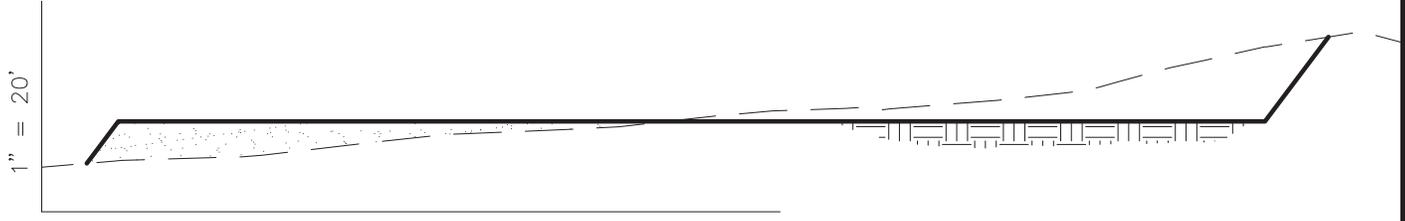
Tri State Land Surveying, Inc. (435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**ROBERT L. BAYLESS, PRODUCER LLC.**

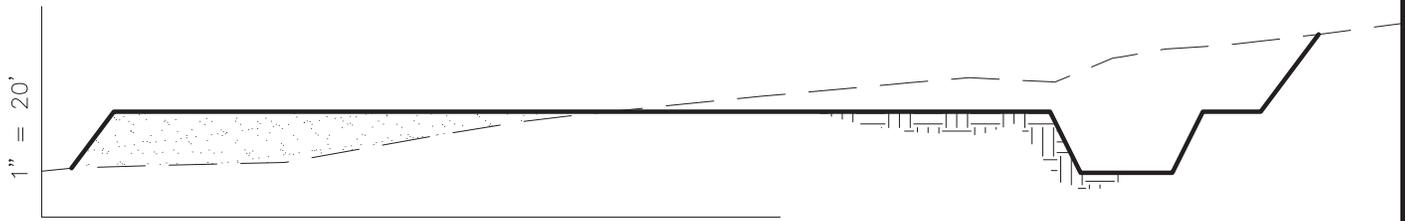
CROSS SECTIONS

**WEAVER RIDGE 14-15H**

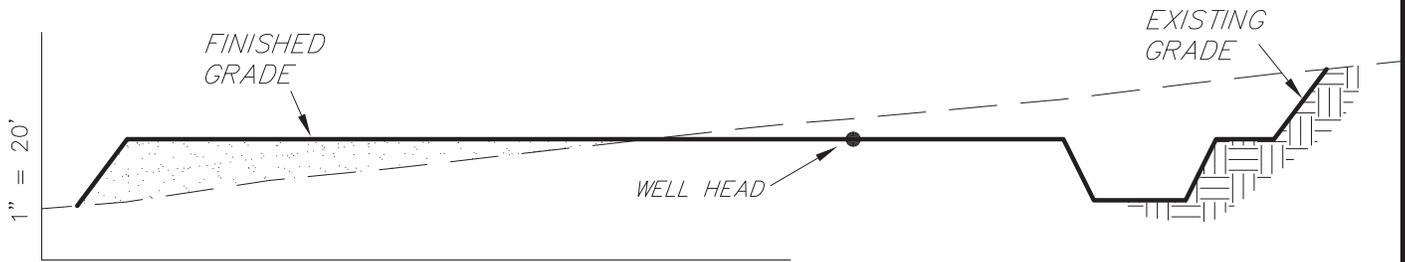
Pad Location: SWSE Section 14, T1S, R104W, 6th P.M.



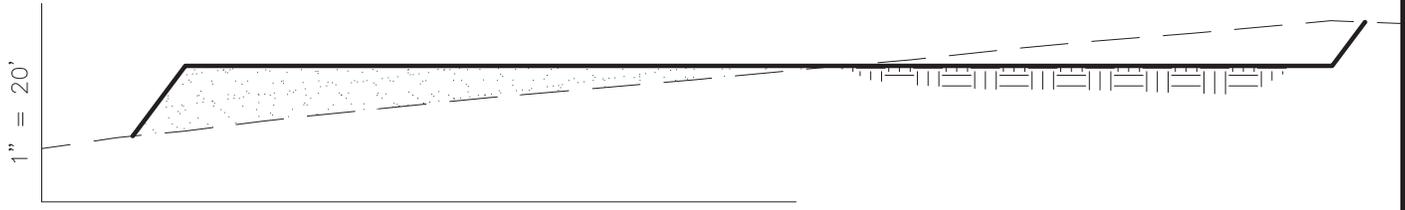
1" = 20'  
1" = 50' STA. 4+00



1" = 20'  
1" = 50' STA. 2+75



1" = 20'  
1" = 50' STA. 2+00



1" = 20'  
1" = 50' STA. 0+00

*Stacy W. Stewart*  
 COLORADO REGISTERED  
 STACY W. STEWART  
 03-27-12  
 # 30125  
 PROFESSIONAL LAND SURVEYOR

NOTE:  
UNLESS OTHERWISE  
NOTED ALL CUT/FILL  
SLOPES ARE AT 1.5:1

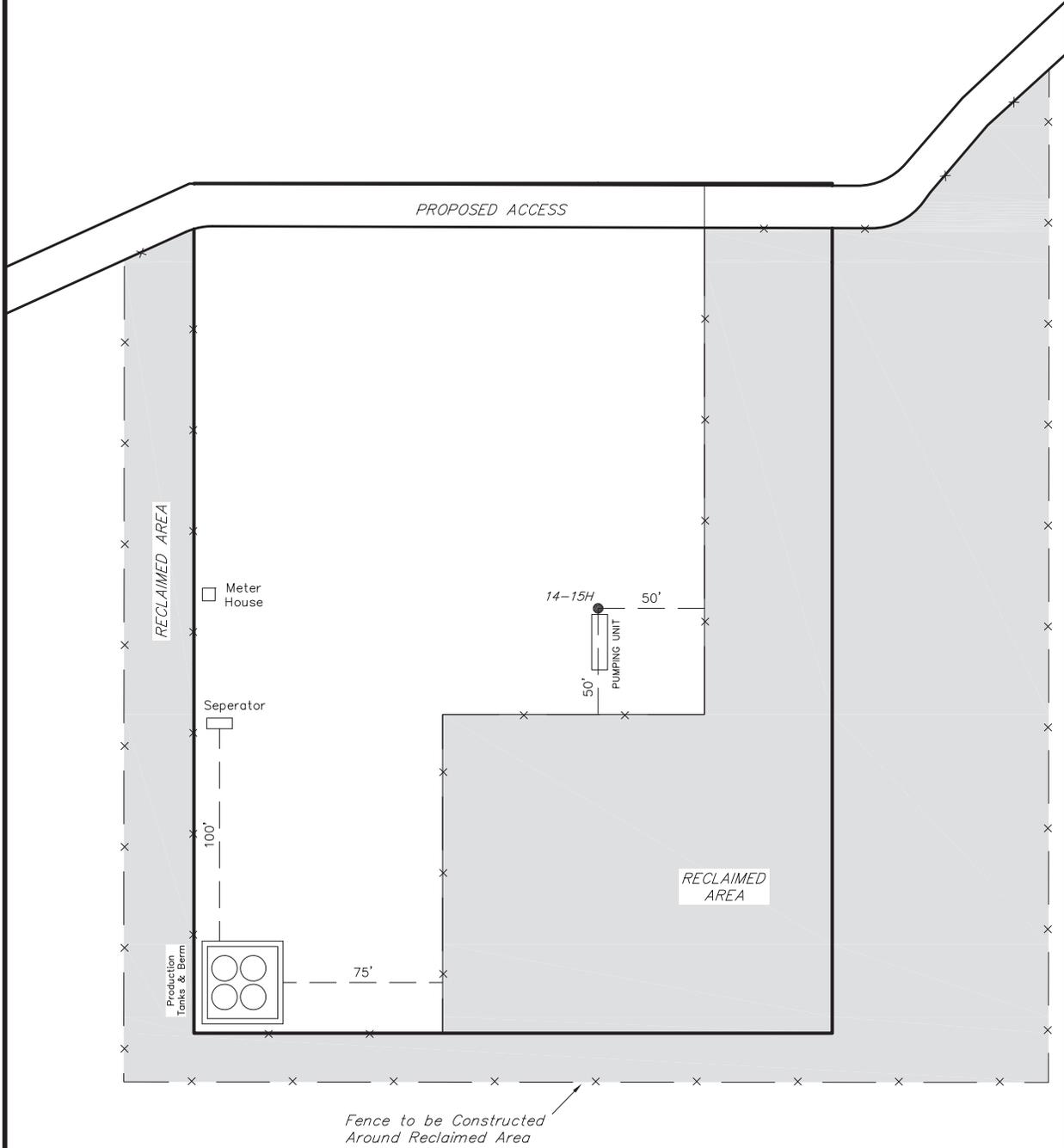
**ESTIMATED EARTHWORK QUANTITIES**  
 (No Shrink or swell adjustments have been used)  
 (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	9,400	9,400	Topsoil is not included in Pad Cut Volume	0
PIT	870	0		870
TOTALS	10,270	9,400	2,560	870

SURVEYED BY:	K.S.	DATE SURVEYED:	12-15-11
DRAWN BY:	M.W.	DATE DRAWN:	12-29-11
SCALE:	1" = 50'	REVISED:	M.W. - 03-27-12

**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**ROBERT L. BAYLESS, PRODUCER LLC.**  
 PROPOSED PRODUCTION SCHEMATIC AND INTERIM RECLAMATION PLAN  
 WEAVER RIDGE 14-15H  
 Pad Location: SWSE Section 14, T1S, R104W, 6th P.M.



- Notes:
1. Reclaimed area to include seeding of approved vegetation and sufficient storm water management system.
  2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change do to Production Requirements or Site Conditions.

DISTURBED AREA: \_\_\_\_\_  
 TOTAL DISTURBED AREA = 4.99 ACRES  
 TOTAL RECLAIMED AREA = 2.41 ACRES  
 UNRECLAIMED AREA = 2.58 ACRES

SURVEYED BY:	C.D.S.	DATE SURVEYED:	10-03-11
DRAWN BY:	F.T.M.	DATE DRAWN:	10-06-11
SCALE:	1" = 50'	REVISED:	M.W. - 03-27-12

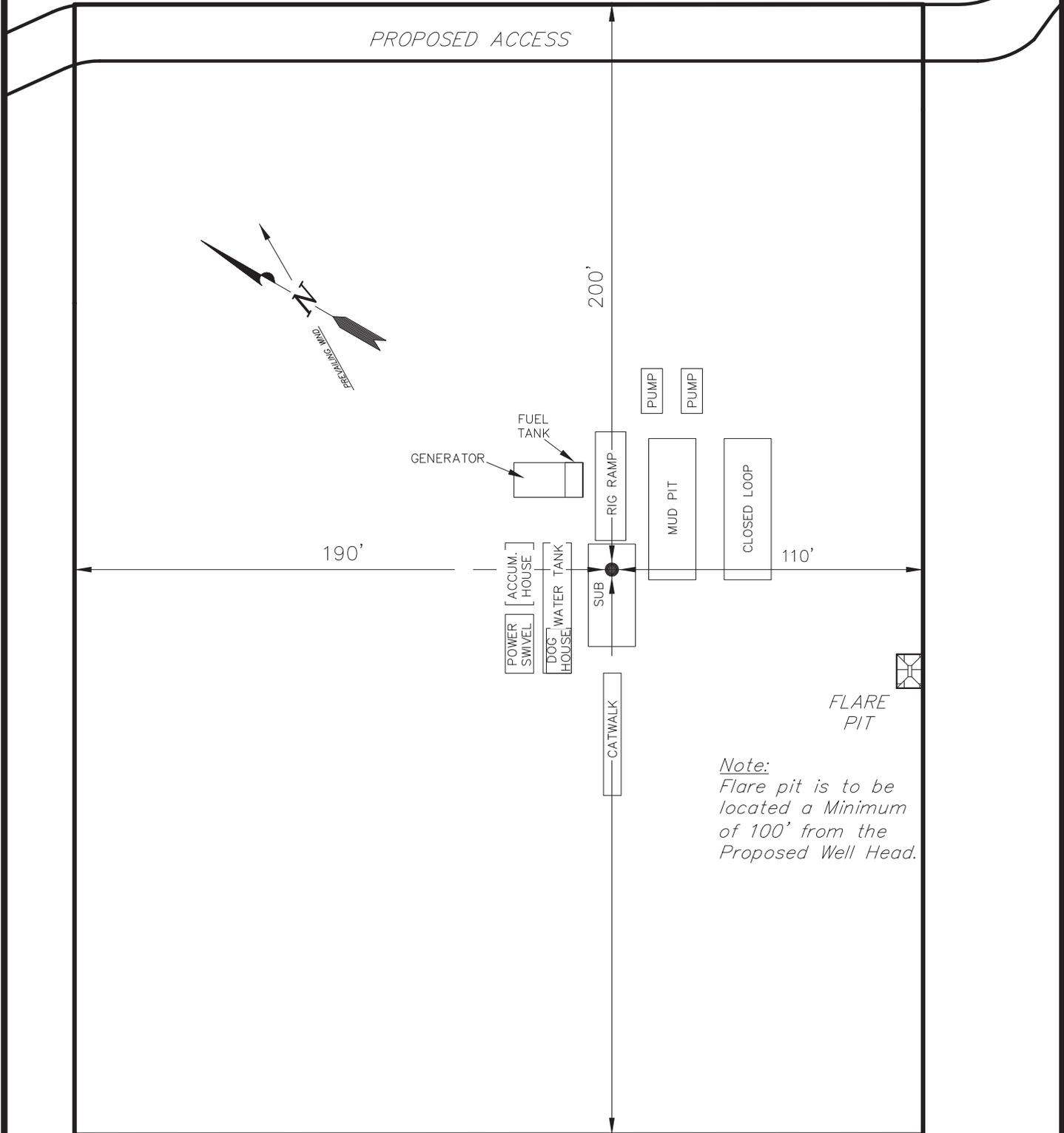
*Tri State*  
 Land Surveying, Inc.  
 (435) 781-2501  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**ROBERT L. BAYLESS, PRODUCER LLC.**

TYPICAL RIG LAYOUT – CLOSED LOOP

**WEAVER RIDGE 14-15H**

Pad Location: SWSE Section 14, T1S, R104W, 6th P.M.



*Note:*  
Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

SURVEYED BY:	K.S.	DATE SURVEYED:	12-15-11
DRAWN BY:	M.W.	DATE DRAWN:	12-29-11
SCALE:	1" = 50'	REVISED:	M.W. - 03-27-12

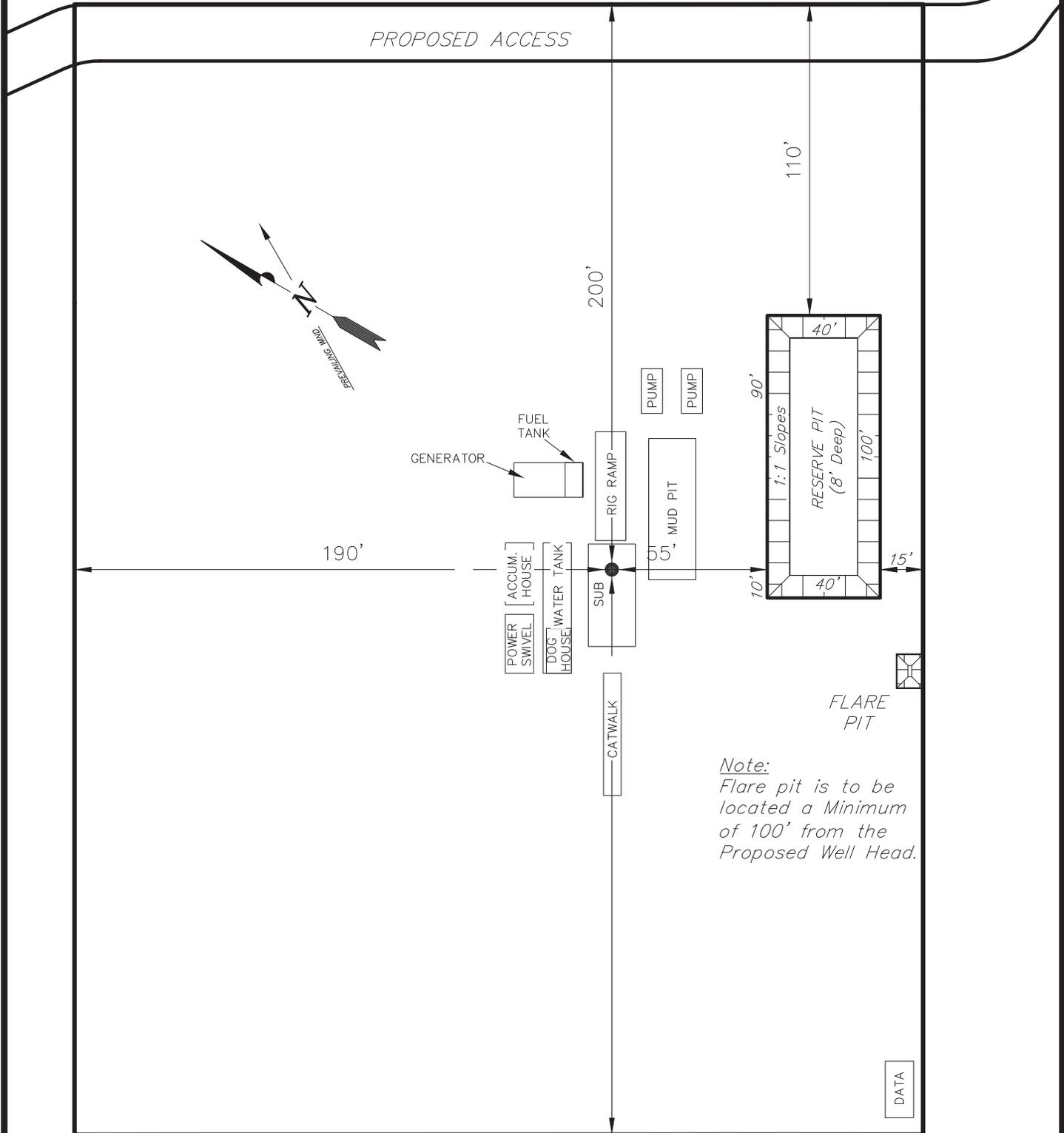
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**ROBERT L. BAYLESS, PRODUCER LLC.**

TYPICAL RIG LAYOUT

**WEAVER RIDGE 14-15H**

Pad Location: SWSE Section 14, T1S, R104W, 6th P.M.



SURVEYED BY:	K.S.	DATE SURVEYED:	12-15-11
DRAWN BY:	M.W.	DATE DRAWN:	12-29-11
SCALE:	1" = 50'	REVISED:	M.W. - 03-27-12

(435) 781-2501

**Tri State**  
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078



# Robert L. Bayless, Producer LLC.

Weaver Ridge 14-15H  
 Sec14 T01S R104W  
 Rio Blanco Co., CO

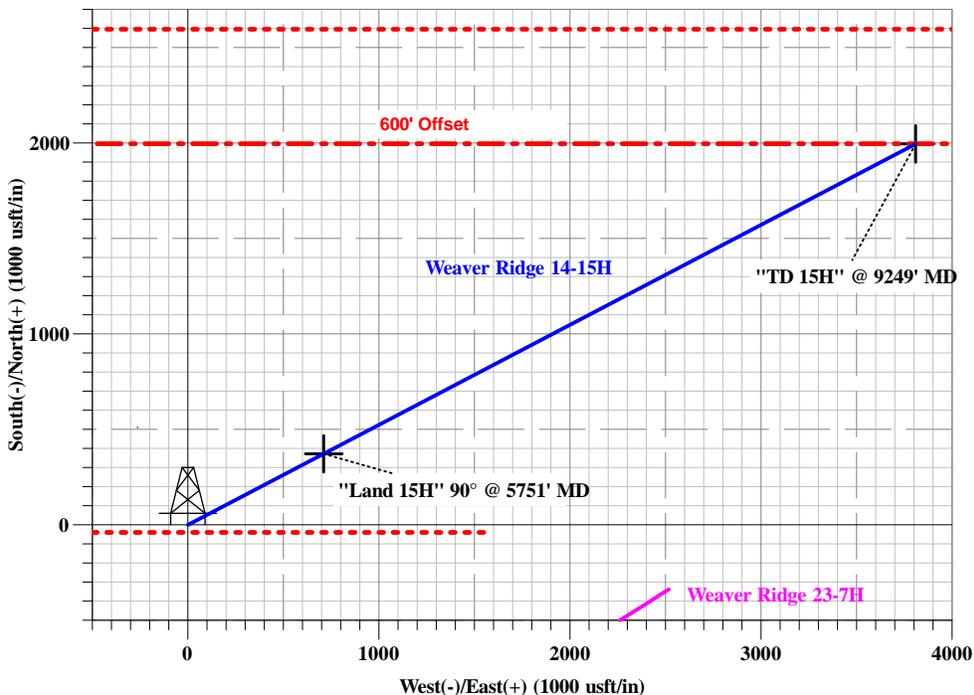
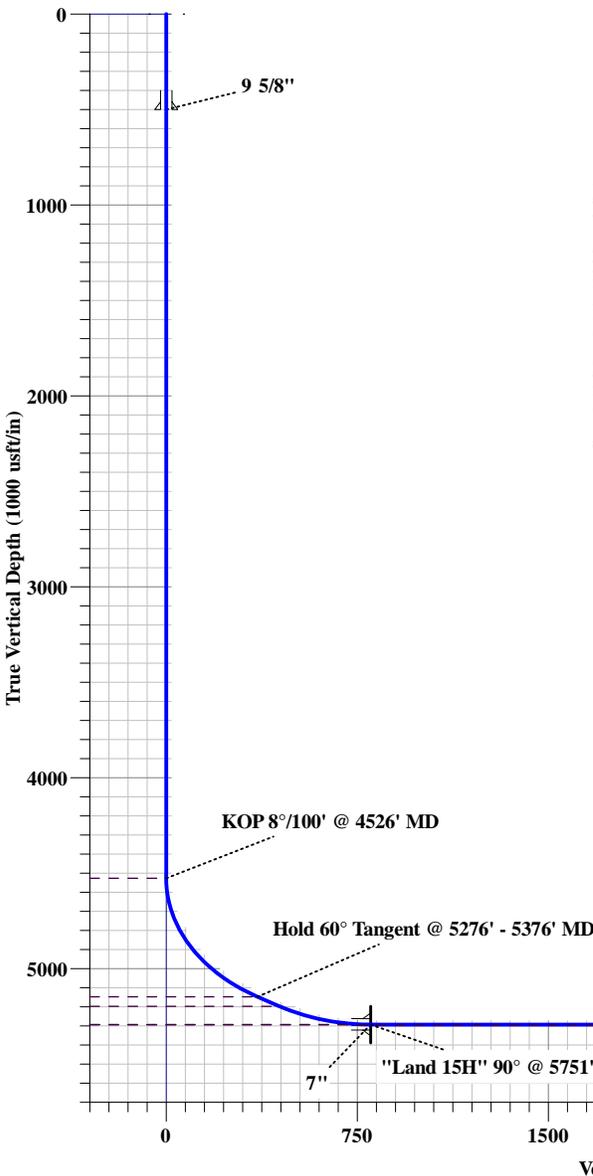


GE: 6703'/ KB: 12'

CASING DETAILS		
TVD	MD	Name
500.0	500.0	9 5/8"
5293.0	5751.8	7"

### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL - 15H	5293.0	1995.4	3809.3	Point
Land - 15H	5293.0	372.5	711.1	Point



WELL DETAILS: Weaver Ridge 14-15H				
		Ground Level: 6703.0		
Northing	Easting	Latitude	Longitude	
1245836.33	2010050.68	39° 57' 14.670 N	109° 1' 55.744 W	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
4526.8	0.00	0.00	4526.8	0.0	0.0	0.00	0.00	0.0	
5276.8	60.00	62.35	5147.0	166.2	317.2	8.00	62.35	358.1	
5376.8	60.00	62.35	5197.0	206.4	393.9	0.00	0.00	444.7	
5751.8	90.00	62.35	5293.0	372.5	711.1	8.00	0.00	802.8	
9249.3	90.00	62.35	5293.0	1995.4	3809.3	0.00	0.00	4300.3	BHL - 15H



# **Robert L. Bayless, Producer LLC.**

Rio Blanco Co., CO

Sec14 T01S R104W

Weaver Ridge 14-15H

Wellbore #1

Plan: Design #5

## **Standard Planning Report**

28 March, 2012



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Weaver Ridge 14-15H
<b>Company:</b>	Robert L. Bayless, Producer LLC.	<b>TVD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Project:</b>	Rio Blanco Co., CO	<b>MD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Site:</b>	Sec14 T01S R104W	<b>North Reference:</b>	True
<b>Well:</b>	Weaver Ridge 14-15H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #5		

<b>Project</b>	Rio Blanco Co., CO		
<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		

<b>Site</b>	Sec14 T01S R104W				
<b>Site Position:</b>		<b>Northing:</b>	1,245,836.33 usft	<b>Latitude:</b>	39° 57' 14.670 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,010,050.68 usft	<b>Longitude:</b>	109° 1' 55.744 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-2.28 °

<b>Well</b>	Weaver Ridge 14-15H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	1,245,836.33 usft	<b>Latitude:</b>	39° 57' 14.670 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	2,010,050.68 usft	<b>Longitude:</b>	109° 1' 55.744 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	6,703.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2012/02/01	10.79	65.90	52,291

<b>Design</b>	Design #5			
<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>
	0.0	0.0	0.0	62.35

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (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	0.0	0.0	0.00	0.00	0.00	0.00	
4,526.8	0.00	0.00	4,526.8	0.0	0.0	0.00	0.00	0.00	0.00	
5,276.8	60.00	62.35	5,147.0	166.2	317.2	8.00	8.00	0.00	62.35	
5,376.8	60.00	62.35	5,197.0	206.4	393.9	0.00	0.00	0.00	0.00	
5,751.8	90.00	62.35	5,293.0	372.5	711.1	8.00	8.00	0.00	0.00	
9,249.3	90.00	62.35	5,293.0	1,995.4	3,809.3	0.00	0.00	0.00	0.00	BHL - 15H



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Weaver Ridge 14-15H
<b>Company:</b>	Robert L. Bayless, Producer LLC.	<b>TVD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Project:</b>	Rio Blanco Co., CO	<b>MD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Site:</b>	Sec14 T01S R104W	<b>North Reference:</b>	True
<b>Well:</b>	Weaver Ridge 14-15H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #5		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (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	0.0	0.0	0.0	0.00	0.00	0.00
12.0	0.00	0.00	12.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Green River</b>									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>9 5/8"</b>									
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,001.0	0.00	0.00	2,001.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Wasatch</b>									
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,418.0	0.00	0.00	2,418.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>MesaVerde</b>									
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,509.0	0.00	0.00	3,509.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Upper Segro</b>									
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,713.0	0.00	0.00	3,713.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Lower Segro</b>									
3,782.0	0.00	0.00	3,782.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Buck Tongue</b>									
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Weaver Ridge 14-15H
<b>Company:</b>	Robert L. Bayless, Producer LLC.	<b>TVD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Project:</b>	Rio Blanco Co., CO	<b>MD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Site:</b>	Sec14 T01S R104W	<b>North Reference:</b>	True
<b>Well:</b>	Weaver Ridge 14-15H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #5		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,007.0	0.00	0.00	4,007.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>Castlegate</b>										
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,137.0	0.00	0.00	4,137.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>Mancos</b>										
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,526.8	0.00	0.00	4,526.8	0.0	0.0	0.0	0.00	0.00	0.00	
<b>KOP 8°/100' @ 4526' MD</b>										
4,550.0	1.86	62.35	4,550.0	0.2	0.3	0.4	8.00	8.00	0.00	
4,600.0	5.86	62.35	4,599.9	1.7	3.3	3.7	8.00	8.00	0.00	
4,650.0	9.86	62.35	4,649.4	4.9	9.4	10.6	8.00	8.00	0.00	
4,700.0	13.86	62.35	4,698.3	9.7	18.5	20.8	8.00	8.00	0.00	
4,750.0	17.86	62.35	4,746.4	16.0	30.6	34.5	8.00	8.00	0.00	
4,800.0	21.86	62.35	4,793.4	23.9	45.6	51.5	8.00	8.00	0.00	
4,850.0	25.86	62.35	4,839.1	33.3	63.5	71.7	8.00	8.00	0.00	
4,900.0	29.86	62.35	4,883.3	44.1	84.2	95.1	8.00	8.00	0.00	
4,940.6	33.11	62.35	4,918.0	54.0	103.0	116.3	8.00	8.00	0.00	
<b>Mancos A</b>										
4,950.0	33.86	62.35	4,925.8	56.3	107.6	121.4	8.00	8.00	0.00	
5,000.0	37.86	62.35	4,966.3	69.9	133.5	150.7	8.00	8.00	0.00	
5,050.0	41.86	62.35	5,004.7	84.8	161.9	182.8	8.00	8.00	0.00	
5,100.0	45.86	62.35	5,040.7	100.9	192.6	217.4	8.00	8.00	0.00	
5,150.0	49.86	62.35	5,074.3	118.1	225.4	254.5	8.00	8.00	0.00	
5,200.0	53.86	62.35	5,105.2	136.3	260.2	293.8	8.00	8.00	0.00	
5,250.0	57.86	62.35	5,133.2	155.5	296.9	335.1	8.00	8.00	0.00	
5,276.8	60.00	62.35	5,147.0	166.2	317.2	358.1	8.00	8.00	0.00	
<b>Hold 60° Tangent @ 5276' - 5376' MD</b>										
5,284.7	60.00	62.35	5,151.0	169.3	323.3	364.9	0.00	0.00	0.00	
<b>Mancos B</b>										
5,300.0	60.00	62.35	5,158.6	175.5	335.0	378.2	0.00	0.00	0.00	
5,376.8	60.00	62.35	5,197.0	206.4	393.9	444.7	0.00	0.00	0.00	
<b>Build 8°/100' @ 5376' MD</b>										
5,400.0	61.86	62.35	5,208.3	215.8	411.9	465.0	8.00	8.00	0.00	
5,450.0	65.86	62.35	5,230.3	236.6	451.6	509.9	8.00	8.00	0.00	
5,500.0	69.86	62.35	5,249.2	258.1	492.7	556.2	8.00	8.00	0.00	
5,550.0	73.86	62.35	5,264.8	280.1	534.7	603.7	8.00	8.00	0.00	
5,565.9	75.13	62.35	5,269.0	287.2	548.3	618.9	8.00	8.00	0.00	
<b>MnB Basal SS</b>										
5,600.0	77.86	62.35	5,277.0	302.6	577.7	652.1	8.00	8.00	0.00	
5,650.0	81.86	62.35	5,285.8	325.4	621.3	701.3	8.00	8.00	0.00	
5,700.0	85.86	62.35	5,291.1	348.5	665.3	751.0	8.00	8.00	0.00	
5,714.0	86.97	62.35	5,292.0	355.0	677.6	765.0	8.00	8.00	0.00	
<b>Target</b>										
5,751.8	90.00	62.35	5,293.0	372.5	711.1	802.8	8.00	8.00	0.00	
<b>"Land 15H" 90° @ 5751' MD - 7"</b>										
5,800.0	90.00	62.35	5,293.0	394.9	753.8	851.0	0.00	0.00	0.00	
5,900.0	90.00	62.35	5,293.0	441.3	842.4	951.0	0.00	0.00	0.00	
6,000.0	90.00	62.35	5,293.0	487.7	931.0	1,051.0	0.00	0.00	0.00	
6,100.0	90.00	62.35	5,293.0	534.1	1,019.6	1,151.0	0.00	0.00	0.00	



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Weaver Ridge 14-15H
<b>Company:</b>	Robert L. Bayless, Producer LLC.	<b>TVD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Project:</b>	Rio Blanco Co., CO	<b>MD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Site:</b>	Sec14 T01S R104W	<b>North Reference:</b>	True
<b>Well:</b>	Weaver Ridge 14-15H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #5		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,200.0	90.00	62.35	5,293.0	580.5	1,108.2	1,251.0	0.00	0.00	0.00	
6,300.0	90.00	62.35	5,293.0	626.9	1,196.7	1,351.0	0.00	0.00	0.00	
6,400.0	90.00	62.35	5,293.0	673.3	1,285.3	1,451.0	0.00	0.00	0.00	
6,500.0	90.00	62.35	5,293.0	719.7	1,373.9	1,551.0	0.00	0.00	0.00	
6,600.0	90.00	62.35	5,293.0	766.1	1,462.5	1,651.0	0.00	0.00	0.00	
6,700.0	90.00	62.35	5,293.0	812.5	1,551.1	1,751.0	0.00	0.00	0.00	
6,800.0	90.00	62.35	5,293.0	858.9	1,639.7	1,851.0	0.00	0.00	0.00	
6,900.0	90.00	62.35	5,293.0	905.3	1,728.2	1,951.0	0.00	0.00	0.00	
7,000.0	90.00	62.35	5,293.0	951.7	1,816.8	2,051.0	0.00	0.00	0.00	
7,100.0	90.00	62.35	5,293.0	998.1	1,905.4	2,151.0	0.00	0.00	0.00	
7,200.0	90.00	62.35	5,293.0	1,044.5	1,994.0	2,251.0	0.00	0.00	0.00	
7,300.0	90.00	62.35	5,293.0	1,090.9	2,082.6	2,351.0	0.00	0.00	0.00	
7,400.0	90.00	62.35	5,293.0	1,137.3	2,171.2	2,451.0	0.00	0.00	0.00	
7,500.0	90.00	62.35	5,293.0	1,183.7	2,259.7	2,551.0	0.00	0.00	0.00	
7,600.0	90.00	62.35	5,293.0	1,230.1	2,348.3	2,651.0	0.00	0.00	0.00	
7,700.0	90.00	62.35	5,293.0	1,276.5	2,436.9	2,751.0	0.00	0.00	0.00	
7,800.0	90.00	62.35	5,293.0	1,322.9	2,525.5	2,851.0	0.00	0.00	0.00	
7,900.0	90.00	62.35	5,293.0	1,369.3	2,614.1	2,951.0	0.00	0.00	0.00	
8,000.0	90.00	62.35	5,293.0	1,415.7	2,702.6	3,051.0	0.00	0.00	0.00	
8,100.0	90.00	62.35	5,293.0	1,462.1	2,791.2	3,151.0	0.00	0.00	0.00	
8,200.0	90.00	62.35	5,293.0	1,508.5	2,879.8	3,251.0	0.00	0.00	0.00	
8,300.0	90.00	62.35	5,293.0	1,554.9	2,968.4	3,351.0	0.00	0.00	0.00	
8,400.0	90.00	62.35	5,293.0	1,601.3	3,057.0	3,451.0	0.00	0.00	0.00	
8,500.0	90.00	62.35	5,293.0	1,647.7	3,145.6	3,551.0	0.00	0.00	0.00	
8,600.0	90.00	62.35	5,293.0	1,694.1	3,234.1	3,651.0	0.00	0.00	0.00	
8,700.0	90.00	62.35	5,293.0	1,740.5	3,322.7	3,751.0	0.00	0.00	0.00	
8,800.0	90.00	62.35	5,293.0	1,786.9	3,411.3	3,851.0	0.00	0.00	0.00	
8,900.0	90.00	62.35	5,293.0	1,833.3	3,499.9	3,951.0	0.00	0.00	0.00	
9,000.0	90.00	62.35	5,293.0	1,879.8	3,588.5	4,051.0	0.00	0.00	0.00	
9,100.0	90.00	62.35	5,293.0	1,926.2	3,677.1	4,151.0	0.00	0.00	0.00	
9,200.0	90.00	62.35	5,293.0	1,972.6	3,765.6	4,251.0	0.00	0.00	0.00	
9,249.3	90.00	62.35	5,293.0	1,995.4	3,809.3	4,300.3	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BHL - 15H - plan hits target center - Shape	0.00	0.00	5,293.0	1,995.4	3,809.3	1,247,678.47	2,013,936.38	39° 57' 34.387 N	109° 1' 6.823 W	
Land - 15H - plan hits target center - Point	0.00	0.00	5,293.0	372.5	711.1	1,246,180.22	2,010,776.05	39° 57' 18.351 N	109° 1' 46.612 W	



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Weaver Ridge 14-15H
<b>Company:</b>	Robert L. Bayless, Producer LLC.	<b>TVD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Project:</b>	Rio Blanco Co., CO	<b>MD Reference:</b>	WELL @ 6715.0usft (Original Well Elev)
<b>Site:</b>	Sec14 T01S R104W	<b>North Reference:</b>	True
<b>Well:</b>	Weaver Ridge 14-15H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #5		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")
500.0	500.0	9 5/8"		9-5/8	12-1/4
5,751.8	5,293.0	7"		7	8-3/4

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
12.0	12.0	Green River		0.00		
2,001.0	2,001.0	Wasatch		0.00		
2,418.0	2,418.0	MesaVerde		0.00		
3,509.0	3,509.0	Upper Segó		0.00		
3,713.0	3,713.0	Lower Segó		0.00		
3,782.0	3,782.0	Buck Tongue		0.00		
4,007.0	4,007.0	Castlegate		0.00		
4,137.0	4,137.0	Mancos		0.00		
4,940.6	4,918.0	Mancos A		0.00		
5,284.7	5,151.0	Mancos B		0.00		
5,565.9	5,269.0	MnB Basal SS		0.00		
5,714.0	5,292.0	Target		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,526.8	4,526.8	0.0	0.0	KOP 8°/100' @ 4526' MD	
5,276.8	5,147.0	166.2	317.2	Hold 60° Tangent @ 5276' - 5376' MD	
5,376.8	5,197.0	206.4	393.9	Build 8°/100' @ 5376' MD	
5,751.8	5,293.0	372.5	711.1	"Land 15H" 90° @ 5751' MD	
9,249.3	5,293.0	1,995.4	3,809.3	"TD 15H" @ 9249' MD	

**ROBERT L. BAYLESS, PRODUCER LLC**

**WEAVER RIDGE 14-15H**

**SHL: 39' FSL & 1564' FEL (SWSE) Section 14, T1S R104W**

**BHL: 2040' FSL & 2246' FWL (NESW) Section 13, T1S R104W**

Rio Blanco County, Colorado

**SURFACE USE PLAN - EXHIBIT 9**

**Water Source & Delivery Information (Per BLM Onshore Order # 1)**

<b>Water Use Operation</b>	<b>Volume per Well (Bbl-Est)</b>	<b>Volume per WellPad (Bbl-Est)</b>	<b>Water Type</b>	<b>Water Delivery Method</b>	<b>Water Source</b>	<b>Comments</b>
<b>construction</b>	N/A	5000	Fresh	Truck	Rangely City Water supply	See Haul Route Map Exhibit 1B
<b>Dust Abatement</b>	N/A	2000	Fresh	Truck	Rangely City Water supply	See Haul Route Map Exhibit 1B
<b>Drilling (Conductor &amp; Surface)</b>	1000	N/A	Fresh	Truck	Rangely City Water supply	See Haul Route Map Exhibit 1B
<b>Drilling (Intermd &amp; Production)</b>	4000	N/A	Fresh	Truck	Rangely City Water supply	See Haul Route Map Exhibit 1B
<b>Completion</b>	12000	N/A	Fresh/Produced	Truck	Rangely City Water supply	See Haul Route Map Exhibit 1B

**FUTURE WELLS (AT LEAST 1 MORE) - SIMILAR WELLBORE PROFILE ===**

# **Robert L. Bayless, Producer LLC**

## **EXHIBITS LIST**

(Attachment to Form 3160-3)

### **Weaver Ridge 14-15H**

SHL: 39' FSL & 1564' FEL (SWSE) Section 14, T1S R104W  
BHL: 2040' FSL & 2246' FWL (NESW) Section 13, T1S R104W  
Rio Blanco County, Colorado  
Federal Lease: COC-058704

- EXHIBIT 1. Well Location Plat
- EXHIBIT 1A. Well Pad Interference Plat
- EXHIBIT 1B. Location Access Road and Directions Map
- EXHIBIT 1C. Proposed New (re-rerouted) Road
- EXHIBIT 1D. Proposed New (re-located) Pipeline
- EXHIBIT 2. Surface Casing and Centralizer Design
- EXHIBIT 3. BOP and Choke Manifold diagram
- EXHIBIT 4. Location area Topo Map
- EXHIBIT 4A. Bayless Mineral Lease Map
- EXHIBIT 4B. One Mile Radius Map
- EXHIBIT 4C. Location Aerial Map
- EXHIBIT 4D. Location Hydrology Map
- EXHIBIT 5. Proposed Location Layout
- EXHIBIT 5A. Proposed Wellpad Layout
- EXHIBIT 5B. Cross Sections.
- EXHIBIT 5C. Interim Reclamation -SWBMP Plan
- EXHIBIT 6. Drilling Rig Layout – Closed Loop
- EXHIBIT 6A. Drilling Rig Layout – Reserve Pit
- EXHIBIT 7. BMP – Reclamation and Rehabilitation Plan
- EXHIBIT 8. Directional Drilling plan
- EXHIBIT 9. Anticipated Water Sources and Estimated Water Volumes
- SHEET P1-P3. Location Pictures