



***Enduring Resources***

475 17<sup>th</sup> Street Suite 1500 Denver Colorado 80202  
Telephone 303 573-1222 Fax 303 573 0461

December 8, 2005

Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Attn.: Ms. Diana Whitney

RE: Archy Bench #11-22-13-1  
NWSW Sec 1 T11S-R22E  
Uintah County, Utah

Dear Ms. Whitney:

Enclosed is an original application to drill concerning the above-referenced proposed well. This information was also submitted to the Bureau of Land Management.

Enduring Resources, LLC is requesting the Utah Division of Oil, Gas and Mining to hold this application and all future information as confidential.

If any questions arise or additional information is required, please contact me at 303-350-5114.

Very truly yours,

**ENDURING RESOURCES, LLC**

Alvin R. (Al) Arlian  
Landman-Regulatory Specialist

ara  
Enclosures:

**RECEIVED**  
**DEC 12 2005**  
DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: <b>UTU-73903</b>	6. SURFACE: Federal
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>Enduring Resources, LLC</b>			9. WELL NAME and NUMBER: <b>Archy Bench 11-22-13-1</b>	
3. ADDRESS OF OPERATOR: <b>475 17th St., Ste 1500</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80220</b>		PHONE NUMBER: <b>(303) 350-5114</b>	10. FIELD AND POOL, OR WILDCAT: <b>Undesignated</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>848' FWL - 2047' FSL</b> AT PROPOSED PRODUCING ZONE: <b>Same</b>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 1 11S 22E S</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>37.7 miles southwest of Bonanza, UT</b>			12. COUNTY: <b>Uintah</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>848'</b>	16. NUMBER OF ACRES IN LEASE: <b>1341</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40 acres</b>		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>n/a none</b>	19. PROPOSED DEPTH: <b>8,120</b>	20. BOND DESCRIPTION: <b>RLB0008031</b>		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5788' RT-KB</b>	22. APPROXIMATE DATE WORK WILL START: <b>2/10/2006</b>	23. ESTIMATED DURATION: <b>20 days</b>		

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
20"	14" line pipe	40	3 yards	Ready Mix	
11"	8-5/8" J-55 24#	2,000	Premium Lead	138 sxs	3.50 11.1
			Premium Tail	138 sxs	1.15 15.8
7-7/8"	4-1/2" N-80 11.6#	8,120	Class G	130 sxs	3.3 11.0
			50/50 Poz Class G	898 sxs	1.56 14.3

CONFIDENTIAL

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

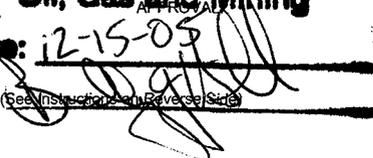
NAME (PLEASE PRINT) Alvin R. (AI) Arlian TITLE Landman - Regulatory Specialist

SIGNATURE  DATE 12/8/2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-37487

**Approved by the Utah Division of Oil, Gas and Mining**

Date: 12-15-05  
By: 

*Federal Approval of this Action is Necessary*

(11/2001)

**RECEIVED**  
**DEC 12 2005**  
DIV. OF OIL, GAS & MINING



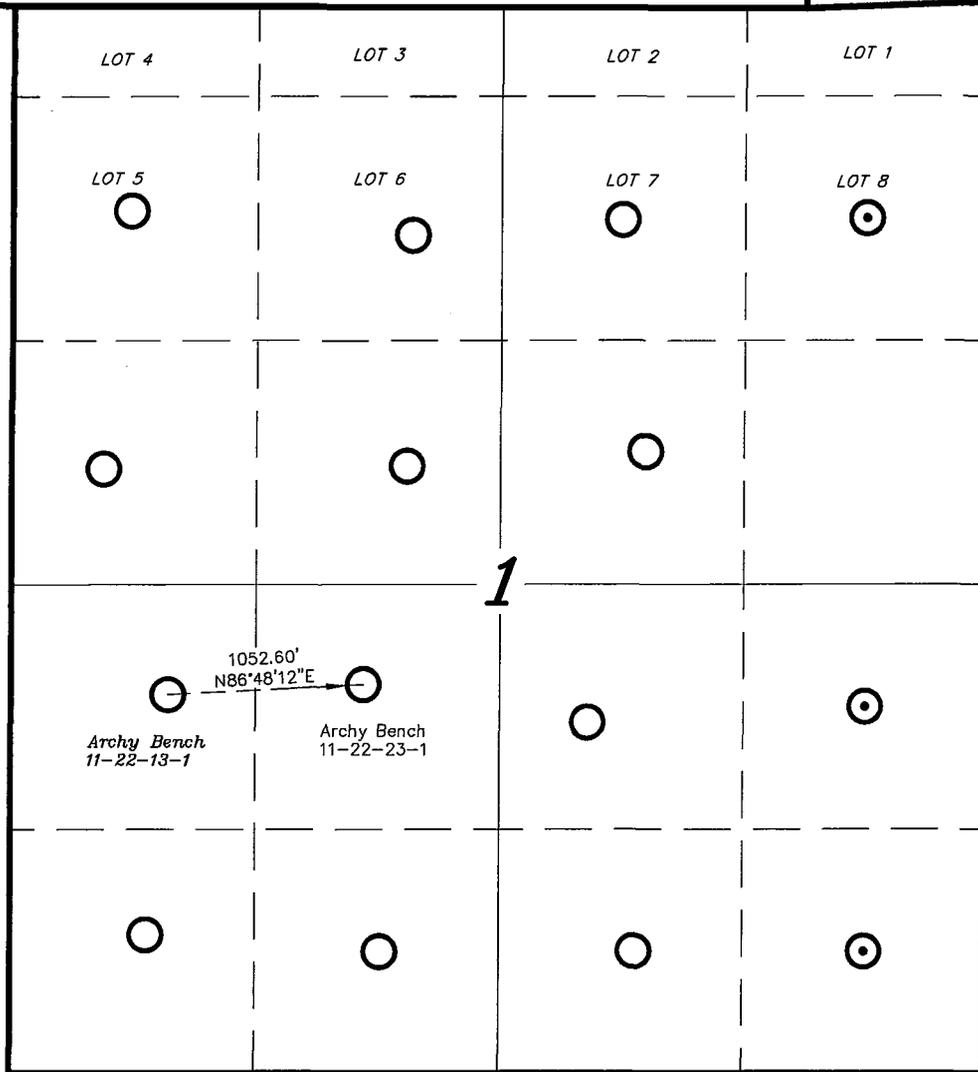
**T11S, R22E, S.L.B.&M.**

**ENDURING RESOURCES**

**SECTION DRILLING MAP  
ARCHY BENCH 11-22-13-1**

T10S

T11S



**LEGEND**

- = Vertical Well
- ⊙ = Directional Well Bottom Hole

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

DATE DRAWN: 6-1-05	SURVEYED BY: J.H.	<b>SHEET 1 OF 9</b>
REVISED:	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	

**Enduring Resources, LLC**  
**Archy Bench #11-22-13-1**  
**NWSW Sec. 1 T11S-R22E**  
**Uintah County, Utah**  
**Lease # UTU-073903**

**ONSHORE ORDER 1 - DRILLING PLAN**

**1. Estimated Tops of Geological Markers:**

Formation	Depth (K.B.)
Uinta	Surface
Green River	893'
Wasatch	3601'
Mesaverde	6088'

**2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals:**

Substance	Formation	Depth (K.B.)
	KB-Uinta Elevation: 5788'	
Oil / Gas	Green River	893'
Oil /Gas	Wasatch	3601'
Oil /Gas	Mesaverde	6088'
	Estimated TD	8120'

A 11" hole will be drilled to approximately 2000 feet. The depth will be determined by the depth that the Birds Nest zone is encountered. The hole will be drilled 400 feet beyond the top of the Birds Nest zone and surface casing will be set.

**3. Pressure Control Equipment: (3000 psi schematic attached)**

- A. Type: Eleven (11) inch double gate hydraulic BOP with eleven (11) inch annular preventer on 3,000 psi casinghead, with 3,000 psi choke manifold equipped per the attached diagram. BOPE as specified in *Onshore Oil & Gas Order Number 2*. A PVT, stroke counter and flow sensor will be installed to check for flow and monitor pit volume.
- B. Pressure Rating: 3,000 psi BOPE
- C. Kelly will be equipped with upper and lower Kelly valves.
- D. Testing Procedure: Annular Preventer

At a minimum, the annular preventer will be pressure tested to 50% of the stack rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

**Blow-Out Preventer**

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**E. Miscellaneous Information:**

The blowout preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*.

**4. Proposed Casing & Cementing Program:**

**A. Casing Program: All New**

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (MD)
20"	14" O.D.				40' (GL)
11"	8-5/8"	24#	J-55	ST&C	0 – 2,016' (KB) est.
7-7/8"	4-1/2"	11.6#	N-80	LT&C	0 – 8,120' (KB)

The surface casing will have guide shoe, 1 joint, insert float collar. Centralize the shoe joint with bowspring centralizers in the middle and top of the joint and the next 16 joints with bowspring centralizers on every other collar (8 centralizers total). Thread lock guide shoe.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

**B. Casing Design Parameters:**

Depth (MD)	Casing	Collapse(psi)/SF	Burst (psi)/SF	Tension(mlbs)/SF
40' (GL)	14" OD			
2016' (KB)	8-5/8", 24#/ft, J55, STC	1370/1.52(a)	2950/3.28(b)	244/5.81(c)
8120' (KB)	4-1/2", 11.6#/ft, N-80, LTC	6350/1.51 (d)	7780/2.00 (e)	223/2.75 (f)

- (a.) based on full evacuation of pipe with 8.6 ppg fluid on annulus
- (b.) based on 8.6 ppg gradient with no fluid on annulus
- (c.) based on casing string weight in 8.6 ppg mud
- (d.) based on full evacuation of pipe with 10.0 ppg fluid on annulus
- (e.) based on 9.2 ppg gradient, gas to surface, with no fluid on annulus, no gas gradient
- (f.) based on casing string weight in 9.2 ppg mud

**PROPOSED CEMENTING PROGRAM**

**Surface Casing (if well will circulate)-Cemented to surface**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	1516	Premium cement + 16% gel + 0.25 pps celloflake	138	25%	11.1	3.50
8-5/8"	Tail	500	Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake	138	25%	15.8	1.15

A cement top job is required if cement fallback is greater than 10' below ground level. Top job (weight 15.8 ppg, yield 1.15 ft<sup>3</sup>/sx) cement will be premium cement w/ 3% CaCl<sub>2</sub>.+0.25 pps celloflake. Volume as required

**Surface Casing (if well will not circulate) - Cemented to surface**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	500	Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake	138	25	15.8	1.15
8-5/8"	Top job	As req.	Premium cement + 3% CaCl <sub>2</sub> + 0.25 pps celloflake	As Req.		15.8	1.15

**Production Casing and Liner** - Cemented TD to 300' above base of surface casing

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
4-1/2"	Lead	1485	Class "G" + 5% NaCl + 12% Gel + 0.25 pps celloflake + 0.2% antifoam + 0.25% fluid loss + 1% extender	130	25	11.0	3.3
4-1/2"	Tail	4919	50/50 POZ Class G + 2% gel +1% CaCl <sub>2</sub> + 0.2% dispersant + 0.2% fluid loss + 0.1% antifoam	898	25	14.3	1.56

Cement volumes for the 4-1/2" Production Casing will be calculated to provide a top of cement to 300' above base of surface casing. Cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole. Actual cement types may vary due to hole conditions and cement contractor used.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

**5. Drilling Fluids (mud) Program:**

Interval (MD)	Mud Weight	Fluid Loss	Viscosity	Mud Type
0' - 2016' (KB)		No cntrl		Air/mist
2000'-3000' (KB)	8.4-8.6	No cntrl	28-36	Water
3000'-8120' (KB)	8.8-9.8	8 - 10 ml	32-42	Water/Gel

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

**6. Evaluation Program:**

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: No sampling is currently planned.

Logging

- Dual Induction – SFL /Gamma Ray/Caliper/SP/TDLT/CNL/ML  
TD to Base Surface Casing
- Cement Bond Log / Gamma Ray:  
TD to Base of Surface Casing or Top of Cement if below Base of Surface Casing

Stimulation: A stimulation or frac treatment will be designed for completion of this well based on openhole log analysis. The drill site, as approved, will be sufficient size to accommodate all completion activities.

**7. Abnormal Conditions:**

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 4,222 psi (calculated at 0.52psi/foot of hole) and maximum anticipated surface pressure equals approximately 2,436 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

**8. Anticipated Starting Dates:**

- Anticipated Commencement Date- Within one year of APD issue.
- Drilling Days- Approximately 10 days
- Completion Days - Approximately 10 days
- Anticipate location construction within 30 days of permit issue.

**9. Variances:**

None anticipated

**10. Other:**

A Cultural Resource Inventory and Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The reports shall be submitted to the Division of Oil, Gas and Mining and the School and Institutional Trust lands Administration upon their receipt.

Single Shot directional surveys will be dropped every 2000 feet to monitor hole angle.

**Enduring Resources, LLC  
Archy Bench #11-22-13-1  
NWSWW Sec. 1 - T11S-R22E  
Uintah County, Utah  
Lease # UTU-073903**

**Directions to the Archy Bench 11-22-13-1 Well Pad**

Beginning at the city of Bonanza, Utah: Leave the city of Bonanza heading southerly on state highway 45 for a distance of approximately 4.9 miles and turn left on to Road 4170 (Southam Canyon Road). Continue southwest on Road 4170 approximately 8.5 miles to Road 4160 (Asphalt Wash Road) and turn left. Continue south on Road 4160 approximately 9.5 miles until it intersects with Road 4120 (Bitter Creek Road). Turn right and go 1.9 miles on Road 4120 to Road 4230 (Saddletree Draw Road) and turn right. Go 4.8 miles on Road 4230 and turn left on to Road 4150 (Archy Bench Road). Go approximately 4.8 miles on Road 4150 to the turn-off point for the new access. Go left, 370 feet to the proposed well pad.

**Enduring Resources, LLC  
Archy Bench #11-22-13-1  
NWSW Sec. 1 - T11S-R22E  
Uintah County, Utah  
Lease # UTU-073903**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. Existing Roads:**

**Directions to the Archy Bench 11-22-13-1 Well Pad**

Beginning at the city of Bonanza, Utah: Leave the city of Bonanza heading southerly on state highway 45 for a distance of approximately 4.9 miles and turn left on to Road 4170 (Southam Canyon Road). Continue southwest on Road 4170 approximately 8.5 miles to Road 4160 (Asphalt Wash Road) and turn left. Continue south on Road 4160 approximately 9.5 miles until it intersects with Road 4120 (Bitter Creek Road). Turn right and go 1.9 miles on Road 4120 to Road 4230 (Saddletree Draw Road) and turn right. Go 4.8 miles on Road 4230 and turn left on to Road 4150 (Archy Bench Road). Go approximately 4.8 miles on Road 4150 to the turn-off point for the new access. Go left, 370 feet to the proposed well pad.

Total distance from Bonanza, Utah to the proposed well location is approximately 37.7 miles in a southwesterly direction.

**2. Planned Access Roads:**

The proposed access road will be approximately 370 feet of new construction (ON-LEASE). The balance of the ON-LEASE road is the Arch Bench Road and will not have to be improved. No new road will have to be built OFF-LEASE. Please refer to Topo Map "B" for the takeoff point for the new ON-LEASE road construction.

The proposed access road will be utilized to transport personnel, equipment and supplies to and from the proposed well site during drilling, completion and production operations. The road will be utilized year round.

The access road will be crowned 2% to 3%, ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet right-of-way. Maximum grade of road is 5% or less. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. No fence crossings, culverts, turnouts, cattle guards or major cuts and fills are required. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, 1989.

The road surface and shoulders will be kept in a safe usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches and the turnouts kept clear so that snowmelt will be channeled away from the road.

3. **Location of Existing Wells within a One-Mile radius (See "Topo" Map "C" attached):**

The following wells are wells located within a one (1) mile or greater radius of the proposed location.

- a. None: Water Wells: (1) one BLM stock water dam (WRNUM: 49-336)
- b. None: Injection Wells:
- c. None: Producing Wells:
  - i. Archy Bench State 1-2, NENE of Sec 2-11S-22E (S/I) API#: 43-047-31489
  - ii. NBU 70-34B, NESW of Sec 34-10S-22E (S/I) API#: 43-047-30577
  - iii. Archy Bench 1-7, SWNE of Sec 1-10S-22E API#: 43-047-35931
- d. None: Drilling Wells:
- e. None: Shut-in Wells:
- f. None: Temporarily Abandoned Wells:
- g. None: Disposal Wells:
- h. None: Abandoned Wells:
- i. None: Dry Holes:
- j. None: Observation Wells:
- k. One: Pending (staked) Wells:
  - i. Archy Bench 11-22-21-1
  - ii. Archy Bench 11-22-31-1
  - iii. Archy Bench 11-22-22-1

- iv. Archy Bench 11-22-12-1
- v. Archy Bench 11-22-14-1
- vi. Archy Bench 11-22-24-1
- vii. Archy Bench 11-22-34-1
- viii. Archy Bench 11-22-33-1
- ix. Archy Bench 11-22-23-1
- x. Archy Bench 11-22-11-1

4. **Location of Existing and/or Proposed Facilities:**

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank and be independent of the back cut.

All permanent (on site for six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the rocky Mountain Five State Inter-Agency Committee

All facilities will be painted within 6 months of installation. The color shall be Desert Tan. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Gas Gathering Pipeline:	ON-LEASE	1055'	BLM
	OFF-LEASE	-0'	no OFF-LEASE pipeline

If the well is capable of economic production, a surface gas gathering line and related equipment shall be installed. The surface gas gathering line shall be in use year round. A total of approximately less than 1055 feet of surface gas gathering pipeline shall be laid on the surface to minimize surface disturbance:

- a. ON-LEASE approximately 1055 feet, and
- b. OFF-LEASE (none)

of 6 inch or less diameter steel, unpainted, welded gas gathering line is proposed.

The proposed pipeline will begin at the well site; and be laid on the surface next to the new access road, then go northwest along the existing road to the Archy Bench 11-22-12-1 Well and tie-in directly to an existing pipeline next to this well pad. The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter.

Upon plugging and abandonment, the gas gathering line will be removed and the disturbed area will be re-contoured and restored as near as practical to the original condition. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

**5. Location and Type of Water Supply:**

Water will be obtained from the White River by Tu and Frum, Inc. Water User Claim #49-2185, Application #T75517, or by Target Trucking Water User Claim #43-2195, or by Dalbo Inc. Water User Claim #43-8496

Water will be hauled to the location over the roads marked on "Topo" Maps "A" and "B."

No water well is to be drilled on this lease.

**6 Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized for location and access road construction.

Any gravel will be obtained from a commercial source; however, gravel sized rock debris associated with location and access road construction may be used as access road surfacing material.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break or allow discharge of liquids.

The reserve pit will be lined with ¼ felt and a minimum of 16 mm plastic with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the will be disposed of in the pit.

A chemical portable toilet will be furnished with the drilling rig. The toilet will be replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

Garbage, trash and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

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 in association with the drilling, completion or testing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well.

Produced oil will be stored in an oil tank and then hauled by truck to a crude purchaser facility. Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to an approved disposal site.

**8. Ancillary Facilities:**

During drilling operations, approximately 20 days, the site will be a manned camp. Three or four additional trailers will be on location to serve as the crews' housing and eating facilities. These will be located on the perimeter of the pad site within the topsoil stockpiles. Refer to Sheet 4.

**9. Well Site Layout: (Refer to Sheets #2, #3, and #4)**

The attached Location Layout Diagrams described drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpiles(s).

Please see the attached diagram for rig orientation and access roads.

The top soil will be windrowed rather than piled. It will be reseeded and track walker at the time the location is constructed. Seeding will be with the determined during the onsite. (Refer to "Seed Mixture for Windrowed Top Soil Will included:" following herein.

The top soil removed from the pit area will be store separately and will not be reseeded until the pit is reclaimed.

All pits shall be fence to the following minimum standards:

- a. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- b. The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches over the new wire. Total height of the fence shall be at least 42 inches.
- c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- d. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two fence posts shall be no greater than 16 feet.
- e. All wire shall be stretched by, using a stretching device, before it is attached to corner posts.
- f. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.
- g. Location size may change prior to drilling the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling, the location will be re-surveyed and a Form 9 will be submitted.

**10. Plans for Surface Reclamation:**

**Producing Location:**

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production.
- b. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 40CFR 3162.7.
- c. Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.
- d. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximated natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.
- e. To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface 3 feet above surrounding round surface to allow the reclaimed pit area to drain effectively.
- f. Upon completion of back filling, leveling and re-contouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

**Dry Hole/Abandoned Location:**

- i. Abandoned well sites, roads and other disturbed areas will be restored as nearly as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions and re-establishment of vegetation as specified.
- ii. All disturbed surfaces will be re-contoured to the approximated natural contours with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

**Seed Mixture for Windrowed Top Soil Will Included:**

To be provided by the BLM.

**11. Surface Ownership: Location, Access and Pipeline Route:**

Wellsite: Bureau of Land Management

Access: Bureau of Land Management

Pipeline: Bureau of Land management

**12. Other Information**

**On-site Inspection for Location, Access and Pipeline Route:**

The on-site was conducted September 21, 2005.

**Special Conditions of Approval:**

Tanks and Production Equipment shall be painted Desert Tan.

**Archeology:**

- a. A Cultural Resource Inventory Report is pending and to be prepared by Montgomery Archaeological Consultants.

**Paleontology:**

- a. A Paleontology Reconnaissance Report is pending and to be prepared by Intermountain Paleo-Consulting.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

13, **Lessee's or Operator's Representatives:**

**Representatives:**

Alvin R. (Al) Arian  
Landman – Regulatory Specialist  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-350-5114  
Fax Tel: 303-573-0461  
[aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)

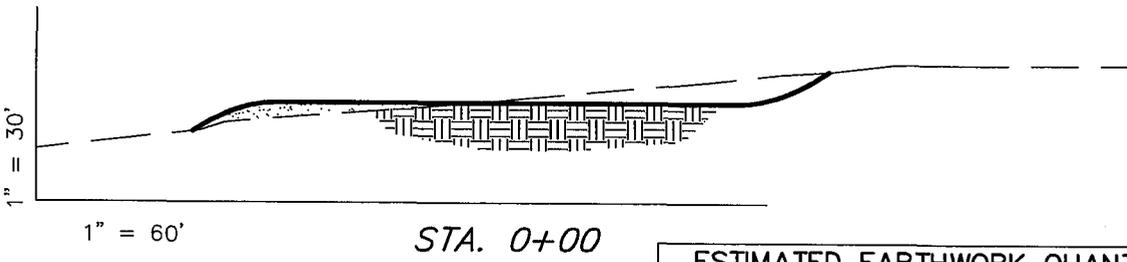
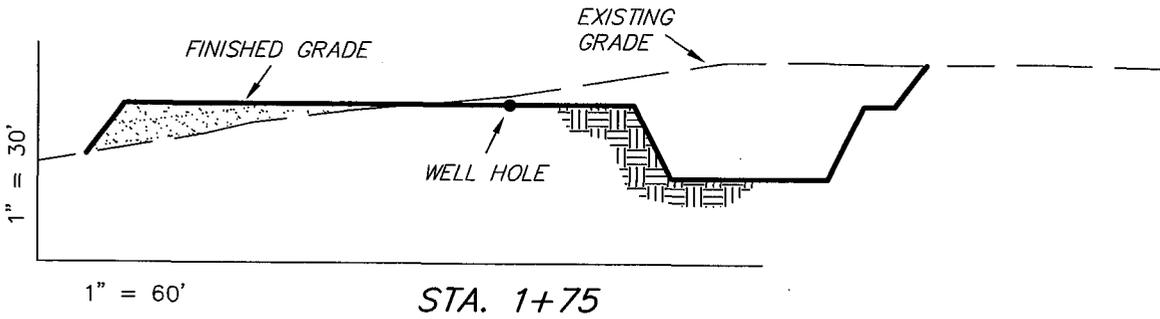
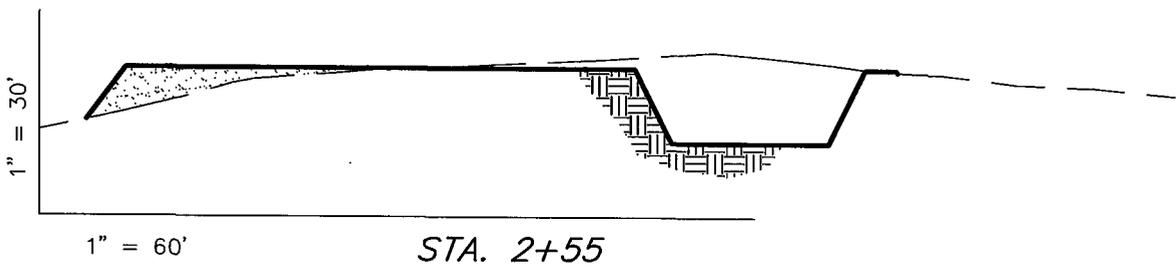
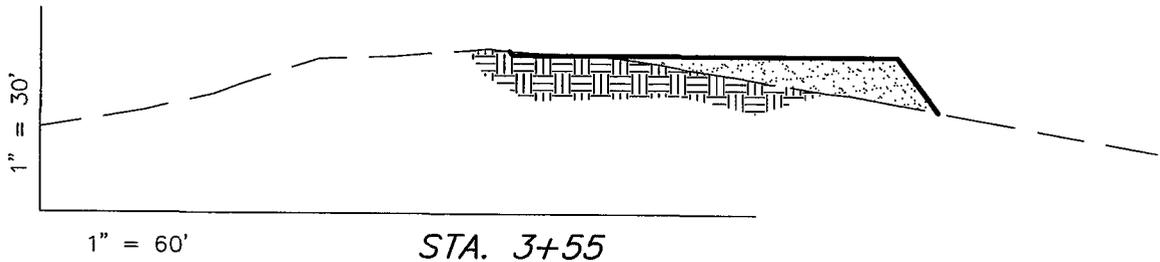
Frank Hutto  
Vice President – Operations  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-573-5102  
Fax Tel: 303-573-0461  
[fhutto@enduringresources.com](mailto:fhutto@enduringresources.com)



# ENDURING RESOURCES

## CROSS SECTIONS

### ARCHY BENCH 11-22-13-1



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	5,280	5,280	Topsoil is not included in Pad Cut	0
PIT	5,390	0		5,390
TOTALS	10,670	5,280	1,730	5,390

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

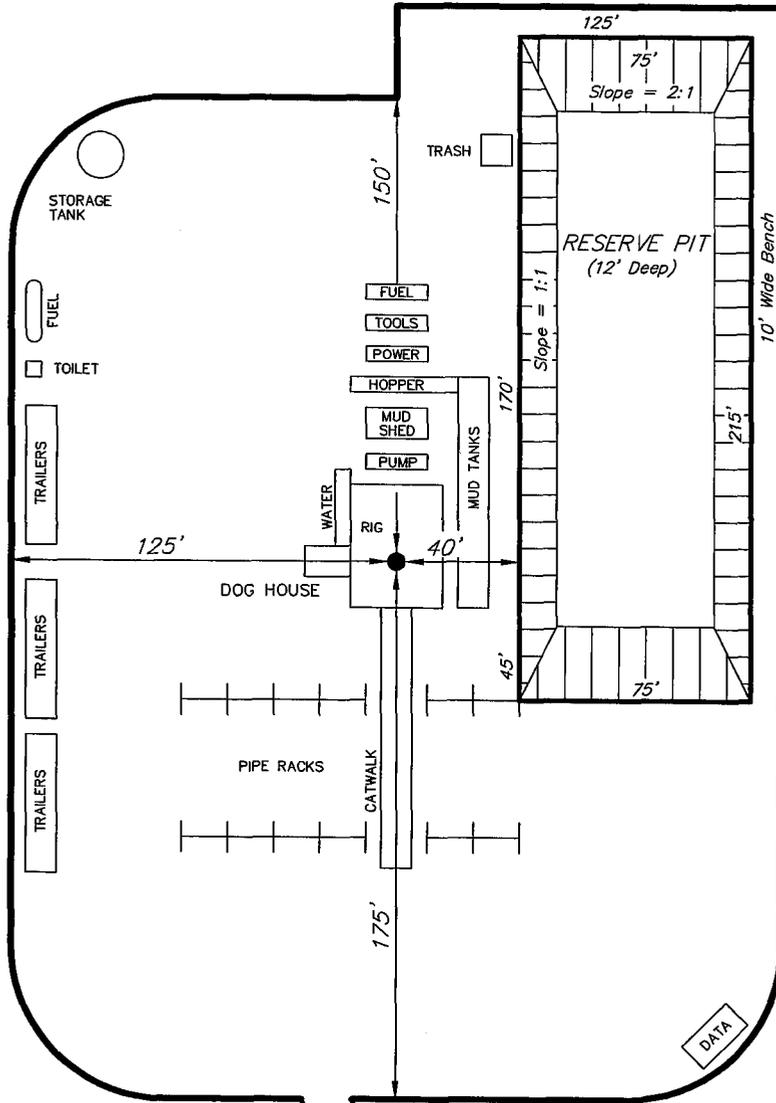
SURVEYED BY: J.H.	DATE DRAWN: 6-9-05
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

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

# ENDURING RESOURCES

## TYPICAL RIG LAYOUT

### ARCHY BENCH 11-22-13-1

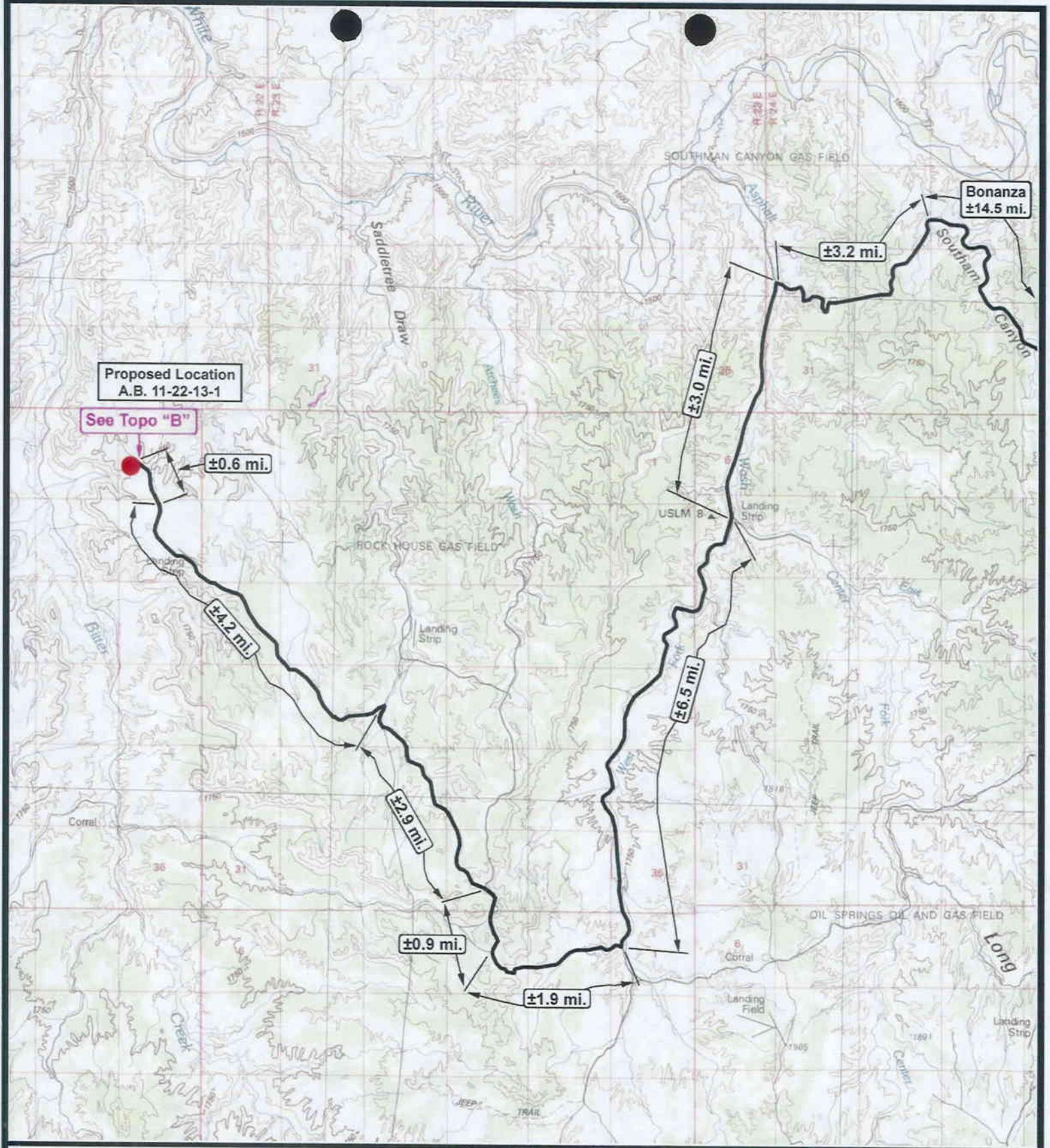


Note:  
Flare pit is to be located at least 100' from well head.

SURVEYED BY: J.H.	DATE DRAWN: 6-9-05
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

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

(435) 781-2501



**ENDURING RESOURCES**

**Archy Bench 11-22-13-1  
Sec. 1, T11S, R22E, S.L.B.&M.**

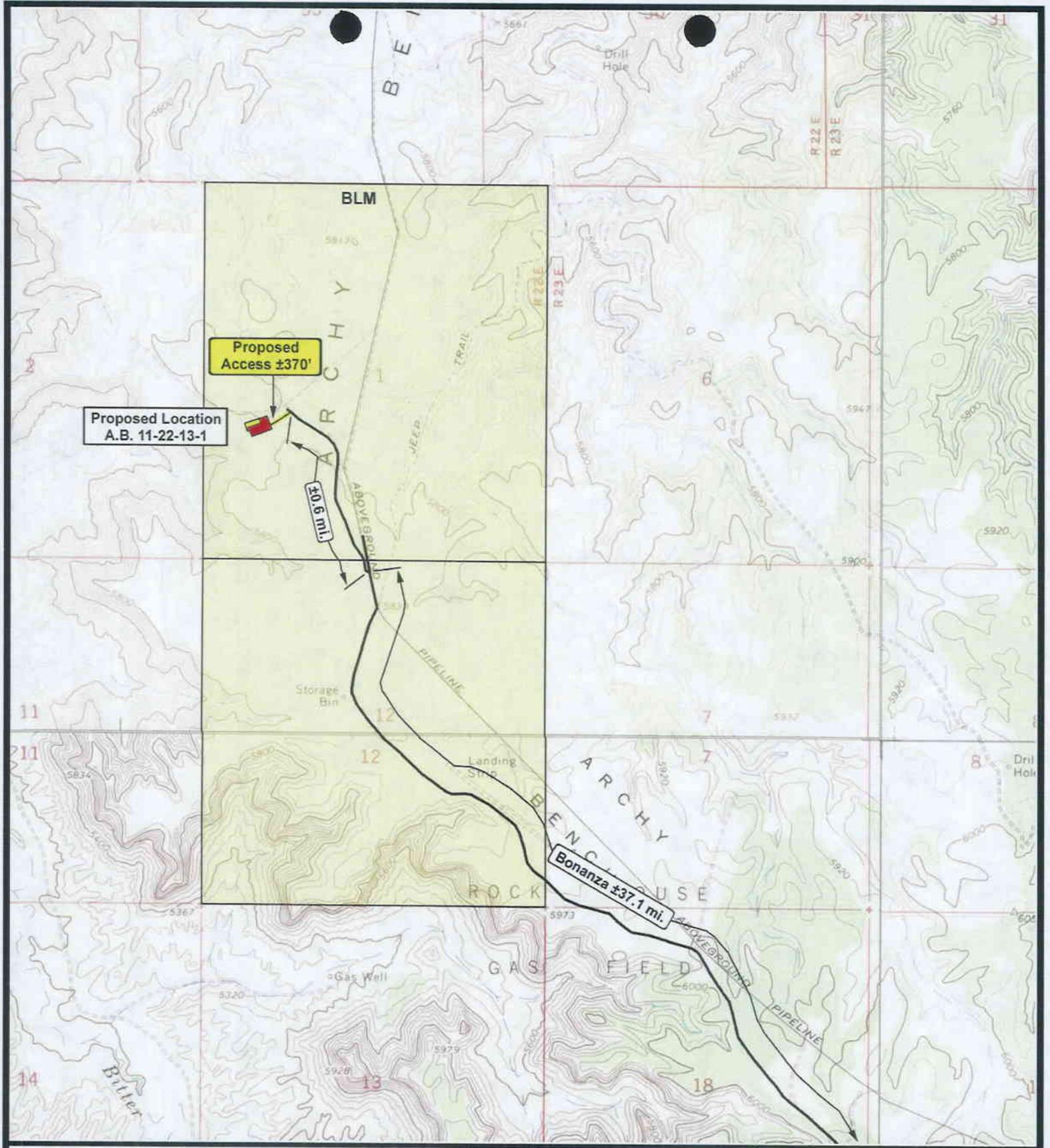


**Tri-State  
Land Surveying Inc.**  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 100,000'  
DRAWN BY: bgm  
DATE: 07-12-2005

**Legend**  
 Existing Road  
 Proposed Access

TOPOGRAPHIC MAP  
**"A"**  
 SHEET **6** OF 9



**ENDURING RESOURCES**

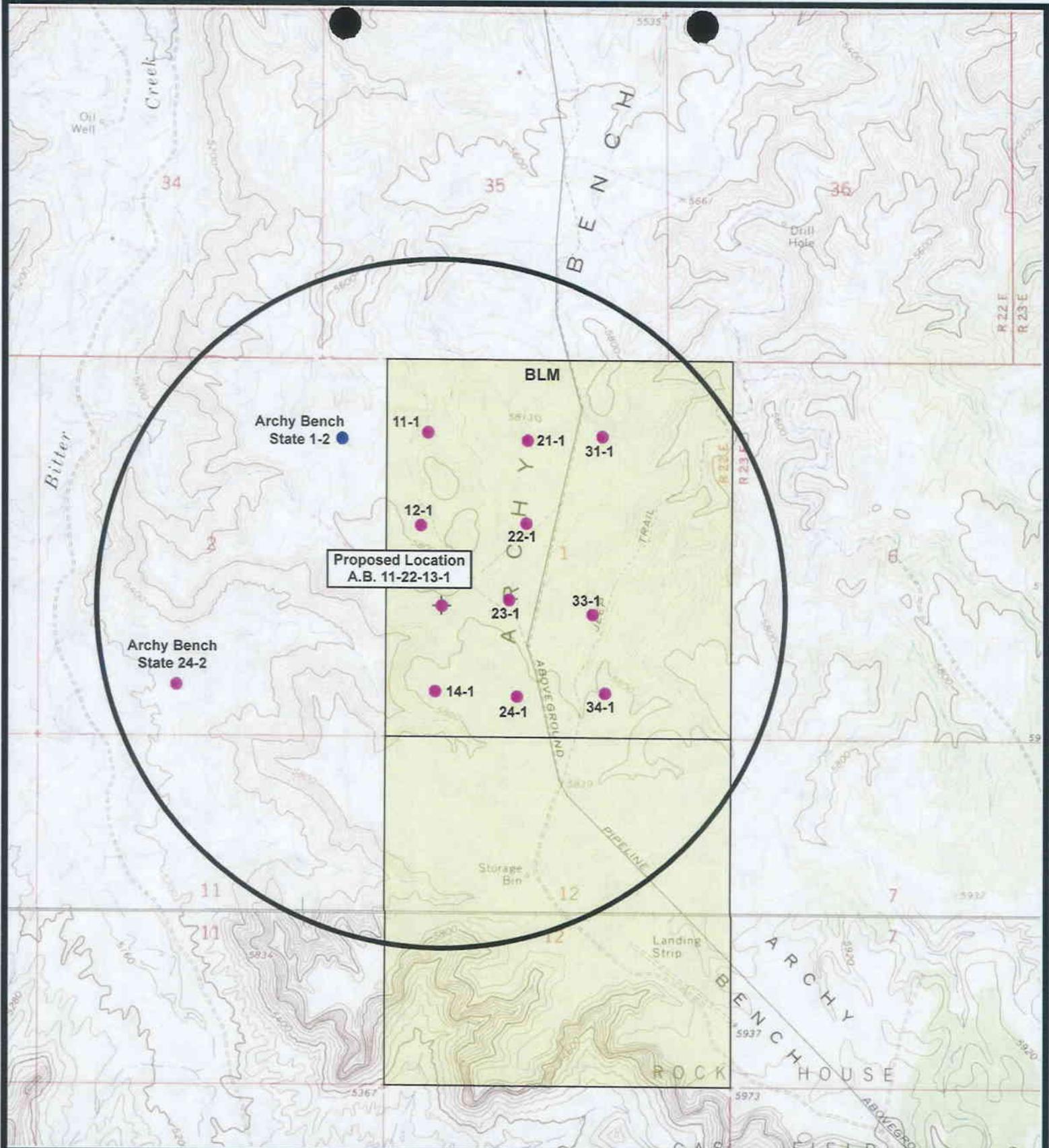
**Archy Bench 11-22-13-1**  
**Sec. 1, T11S, R22E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: bgm**  
**DATE: 07-15-2005**

<b>Legend</b>	
	Existing Road
	Proposed Access
<b>TOPOGRAPHIC MAP</b>	
<b>"B"</b>	<b>SHEET 7 OF 9</b>



Proposed Location  
A.B. 11-22-13-1

Archy Bench  
State 1-2

Archy Bench  
State 24-2

  
**ENDURING RESOURCES**

---

**Archy Bench 11-22-13-1**  
**Sec. 1, T11S, R22E, S.L.B.&M.**



  
**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: bgm**  
**DATE: 07-14-2005**

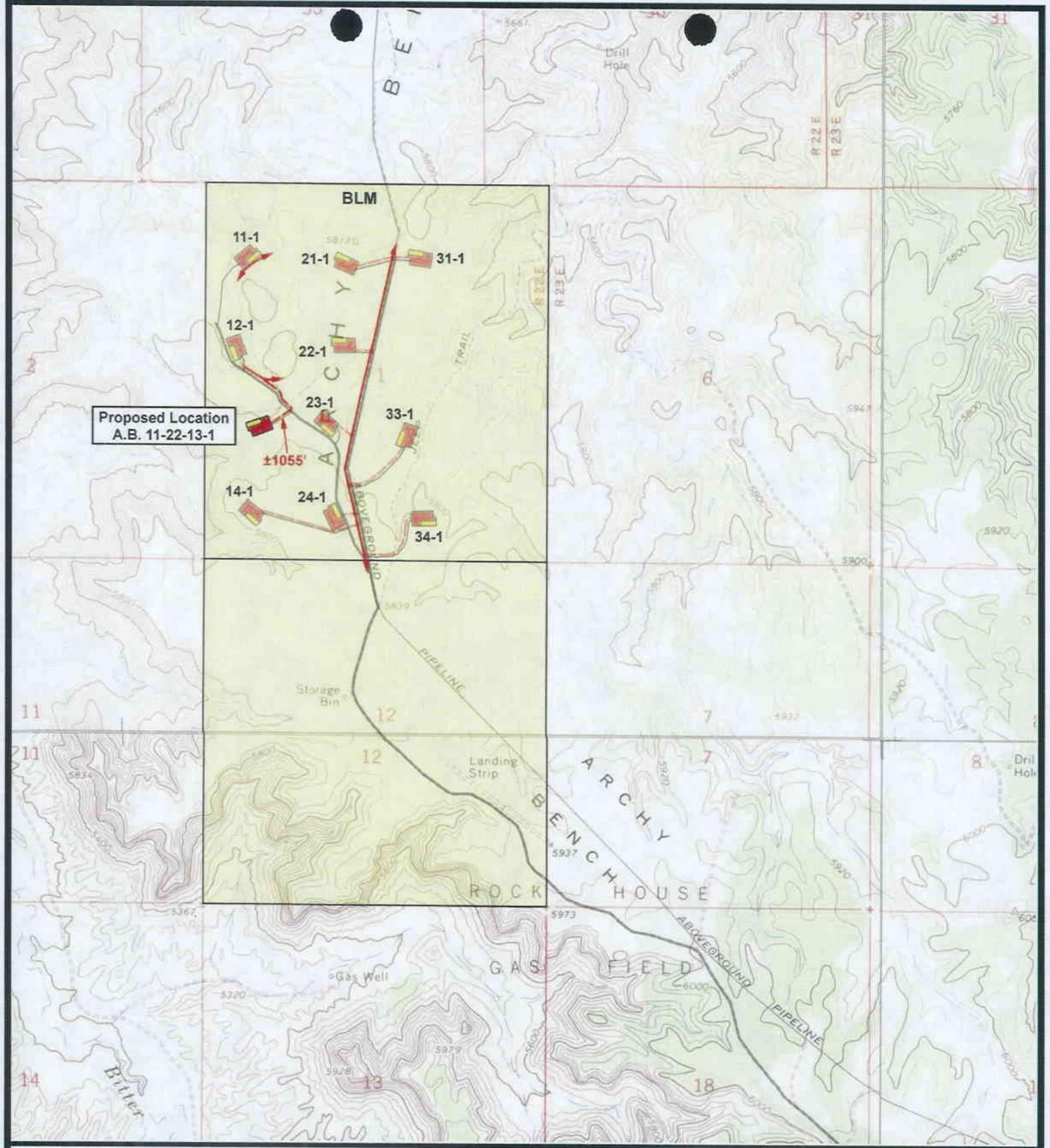
**Legend**

- Proposed Location
- Existing Location
- One-Mile Radius

**TOPOGRAPHIC MAP**

**"C"**

**SHEET**  
**8**  
 OF 9



**ENDURING RESOURCES**

**Archy Bench 11-22-13-1**  
**Sec. 1, T11S, R22E, S.L.B.&M.**



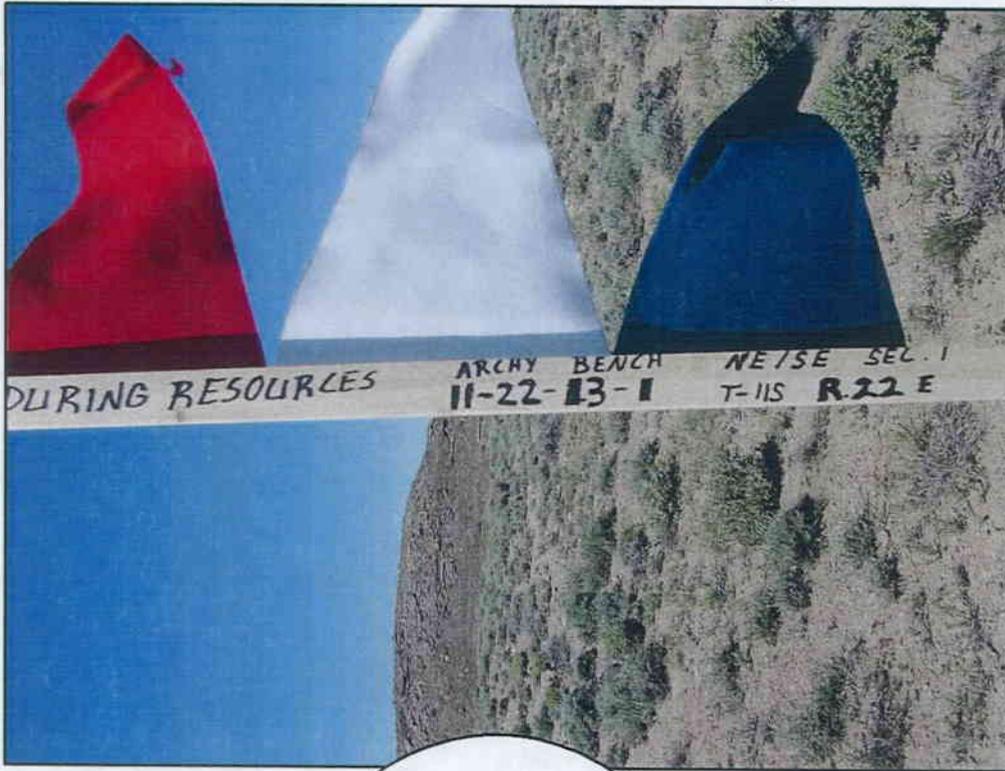
**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: bgm**  
**DATE: 07-15-2005**

**Legend**

-  Roads
-  Existing Gas Line
-  Proposed Gas Line

**TOPOGRAPHIC MAP** **SHEET**  
**"D"** **9**  
**OF 9**



**CENTER STAKE**

  
**ENDURING RESOURCES**  
**A.B. 11-22-13-1**

Date Photographed: 05/26/2005  
Date Drawn: 07/13/2005  
Drawn By: bgm

  
**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078



NORTH

  
ENDURING RESOURCES  
A.B. 11-22-13-1

Date Photographed: 05/26/2005

Date Drawn: 07/13/2005

Drawn By: bgm

  
*Tri-State*  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

EAST





SOUTH

  
ENDURING RESOURCES  
A.B. 11-22-13-1

Date Photographed: 05/26/2005  
Date Drawn: 07/13/2005  
Drawn By: bgm

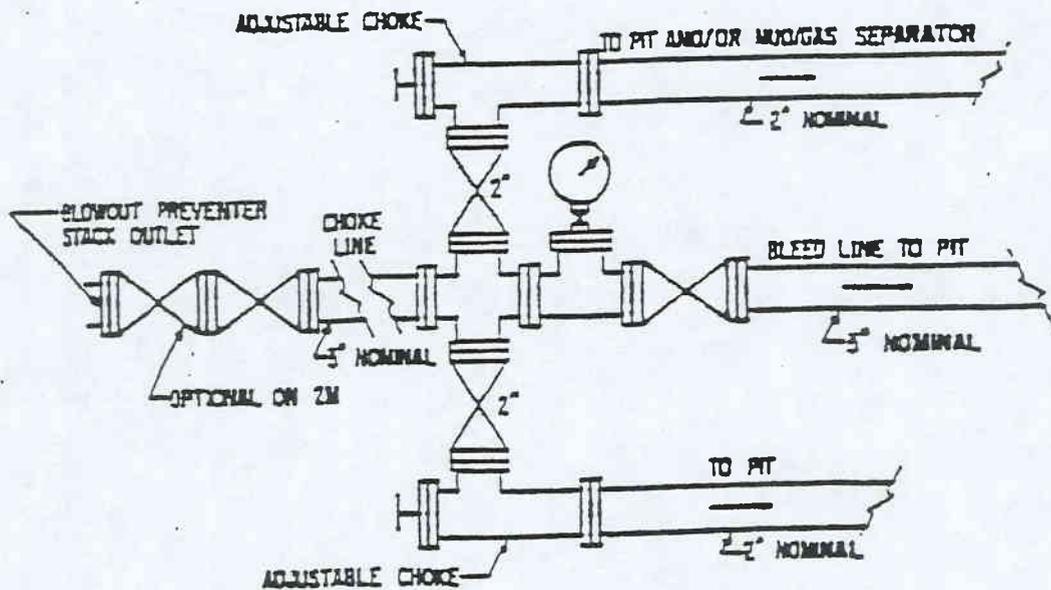
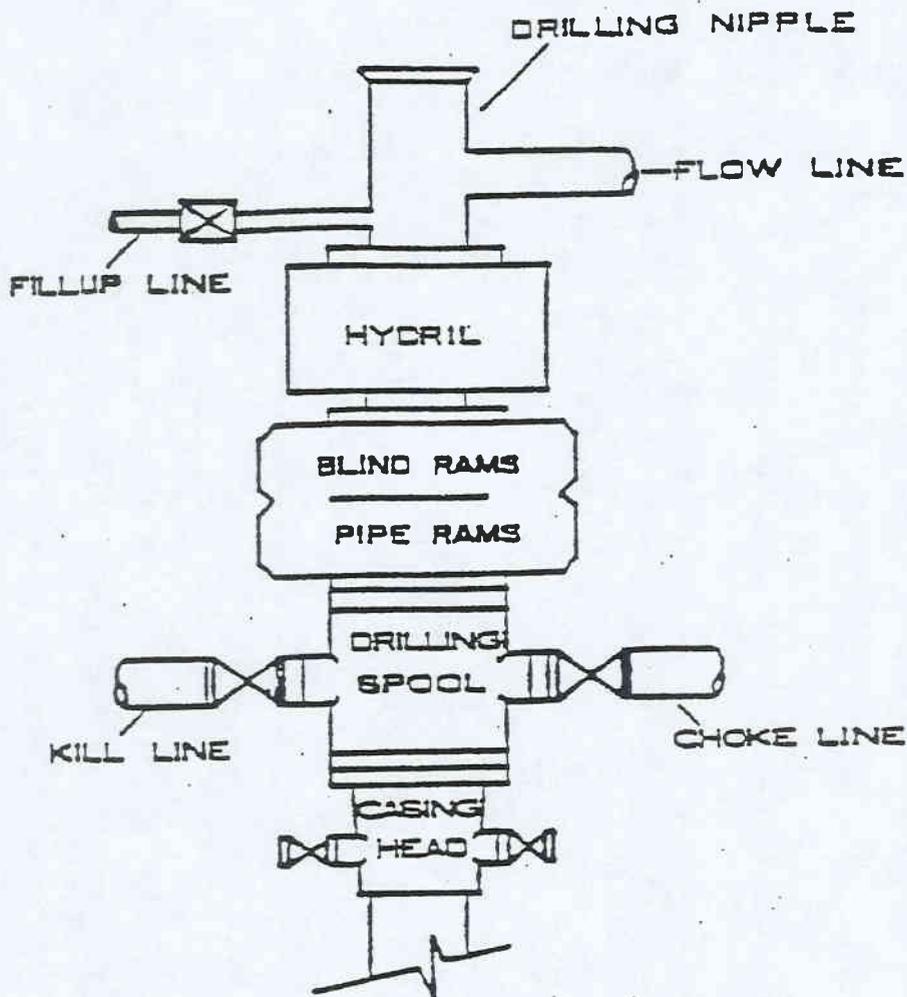
  
Tri-State  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

WEST



3,000 PSI

# BOP STACK



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/12/2005

API NO. ASSIGNED: 43-047-37487

WELL NAME: ARCHY BENCH 11-22-13-1  
 OPERATOR: ENDURING RESOURCES, LLC ( N2750 )  
 CONTACT: AL ARLIAN

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

NWSW 01 110S 220E  
 SURFACE: 2047 FSL 0848 FWL  
 BOTTOM: 2047 FSL 0848 FWL  
 UINTAH  
 UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-73903  
 SURFACE OWNER: 1 - Federal  
 PROPOSED FORMATION: MVRD  
 COALBED METHANE WELL? NO

LATITUDE: 39.88793  
 LONGITUDE: -109.4092

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. RLB0008031 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-8496 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.  
Unit \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 210-04  
Eff Date: 4-12-2004  
Siting: 460' fr ext drl u bdr g & 920' fr other wells
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: 1-Federal approved

**NATURAL BUTTES UNIT  
NATURAL BUTTES FIELD**

T10S R22E

T11S R22E

T11S R23E

BITTER CREEK  
H-22-21B

ARCHY BENCH  
STATE 1-2

BITTER CREEK  
H-22-21H

**BITTER CREEK FIELD**

ARCHY BENCH  
H-22-16-1

ARCHY BENCH  
H-22-21-1

ARCHY BENCH  
H-22-16-1

ARCHY BENCH  
H-22-12-1

ARCHY BENCH  
H-22-22-1

ARCHY BENCH  
H-22-17

ARCHY BENCH  
H-22-13-1

ARCHY BENCH  
H-22-14-1

ARCHY BENCH  
H-22-24-1

ARCHY BENCH  
H-22-12-2

CAUSE: 210-04 / 4-12-2004

**ROCK HOUSE FIELD  
MARBLE MANSION II UNIT**

OPERATOR: ENDURING RES LLC (N2750)

SEC: 1 T. 11S R. 22E

FIELD: UNDESIGNATED (002)

COUNTY: UINTAH

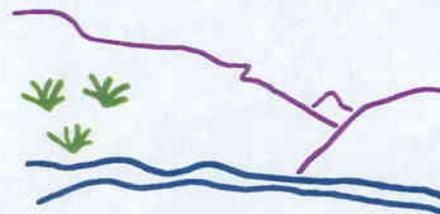
CAUSE: 210-04 / 4-12-2004

Field Status	
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

Unit Status	
	EXPLORATORY
	GAS STORAGE
	NF PP OIL
	NF SECONDARY
	PENDING
	PI OIL
	PP GAS
	PP GEOTHERML
	PP OIL
	SECONDARY
	TERMINATED

**Wells Status**

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 14-DECEMBER-2005

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

**CONFIDENTIAL**

APD RECEIVED: 12/12/2005

API NO. ASSIGNED: 43-047-37487

WELL NAME: ARCHY BENCH 11-22-13-1  
 OPERATOR: ENDURING RESOURCES, LLC ( N2750 )  
 CONTACT: AL ARLIAN

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

SWNW 01 110S 220E  
 SURFACE: 2494 FNL 0493 FWL  
 BOTTOM: 1980 FSL 0660 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.89133 LONGITUDE: -109.4104  
 UTM SURF EASTINGS: 635906 NORTHINGS: 4416695  
 FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-73903  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MVRD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. RLB0008031 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-2215 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 210-4  
Eff Date: 4-12-2004  
Siting: 400' fr ext drill logs 2920' fr other wells
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

STIPULATIONS: 1- Federal Approval

2- Spacing Strip

\_\_\_\_\_

\_\_\_\_\_

**NATURAL BUTTES UNIT  
NATURAL BUTTES FIELD**

NBU  
1022-350

ROCK HOUSE  
10-22-14-36

T10S R22E

T11S R23E

T11S R22E

ARCHY BENCH  
STATE 1-2

BITTER CREEK  
1122-2H

**BITTER CREEK  
FIELD**

CAUSE: 210-4 / 4-12-2004

ARCHY BENCH  
11-22-11-1

ARCHY BENCH  
11-22-21-1

ARCHY BENCH 11-22-41-1  
ARCHY BENCH 11-22-31-1

BHL  
11-22-41-1

ARCHY BENCH  
11-22-12-1

ARCHY BENCH  
11-22-13-1

ARCHY BENCH  
11-22-22-1

ARCHY BENCH  
11-22-32-1

BHL  
11-22-42-1

BHL  
11-22-13-1

ARCHY BENCH  
11-22-23-1

ARCHY BENCH  
11-22-42-1

ARCHY BENCH  
11-22-33-1

BHL  
11-22-43-1

BHL  
11-22-14-1

ARCHY BENCH  
11-22-14-1

ARCHY BENCH  
11-22-24-1

ARCHY BENCH 11-22-43-1  
ARCHY BENCH 11-22-44-1  
ARCHY BENCH 11-22-34-1

BHL  
11-22-44-1

ARCHY BENCH  
FED 12-2

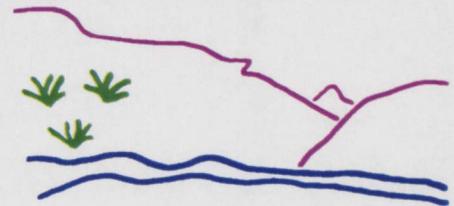
OPERATOR: ENDURING RES LLC (N2750)

SEC: 1 T.11S R. 22E

FIELD: UNDESIGNATED (002)

COUNTY: UINTAH

CAUSE: 210-4 / 4-12-2004



*Utah Oil Gas and Mining*

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

- Unit Status**
- EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PENDING
  - PI OIL
  - PP GAS
  - PP GEOTHERML
  - PP OIL
  - SECONDARY
  - TERMINATED

- Wells Status**
- / GAS INJECTION
  - \* GAS STORAGE
  - x LOCATION ABANDONED
  - ⊙ NEW LOCATION
  - ⊕ PLUGGED & ABANDONED
  - \* PRODUCING GAS
  - PRODUCING OIL
  - \* SHUT-IN GAS
  - SHUT-IN OIL
  - x TEMP. ABANDONED
  - TEST WELL
  - △ WATER INJECTION
  - ⊕ WATER SUPPLY
  - ⊕ WATER DISPOSAL
  - ⊕ DRILLING



PREPARED BY: DIANA MASON  
DATE: 19-DECEMBER-2006

**SELF-CERTIFICATION STATEMENT**

The following self-certification statement is provided per federal requirements dated June 15, 1988.

Please be advised that Enduring Resources, LLC is considered to be the operator of the following well.

Archy Bench #11-22-13-1  
NWSW 2047' FSL - 848' FWL  
Section 1 T11S-R22E S.L.B.& M.  
Lease Serial No.: UTU-73903  
Uintah County, Utah

Enduring Resources, LLC is responsible under the terms and conditions of the lease for the operations conducted upon leased lands. Bond coverage is provided by UTB000173.



December 8, 2005

Alvin R. Arlian  
Regulatory Specialist  
Enduring Resources, LLC  
475 17th Street, Suite 1500  
Denver, CO 80202  
(303) 350-5114

RECEIVED  
DEC 15 2005  
DIV. OF OIL, GAS & MINING



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

December 15, 2005

Enduring Resources, LLC  
475 17th St., Ste. 1500  
Denver, CO 80202

Re: Archy Bench 11-22-13-1 Well, 2047' FSL, 848' FWL, NW SW, Sec. 1,  
T. 11 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37487.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Enduring Resources, LLC  
**Well Name & Number** Archy Bench 11-22-13-1  
**API Number:** 43-047-37487  
**Lease:** UTU-73903

**Location:** NW SW                      **Sec.** 1                      **T.** 11 South                      **R.** 22 East

### Conditions of Approval

1. **General**  
Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.
2. **Notification Requirements**  
Notify the Division within 24 hours of spudding the well.
  - Contact Carol Daniels at (801) 538-5284.  
Notify the Division prior to commencing operations to plug and abandon the well.
  - Contact Dan Jarvis at (801) 538-5338
3. **Reporting Requirements**  
All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.
4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DEC 12 2005

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. <b>UTU-73903</b>		6. If Indian, Allottee or Tribe Name <b>N/A</b>	
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. <b>N/A</b>	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. <b>Archy Bench 11-22-13-1</b>	
2. Name of Operator <b>Enduring Resources, LLC</b>		9. API Well No. <b>431047137487</b>	
3a. Address <b>475 17th Street, Suite 1500 Denver, CO 80202</b>		3b. Phone No. (include area code) <b>303-350-5114</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface <b>NWSW 2047' FSL - 848' FWL</b> At proposed prod. zone <b>Same as surface</b>		10. Field and Pool, or Exploratory <b>undesignated</b>	
14. Distance in miles and direction from nearest town or post office* <b>37.7 miles Southwesterly from Bonanza, Utah</b>		11. Sec., T. R. M. or Blk. and Survey or Area <b>Sec 1 T11S R22E S.L.B.&amp;M.</b>	12. County or Parish <b>Uintah</b>
13. State <b>UT</b>	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>848'</b>	16. No. of acres in lease <b>1341.28</b>	17. Spacing Unit dedicated to this well <b>40 acres</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1152.60'</b>	19. Proposed Depth <b>8120</b>	20. BLM/BIA Bond No. on file <b>BLM - UTB000173</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5778.6' KB-RT</b>	22. Approximate date work will start* <b>02/16/2005</b>	23. Estimated duration <b>20 days</b>	

24. Attachments

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

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 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).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) <b>Alvin R. (AI) Arlian</b>	Date <b>12/08/2005</b>
-------------------	---	---------------------------

Title  
**Landman - Regulatory Specialist**

Approved by (Signature) 	Name (Printed/Typed)	Date <b>05/16/2006</b>
-----------------------------	----------------------	---------------------------

Title  
**Mineral Resources**

Application approval does not warrant or certify that 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.

\*(Instructions on page 2)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED

MAY 24 2006

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Enduring Resources LLC      **Location:** NWSW, Sec 1, T11S, R22E  
**Well No:** Archy Bench 11-22-13-1      **Lease No:** UTU-73903  
**API No:** 43-047-37487      **Agreement:** N/A

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Petroleum Engineer:	Roger Hall	Office: 435-781-4470	
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Nathaniel West	Office: 435-781-4447	
Natural Resource Specialist:	Chris Carusona	Office: 435-781-4441	
<b>After hours contact number: (435) 781-4513</b>		<b>FAX: (435) 781-4410</b>	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- |   |  |
|---|--|
| Location Construction<br>(Notify Melissa Hawk)              | - Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify Melissa Hawk)                | - Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)                  | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Jamie Sparger SPT)     | - Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Jamie Sparger SPT) | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)      | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**DRILLING AND CONSTRUCTION**

- Enduring Resources, LLC will comply with all applicable local, state, and/or federal laws, regulations, and/or statutes.
- In accordance with the Migratory Bird Treaty Act if a nest is found the operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer.
- Construction related traffic shall be restricted to approved routes. Cross-country vehicle travel shall not be allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. may be needed to control the erosion. The operator shall submit a proposal to control erosion to the BLM.
- The reserve pit shall be double lined with felt and a 12 ml or greater liner or single lined with 16ml or greater..
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The liner is to be cut at the level of the cuttings or treated to prevent the reemergence of the pit liner and pit material to the surface or its interference with long-term successful re-vegetation. Any excess liner material removed from the pit is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure that animals do not ingest or become entrapped in pit fluids.
- Drill cuttings and mud shall remain in the reserve pit until DRY. The reserve pit must be free of oil and other liquid and solid wastes, allowed to dry, be pumped dry, or solidified in-situ prior to filling. The reserve pit shall not be "squeezed," (filled with soil while still containing fluids) or "cut" (puncturing the pit liner while still containing fluids to allow pit fluids to drain from the pit).
- Prevent fill and stock piles from entering drainages.
- The access road shall be crowned and ditched. Flat-bladed roads are NOT allowed.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- All well facilities not regulated by OSHA shall be painted Olive Black.

- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.
- Noxious weeds and any undesirable plants, as determined by the BLM, shall be controlled by the operator. The operator shall submit a pesticide use proposal to control weeds if they develop on the location, access road, or pipeline corridor.
- Trees must be removed from the location must be piled separately off location and saved for final reclamation purposes.
- Interim Reclamation (see below):
- Where possible, strip six inches of topsoil from the location as shown on the cut sheet. After the well is completed, the topsoil shall be spread and re-contoured on the location and immediately seeded with the seed mix below.
- Interim Reclamation Seed Mix for location:
  - Hycrest Crested Wheat grass     *Agropyron cristatum*     4lbs. /acre
  - Needle and Thread grass     *Stipa comata*     4lbs. /acre
  - Indian Rice grass     *Pleuraphis hymenoides*     4lbs. /acre
- Certified weed free seed and straw shall be used for final and interim reclamation. The operator shall submit a receipt with certification for the seed and any straw used on location.
- The topsoil from the reserve pit should be stripped and piled separately near the reserve pit. When the reserve pit is closed it should be re-contoured, then the area should be seeded in the same manner as the topsoil.
- There shall be no primary or secondary noxious weeds in the seed mixture.
- Once the location is plugged and abandoned contact the Authorized Officer for final reclamation plans.
- The above listed seed mix shall be used to seed all unused portions of the pad including the topsoil and stock piles, and the reserve pits. Re-seeding may be required if the first seeding is not successful.
- The seed shall be drilled or disked into the ground or hand broadcast onto the ground. Planting depth shall not exceed one-half inch using a seed drill. If the seed is hand broadcast then the seed mixture shall be doubled and the area raked or chained to cover the seed.

- Water Use for drilling/construction purposes:
  - Implement Reasonable and Prudent Measure (1):
  - If the pump head is located in the river channel, do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate fish.
- Screen all pump intakes with 1/4" mesh material.
- Report any fish impinged on the intake screen to the Service (801.975.3330) or the Utah Division of Wildlife Resources:
  - Northeastern Region
  - 152 East 100 North, Vernal UT 84078
  - Phone: (435) 781-9453

#### CULTURAL AND PALEONTOLOGICAL RESOURCES STIPULATION:

- Any cultural and/or paleontological resource (historic or prehistoric site or object or fossil) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer.
- Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery shall be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values.
- The holder shall be responsible for the cost of evaluation and a decision as to proper mitigation measures shall be made by the authorized officer after consulting with the holder.

#### COMPLETION and PRODUCTION:

- Blow back fluids from completion operations shall be contained such that hydrocarbons are not introduced into the reserve pit.
- Reserve pits shall maintain a minimum of 2 feet of freeboard.
- During all road building, pad construction, drilling, well completion, producing and abandonment activities, all gasoline, diesel powered equipment used must be equipped with approved spark arresters or mufflers.
- Production facilities (including dikes) shall be placed on cut and a minimum of 20' from the toe of the backcut.
- Pesticides may not be used to control undesirable woody and herbaceous vegetation, aquatic plants, insects, rodents, trash fish, etc., without the prior written approval of the BLM. A request for approval of planned uses of pesticides shall be submitted 4 months prior to the proposed starting date.
- No production pits shall be allowed on the location.
- Load outs shall be inside the dike. A drip barrel shall be installed under the end of the loadout line.

- All production facilities, i.e. pump, pump house, storage tanks, oil-water separator, galvanized dikes, propane tanks, etc. shall be painted with a lusterless color (Carlsbad Canyon). All facilities shall be painted within six (6) months of installation.
- The well location shall be maintained in a clean environmentally friendly manner, using good house keeping practices.
- Equipment not being used for production shall not be stored on the well location.
- All oil and chemical barrels shall be labeled and have a spill containment device to protect soils from possible contamination.

#### ABANDONED WELL

- A sundry notice shall be submitted to the BLM prior to abandonment, a final reclamation seed mix shall be designated at the time the sundry is approved. The seed mix in the APD is not to be used for final reclamation.
- The seed shall be drilled or hand broadcast and harrowed into the ground during September of the year following earthwork for initial or final reclamation. Planting depth shall not exceed one-half inch using a seed drill. Weed seed free mulch shall also be applied to the planting area sufficiently to uniformly cover 80% of the seeded area. Hydroseeding and mulching can also be used, but seeding rates will need to be doubled.
- The cut and fill slopes shall be recontoured to original contours. The entire disturbed area shall then be back-filled with topsoil, landscaped, seeded and fenced to exclude livestock. The fence shall remain in place. It shall be removed prior to approval of final abandonment.

## **DOWNHOLE CONDITIONS OF APPROVAL**

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- A surface casing shoe integrity test shall be performed.

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
- Blowout prevention equipment (BOPE) will remain in use until the well is completed or abandoned. Closing unit controls must remain unobstructed and readily accessible at all times. Choke manifolds must be located outside of the rig substructure.
- All BOPE components will be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests must be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test must be reported in the driller's log.
- BOP drills must be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.

- No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office must be obtained and notification given before resumption of operations.
- Chronologic drilling progress reports must be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- Any change in the program must be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, will require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.
- In accordance with 43 CFR 3162.4-3, this well must be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the BLM, Vernal Field Office.
- All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
- Oil and gas meters will be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be

submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$  Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and / or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas will be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, 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 Operations and Production.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom hole depth, re-enter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**CONFIDENTIAL**

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU- 73903
2. NAME OF OPERATOR: Enduring Resources, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: n/a
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2047' FSL - 848' FWL		8. WELL NAME and NUMBER: Archy Bench 11-22-13-1
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 1 11S 22E S		9. API NUMBER: 4304737487
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Undesignated
STATE: UTAH		

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>5/23/2006 10/18/06</u> 	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Request for APD Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 12/14/2006  
TO: 12/14/2007

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 10-23-06  
By: [Signature]

BY: [Signature]  
DATE: 10-23-06  
TIME: PM

NAME (PLEASE PRINT) <u>Evette Bissett</u>	TITLE <u>Regulatory Compliance Assistant</u>
SIGNATURE <u>[Signature]</u>	DATE <u>10/18/2006</u>

(This space for State use only)

**RECEIVED**  
**OCT 20 2006**

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737487  
**Well Name:** Archy Bench 11-22-13-1  
**Location:** 2047' FSL - 848' FWL, NWSW, Sec 1, T11S-R22E  
**Company Permit Issued to:** Enduring Resources, LLC  
**Date Original Permit Issued:** 12/14/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

*Yvette Bisette*  
Signature

10/18/2006  
Date

**Title:** Regulatory Compliance Assistant

**Representing:** Enduring Resources, LLC

**RECEIVED  
OCT 20 2006**

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT [ ]
(highlight changes)

APPLICATION FOR PERMIT TO DRILL
5. MINERAL LEASE NO: UTU-73903
6. SURFACE: Federal
1A. TYPE OF WORK: DRILL [x] REENTER [ ] DEEPEN [ ]
B. TYPE OF WELL: OIL [ ] GAS [x] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [x]
2. NAME OF OPERATOR: Enduring Resources, LLC
3. ADDRESS OF OPERATOR: 475 17th St., Ste 1500 CITY Denver STATE CO ZIP 80220 PHONE NUMBER: (303) 350-5719
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2494' FNL - 493' FWL AT PROPOSED PRODUCING ZONE: 1980' FSL - 660' FWL NWSW 635906 X 4416495 Y 39.891330 - 109.410435 635904 X 4416298 Y 39.887743 - 109.409840
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 34.5 miles South of Bonanza, UT
12. COUNTY: Uintah 13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): 493' 16. NUMBER OF ACRES IN LEASE: 1280 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40 acres
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): 1000' + 19. PROPOSED DEPTH: 8,655 20. BOND DESCRIPTION: RLB0008031
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5769' RT-KB 22. APPROXIMATE DATE WORK WILL START: 2/25/2007 23. ESTIMATED DURATION: 20 days

PROPOSED CASING AND CEMENTING PROGRAM

Table with 4 columns: SIZE OF HOLE, CASING SIZE, GRADE, AND WEIGHT PER FOOT, SETTING DEPTH, CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT. Rows include 20" line pipe, 11" J-55 24#, 7-7/8" N-80 11.6#, and 50/50 Poz Class G.

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- [x] WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
[x] EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
[x] COMPLETE DRILLING PLAN
[ ] FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Evette Bissett TITLE Regulatory Affairs Assistant
SIGNATURE [Signature] DATE 12/13/2006

COPY SENT TO OPERATOR
Date: 12-21-06
Initials: RM

(This space for State use only)

Approved by the
Utah Division of
Oil, Gas and Mining

RECEIVED

DEC 19 2006

API NUMBER ASSIGNED: 43-047-37487

APPROVAL:

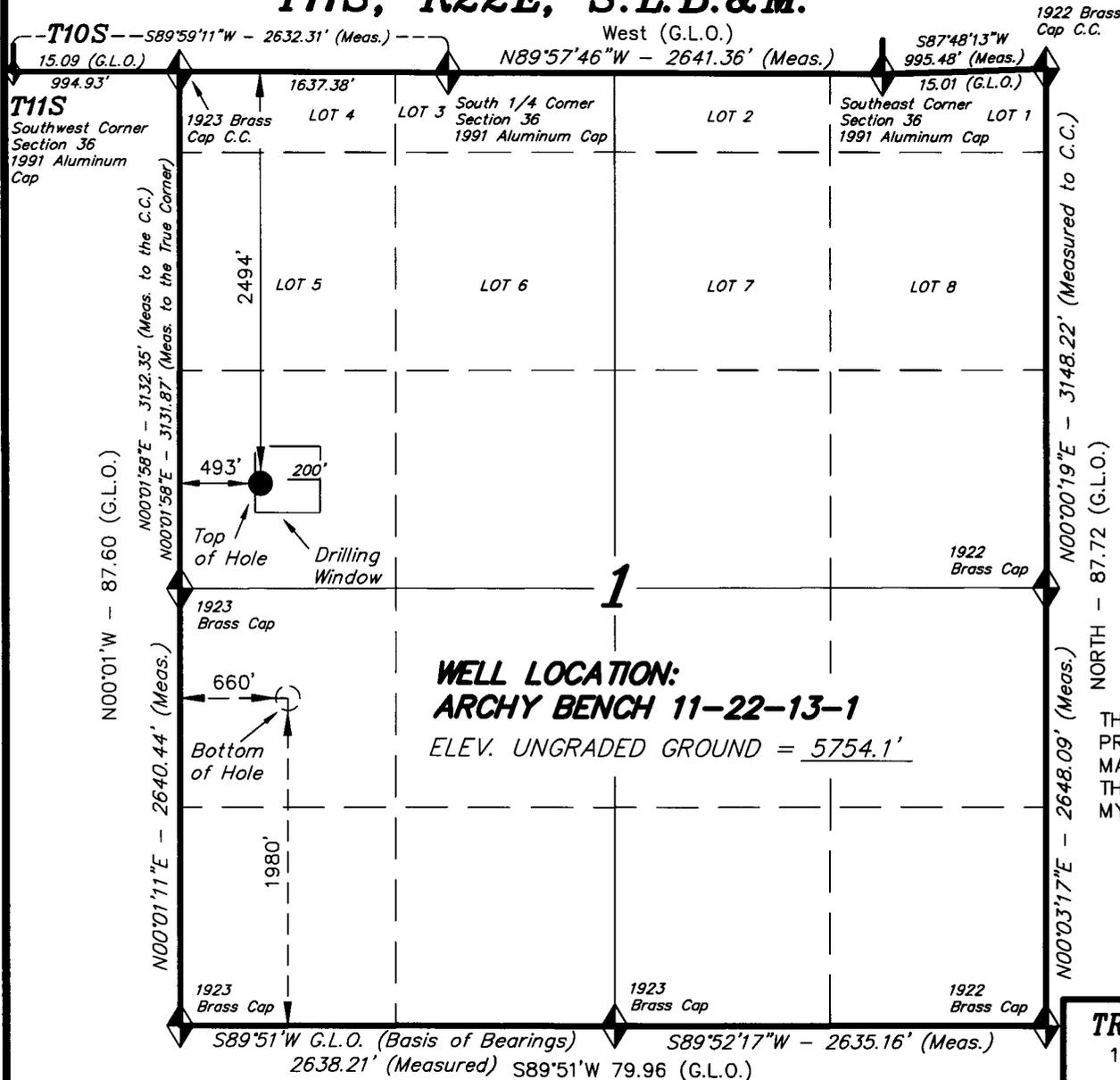
Date: 12-20-06
By: [Signature]

UTAH OIL & GAS & MINING

Federal Approval of this
Action is Necessary

(See Instructions on Reverse Side)

# T11S, R22E, S.L.B.&M.



**WELL LOCATION:**  
**ARCHY BENCH 11-22-13-1**  
 ELEV. UNGRADED GROUND = 5754.1'

## ENDURING RESOURCES

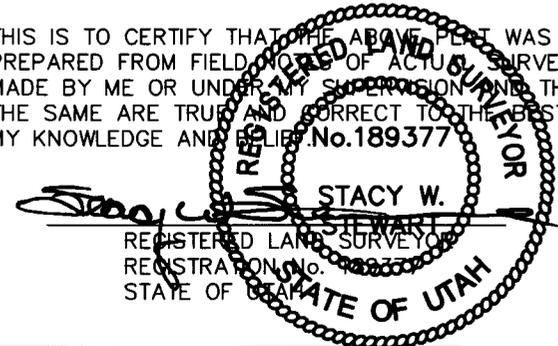
WELL LOCATION, ARCHY BENCH  
 11-22-13-1, LOCATED AS SHOWN IN  
 THE SW 1/4 NW 1/4 OF SECTION 1,  
 T11S, R22E, S.L.B.&M. UINTAH COUNTY,  
 UTAH.



**NOTES:**

- The Bottom of hole bears S07°17'09"E 1307.86' from the Top of Hole.

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. No. 189377



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

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min  
 QUAD (ARCHY BENCH)

**ARCHY BENCH 11-22-13-1**  
 (Surface Location) NAD 83  
 LATITUDE = 39° 53' 28.77"  
 LONGITUDE = 109° 24' 40.15"

DATE DRAWN:  
 08-22-06

REVISED:

NOTES:

SURVEYED BY: J.H.

DRAWN BY: F.T.M.

SCALE: 1" = 1000'

SHEET

2b

OF 11



**Enduring Resources**  
475 17<sup>th</sup> Street Suite 1500 Denver Colorado 80202  
Telephone 303 573-1222 Fax 303 573 0461

December 13, 2006

Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Attn.: Ms. Diana Whitney

RE: Enduring Resources, LLC  
Archy Bench 11-22-13-1  
SWNW 1-11S-22E Surface  
NWSW 1-11S-22E BHL  
Federal Lease: UTU-73903  
Uintah County, Utah

Dear Ms. Whitney:

Enduring Resources, LLC ("ERLLC") plans to drill the above-referenced well directionally from a multi-well pad to limit surface impact and drilling on steep slopes. Enclosed is one original application.

ERLLC is the only leasehold interest owner within 460 feet of any part of the above-referenced proposed well's proposed well bore, therefore,

A. *ERLLC also grants itself permission for an exception well location.*

In the event there are any other outstanding matters preventing this APD from being approved, please let me know at your earliest convenience.

Enduring Resources, LLC is requesting the Utah Division of Oil, Gas and Mining to hold this application and all future information as confidential.

If any questions arise or additional information is required, please contact me at 303-350-5719.

Very truly yours,

Evette Bissett  
Regulatory Affairs Assistant

Enclosures

RECEIVED

DEC 19 2006

DIV. OF OIL, GAS & MINING

## SELF-CERTIFICATION STATEMENT

The following self-certification statement is provided per federal requirements dated June 15, 1988.

Please be advised that Enduring Resources, LLC is considered to be the operator of the following well.

**Archy Bench 11-22-13-1**

Surface Location: SWNW Sec. 1-11S-22E

BHL: NWSW 1-11S-22E

2494' FNL – 493' FWL, Surface

1980' FSL – 660' FWL, BHL

Lease Serial No.: UTU-73903

Uintah County, Utah

Enduring Resources, LLC is responsible under the terms and conditions of the lease for the operations conducted upon leased lands. Bond coverage is provided by UTB000173.



\_\_\_\_\_  
Evette Bissett  
Regulatory Affairs Assistant  
Enduring Resources, LLC  
475 17th Street, Suite 1500  
Denver, CO 80202  
(303) 350-5719

\_\_\_\_\_  
12/13/2006

Date

**Enduring Resources, LLC  
 Archy Bench 11-22-13-1  
 SWNW 1-11S-22E Surface  
 NWSW 1-11S-22E BHL  
 Uintah County, Utah  
 Federal Lease: UTU-73903**

**ONSHORE ORDER 1 - DRILLING PLAN**

**1. Estimated Tops of Geological Markers:**

Formation	Depth (K.B.)
Uinta	Surface
Green River	1107
Wasatch	3857
Mesaverde	6056

**2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals:**

Substance	Formation	Depth (K.B.)
	KB-Uinta Elevation: 5760'	
Oil / Gas	Green River	1107
Oil /Gas	Wasatch	3857
Oil /Gas	Mesaverde	6056
	Estimated TD	8655

An 11" hole will be drilled to approximately 2000 feet. The depth will be determined by the depth that the Birds Nest zone is encountered. The hole will be drilled 400 feet beyond the top of the Birds Nest zone and surface casing will be set.

**3. Pressure Control Equipment: (3000 psi schematic attached)**

- A. Type: Eleven (11) inch double gate hydraulic BOP with eleven (11) inch annular preventer on 3,000 psi casinghead, with 3,000 psi choke manifold equipped per the attached diagram. BOPE as specified in *Onshore Oil & Gas Order Number 2*. A PVT, stroke counter and flow sensor will be installed to check for flow and monitor pit volume.
- B. Pressure Rating: 3,000 psi BOPE
- C. Kelly will be equipped with upper and lower Kelly valves.
- D. Testing Procedure: Annular Preventer

At a minimum, the annular preventer will be pressure tested to 50% of the stack rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

### Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

#### E. Miscellaneous Information:

The blowout preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*.

#### 4. Proposed Casing & Cementing Program:

##### A. Casing Program: All New

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (MD)
20"	14" O.D.				40' (GL)
11"	8-5/8"	24#	J-55	ST&C	0 – 2,016' (KB) est.
7-7/8"	4-1/2"	11.6#	N-80	LT&C	0 – 8655' (KB)

The surface casing will have guide shoe. Centralize the shoe joint with bowspring

centralizers in the middle and top of the joint and the next 16 joints with bowspring centralizers on every other collar (8 centralizers total). Thread lock guide shoe.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

**B. Casing Design Parameters:**

Depth (MD)	Casing	Collapse(psi)/SF	Burst (psi)/SF	Tension(mlbs)/SF
40' (GL)	14" OD			
2016' (KB)	8-5/8", 24#/ft, J55, STC	1370/1.52(a)	2950/3.28(b)	244/5.81(c)
8655' (KB)	4-1/2", 11.6#/ft, N-80, LTC	6350/1.41(d)	7780/1.88 (e)	223/2.58(f)

- (a.) based on full evacuation of pipe with 8.6 ppg fluid on annulus
- (b.) based on 8.6 ppg gradient with no fluid on annulus
- (c.) based on casing string weight in 8.6 ppg mud
- (d.) based on full evacuation of pipe with 10.0 ppg fluid on annulus
- (e.) based on 9.2 ppg gradient, gas to surface, with no fluid on annulus, no gas gradient
- (f.) based on casing string weight in 9.2 ppg mud

**PROPOSED CEMENTING PROGRAM**

**Surface Casing (if well will circulate)-Cemented to surface**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	1516	Premium cement + 16% gel + 0.25 pps celloflake	138	25%	11.1	3.50
8-5/8"	Tail	500	Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake	138	25%	15.8	1.15

A cement top job is required if cement fallback is greater than 10' below ground level. Top job (weight 15.8 ppg, yield 1.15 ft<sup>3</sup>/sx) cement will be premium cement w/ 3% CaCl<sub>2</sub>.+0.25 pps celloflake. Volume as required

**Surface Casing (if well will not circulate) - Cemented to surface**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	500	Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake	138	25	15.8	1.15
8-5/8"	Top job	As req.	Premium cement + 3% CaCl <sub>2</sub> + 0.25 pps celloflake	As Req.		15.8	1.15

**Production Casing and Liner - Cemented TD to 300' above base of surface casing**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
4-1/2"	Lead	1741	Class "G" + 5% NaCl + 12% Gel + 0.25 pps celloflake + 0.2% antifoam + 0.25% fluid loss + 1% extender	152	25	11.0	3.3
4-1/2"	Tail	5198	50/50 POZ Class G + 2% gel +1% CaCl <sub>2</sub> + 0.2% dispersant + 0.2% fluid loss + 0.1% antifoam	949	25	14.3	1.56

Cement volumes for the 4-1/2" Production Casing will be calculated to provide a top of cement to 300' above base of surface casing. Cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole. Actual cement types may vary due to hole conditions and cement contractor used.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

**5. Drilling Fluids (mud) Program:**

Interval (MD)	Mud Weight	Fluid Loss	Viscosity	Mud Type
0' - 2016' (KB)		No cntrl		Air/mist
2000'-3000' (KB)	8.4-8.6	No cntrl	28-36	Water
3000'-8655' (KB)	8.8-9.8	8 - 10 ml	32-42	Water/Gel

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

**6. Evaluation Program:**

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: No sampling is currently planned.

## Logging

- Dual Induction – SFL /Gamma Ray/Caliper/SP/TDLT/CNL/ML  
TD to Base Surface Casing
- Cement Bond Log / Gamma Ray:  
TD to Base of Surface Casing or Top of Cement if below Base of Surface Casing

Stimulation: A stimulation or frac treatment will be designed for completion of this well based on openhole log analysis. The drill site, as approved, will be sufficient size to accommodate all completion activities.

### 7. Abnormal Conditions:

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 4501 psi (calculated at 0.52psi/foot of hole) and maximum anticipated surface pressure equals approximately 2597 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

### 8. Anticipated Starting Dates:

- Anticipated Commencement Date- Within one year of APD issue.
- Drilling Days- Approximately 10 days
- Completion Days - Approximately 10 days
- Anticipate location construction within 30 days of permit issue.

### 9. Variations:

None anticipated

### 10. Other:

A Cultural Resource Inventory and Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The reports shall be submitted to the Division of Oil, Gas and Mining and the School and Institutional Trust lands Administration upon their receipt.

Single Shot directional surveys will be dropped every 2000 feet to monitor hole angle.

## **Directions to the Archy Bench 11-22-13-1 Well Pad**

Beginning at the city of Bonanza, Utah: Leave the city of Bonanza heading southerly on state highway 45 for a distance of approximately 4.9 miles and turn left on to Road 4170 (Southam Canyon Road). Continue southwest on Road 4170 approximately 8.5 miles to Road 4160 (Asphalt Wash Road) and turn left. Continue south on Road 4160 approximately 9.5 miles until it intersects with Road 4120 (Bitter Creek Road). Turn right and go 1.9 miles on Road 4120 to Road 4230 (Saddletree Draw Road) and turn right. Go 4.8 miles on Road 4230 and turn left on to Road 4150 (Archy Bench Road). Go approximately 4.8 miles on Road 4150 to the turn-off point for the new access. Go left, 370 feet to the proposed well pad.

**Enduring Resources, LLC  
Archy Bench 11-22-13-1  
SWNW 1-11S-22E Surface  
NWSW 1-11S-22E BHL  
Uintah County, Utah**

**Federal Lease: UTU-73903**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. Existing Roads:**

Beginning at the city of Bonanza, Utah: Leave the city of Bonanza heading southerly on state highway 45 for a distance of approximately 4.9 miles and turn left on to Road 4170 (Southam Canyon Road). Continue southwest on Road 4170 approximately 8.5 miles to Road 4160 (Asphalt Wash Road) and turn left. Continue south on Road 4160 approximately 9.5 miles until it intersects with Road 4120 (Bitter Creek Road). Turn right and go 1.9 miles on Road 4120 to Road 4230 (Saddletree Draw Road) and turn right. Go 4.8 miles on Road 4230 and turn left on to Road 4150 (Archy Bench Road). Go approximately 4.8 miles on Road 4150 to the turn-off point for the new access. Go left, 370 feet to the proposed well pad.

**2. Planned Access Roads:**

The proposed access road will be approximately 195 feet of new construction. Please refer to Topo Map "B" for the takeoff point for the new ON-LEASE road construction. This well is being drilled from the same pad as the Archy Bench 11-22-12-1.

The proposed access road will be utilized to transport personnel, equipment and supplies to and from the proposed well site during drilling, completion and production operations. The road will be utilized year round.

The access road will be crowned 2% to 3%, ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet right-of-way. Maximum grade of road is 5% or less. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. No fence crossings, culverts, turnouts, cattle guards or major cuts and fills are required. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. 1989.

The road surface and shoulders will be kept in a safe usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches and the turnouts kept clear so that snowmelt will be channeled away from the road.

**3. Location of Existing Wells within a One-Mile radius (See "Topo" Map "C" attached):**

The following wells are wells located within a one (1) mile or greater radius of the proposed location.

- a. (1): Water Wells:
  - 1. BLM stock water dam (WRNUM: 49-336)
- b. None: Injection Wells:
- c. (3): Producing Wells:
  - 1. Archy Bench State 1-2, NENE, Sec 2
  - 2. NBU 70-34B, NESW, Sec 34
  - 3. Archy Bench 1-7, SWNE, Sec 1
- d. None: Drilling Wells:
- e. None: Shut-in Wells:
- f. None: Temporarily Abandoned Wells:
- g. None: Disposal Wells:
- h. None: Abandoned Wells:
- i. None: Dry Holes:
- j. None: Observation Wells:
- k. (10): Pending (staked) Wells:
  - 1. There are ten pending wells staked in this area

**4. Location of Existing and/or Proposed Facilities:**

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank and be independent of the back cut.

All permanent (on site for six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the rocky Mountain Five State Inter-Agency Committee

All facilities will be painted within 6 months of installation. The color shall be Dark Olive Black. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Gas Gathering Pipeline: ON-LEASE -0'  
OFF-LEASE -0-

This well will use the existing pipeline for the Archy Bench 11-22-12-1.

The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter.

Upon plugging and abandonment, the gas gathering line will be removed and the disturbed area will be re-contoured and restored as near as practical to the original condition. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

**5. Location and Type of Water Supply:**

Whenever practical, water will be obtained from Enduring Resources LLC Water Right Number 49-2215 or Water Right Number 49-2216 (\*See Townships of permitted Use below). If those sources are not available, a new water source shall be submitted prior to commencing operations. (These permits have one-year terms and then must be renewed)  
\*Enduring Water Permits' Townships of Use:

T10S-R22E	<u><b>T11S-R22E</b></u>	T12S-R22E
T10S-R23E	<u><b>T11S-R23E</b></u>	T12S-R23E
T10S-R24E	<u><b>T11S-R24E</b></u>	T12S-R24E

Water will be hauled to the location over the roads marked on "Topo" Maps "A" and "B."

No water well is to be drilled on this lease.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized for location and access road construction.

Any gravel will be obtained from a commercial source; however, gravel sized rock debris associated with location and access road construction may be used as access road surfacing material.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit well be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, brake or allow discharge of liquids.

The reserve pit will be lined with ¼ felt and a minimum of 16 mm plastic with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the will be disposed of in the pit.

A chemical portable toilet will be furnished with the drilling rig. The toilet will be replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

Garbage, trash and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash well be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

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 in association with the drilling, completion or testing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well.

Produced oil will be stored in an oil tank and then hauled by truck to a crude purchaser facility. Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to an approved disposal site.

**8. Ancillary Facilities:**

During drilling operations, approximately 20 days, the site will be a manned camp. Three or four additional trailers will be on location to serve as the crews' housing and eating facilities. These will be located on the perimeter of the pad site within the topsoil stockpiles. Refer to Sheet 4.

**9. Well Site Layout: (Refer to Sheets #2, #3, and #4)**

The attached Location Layout Diagrams described drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpiles(s).

Please see the attached diagram for rig orientation and access roads.

The top soil will be windrowed rather than piled. It will be reseeded and track walker at the time the location is constructed. Seeding will be with the determined during the onsite. (Refer to "Seed Mixture for Windrowed Top Soil Will included:" following herein.

The top soil removed from the pit area will be store separately and will not be reseeded until the pit is reclaimed.

All pits shall be fence to the following minimum standards:

- a. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- b. The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches over the new wire. Total height of the fence shall be at least 42 inches.
- c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- d. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two fence posts shall be no greater than 16 feet.
- e. All wire shall be stretched by, using a stretching device, before it is attached to corner posts.
- f. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.
- g. Location size may change prior to drilling the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling, the location will be re-surveyed and a Form 9 will be submitted.

**10. Plans for Surface Reclamation:**

**Producing Location:**

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production.
- b. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 40CFR 3162.7.
- c. Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

- d. The reserve pit and that portion of the location not needed for production facilities / operations will be re-contoured to the approximated natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.
- e. To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface 3 feet above surrounding round surface to allow the reclaimed pit area to drain effectively.
- f. Upon completion of back filling, leveling and re-contouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

**Dry Hole/Abandoned Location:**

- i. Abandoned well sites, roads and other disturbed areas will be restored as nearly as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions and re-establishment of vegetation as specified.
- ii. All disturbed surfaces will be re-contoured to the approximated natural contours with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

**Seed Mixture for Windrowed Top Soil Will Included:**

To be provided by the BLM

**11. Surface Ownership: Location, Access and Pipeline Route:**

Wellsite: Bureau of Land Management

Access: Bureau of Land Management

Pipeline: Bureau of Land Management

**12. Other Information**

**The on-site inspection for this well pad was done when the Archy Bench 11-22-12-1 well pad was built:**

**Archeology:**

- a. A Cultural Resource Inventory Report is pending and to be prepared by Montgomery Archaeological Consultants.

**Paleontology:**

- b. A Paleontology Reconnaissance Report is pending and to be prepared by Intermountain Paleo-Consulting.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

**13. Lessee's or Operator's Representatives:**

**Representatives:**

Alvin R. (Al) Arlian  
Landman – Regulatory Specialist  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-350-5114  
Fax Tel: 303-573-0461  
[aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)

Teme Singleton  
Vice President – Operations  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-350-5711  
Fax Tel: 303-573-0461  
[tsingleton@enduringresources.com](mailto:tsingleton@enduringresources.com)

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his/her/its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The operator or his/her/its contractor shall contact the BLM office at (435) 781-4400 forty-eight (48) hours prior to construction activities.

The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

**Certification:**

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 presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be preformed by Enduring Resources, LLC and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

Please be advised that Enduring Resources, LLC is considered to be the operator of the Archy Bench 11-22-13-1 Well; SWNW Section 1, Township 11 South, Range 22 East, Surface, NWSW Section 1, Township 11 South, Range 22E, BHL; Lease #:UTU-73903 Uintah County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by BLM Statewide Oil & Gas Lease Bond No. UTB000173 and State of Utah, Division of Oil, Gas & Mining Surety Bond No. RLB0008031

**ENDURING RESOURCES, LLC**

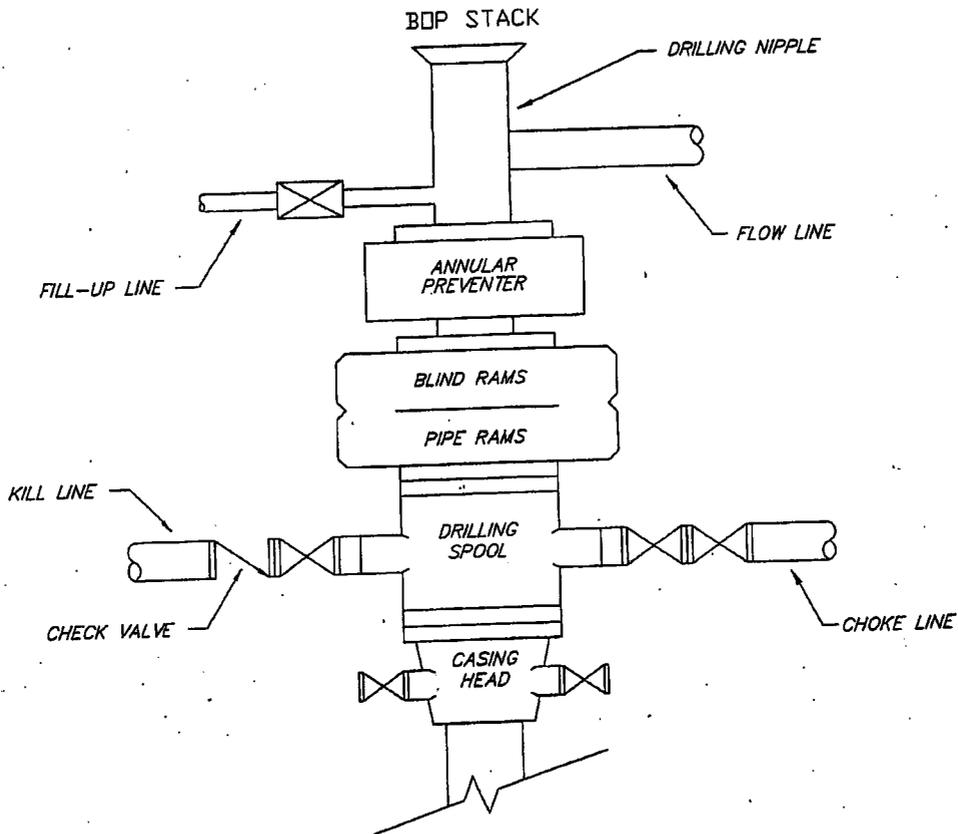


Alvin (Al) R. Arlian  
Landman – Regulatory Specialist

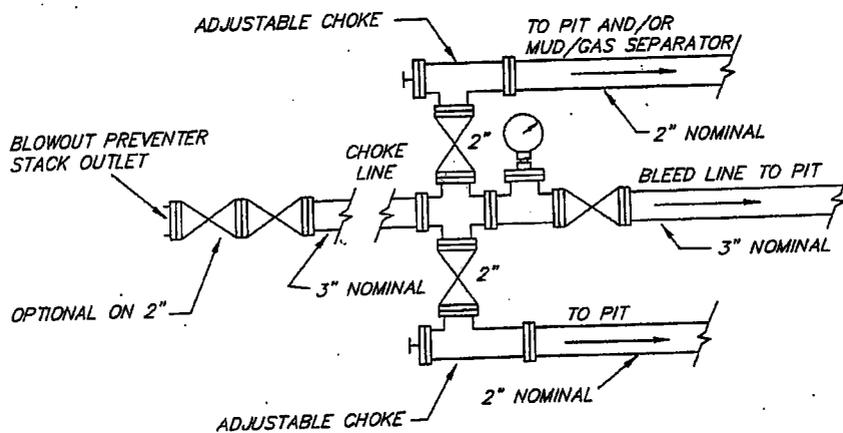
December 13, 2006

**ENDURING RESOURCES, LLC**

TYPICAL 3,000 p.s.i.  
BLOWOUT PREVENTER SCHEMATIC



TYPICAL 3,000 p.s.i.  
CHOKE MANIFOLD SCHEMATIC





**Weatherford<sup>®</sup>**

## **Drilling Services**

---

## **Proposal**

---

### **ENDURING RESOURCES, INC.**

ARCHY BENCH 11-22-13-1

UINTAH COUNTY, UTAH

WELL FILE: **PLAN 1**

SEPTEMBER 13, 2006

---

**Weatherford International, Ltd.**

15710 JGK BLVD, Suite 700

Houston, Texas 77060 USA

+1.281.260.1300 Main

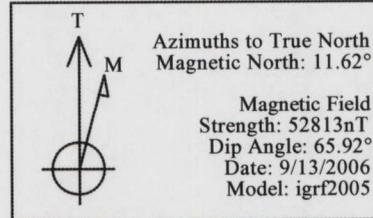
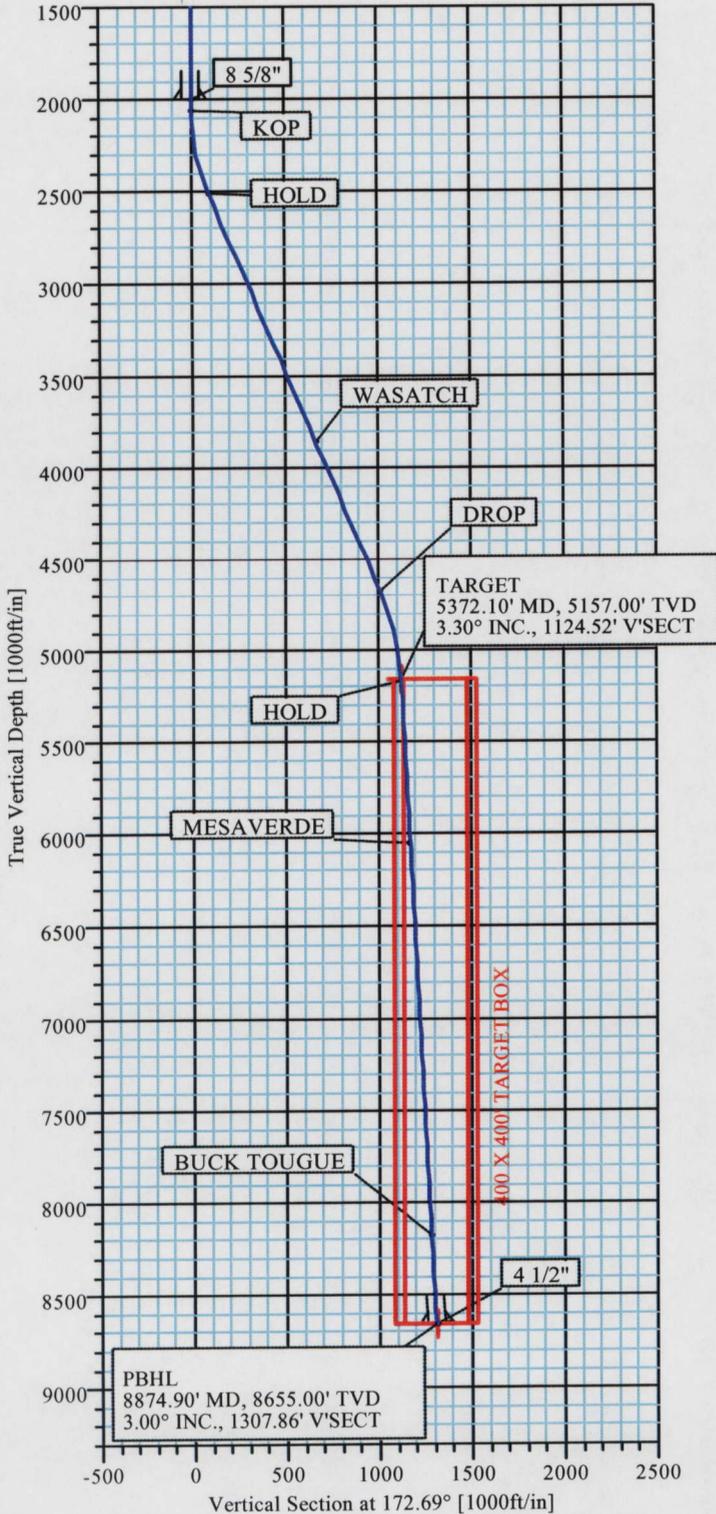
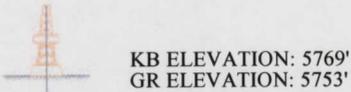
+1.281.260.4730 Fax

[www.weatherford.com](http://www.weatherford.com)

# ENDURING RESOURCES, L.L.C.

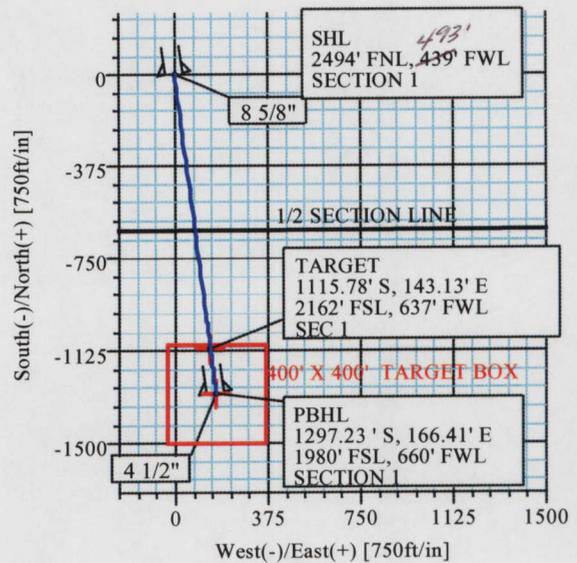
ARCHY BENCH #11-22-13-1  
 SW/4 NW/4 SEC 1-T11S-R22E  
 2494' FNL, 493' FWL  
 UTAH COUNTY, UTAH

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	172.69	0.00	0.00	0.00	0.00	0.00	0.00	
2	2060.00	0.00	172.69	2060.00	0.00	0.00	0.00	0.00	0.00	KOP
3	2520.00	23.00	172.69	2507.74	-90.35	11.59	5.00	172.69	91.09	HOLD
4	4879.49	23.00	172.69	4679.66	-1004.79	128.89	0.00	0.00	0.00	DROP
5	5379.49	3.00	172.69	5164.38	-1115.78	143.13	4.00	180.00	1124.92	HOLD
6	8874.90	3.00	172.69	8655.00	-1297.23	166.41	0.00	0.00	1307.86	PBHL



TOTAL CORRECTION TO TRUE NORTH: 11.62°

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	1107.00	1107.00	GREEN RIVER
2	3857.00	3985.78	WASATCH
3	6056.00	6272.33	MESAVERDE
4	8179.00	8398.24	BUCK TOUGUE



## Weatherford®

Plan: Plan #1 (ARCHY BENCH 11-22-13-1/1)	
Created By: ROBERT H. SCOTT	Date: 9/13/2006
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____

# WEATHERFORD DRILLING SERVICES

## WELL PLAN REPORT

<b>Company:</b> Enduring Resources	<b>Date:</b> 9/13/2006	<b>Time:</b> 13:59:27	<b>Page:</b> 1
<b>Field:</b> Uintah Basin (NAD 83)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> ARCH BENCH 11-22-13-1, True North	
<b>Site:</b> ARCH BENCH 11-22-13-1	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 5769.0	
<b>Well:</b> ARCHY BENCH 11-22-13-1	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,172.69Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

<b>Plan:</b> Plan #1	<b>Date Composed:</b> 9/13/2006	
<b>Principal:</b> Yes	<b>Version:</b> 1	
	<b>Tied-to:</b> From Surface	

<b>Field:</b> Uintah Basin (NAD 83) Unitah County, Utah USA	<b>Map Zone:</b> Utah, Central Zone
<b>Map System:</b> US State Plane Coordinate System 1983	<b>Coordinate System:</b> Site Centre
<b>Geo Datum:</b> GRS 1980	<b>Geomagnetic Model:</b> igrf2005
<b>Sys Datum:</b> Mean Sea Level	

<b>Well:</b> ARCHY BENCH 11-22-13-1	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0.00 ft <b>Northing:</b> 7135996.77 ft	<b>Latitude:</b> 39 53 28.770 N
+E/-W 0.00 ft <b>Easting:</b> 2226453.23 ft	<b>Longitude:</b> 109 24 40.150 W
<b>Position Uncertainty:</b> 0.00 ft	

<b>Wellpath:</b> 1	<b>Drilled From:</b> Surface
<b>Current Datum:</b> SITE	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 9/13/2006	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 52813 nT	<b>Declination:</b> 11.62 deg
<b>Vertical Section:</b> Depth From (TVD)	<b>Mag Dip Angle:</b> 65.92 deg
ft	+N/-S
	+E/-W
	ft
	Direction
	deg
0.00	0.00
0.00	0.00
0.00	172.69

<b>Site:</b> ARCH BENCH 11-22-13-1			
UINTAH COUNTY, UTAH			
<b>Site Position:</b>	<b>Northing:</b> 7135996.77 ft	<b>Latitude:</b> 39 53 28.770 N	
<b>From:</b> Geographic	<b>Easting:</b> 2226453.23 ft	<b>Longitude:</b> 109 24 40.150 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> True	
<b>Ground Level:</b> 5753.90 ft		<b>Grid Convergence:</b> 1.34 deg	

**Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	172.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2060.00	0.00	172.69	2060.00	0.00	0.00	0.00	0.00	0.00	0.00	
2520.00	23.00	172.69	2507.74	-90.35	11.59	5.00	5.00	0.00	172.69	
4879.49	23.00	172.69	4679.66	-1004.79	128.89	0.00	0.00	0.00	0.00	
5379.49	3.00	172.69	5164.38	-1115.78	143.13	4.00	-4.00	0.00	180.00	
8874.90	3.00	172.69	8655.00	-1297.23	166.41	0.00	0.00	0.00	0.00	PBHL

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
2060.00	0.00	172.69	2060.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
2160.00	5.00	172.69	2159.87	-4.33	0.55	4.36	5.00	5.00	0.00	
2260.00	10.00	172.69	2258.99	-17.27	2.22	17.41	5.00	5.00	0.00	
2360.00	15.00	172.69	2356.58	-38.73	4.97	39.05	5.00	5.00	0.00	
2460.00	20.00	172.69	2451.93	-68.55	8.79	69.11	5.00	5.00	0.00	
2520.00	23.00	172.69	2507.74	-90.35	11.59	91.09	5.00	5.00	0.00	HOLD
2560.00	23.00	172.69	2544.57	-105.86	13.58	106.72	0.00	0.00	0.00	
2660.00	23.00	172.69	2636.62	-144.61	18.55	145.80	0.00	0.00	0.00	
2760.00	23.00	172.69	2728.67	-183.37	23.52	184.87	0.00	0.00	0.00	
2860.00	23.00	172.69	2820.72	-222.12	28.49	223.94	0.00	0.00	0.00	
2960.00	23.00	172.69	2912.77	-260.88	33.47	263.02	0.00	0.00	0.00	
3060.00	23.00	172.69	3004.82	-299.63	38.44	302.09	0.00	0.00	0.00	
3160.00	23.00	172.69	3096.87	-338.39	43.41	341.16	0.00	0.00	0.00	
3260.00	23.00	172.69	3188.92	-377.15	48.38	380.24	0.00	0.00	0.00	
3360.00	23.00	172.69	3280.97	-415.90	53.35	419.31	0.00	0.00	0.00	

# WEATHERFORD DRILLING SERVICES

## WELL PLAN REPORT

<b>Company:</b> Enduring Resources	<b>Date:</b> 9/13/2006	<b>Time:</b> 13:59:27	<b>Page:</b> 2
<b>Field:</b> Uintah Basin (NAD 83)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> ARCH BENCH 11-22-13-1, True North	
<b>Site:</b> ARCH BENCH 11-22-13-1	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 5769.0	
<b>Well:</b> ARCHY BENCH 11-22-13-1	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,172.69Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
3460.00	23.00	172.69	3373.02	-454.66	58.32	458.38	0.00	0.00	0.00	
3560.00	23.00	172.69	3465.07	-493.41	63.29	497.46	0.00	0.00	0.00	
3660.00	23.00	172.69	3557.12	-532.17	68.27	536.53	0.00	0.00	0.00	
3760.00	23.00	172.69	3649.17	-570.92	73.24	575.60	0.00	0.00	0.00	
3860.00	23.00	172.69	3741.22	-609.68	78.21	614.67	0.00	0.00	0.00	
3960.00	23.00	172.69	3833.27	-648.43	83.18	653.75	0.00	0.00	0.00	
3985.78	23.00	172.69	3857.00	-658.42	84.46	663.82	0.00	0.00	0.00	WASATCH
4060.00	23.00	172.69	3925.32	-687.19	88.15	692.82	0.00	0.00	0.00	
4160.00	23.00	172.69	4017.37	-725.95	93.12	731.89	0.00	0.00	0.00	
4260.00	23.00	172.69	4109.42	-764.70	98.10	770.97	0.00	0.00	0.00	
4360.00	23.00	172.69	4201.47	-803.46	103.07	810.04	0.00	0.00	0.00	
4460.00	23.00	172.69	4293.52	-842.21	108.04	849.11	0.00	0.00	0.00	
4560.00	23.00	172.69	4385.57	-880.97	113.01	888.19	0.00	0.00	0.00	
4660.00	23.00	172.69	4477.63	-919.72	117.98	927.26	0.00	0.00	0.00	
4760.00	23.00	172.69	4569.68	-958.48	122.95	966.33	0.00	0.00	0.00	
4860.00	23.00	172.69	4661.73	-997.23	127.92	1005.41	0.00	0.00	0.00	
4879.49	23.00	172.69	4679.66	-1004.79	128.89	1013.02	0.00	0.00	0.00	DROP
4960.00	19.78	172.69	4754.62	-1033.91	132.63	1042.38	4.00	-4.00	0.00	
5060.00	15.78	172.69	4849.83	-1064.19	136.51	1072.91	4.00	-4.00	0.00	
5160.00	11.78	172.69	4946.93	-1087.81	139.54	1096.72	4.00	-4.00	0.00	
5260.00	7.78	172.69	5045.46	-1104.65	141.70	1113.70	4.00	-4.00	0.00	
5360.00	3.78	172.69	5144.93	-1114.64	142.99	1123.77	4.00	-4.00	0.00	
5372.10	3.30	172.69	5157.00	-1115.38	143.08	1124.52	4.00	-4.00	0.00	2162' FSL, 637' FWL
5379.49	3.00	172.69	5164.38	-1115.78	143.13	1124.92	4.00	-4.00	0.00	HOLD
5460.00	3.00	172.69	5244.78	-1119.96	143.67	1129.14	0.00	0.00	0.00	
5560.00	3.00	172.69	5344.65	-1125.15	144.33	1134.37	0.00	0.00	0.00	
5660.00	3.00	172.69	5444.51	-1130.34	145.00	1139.61	0.00	0.00	0.00	
5760.00	3.00	172.69	5544.37	-1135.53	145.67	1144.84	0.00	0.00	0.00	
5860.00	3.00	172.69	5644.23	-1140.73	146.33	1150.07	0.00	0.00	0.00	
5960.00	3.00	172.69	5744.10	-1145.92	147.00	1155.31	0.00	0.00	0.00	
6060.00	3.00	172.69	5843.96	-1151.11	147.66	1160.54	0.00	0.00	0.00	
6160.00	3.00	172.69	5943.82	-1156.30	148.33	1165.77	0.00	0.00	0.00	
6260.00	3.00	172.69	6043.69	-1161.49	149.00	1171.01	0.00	0.00	0.00	
6272.33	3.00	172.69	6056.00	-1162.13	149.08	1171.65	0.00	0.00	0.00	MESAVERDE
6360.00	3.00	172.69	6143.55	-1166.68	149.66	1176.24	0.00	0.00	0.00	
6460.00	3.00	172.69	6243.41	-1171.87	150.33	1181.47	0.00	0.00	0.00	
6560.00	3.00	172.69	6343.27	-1177.06	150.99	1186.71	0.00	0.00	0.00	
6660.00	3.00	172.69	6443.14	-1182.25	151.66	1191.94	0.00	0.00	0.00	
6760.00	3.00	172.69	6543.00	-1187.45	152.32	1197.18	0.00	0.00	0.00	
6860.00	3.00	172.69	6642.86	-1192.64	152.99	1202.41	0.00	0.00	0.00	
6960.00	3.00	172.69	6742.73	-1197.83	153.66	1207.64	0.00	0.00	0.00	
7060.00	3.00	172.69	6842.59	-1203.02	154.32	1212.88	0.00	0.00	0.00	
7160.00	3.00	172.69	6942.45	-1208.21	154.99	1218.11	0.00	0.00	0.00	
7260.00	3.00	172.69	7042.32	-1213.40	155.65	1223.34	0.00	0.00	0.00	
7360.00	3.00	172.69	7142.18	-1218.59	156.32	1228.58	0.00	0.00	0.00	
7460.00	3.00	172.69	7242.04	-1223.78	156.99	1233.81	0.00	0.00	0.00	
7560.00	3.00	172.69	7341.90	-1228.97	157.65	1239.04	0.00	0.00	0.00	
7660.00	3.00	172.69	7441.77	-1234.16	158.32	1244.28	0.00	0.00	0.00	
7760.00	3.00	172.69	7541.63	-1239.36	158.98	1249.51	0.00	0.00	0.00	
7860.00	3.00	172.69	7641.49	-1244.55	159.65	1254.74	0.00	0.00	0.00	
7960.00	3.00	172.69	7741.36	-1249.74	160.32	1259.98	0.00	0.00	0.00	
8060.00	3.00	172.69	7841.22	-1254.93	160.98	1265.21	0.00	0.00	0.00	
8160.00	3.00	172.69	7941.08	-1260.12	161.65	1270.45	0.00	0.00	0.00	

# WEATHERFORD DRILLING SERVICES

## WELL PLAN REPORT

<b>Company:</b> Enduring Resources	<b>Date:</b> 9/13/2006	<b>Time:</b> 13:59:27	<b>Page:</b> 3
<b>Field:</b> Uintah Basin (NAD 83)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> ARCH BENCH 11-22-13-1, True North	
<b>Site:</b> ARCH BENCH 11-22-13-1	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 5769.0	
<b>Well:</b> ARCHY BENCH 11-22-13-1	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,172.69Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
8260.00	3.00	172.69	8040.94	-1265.31	162.31	1275.68	0.00	0.00	0.00	
8360.00	3.00	172.69	8140.81	-1270.50	162.98	1280.91	0.00	0.00	0.00	
8398.24	3.00	172.69	8179.00	-1272.49	163.23	1282.91	0.00	0.00	0.00	BUCK TOUGUE
8460.00	3.00	172.69	8240.67	-1275.69	163.65	1286.15	0.00	0.00	0.00	
8560.00	3.00	172.69	8340.53	-1280.88	164.31	1291.38	0.00	0.00	0.00	
8660.00	3.00	172.69	8440.40	-1286.08	164.98	1296.61	0.00	0.00	0.00	
8760.00	3.00	172.69	8540.26	-1291.27	165.64	1301.85	0.00	0.00	0.00	
8860.00	3.00	172.69	8640.12	-1296.46	166.31	1307.08	0.00	0.00	0.00	
8874.90	3.00	172.69	8655.00	-1297.23	166.41	1307.86	0.00	0.00	0.00	PBHL

### Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →				
	Dip.	Dir.						Deg	Min	Sec	Deg	Min	Sec		
2162' FSL, 637' FWL			5157.00	-1115.38	143.08	7134885.04	2226622.32	39	53	17.746	N	109	24	38.314	W
-Plan hit target															
PBHL			8655.00	-1297.23	166.41	7134703.78	2226649.88	39	53	15.949	N	109	24	38.015	W
-Rectangle (400x400)															
-Plan hit target															

### Annotation

MD ft	TVD ft	
2060.00	2060.00	KOP
2520.00	2507.74	HOLD
4879.49	4679.67	DROP
5379.49	5164.38	HOLD
		PBHL

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1107.00	1107.00	GREEN RIVER		0.00	0.00
3985.78	3857.00	WASATCH		0.00	0.00
6272.33	6056.00	MESAVERDE		0.00	0.00
8398.24	8179.00	BUCK TOUGUE		0.00	0.00

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2000.00	2000.00	0.000	0.000	8 5/8"
8874.90	8655.00	0.000	0.000	4 1/2"

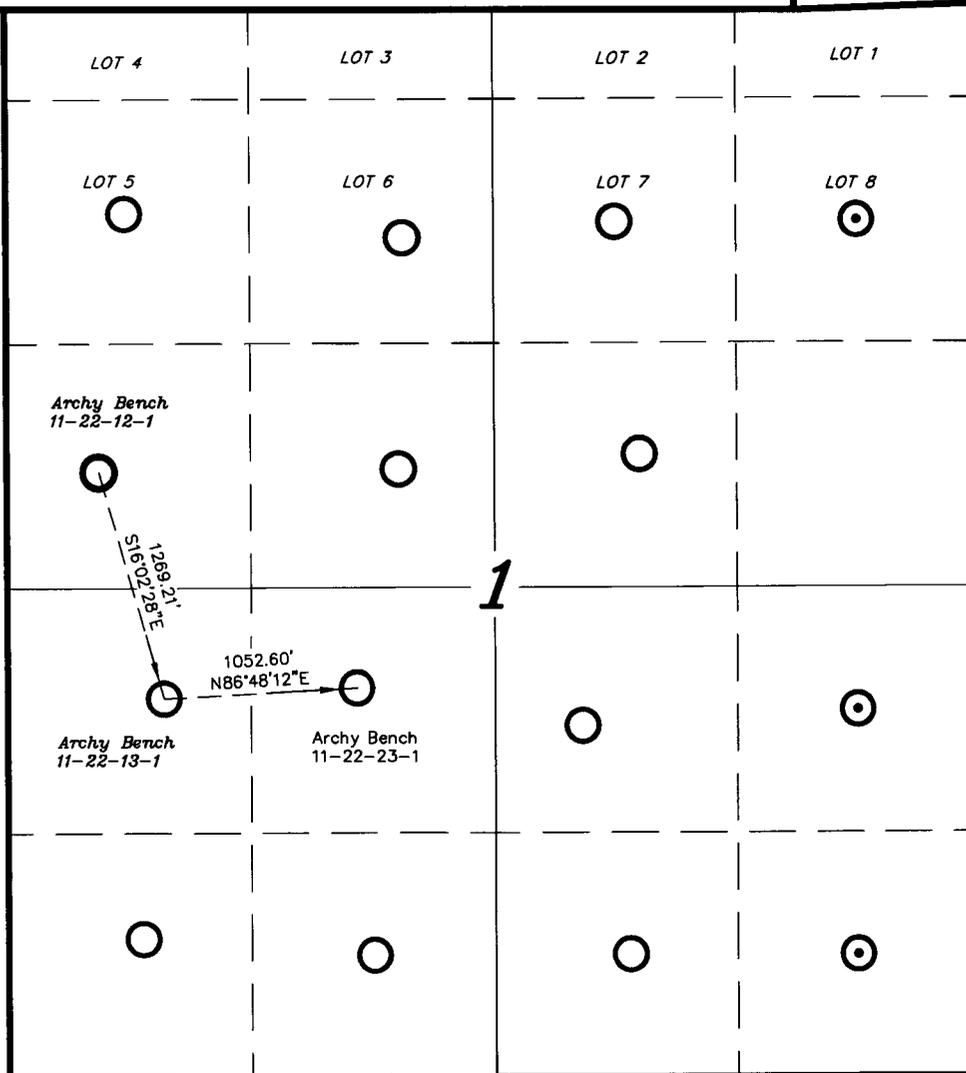
**T11S, R22E, S.L.B.&M.**

**ENDURING RESOURCES**

**SECTION DRILLING MAP  
ARCHY BENCH  
11-22-12-1 & 11-22-13-1**

T10S

T11S



**LEGEND**

- = Vertical Well
- ⊙ = Directional Well Bottom Hole

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE DRAWN: 08-22-06	SURVEYED BY: J.H.	<b>SHEET 1 OF 11</b>
REVISED:	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	

# ENDURING RESOURCES

## WELL PAD INTERFERENCE PLAT ARCHY BENCH 11-22-12-1 & 13-1

Pad Location: SWNW Section 1, T11S, R22E, S.L.B.&M.



**TOP HOLE FOOTAGES**

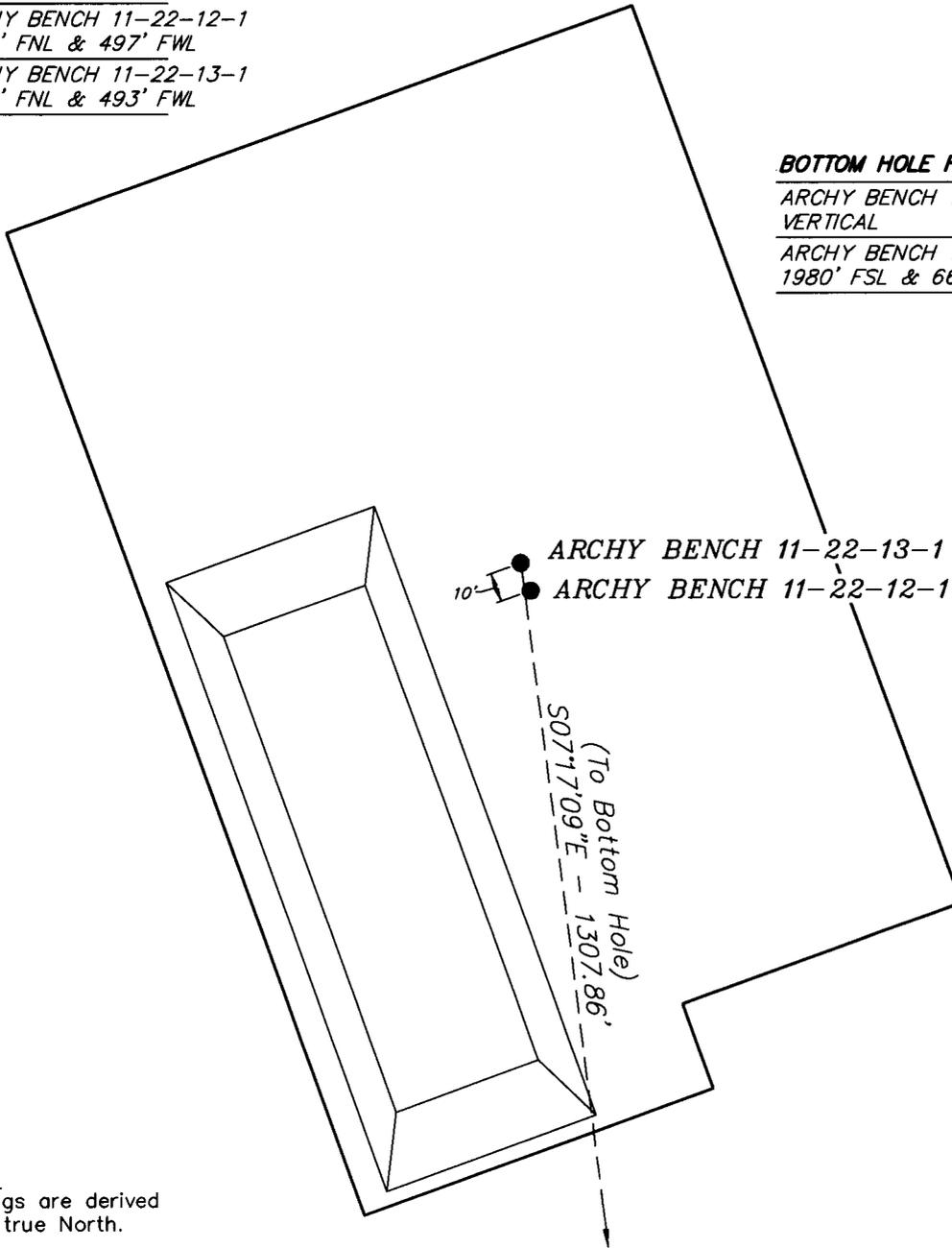
ARCHY BENCH 11-22-12-1  
2503' FNL & 497' FWL

ARCHY BENCH 11-22-13-1  
2494' FNL & 493' FWL

**BOTTOM HOLE FOOTAGES**

ARCHY BENCH 11-22-12-1  
VERTICAL

ARCHY BENCH 11-22-13-1  
1980' FSL & 660' FWL



**Note:**

Bearings are derived using true North.

<i>RELATIVE COORDINATES</i> <i>From top hole to bottom hole</i>		
WELL	NORTH	EAST
12-1	N/A	N/A
13-1	-1,297'	166'

<i>LATITUDE &amp; LONGITUDE</i> <i>Surface position of Wells (NAD 83)</i>		
WELL	LATITUDE	LONGITUDE
12-1	39° 53' 28.68"	109° 24' 40.11"
13-1	39° 53' 28.77"	109° 24' 40.15"

SURVEYED BY: J.H.	DATE DRAWN: 8-22-06
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

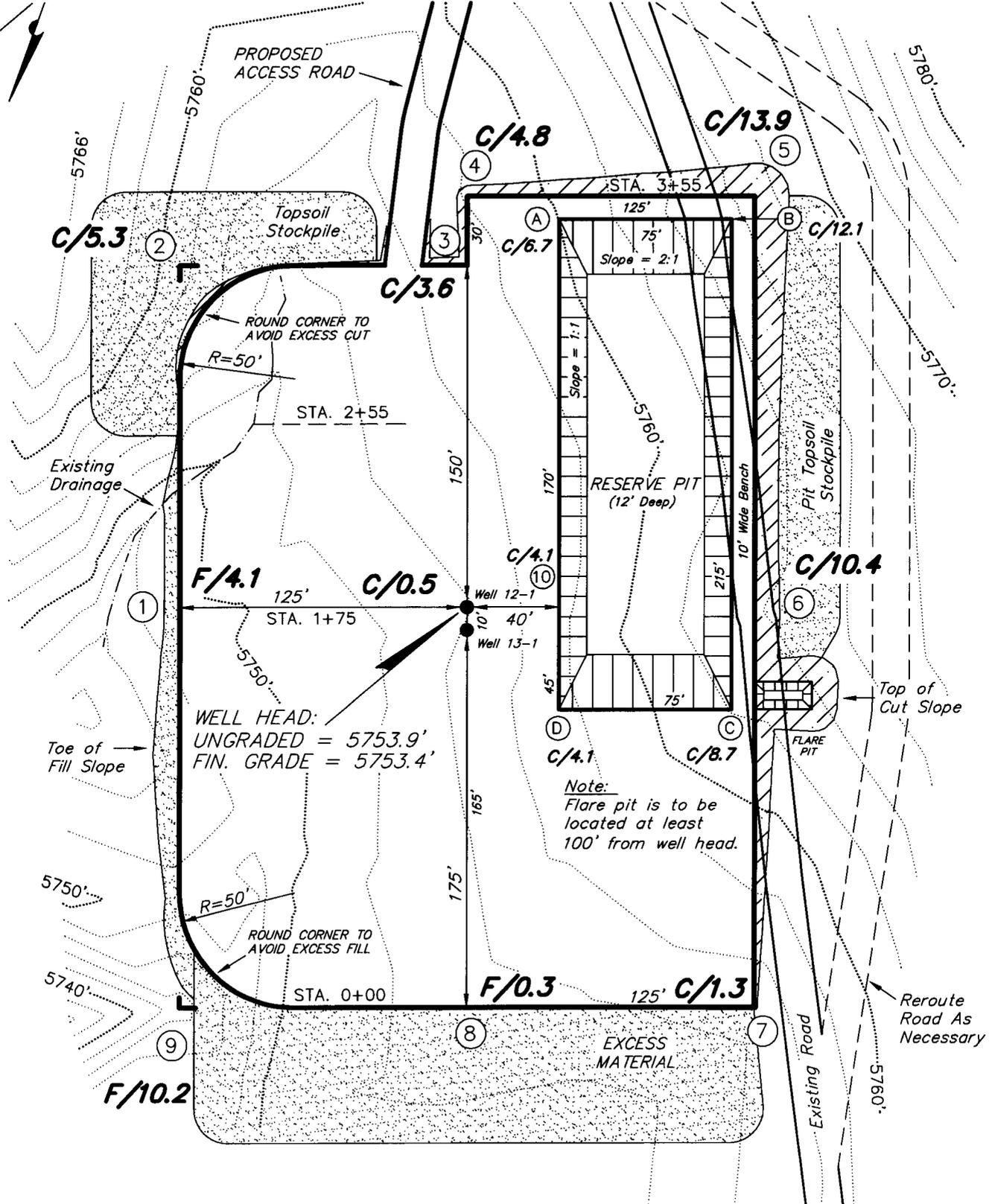
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

SHEET  
**3**  
OF 11

# ENDURING RESOURCES

## ARCHY BENCH 11-22-12-1 & 13-1

Pad Location: SWNW Section 1, T11S, R22E, S.L.B.&M.



WELL HEAD:  
 UNGRADED = 5753.9'  
 FIN. GRADE = 5753.4'

*Note:*  
 Flare pit is to be located at least 100' from well head.

SURVEYED BY: J.H.	DATE DRAWN: 8-22-06
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

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

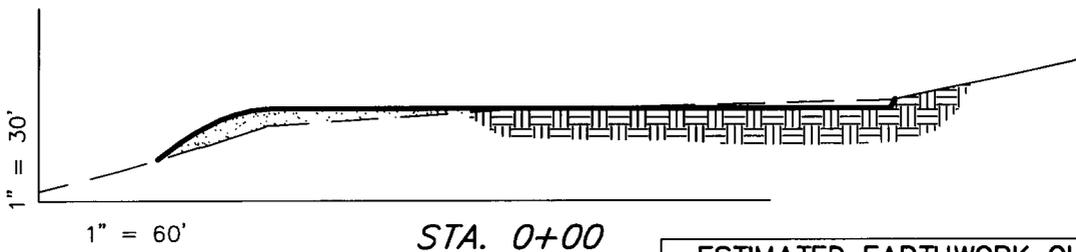
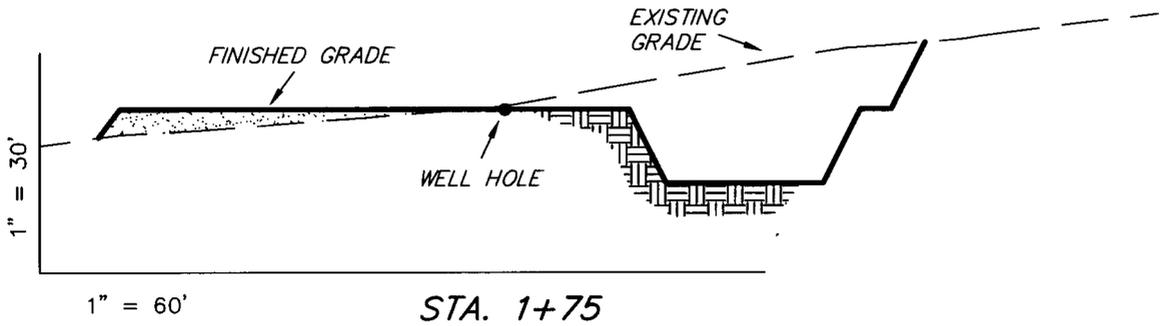
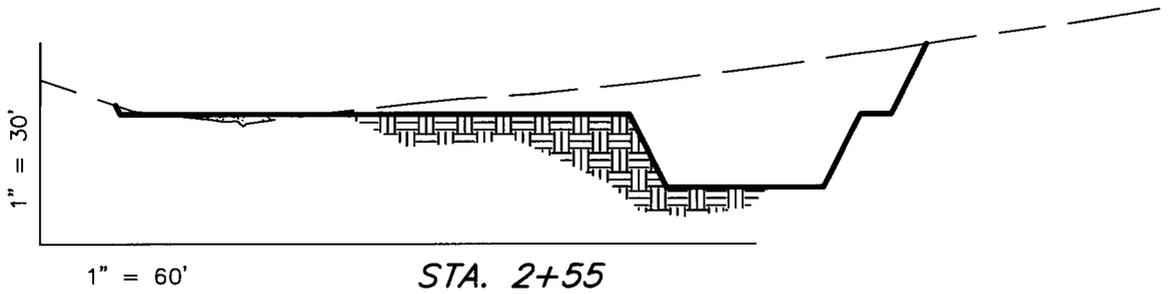
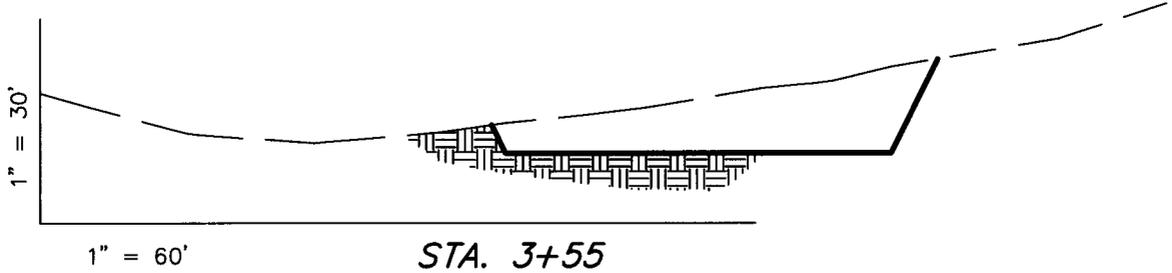
(435) 781-2501

# ENDURING RESOURCES

## CROSS SECTIONS

ARCHY BENCH 11-22-12-1 & 13-1

Pad Location: SWNW Section 1, T11S, R22E, S.L.B.&M.



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	9,100	3,460	Topsoil is not included in Pad Cut	5,640
PIT	5,390	0		5,390
TOTALS	14,490	3,460	1,710	11,030

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

SURVEYED BY: J.H. DATE DRAWN: 8-22-06

DRAWN BY: F.T.M. SCALE: 1" = 60'

NOTES:

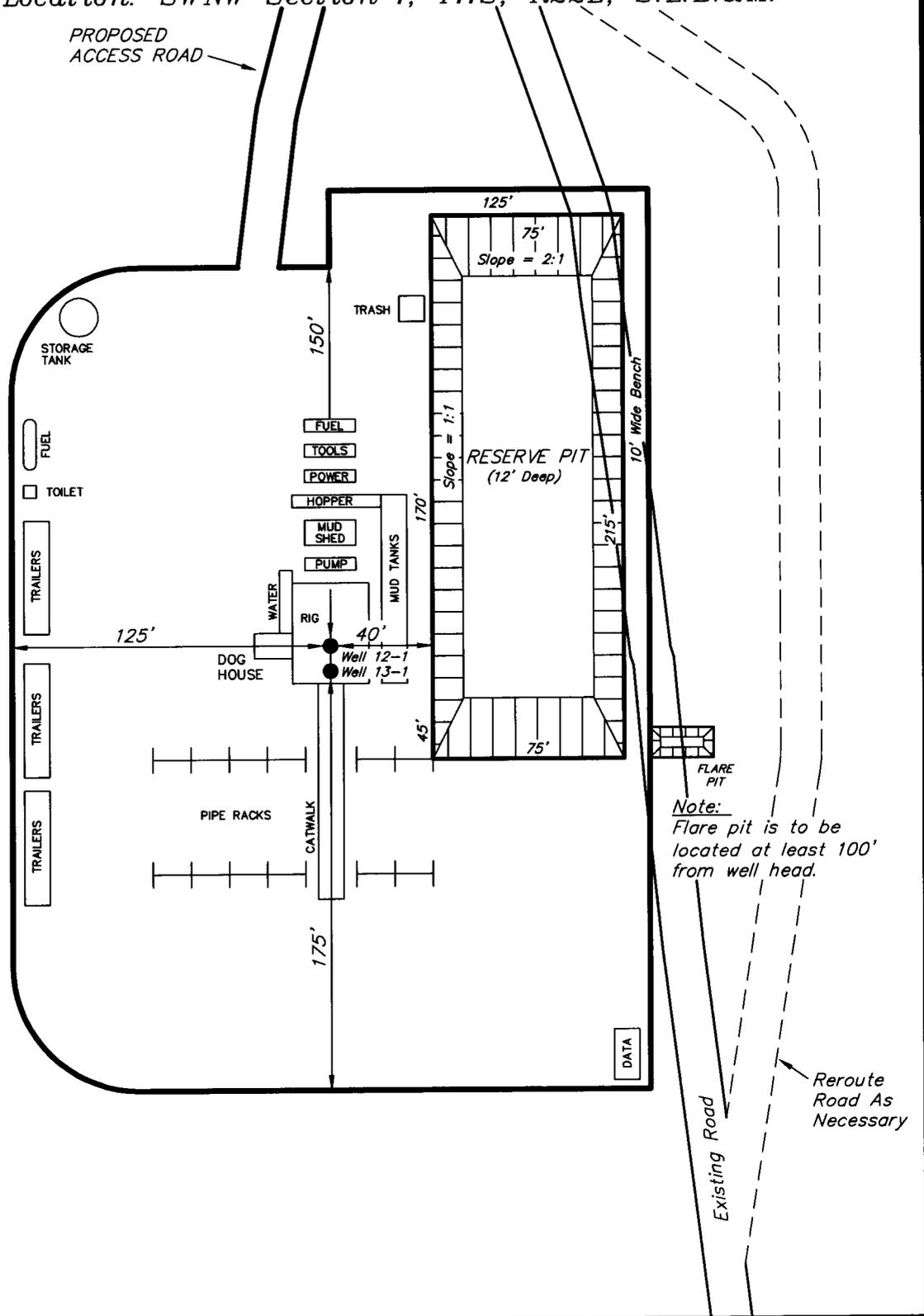
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

SHEET  
5  
OF 11

# ENDURING RESOURCES

## TYPICAL RIG LAYOUT ARCHY BENCH 11-22-12-1 & 13-1

Pad Location: SWNW Section 1, T11S, R22E, S.L.B.&M.



SURVEYED BY: J.H.	DATE DRAWN: 8-22-06
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

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

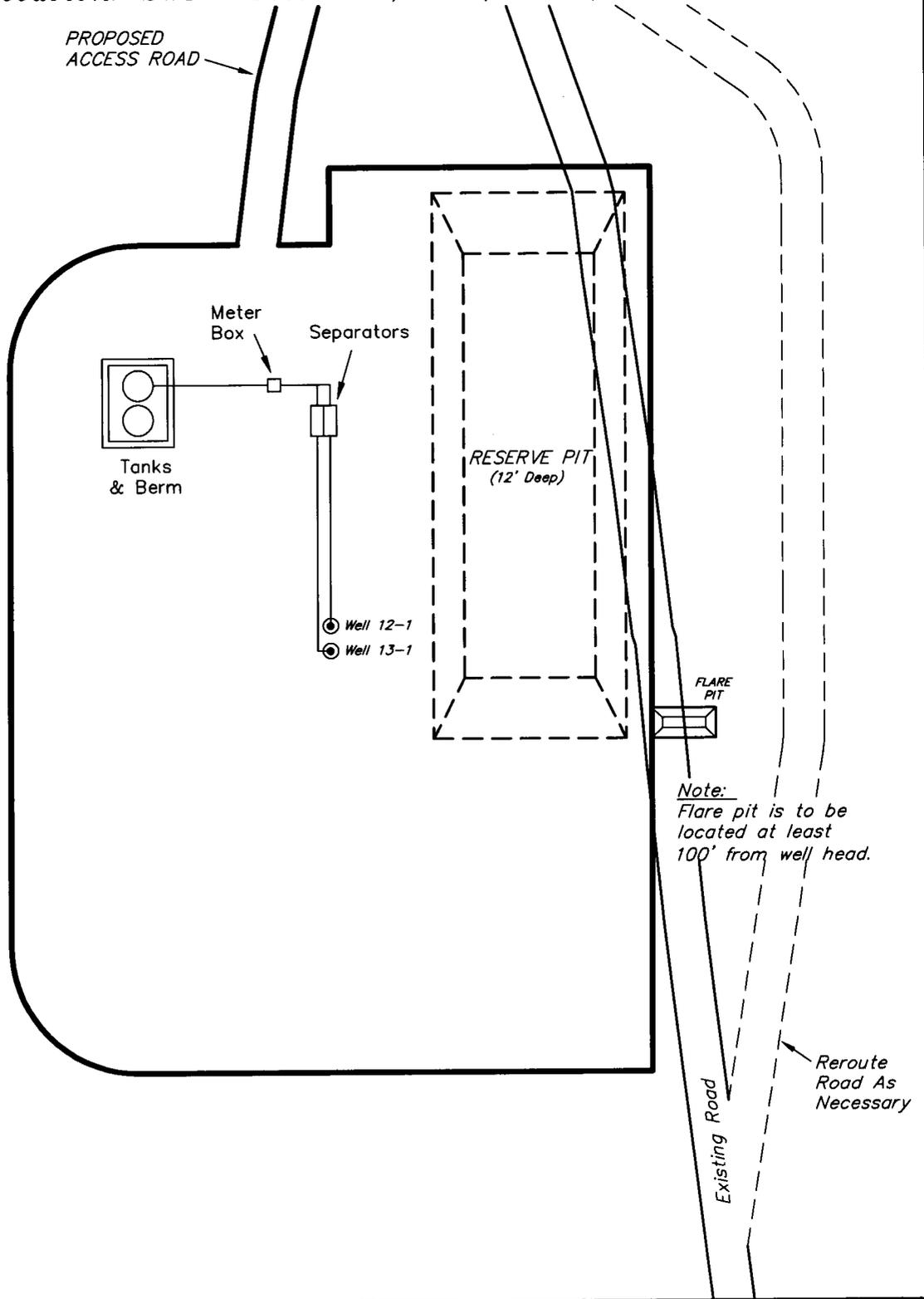
SHEET  
**6**  
OF 11

# ENDURING RESOURCES

## PRODUCTION SCHEMATIC

### ARCHY BENCH 11-22-12-1 & 13-1

Pad Location: SWNW Section 1, T11S, R22E, S.L.B.&M.



SURVEYED BY: J.H. DATE DRAWN: 08-22-06

DRAWN BY: F.T.M. SCALE: 1" = 60'

NOTES:

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

SHEET  
7  
OF 11



**ENDURING RESOURCES**

**Archy Bench 11-22-12-1**  
**Archy Bench 11-22-13-1**

Pad Location: SWNW of Sec. 1, T11S, R22E, S.L.B.&M.



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 100,000'

DRAWN BY: bgm

DATE: 09-07-2006

**Legend**

- Existing Road
- Proposed Access

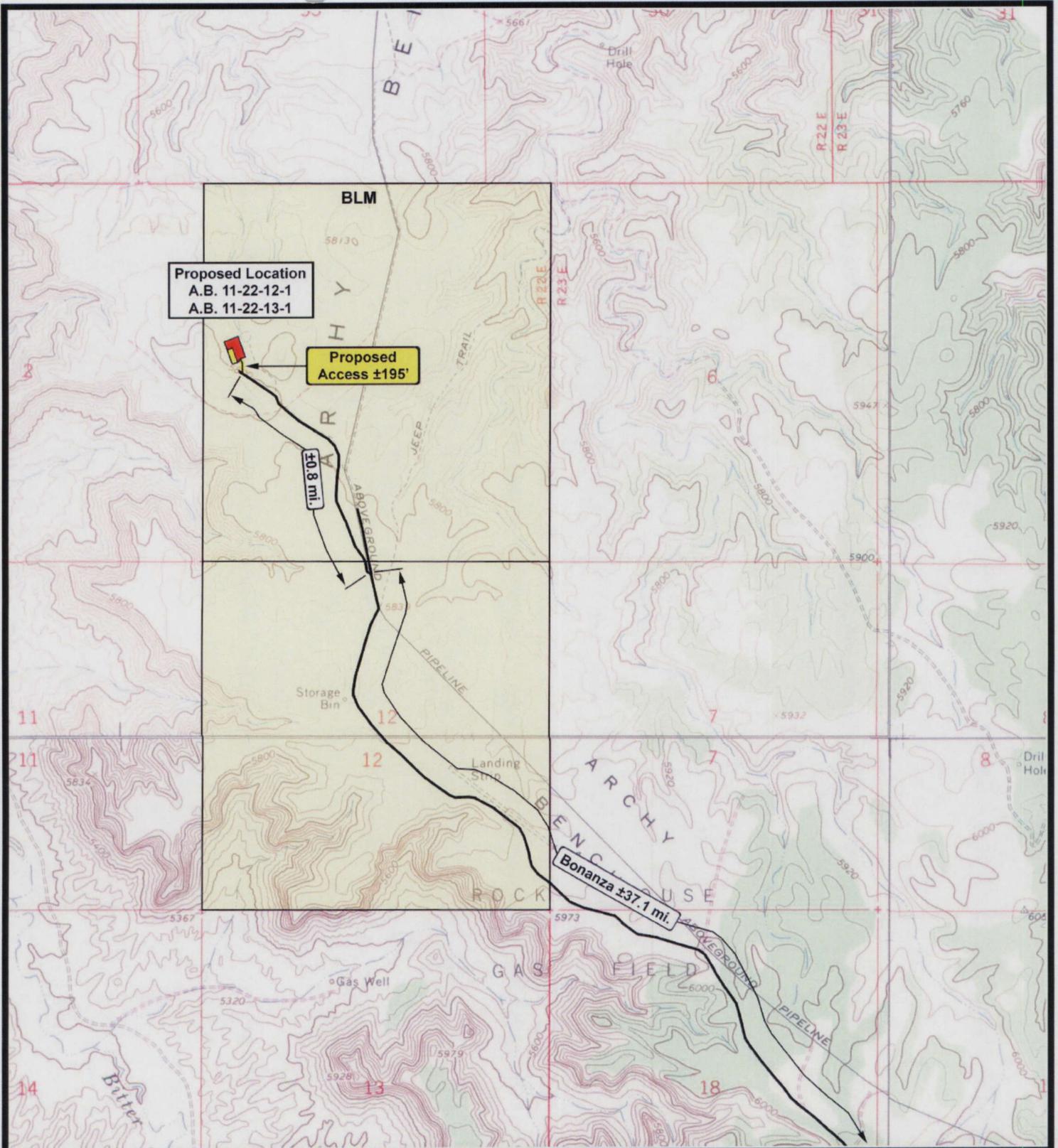
**TOPOGRAPHIC MAP**

**"A"**

**SHEET**

**8**

**OF 11**



**ENDURING RESOURCES**

**Archy Bench 11-22-12-1  
Archy Bench 11-22-13-1**

Pad Location: SWNW of Sec. 1, T11S, R22E, S.L.B.&M.



**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: bgm

DATE: 09-07-2006

**Legend**

- Existing Road
- Proposed Access

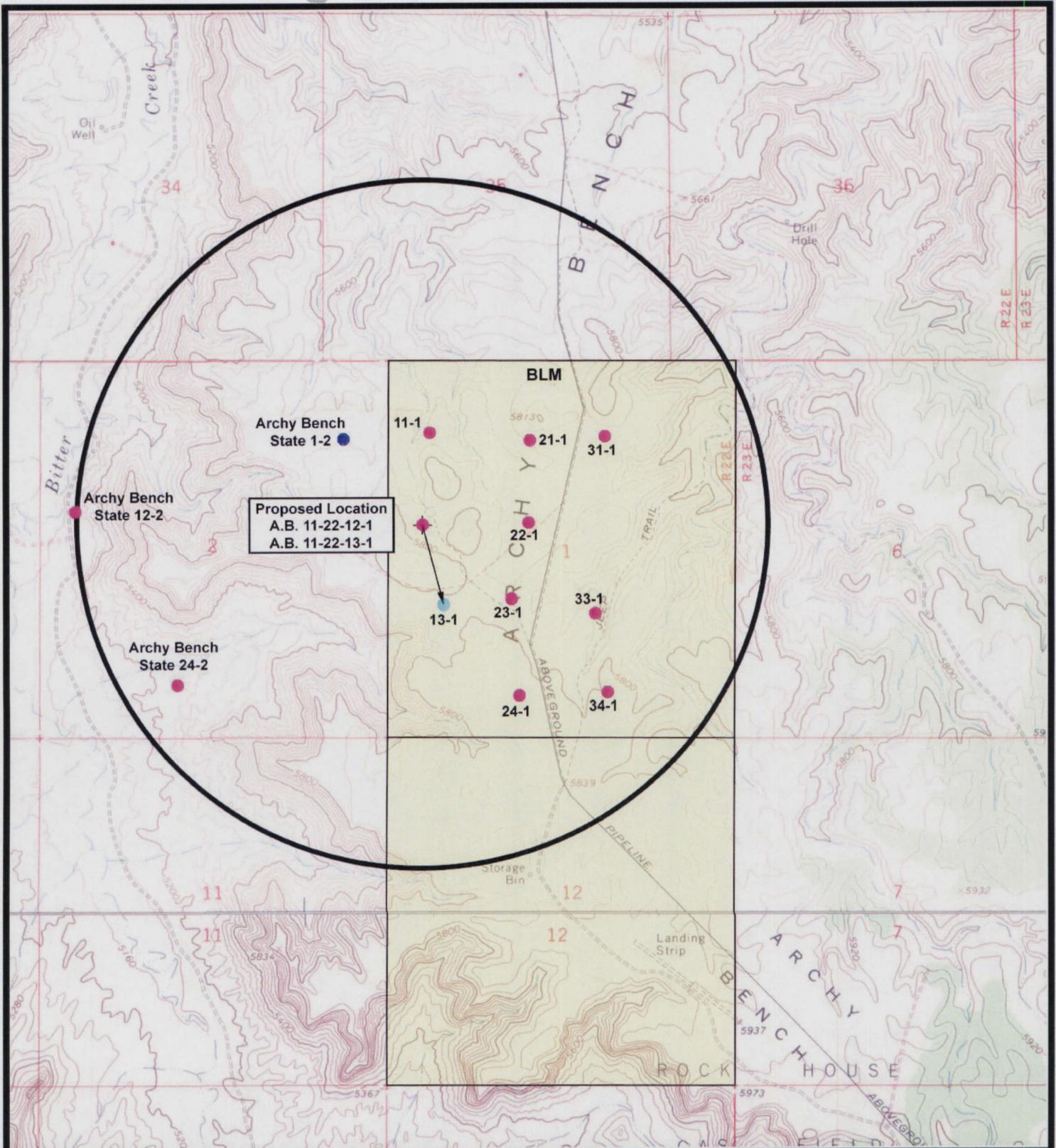
TOPOGRAPHIC MAP

**"B"**

SHEET

**9**

OF 11



**ENDURING RESOURCES**

**Archy Bench 11-22-12-1  
Archy Bench 11-22-13-1**

Pad Location: SWNW of Sec. 1, T11S, R22E, S.L.B.&M.



**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: bgm

DATE: 09-07-2006

**Legend**

- Proposed Pad Location
- Existing Location
- Bottom Hole Location
- One-Mile Radius

TOPOGRAPHIC MAP

**"C"**

SHEET

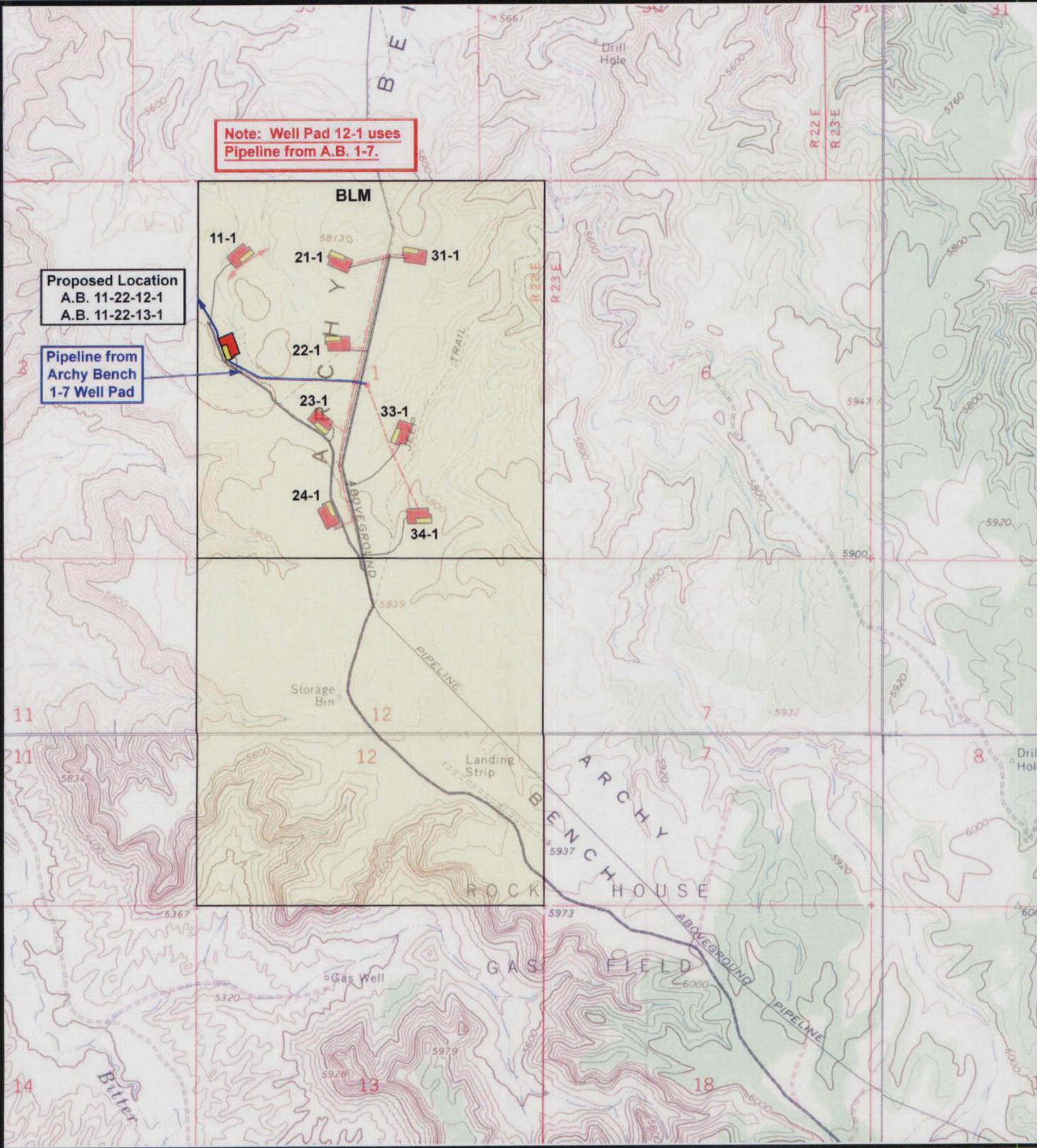
**10**

OF 11

Note: Well Pad 12-1 uses Pipeline from A.B. 1-7.

Proposed Location  
A.B. 11-22-12-1  
A.B. 11-22-13-1

Pipeline from  
Archy Bench  
1-7 Well Pad



ENDURING RESOURCES

Archy Bench 11-22-12-1  
Archy Bench 11-22-13-1

Pad Location: SWNW of Sec. 1, T11S, R22E, S.L.B.&M.



*Tri-State*  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: bgm

DATE: 09-07-2006

Legend

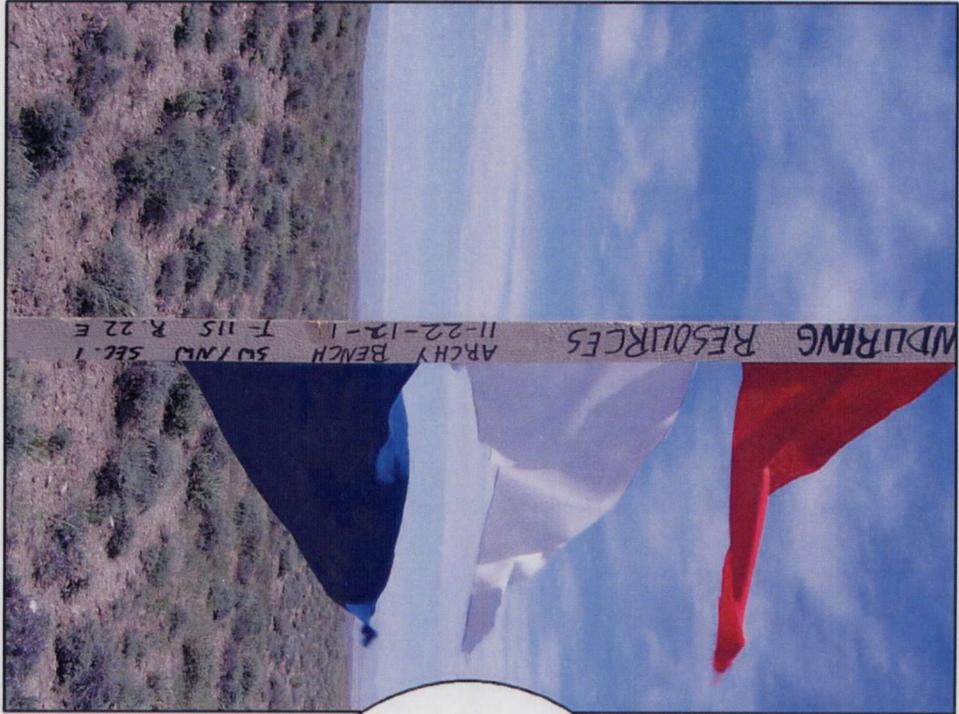
- Roads
- Existing Gas Line
- 1-7 Pipeline
- Proposed Gas Line

TOPOGRAPHIC MAP

"D"

SHEET

11  
OF 11



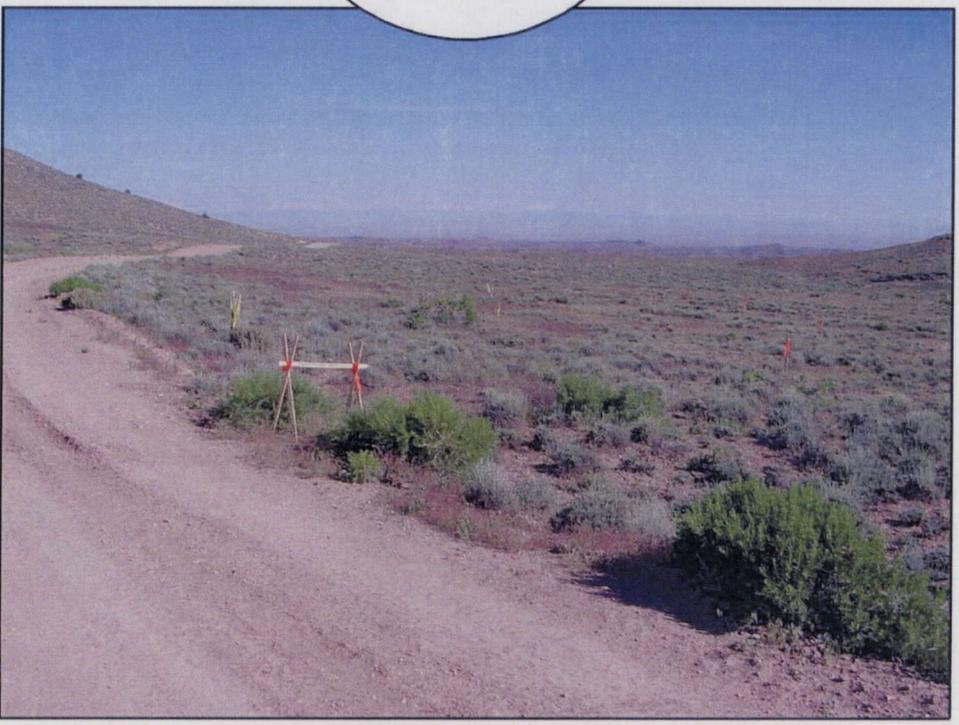
**CENTER STAKE**

  
**ENDURING RESOURCES**  
A.B. 11-22-12-1 & A.B. 11-22-13-1  
Pad Location:  
SWNW of Sec. 22, T11S, R22E, SLB&M

Date Photographed: 05/26/2005  
Date Drawn: 09/07/2006  
Drawn By: bgm

  
**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

**LOOKING NORTH  
ACCESS**





NORTH

  
**ENDURING RESOURCES**  
A.B. 11-22-12-1 & A.B. 11-22-13-1  
Pad Location:  
SWNW of Sec. 22, T11S, R22E, SLB&M

Date Photographed: 05/26/2005  
Date Drawn: 09/07/2006  
Drawn By: bgm

  
**Tri-State  
Land Surveying Inc.**  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

EAST





SOUTH

  
**ENDURING RESOURCES**  
A.B. 11-22-12-1 & A.B. 11-22-13-1  
Pad Location:  
SWNW of Sec. 22, T11S, R22E, SLB&M

Date Photographed: 05/26/2005

Date Drawn: 09/07/2006

Drawn By: bgm

  
**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

WEST



**CONFIDENTIAL**

FORM 9

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU- 73903

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
n/a

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:  
n/a

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
Archy Bench 11-22-13-1

2. NAME OF OPERATOR:  
Enduring Resources, LLC

9. API NUMBER:  
4304737487

3. ADDRESS OF OPERATOR:  
475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:  
(303) 350-5114

10. FIELD AND POOL, OR WILDCAT:  
Undesignated

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 2494' FNL -493' FWL BHL 1980' FSL - 660' FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 1 11S 22E S

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Request for APD Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 10/23/2007  
TO: 10/23/2008

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 10-29-07

By: [Signature]

NAME (PLEASE PRINT) Alvin R. (Al) Arlian

TITLE Landman - Regulatory Specialist

SIGNATURE [Signature]

DATE 10/18/2007

(This space for State use only)

COPY SENT TO OPERATOR  
Date: 10-30-07  
Initials: RM

RECEIVED  
OCT 29 2007

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737487  
**Well Name:** Archy Bench 11-22-13-1  
**Location:** 2494' FNL -493' FWL, SWNW, Sec 1, T11S-R22E  
**Company Permit Issued to:** Enduring Resources, LLC  
**Date Original Permit Issued:** 12/18/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

  
Signature

10/18/2007  
Date

Title: Landman - Regulatory Specialist

Representing: Enduring Resources, LLC

**RECEIVED**

OCT 29 2007

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

DEC 18 2006

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

5. Lease Serial No. <b>UTU-73903</b>	
6. If Indian, Allottee or Tribe Name <b>N/A</b>	
7. If Unit or CA Agreement, Name and No. <b>N/A</b>	
8. Lease Name and Well No. <b>Archy Bench 11-22-13-1</b>	
9. API Well No. <b>43 047 37487</b>	
10. Field and Pool, or Exploratory <b>Undesignated</b>	
11. Sec., T. R. M. or Blk. and Survey or Area <b>Sec 1 T11S R22E S.L.B.&amp;M.</b>	
12. County or Parish <b>Uintah</b>	13. State <b>UT</b>
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	<b>BLM VERNAL, UTAH</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone	
2. Name of Operator <b>Enduring Resources, LLC</b>	
3a. Address <b>475 17th Street, Suite 1500 Denver, CO 80202</b>	3b. Phone No. (include area code) <b>303-350-5719</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface <b>SWNW 2494' FNL - 493' FWL</b> At proposed prod. zone <b>NWSW 1980' FSL - 660' FWL</b>	
14. Distance in miles and direction from nearest town or post office* <b>34.5 miles South of Bonanza, UT</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>493'</b>	16. No. of acres in lease <b>1280</b>
17. Spacing Unit dedicated to this well <b>40 acres</b>	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1000' +</b>
19. Proposed Depth <b>8655</b>	20. BLM/BIA Bond No. on file <b>BLM - UTB000173</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5769' RT-KB</b>	22. Approximate date work will start* <b>02/25/2007</b>
23. Estimated duration <b>20 days</b>	

24. Attachments

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

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Evette Bissett</i>	Name (Printed/Typed) <b>Evette Bissett</b>	Date <b>12/13/2006</b>
Title <b>Regulatory Affairs Assistant</b>		

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) <b>JEAN KEUCKA</b>	Date <b>2-7-2008</b>
Title <b>Assistant Field Manager Lands &amp; Mineral Resources</b>	Office <b>VERNAL FIELD OFFICE</b>	

Application approval does not warrant or certify that 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.

**CONDITIONS OF APPROVAL 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.

\*(Instructions on page 2)

**NOTICE OF APPROVAL**

**RECEIVED**

**FEB 13 2008**

**DIV. OF OIL, GAS & MINING**

**UDOGM**

075X50309A  
NOS 8/12/05



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

170 South 500 East      VERNAL, UT 84078      (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Enduring Resources , LLC      **Location:** SWNW, Sec. 1, T11S, R22E (S)  
NWSW, Sec. 1, T11S, R22E (B)

**Well No:** Archy Bench 11-22-13-1      **Lease No:** UTU-73903

**API No:** 43-047-37487      **Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-4410

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

***Surface COAs:***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

***Site Specific COAs:***

This well is located within the Resource Development Group (RDG) EIS project boundary, any **additional mitigation or COA's approved in the Final RDG EIS Record of Decision are also applicable to approval of this proposed action.**

- **Threatened and Endangered Fish Mitigation for Water Supply**
  - The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
  - If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
    - Do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
    - Limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (see above); and
    - Limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
  - Screen all pump intakes with ¼" mesh material.
  - Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

**Northeastern Region**  
152 East 100 North, Vernal, UT 84078  
Phone: (435) 781-9453

- This project is within the RDG EIS area and is also within big game wintering habitat. If the proposed work results in a loss of big sagebrush habitat this loss will need to be mitigated by the operator contributing to a habitat improvement project. The compensation requires 1.5 acres of habitat improvement to each acre of big sagebrush habitat disturbed. Contact the AO for specific on-site or off-site mitigation projects.

- Pipelines shall be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit shall be lined with **16 ml** or greater liner to prevent pit leakage and at least **one felt liner (double felt as need to prevent pit leakage)** prior to spudding.
- All permanent facilities, not regulated by OSHA, shall be painted the same color, **Olive Black (5WA20-6)**; within six months of installation.
- During construction the topsoil from the location shall be stripped and windrowed separately from the other excess material. The topsoil windrows shall be re-seeded using the interim seed mix and track walked or drag chained at the time the location is constructed. The topsoil removed from the pit area shall be stored separately and will not be re-seeded until the pit is reclaimed. When the reserve pit is closed, it shall be re-contoured and the topsoil re-spread, and the area shall be seeded using the interim seed mix listed below.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, shall be stockpiled for use during final reclamation.
- Trees and woody debris must be removed from the site and piled separately off site and saved for final reclamation. During final reclamation the trees and woody debris will be loped and scattered over the re-contoured and seeded areas, and spread evenly across the site. Trees and woody debris will not account for more than 20% of the total surface area of the site.
- Upon well completion, the well pad location up to the deadmen, shall be re-contoured to the approximate natural contours and the stockpiled topsoil shall be spread evenly over the reclaimed area and then re-seeded using the interim seed mix.
- Reclamation:

Interim seed mix:

Hy-crest Crested Wheatgrass	<i>Agropyron cristatum</i>	4 lbs/acre
Indian Ricegrass	<i>Stipa hymenoides</i>	4 lbs/acre
Needle and Threadgrass	<i>Stipa comata</i>	4 lbs/acre

- All pounds are in pure live seed.
- All seed and mulch shall be certified weed free.
- Drill seeding is the preferred method.
- Rates are set for drill seeding; double the rate if broadcasting.
- If broadcasting seed: The seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain.
- Reseeding shall be required if initial seeding is not successful.

- Once the location is plugged and abandoned, the well location and access road shall be re-contoured to the natural topography, topsoil shall be re-spread, and the entire location and access road shall be seeded with the final reclamation seed mix. Seed application shall follow all guidelines in the final reclamation seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum shall be walked into the soil with a dozer, immediately after the seeding is completed, or covered by soil using a drag chain.

***DOWNHOLE CONDITIONS OF APPROVAL:***

**SITE SPECIFIC DOWNHOLE COAs:**

- A surface casing shoe integrity test shall be performed.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe.
- A complete set of angular deviation and directional surveys of this directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

**OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall 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 Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**CONFIDENTIAL**

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU- 73903
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: n/a
2. NAME OF OPERATOR: Enduring Resources, LLC		8. WELL NAME and NUMBER: Archy Bench 11-22-13-1
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202		9. API NUMBER: 4304737487
PHONE NUMBER: (303) 350-5114		10. FIELD AND POOL, OR WILDCAT: Undesignated
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2494' FNL -493' FWL BHL 1980' FSL - 660' FWL COUNTY: Uintah QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSW 1 11S 22E S STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Request for APD Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Enduring Resources, LLC respectfully request an extension to the expiration date of this Application for Permit to Drill ....

FROM: 10/29/2008  
TO: 10/29/2009

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 11-03-08  
By: [Signature]

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE <u>[Signature]</u>	DATE <u>9/29/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR

Date: 11-6-2008

Initials: KS

(See Instructions on Reverse Side)

(5/2000)

**RECEIVED**  
**OCT 30 2008**  
**DIV. OF OIL, GAS & MINING**



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737487  
**Well Name:** Archy Bench 11-22-13-1  
**Location:** 2494' FNL -493' FWL, SWNW, Sec 1, T11S-R22E  
**Company Permit Issued to:** Enduring Resources, LLC  
**Date Original Permit Issued:** 12/14/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

  
Signature

9/29/2008  
Date

Title: Administrative Assistant

Representing: Enduring Resources, LLC

**RECEIVED**  
**OCT 30 2008**  
**DIV. OF OIL, GAS & MINING**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-73903
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> ARCHY BENCH 11-22-13-1
<b>2. NAME OF OPERATOR:</b> Enduring Resources, LLC	<b>9. API NUMBER:</b> 43047374870000
<b>3. ADDRESS OF OPERATOR:</b> 475 17th Street, Suite 1500 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 350-5114 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 2494 FNL 0493 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 01 Township: 11.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> BITTER CREEK  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

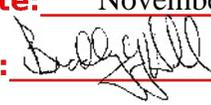
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/3/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

Request for an one-year extension to APD term.

**Approved by the Utah Division of Oil, Gas and Mining**

**Date:** November 03, 2009

**By:** 

<b>NAME (PLEASE PRINT)</b> Alvin Arlian	<b>PHONE NUMBER</b> 303 350-5114	<b>TITLE</b> Landman-Regulatory
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/3/2009



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047374870000**

**API:** 43047374870000

**Well Name:** ARCHY BENCH 11-22-13-1

**Location:** 2494 FNL 0493 FWL QTR SWNW SEC 01 TWP 110S RNG 220E MER S

**Company Permit Issued to:** ENDURING RESOURCES, LLC

**Date Original Permit Issued:** 12/15/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
  
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

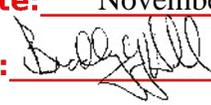
**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Alvin Arlian

**Date:** 11/3/2009

**Title:** Landman-Regulatory **Representing:** ENDURING RESOURCES, LLC

**Date:** November 03, 2009

**By:** 

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-73903
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> ARCHY BENCH 11-22-13-1
<b>2. NAME OF OPERATOR:</b> Enduring Resources, LLC	<b>9. API NUMBER:</b> 43047374870000
<b>3. ADDRESS OF OPERATOR:</b> 475 17th Street, Suite 1500 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 350-5114 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2494 FNL 0493 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 01 Township: 11.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> BITTER CREEK  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/15/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Request an one-year extension to APD termination date.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

Date: 12/14/2010  
By: 

<b>NAME (PLEASE PRINT)</b> Alvin Arlian	<b>PHONE NUMBER</b> 303 350-5114	<b>TITLE</b> Landman-Regulatory
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/14/2010



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047374870000**

**API:** 43047374870000

**Well Name:** ARCHY BENCH 11-22-13-1

**Location:** 2494 FNL 0493 FWL QTR SWNW SEC 01 TWP 110S RNG 220E MER S

**Company Permit Issued to:** ENDURING RESOURCES, LLC

**Date Original Permit Issued:** 12/15/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

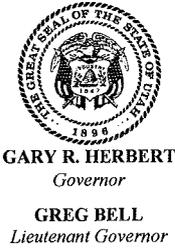
**Signature:** Alvin Arlian

**Date:** 12/14/2010

**Title:** Landman-Regulatory **Representing:** ENDURING RESOURCES, LLC

**Date:** 12/14/2010

**By:** 



GARY R. HERBERT  
Governor

GREG BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

December 14, 2011

Al Arlian  
Enduring Resources, LLC  
511-16<sup>th</sup> Street, Ste. 700  
Denver, CO 80202

Re: APD Rescinded – Archy Bench 11-22-13-1, Sec.1 T.11S, R.22E  
Uintah County, Utah API No. 43-047-37487

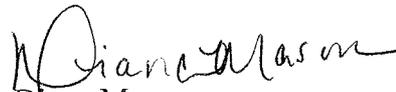
Dear Mr. Arlian:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on December 15, 2005, October 23, 2006, October 29, 2007, November 3, 2008, November 3, 2009 and December 14, 2010 the Division granted a one-year APD extension. On December 12, 2011, you requested that the APD be rescinded. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective December 12, 2011.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal





# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Green River District  
Vernal Field Office  
170 South 500 East  
Vernal, UT 84078

<http://www.blm.gov/ut/st/en/fo/vernal.html>

June 13, 2013

IN REPLY REFER TO:  
3160 (UTG011)

Al Arlian  
Enduring Resources LLC  
511 16<sup>th</sup> Street, Suite 700  
Denver, CO 80202

43 047 37487

Re: Notice of Expiration  
Well No. Archy Bench 11-22-13-1  
NWSW, Sec. 1, T11S, R22E  
Uintah County, Utah  
Lease No. UTU-73903

Dear Mr. Arlian:

The Application for Permit to Drill (APD) for the above-referenced well was approved on February 7, 2008. A two (2) year extension of the original APD was requested. The request was reviewed and the extension approved until August 7, 2011. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka  
Assistant Field Manager  
Lands & Mineral Resources

cc: UDOGM

bcc: Well File  
I&E Asst.

**RECEIVED**  
**JUN 18 2013**  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**Conf.**

JAN 11 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**BLM**

5. Lease Serial No.  
UTU73903

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. ARCHY BENCH 11-22-13-1
2. Name of Operator ENDURING RESOURCES LLC Contact: AL ARLIAN E-Mail: aarlian@enduringresources.com		9. API Well No. 43-047-37487-00-X1
3a. Address 475 17TH STREET, SUITE 1500 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-350-5114 Fx: 303-573-0461	10. Field and Pool, or Exploratory UNDESIGNATED
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 1 T11S R22E SWNW 2494FNL 493FWL		11. County or Parish, and State UINTAH COUNTY, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Fracture Treat
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other Change to Original APD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Request a 2-year extension to APD termination date (2-7-2010).

<b>VERNAL DIST.</b>
ENG. _____
GEOL. _____
E.S. _____
PWT. _____
A.M. _____

CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #79804 verified by the BLM Well Information System  
For ENDURING RESOURCES LLC, sent to the Vernal  
Committed to AFMSS for processing by GAIL JENKINS on 01/12/2010 (10GXJ1323SE)**

Name (Printed/Typed) AL ARLIAN	Title LANDMAN
Signature (Electronic Submission)	Date 01/11/2010

**RECEIVED**

FEB 28 2010

BUREAU OF OIL, GAS & MINING

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By	Title <b>Petroleum Engineer</b>	Date <b>JAN 11 2010</b>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**UDOGM**

# CONDITIONS OF APPROVAL

## Enduring Resources, LLC

### Notice of Intent APD Extension

**Lease:** UTU-73903  
**Well:** Archy Bench 11-22-13-1  
**Location:** SWNW Sec 1-T11S-R22E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 8/7/2011.
2. Since the APD was approved under a Categorical Exclusion and the referenced NEPA will expire 8/7/2011, if the well has not been spud by that date this APD will expire and the operator is to cease all operations related to the preparing to drill the well.

If you have any other questions concerning this matter, please contact Ryan Angus of this office at (435) 781-4430

RECEIVED

FEB 25 2011

DIV OF OIL, GAS & MINING