



Enduring Resources

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

June 14, 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 11-24-31-32
NWNE 608' FNL – 2022' FEL
Section 32 T11S-R24E S.L.B.& M.
Lease Serial No.: ML-49782
Uintah County, Utah

Dear Ms. Whitney:

Enclosed are two original applications to drill concerning the above-referenced proposed well. This information was also submitted to SITLA.

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:

cc: SITLA w/ attachments

RECEIVED
JUN 21 2006

DIV. OF OIL, GAS & MINING

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL			5. MINERAL LEASE NO: ML-49782	6. SURFACE: State
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 type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: Enduring Resources, LLC			9. WELL NAME and NUMBER: Archy Bench 11-24-31-32	
3. ADDRESS OF OPERATOR: 475 17th St., Ste 1500 CITY Denver STATE CO ZIP 80220		PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT: Undesignated	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 608' FNL -2022' FEL AT PROPOSED PRODUCING ZONE: Same			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 32 11S 24E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 17.2 miles southerly of Bonanza, Utah			12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 608'	16. NUMBER OF ACRES IN LEASE: 640	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40 acres		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) n/a none	19. PROPOSED DEPTH: 6,301	20. BOND DESCRIPTION: RLB0008031		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5,937' RT-KB	22. APPROXIMATE DATE WORK WILL START: 8/1/2006	23. ESTIMATED DURATION: 20 days		

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#	6,301	Class G	40sxs	3.3 11.0
			50/50 Poz Class G	758 sxs	1.56 14.3

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 6/12/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-047-38321

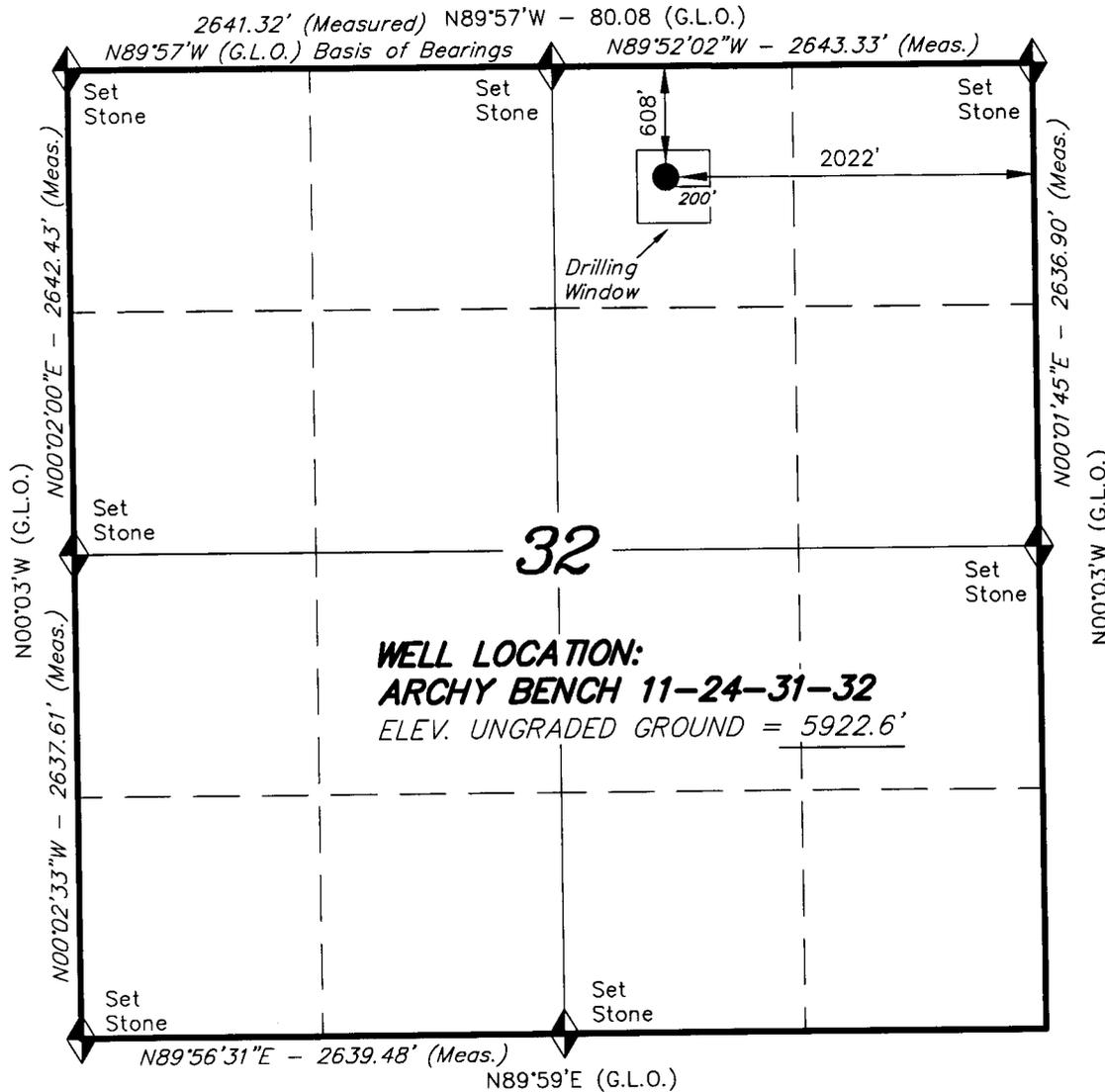
APPROVAL:

RECEIVED
JUN 21 2006

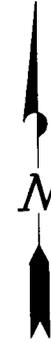
DIV. OF OIL, GAS & MINING

T11S, R24E, S.L.B.&M.

ENDURING RESOURCES

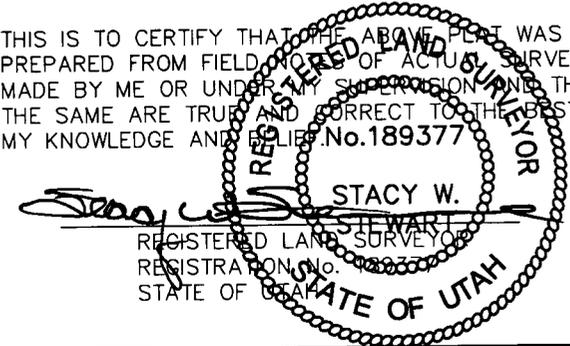


WELL LOCATION, ARCHY BENCH
11-24-31-32, LOCATED AS SHOWN IN THE
NW 1/4 NE 1/4 OF SECTION 32, T11S,
R24E, S.L.B.&M. UTAH COUNTY, UTAH.



WELL LOCATION:
ARCHY BENCH 11-24-31-32
ELEV. UNGRADED GROUND = 5922.6'

THIS IS TO CERTIFY THAT THE ABOVE PLAT 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 SE)

ARCHY BENCH 11-24-31-32
(Surface Location) NAD 83
LATITUDE = 39° 49' 26.40"
LONGITUDE = 109° 15' 08.81"

DATE DRAWN: 04-14-06	SURVEYED BY: J.H.	SHEET 2
REVISED:	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	OF 10

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
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4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 608' FNL -2022' FEL <i>649618X 39.824057</i> AT PROPOSED PRODUCING ZONE: <i>4409482Y Same -109.251774</i>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 32 11S 24E	
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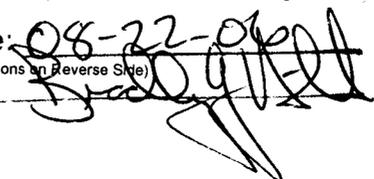
NAME (PLEASE PRINT) Alvin R. (Al) Arlian TITLE Landman - Regulatory Specialist

SIGNATURE  DATE 6/12/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-047-38321

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

Date: 08-22-06
(See Instructions on Reverse Side)
By: 

RECEIVED
JUN 21 2006
DIV. OF OIL, GAS & MINING

**Enduring Resources, LLC
Archy Bench 11-24-31-32
NW-NE 32-11S-24E
Uintah County, Utah
State Lease ML-49782**

ONSHORE ORDER 1 - DRILLING PLAN

1. Estimated Tops of Geological Markers:

Formation	Depth (K.B.)
Uinta	Surface
Green River	139
Wasatch	2549
Mesaverde	3787

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

Substance	Formation	Depth (K.B.)
	KB-Uinta Elevation: 5937'	
Oil / Gas	Green River	139
Oil /Gas	Wasatch	2549
Oil /Gas	Mesaverde	3787
	Estimated TD	6301

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 – 6301' (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)
6301' (KB)	4-1/2", 11.6#/ft, N-80, LTC	6350/1.94 (d)	7780/2.58 (e)	223/3.55(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 ³ /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 ₂ + 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 ft³/sx) cement will be premium cement w/ 3% CaCl₂.+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 ³ /sx)
8-5/8"	Lead	500	Premium cement + 2% CaCl ₂ + 0.25 pps celloflake	138	25	15.8	1.15
8-5/8"	Top job	As req.	Premium cement + 3% CaCl ₂ + 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 ³ /sx)
4-1/2"	Lead	433	Class "G" + 5% NaCl + 12% Gel + 0.25 pps celloflake + 0.2% antifoam + 0.25% fluid loss + 1% extender	40	25	11.0	3.3
4-1/2"	Tail	4152	50/50 POZ Class G + 2% gel + 1% CaCl ₂ + 0.2% dispersant + 0.2% fluid loss + 0.1% antifoam	758	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'-6301' (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 H₂S 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 3,277 psi (calculated at 0.52psi/foot of hole) and maximum anticipated surface pressure equals approximately 1,890 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 11-24-31-32
NWNE 32-T11S-R24E
Uintah County, Utah
State Lease: ML-49782

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Directions to the Archy Bench 11-24-31-32 Well Pad

Beginning at the town of Bonanza, Utah, proceed south on State Hwy 45 for a distance of approximately 3.7 miles to the Baxter Pass Road (still on SH 45). Turn left onto the dirt road and continue southeasterly for approximately 5.7 miles to the Greek Corrals. Turn right onto the Watson road and continue in a southwesterly direction for approximately 6.7 miles to the Rainbow Road junction. Stay right on the King's Well Road (Class B County Road #4190) traveling in a southwesterly direction for approximately 8.7 miles (go approximately 1.5 miles past the King's Well to the corrals on the right). Turn right (north) onto a Class D County Road (Oil Springs Gas Field Road) and proceed for approximately 1.7 miles. Turn right and travel northeasterly approximately 2,240 feet along the proposed access road to the proposed Archy Bench 11-24-31-32 well pad.

2. Planned Access Roads:

The proposed access road will be approximately 2,240 feet of new construction all on-lease. All off-lease access is on an existing county road (Asphalt Wash Road #4160).

ALL NEW CONSTRUCTION IS ON SITLA LANDS.

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: |
| b. | None: | Injection Wells: |
| c. | None: | Producing Wells: |
| 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. | (8): | Pending (staked) Wells: |
| | | i. Enduring has eight other wells staked in this section. |

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 designated by DOG&M and SITLA. 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 for this well will be:

5,930'	Surface Pipeline	On-Lease	SITLA
5,120	Surface Pipeline	Off-Lease	BLM

If this well is capable of economic production, a 4" (or less) steel 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 11,050 feet of surface gas gathering pipeline shall be laid on the surface to minimize surface disturbance:

The proposed pipeline will begin at the well site; and be laid on the surface next to the new access road to tie-in to a steel surface pipeline that is located next to the county road.

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	T11S-R22E	T12S-R22E
T10S-R23E	T11S-R23E	T12S-R23E
T10S-R24E	T11S-R24E	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 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, 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 is 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 #3, #4, and #5)

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 DOG&M and/or SITLA.

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

Wellsite: SITLA

Access: SITLA

Pipeline: SITLA & BLM

12. Other Information**On-site Inspection for Location, Access and Pipeline Route:**

The on-site will be scheduled by SITLA and DOG&M.

Special Conditions of Approval:

- Tanks and Production Equipment shall be painted Dark Olive Black.
- Surface Gathering Pipeline shall be 4" or less

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:**

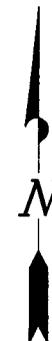
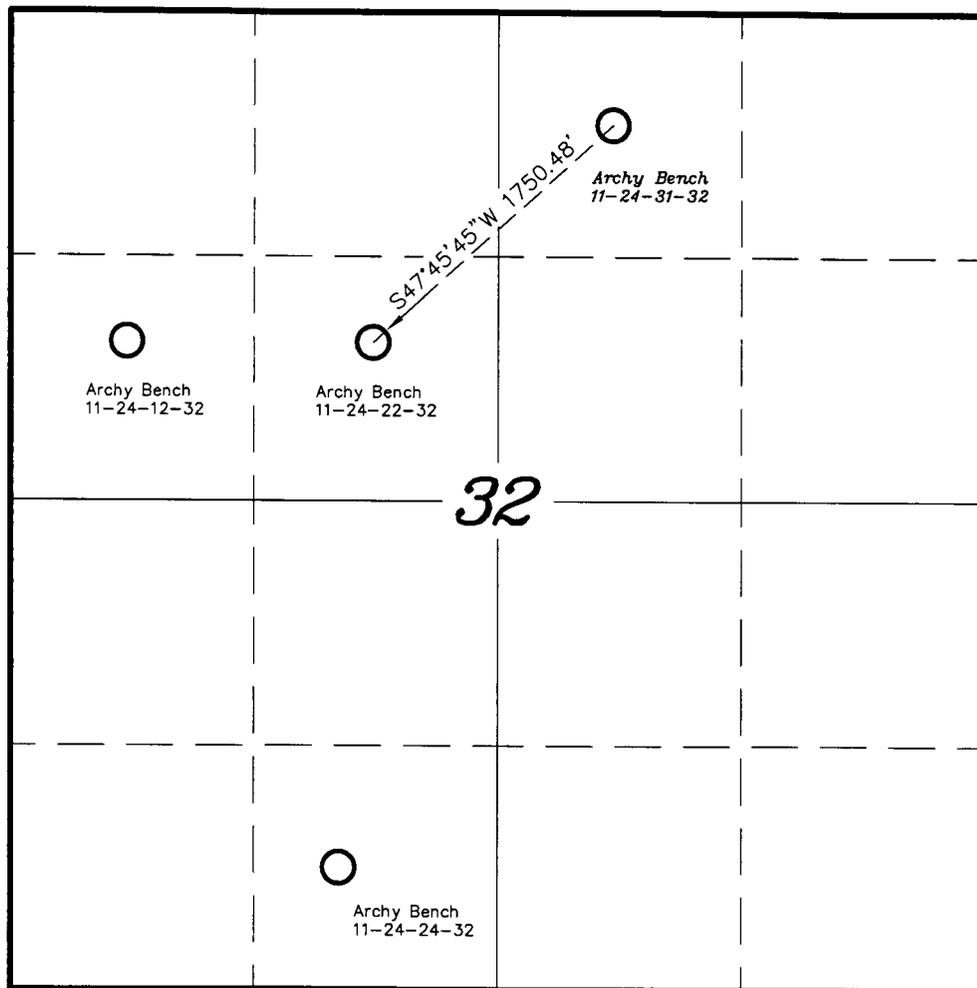
Alvin R. (Al) Arlian
Landman – Regulatory Specialist
Enduring Resources, LLC
475 17th Street, Suite 1500
Denver, Colorado 80202
Office Tel: 303-350-5114
Fax Tel: 303-573-0461
aarlian@enduringresources.com

Teme Singleton
Drilling Engineer
Enduring Resources, LLC
475 17th Street, Suite 1500
Denver, Colorado 80202
Office Tel: 303-573-5711
Fax Tel: 303-573-0461
tsingleton@enduringresources.com

T11S, R24E, S.L.B.&M.

ENDURING RESOURCES

SECTION DRILLING MAP
Archy Bench 11-24-31-32



LEGEND

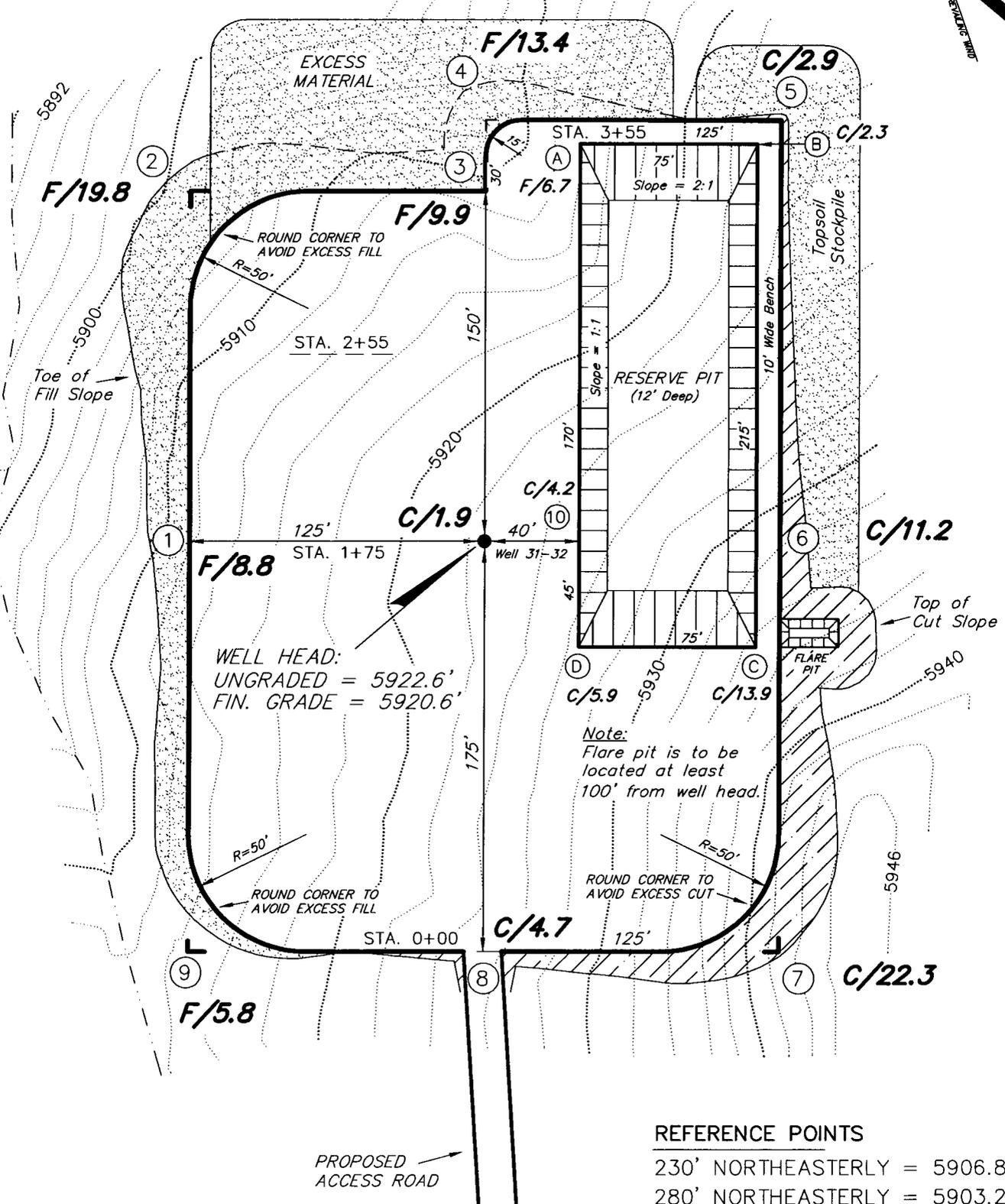
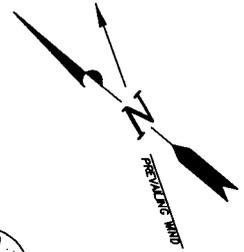
- = Vertical Well
- ⊙ = Directional Well

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

DATE DRAWN: 04-15-06	SURVEYED BY: J.H.	SHEET 1 OF 10
REVISED:	DRAWN BY: F.T.M.	
NOTES:	SCALE: 1" = 1000'	

ENDURING RESOURCES

ARCHY BENCH 11-24-31-32
Section 32, T11S, R24E, S.L.B.&M.



WELL HEAD:
UNGRADED = 5922.6'
FIN. GRADE = 5920.6'

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

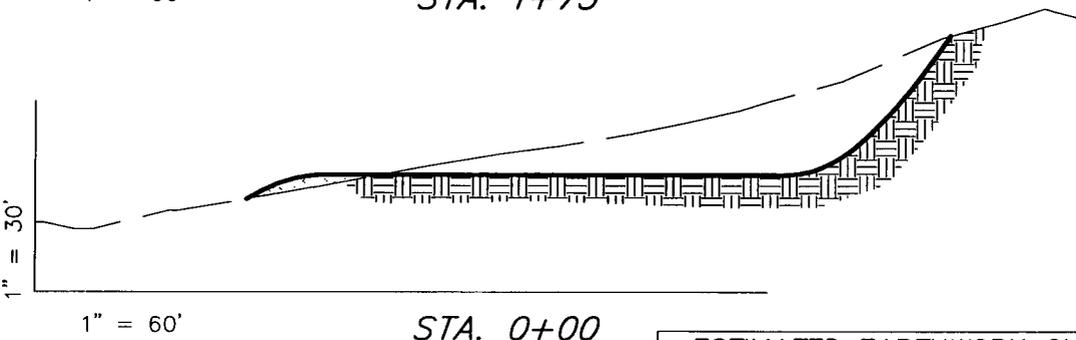
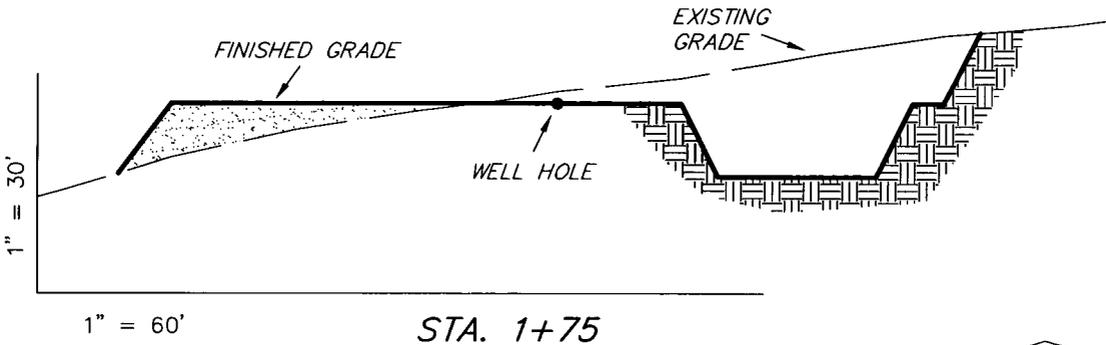
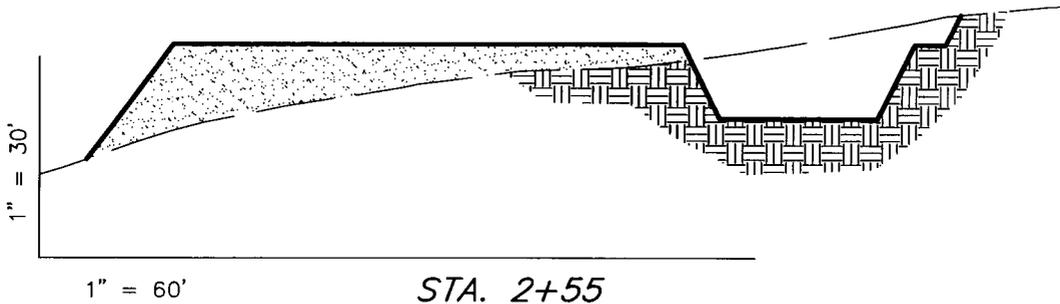
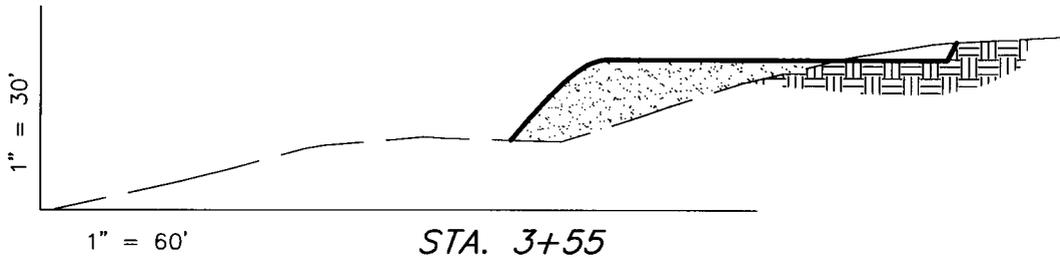
REFERENCE POINTS
230' NORTHEASTERLY = 5906.8'
280' NORTHEASTERLY = 5903.2'

SURVEYED BY: J.H.	DATE DRAWN: 04-15-06
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
3
OF 10

ENDURING RESOURCES
CROSS SECTIONS
ARCHY BENCH 11-24-31-32



ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	10,240	10,240	Topsoil is not included in Pad Cut	0
PIT	5,390	0		5,390
TOTALS	15,630	10,240	1,860	5,390

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

SURVEYED BY: J.H. DATE DRAWN: 04-15-06

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

NOTES:

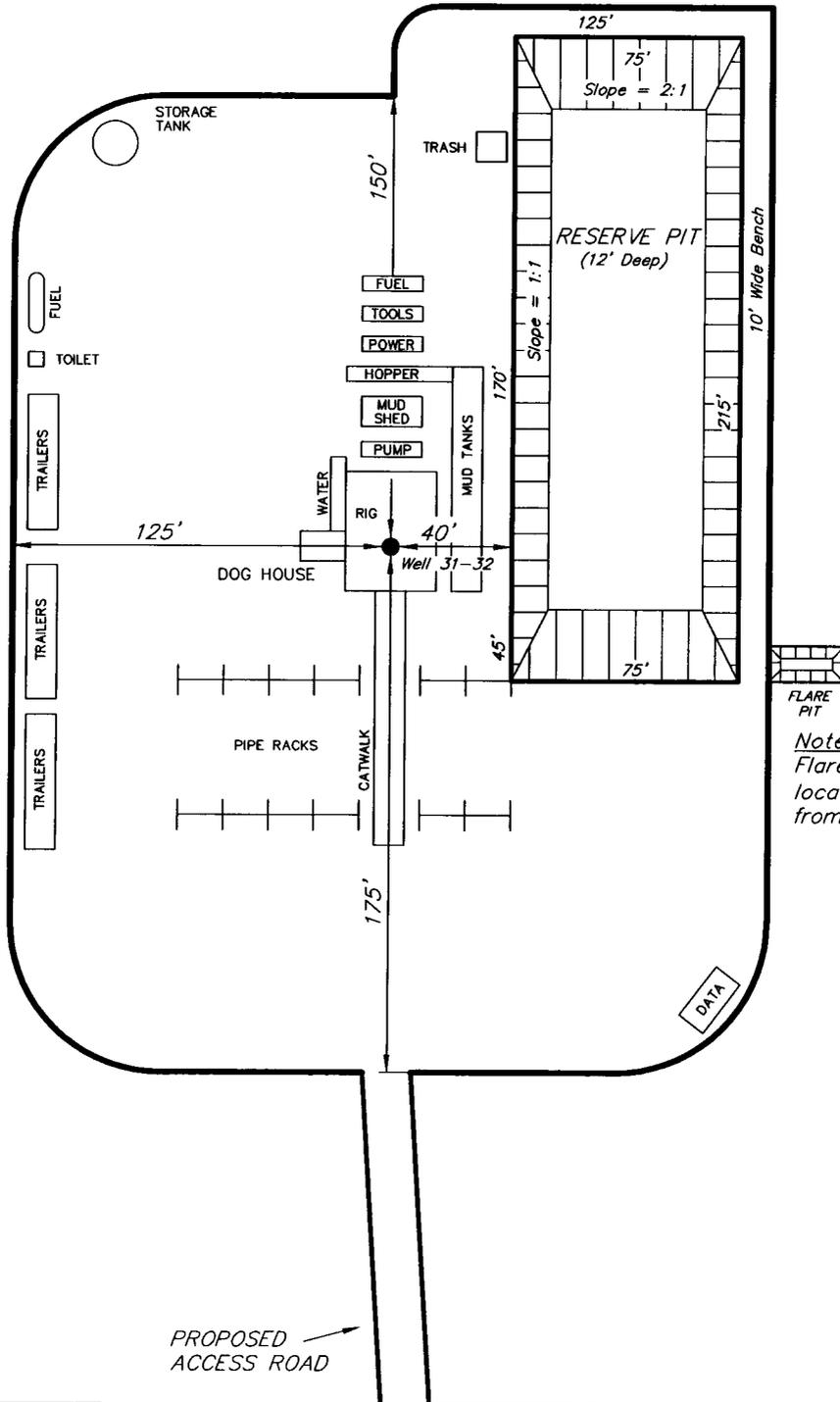
Tri State (435) 781-2501
 Land Surveying, Inc.
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

SHEET
4
 OF 10

ENDURING RESOURCES

TYPICAL RIG LAYOUT

ARCHY BENCH 11-24-31-32



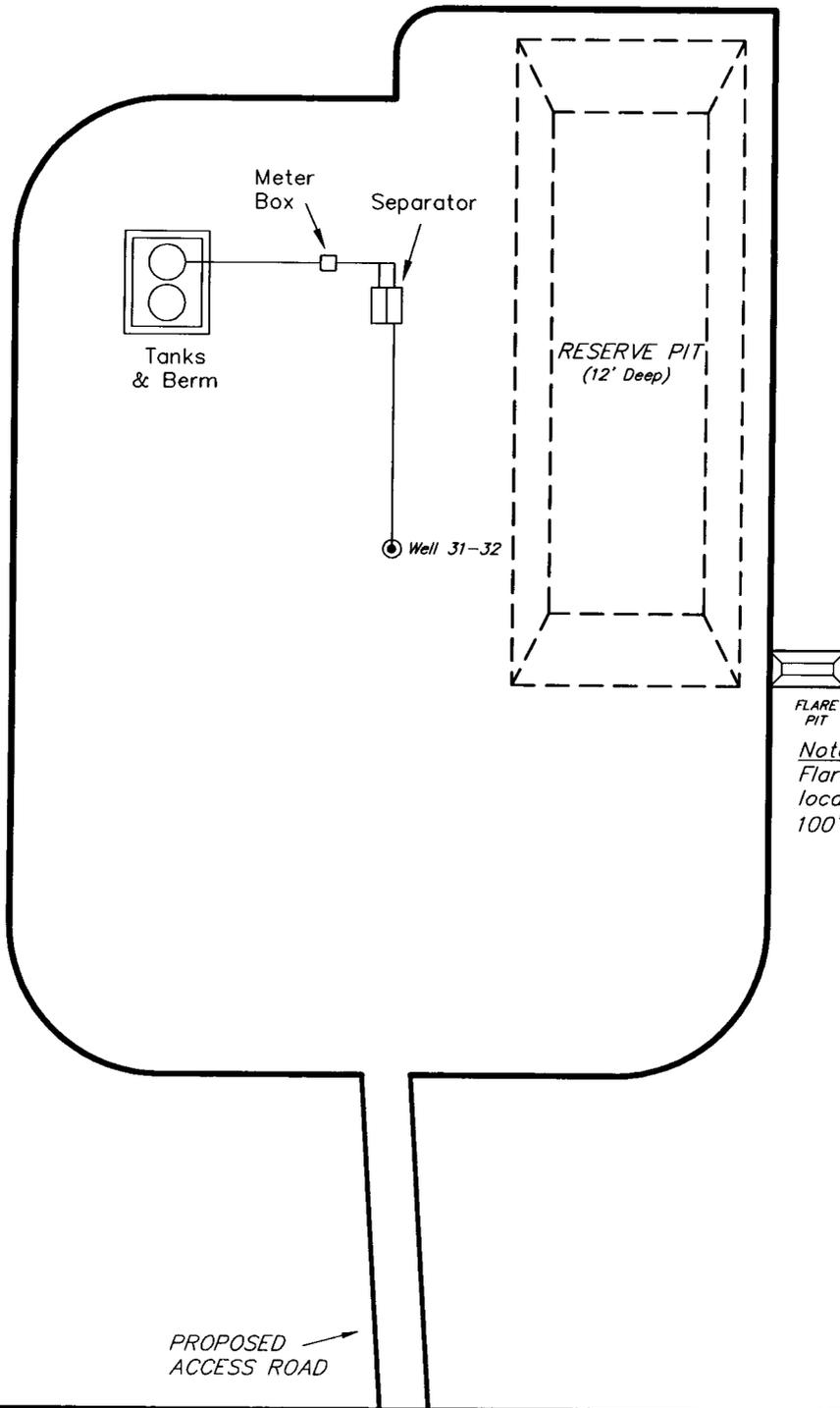
Note:
Flare pit is to be located at least 100' from well head.

SURVEYED BY: J.H.	DATE DRAWN: 04-15-06	Tri State Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078	(435) 781-2501
DRAWN BY: F.T.M.	SCALE: 1" = 60'		SHEET 5 OF 10
NOTES:			

ENDURING RESOURCES

PRODUCTION SCHEMATIC

ARCHY BENCH 11-24-31-32



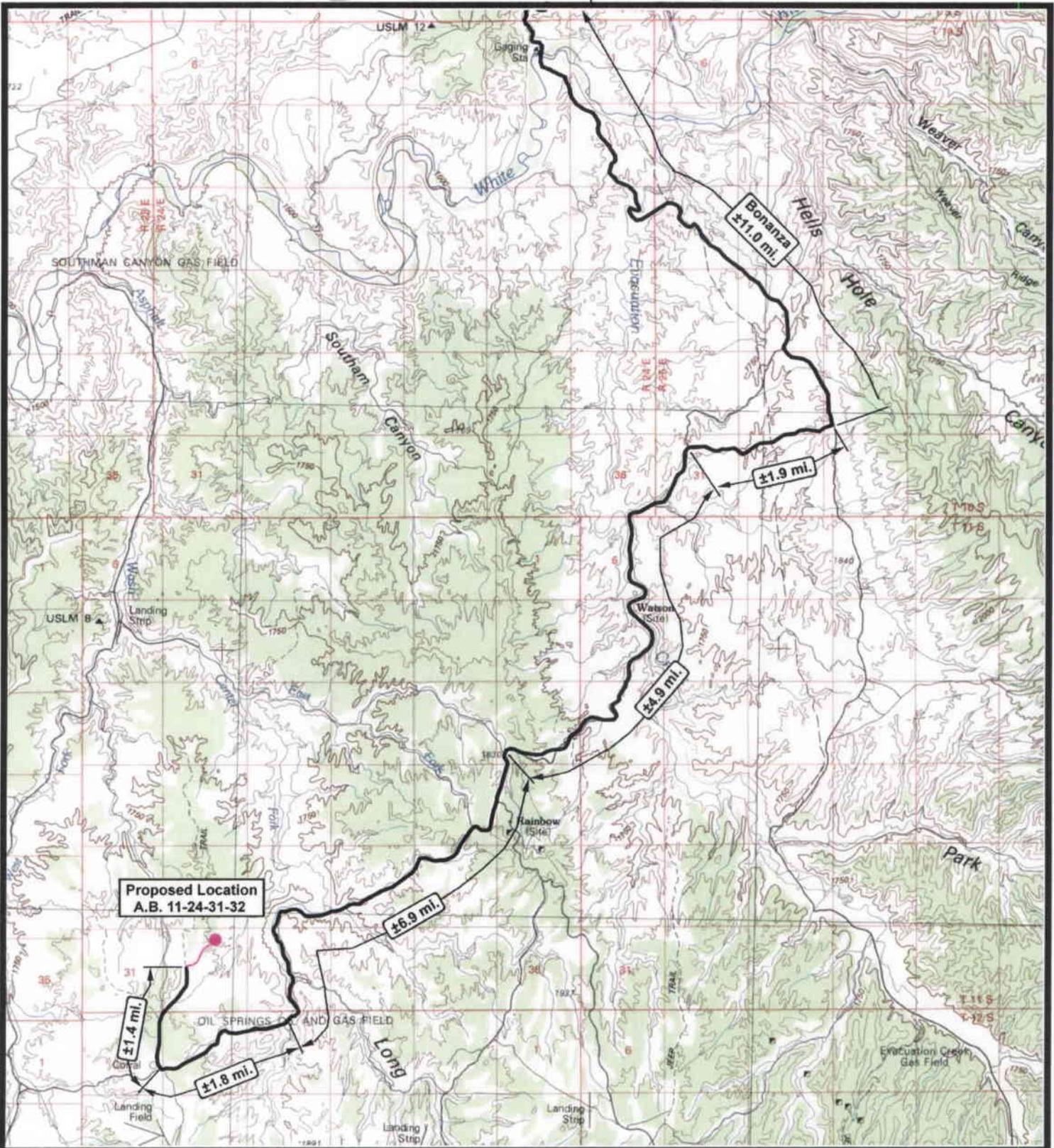
FLARE
PIT

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

SURVEYED BY: J.H.	DATE DRAWN: 04-15-06
DRAWN BY: F.T.M.	SCALE: 1" = 60'
NOTES:	

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(435) 781-2501



**Proposed Location
A.B. 11-24-31-32**



ENDURING RESOURCES

**Archy Bench 11-24-31-32
Sec. 32, T11S, R24E, 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: mw
DATE: 04-26-2006

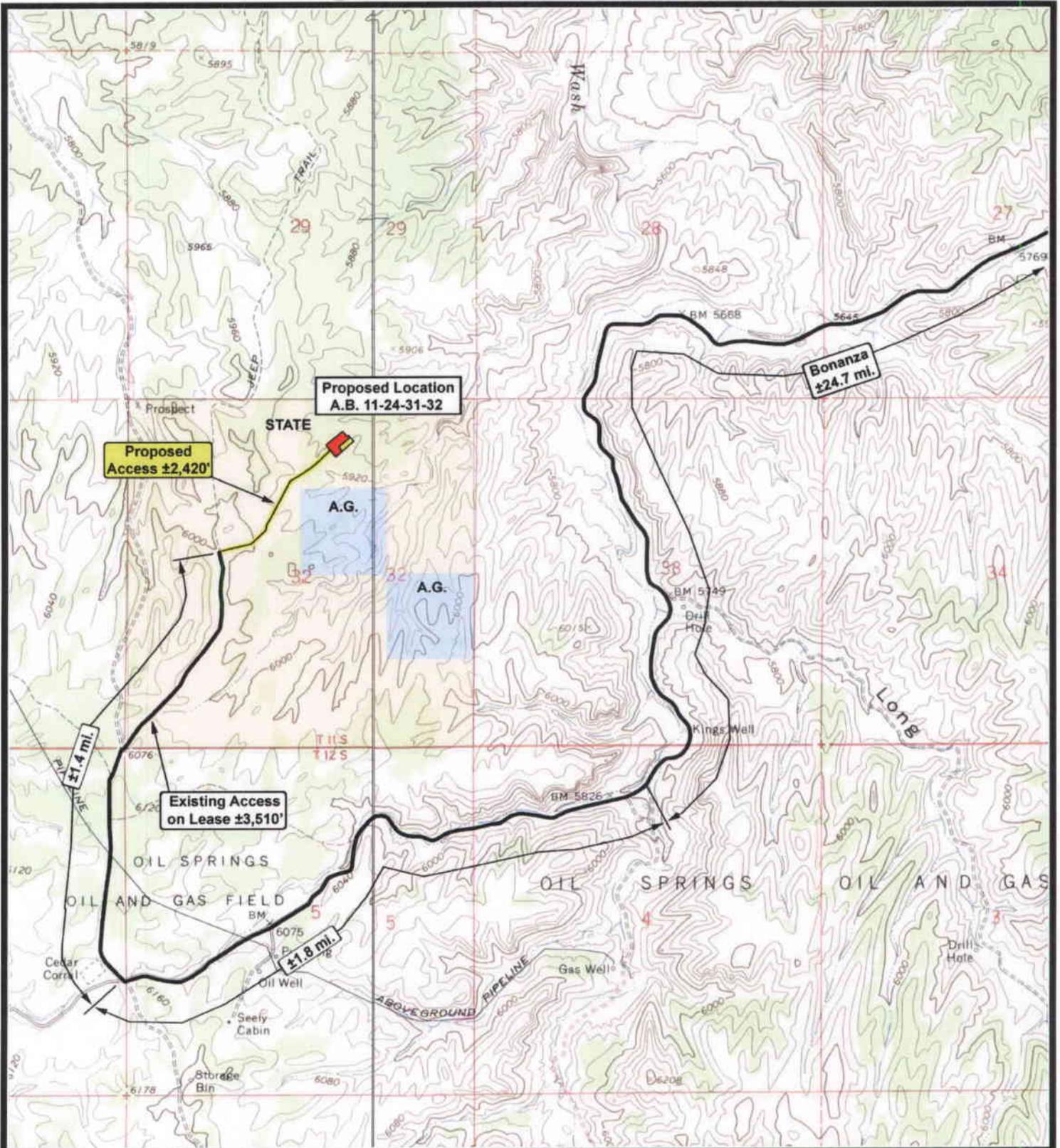
Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP

"A"

SHEET
7
OF 10



ENDURING RESOURCES

**Archy Bench 11-24-31-32
Sec. 32, T11S, R24E, S.L.B.&M.**



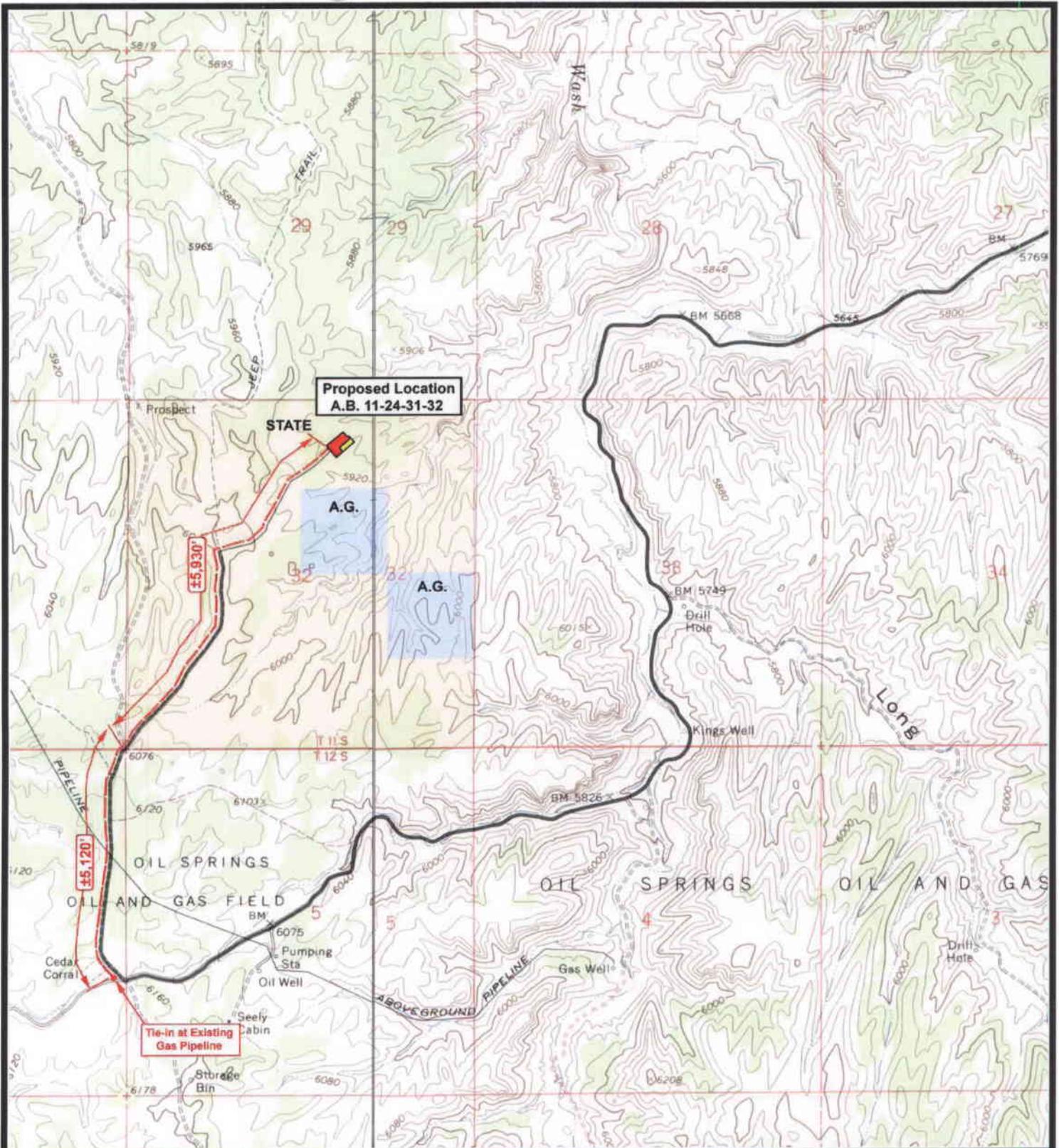
Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'
DRAWN BY: mw
DATE: 04-26-2006

Legend

- Existing Road
- Proposed Access

TOPOGRAPHIC MAP SHEET
"B" 8 OF 10



ENDURING RESOURCES

**Archy Bench 11-24-31-32
Sec. 32, T11S, R24E, 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: mw

DATE: 04-26-2006

Legend

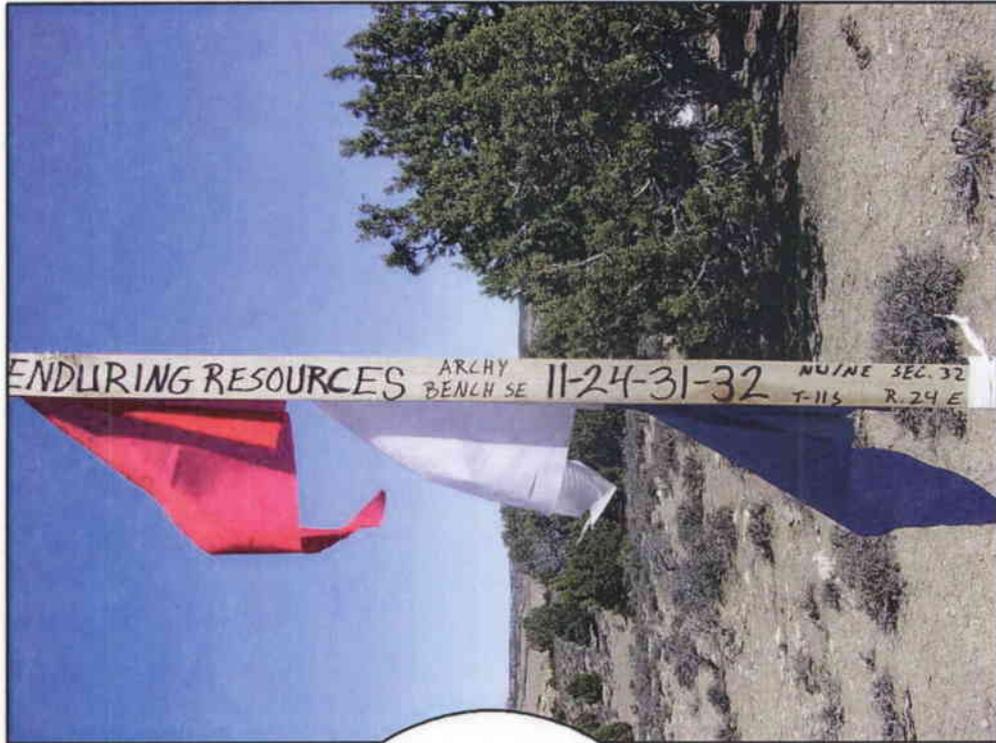
- Roads
- Proposed Gas Line

TOPOGRAPHIC MAP

"D"

SHEET

10
OF 10



CENTER STAKE


ENDURING RESOURCES
A.B. 11-24-31-32

Date Photographed: 04/13/2006
Date Drawn: 04/26/2006
Drawn By: mw


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



NORTH


ENDURING RESOURCES

A.B. 11-24-31-32

Date Photographed: 04/13/2006

Date Drawn: 04/26/2006

Drawn By: mw


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

EAST





SOUTH


ENDURING RESOURCES
A.B. 11-24-31-32

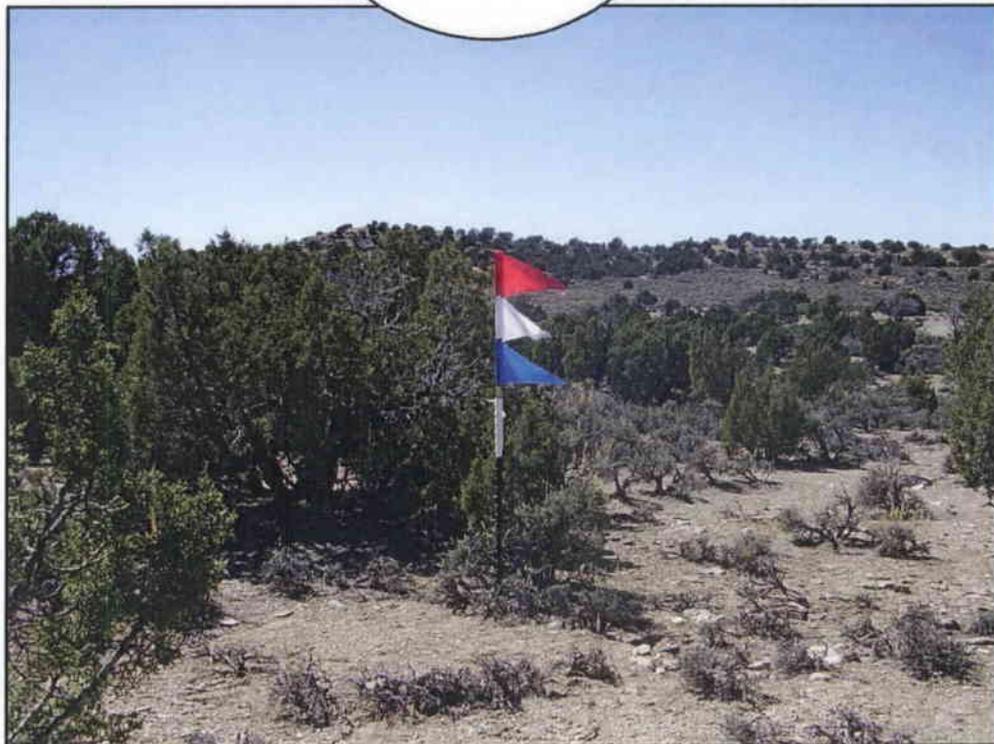
Date Photographed: 04/13/2005

Date Drawn: 04/26/2006

Drawn By: mw

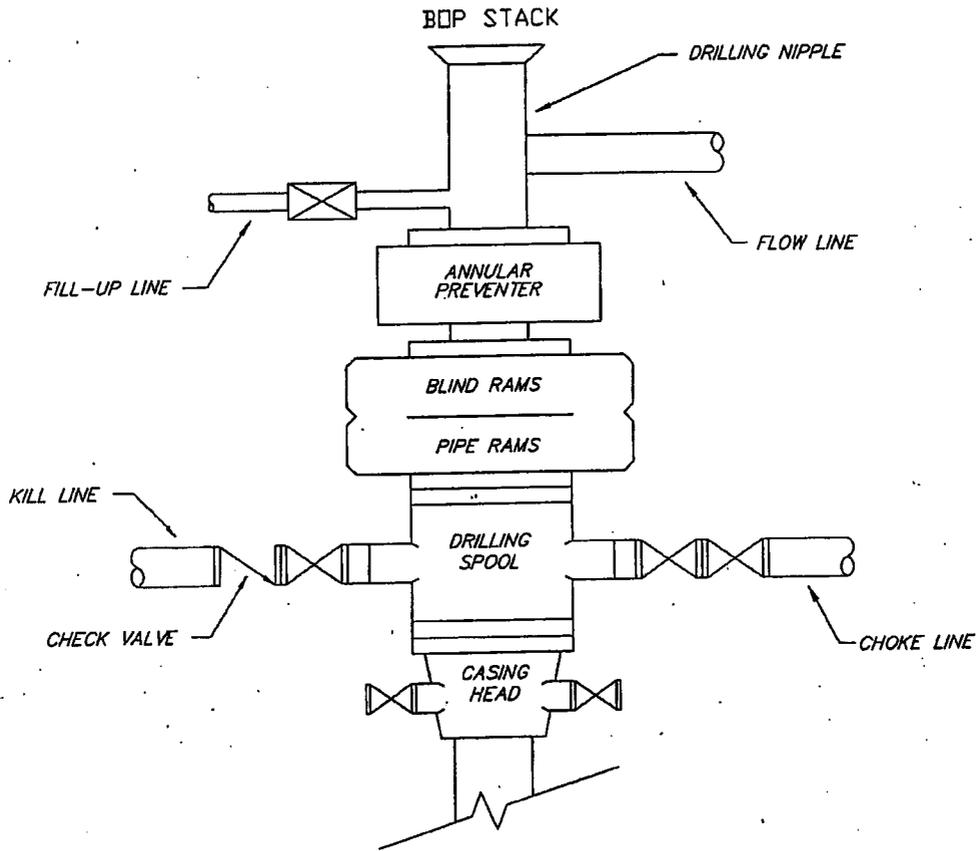

Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

WEST

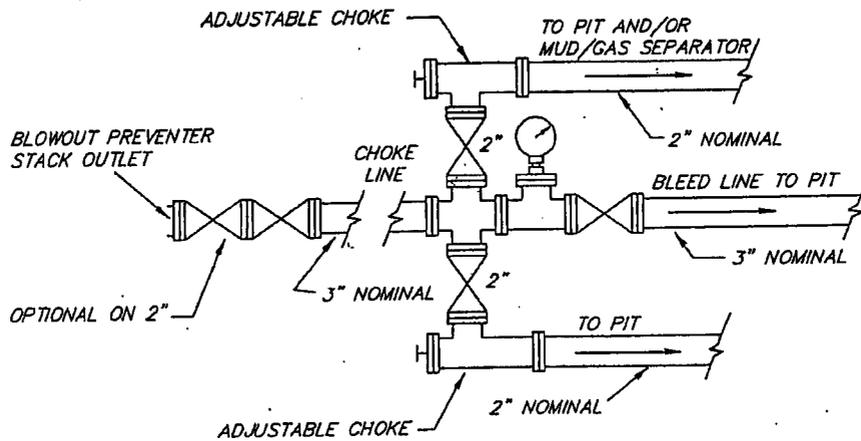


ENDURING RESOURCES, LLC

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



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



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/21/2006

API NO. ASSIGNED: 43-047-38321

WELL NAME: ARCHY BENCH 11-24-31-32
 OPERATOR: ENDURING RESOURCES, LLC (N2750)
 CONTACT: AL ARLIAN

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	8/22/06
Geology		
Surface		

NWNE 32 110S 240E
 SURFACE: 0608 FNL 2022 FEL
 BOTTOM: 0608 FNL 2022 FEL
 COUNTY: UINTAH
 LATITUDE: 39.82406 LONGITUDE: -109.2518
 UTM SURF EASTINGS: 649618 NORTHINGS: 4409482
 FIELD NAME: UNDESIGNATED (2)

LEASE TYPE: 3 - State
 LEASE NUMBER: ML-49782
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: MVRD
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

Plat

Bond: Fed[] 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: _____
 Eff Date: _____
 Siting: _____

___ R649-3-11. Directional Drill

COMMENTS: Needs Permit (08-0106)

STIPULATIONS: 1- Spacing Strip
2- STATEMENT OF BASIS
3- Surface Csg Cont Strip

T11S R24E

ARCHY BENCH
II-24-31-32

ARCHY BENCH
II-24-12-32

ARCHY BENCH
II-24-22-32

32

OIL SPRINGS FIELD

ARCHY BENCH
II-24-24-32
UTAH STATE 1

T12S R24E

OIL SPRINGS UNIT 10

OIL SPRINGS UNIT

OPERATOR: ENDURING RES LLC (N2750)

SEC: 32 T. 11S R. 24E

FIELD: UNDESIGNATED (002)

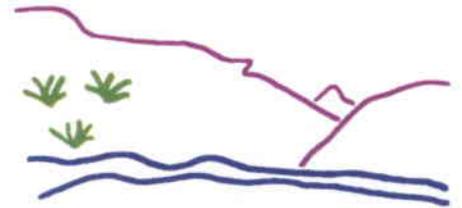
COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING

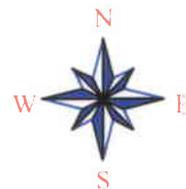
- Field Status**
- ABANDONED
 - ACTIVE
 - COMBINED
 - INACTIVE
 - PROPOSED
 - STORAGE
 - TERMINATED

- 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: 23-JUNE-2006

**DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS**

OPERATOR: ENDURING RESOURCES, LLC
WELL NAME & NUMBER: ARCHY BENCH 11-24-31-32
API NUMBER: 43-047-38321
LOCATION: 1/4,1/4 NW/NE Sec: 32 TWP: 11S RNG: 24E 608' FNL 2022 FEL

Geology/Ground Water:

Enduring proposes to set 2,000 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 3,500 feet. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the center of section 32. This well is over a mile from the proposed location. The well is 82 feet deep and is listed as being used for stock watering. The surface formation at this location is the Uinta/Green River Formation transition. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The Green River Formation is made up of interbedded limestones, shales and sandstones. Fresh water aquifers can be found in the Green River Formation and should be protected. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresh waters uphole. The proposed surface casing should adequately protect any potentially useable aquifers.

Reviewer: Brad Hill **Date:** 08-07-06

Surface:

The predrill investigation of the surface was performed on August 1, 2006. The State of Utah (SITLA) owns both the surface and minerals of this location. Mr. Douglas Hammond represented Enduring Resources, Mr. Jim Davis SITLA and Mr. Ben Williams UDWR attended the investigation. The proposed location is on a moderately gentle west facing side-hill which drains northeasterly to the Center Fork of Asphalt Wash. Cedar covered ridges and knolls and thin layers of bedrock are common in the area. Approximately 2,440feet of access road will be constructed to reach the location. Old gilsonite mines are in the immediate area. One new mine has recently been added. An archeological survey was completed by MOAC on 5/27/2006. A copy will be furnished to SITLA for the file. One flagged site is nearby. It appears to be a camp area used when the nearby gilsonite vein was mined. The road will not affect the site. Ben Williams, representing the UDWR, stated the area is classified as critical winter habitat for deer and high value winter habitat for elk. To reduce the impact on these two species, he recommended to Doug Hammond of Enduring Resources and Jim Davis of SITLA that during the critical period of November 1-March 31 no disturbing activity take place. Disturbing activity would include access road and location construction and drilling and work-over rigs. He gave Mr. Hammond and Mr. Davis a copy of his written evaluation and also a DWR recommended seed mix to be used when re-vegetating the site. No other wildlife species are expected to be significantly effected.

Reviewer: Floyd Bartlett **Date:** 08/02/2006

Conditions of Approval/Application for Permit to Drill:

1. A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: ENDURING RESOURCES, LLC
WELL NAME & NUMBER: ARCHY BENCH 11-24-31-32
API NUMBER: 43-047-38321
LEASE: FEE **FIELD/UNIT:** UNDESIGNATED
LOCATION: 1/4,1/4 NW/NE Sec: 32 TWP: 11S RNG: 24E 608' FNL 2022 FEL
LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.
GPS COORD (UTM): 649621 E 4409479 N **SURFACE OWNER:** State of Utah (SITLA).

PARTICIPANTS

Floyd Bartlett (DOGM), Douglas Hammond (Enduring Resources) Mike Stewart (Ponderosa Construction), Ben Williams (UDWR), Jim Davis (SITLA), Jake Huber and Dustin Laub (Tri-State Land Surveying).

REGIONAL/LOCAL SETTING & TOPOGRAPHY

The proposed Archy Bench 11-24-31-32 gas well is on the east facing slopes which drain toward the Center Fork of Asphalt Wash. The location is approximately 18 miles southerly of Bonanza Ut, and approximately 66 miles southwest of Vernal, UT. Access from Bonanza is by State Highway then Uintah County roads to the Kings Well road, southwesterly along this road 15.5 miles, then north 1.4 miles on the Oil Springs access road then northeast 2440 feet on a road to be constructed to the proposed location.

Topography in the general area is broad canyon bottoms separated by steep and often ledgey side-slopes, which top out onto broad ridge tops. Frequent outwash plains and deposits occur along the sides of the major bottoms. The drainages of Asphalt Wash are broad somewhat gentle alluvial washes, which are dry except for spring runoff and sometimes-intense summer rainstorms. The Asphalt Wash drainages collectively run northerly to the White River about eleven miles to the north.

The proposed location is on a moderately gentle west facing side hill which drains northeasterly to the Center Fork of Asphalt Wash. Cedar covered ridges and knolls with thin layers of bedrock are common in the area. Approximately 2,440feet of access road will be constructed to reach the location. Old gilsonite mines are in the immediate area. One new mine has recently been added.

SURFACE USE PLAN

CURRENT SURFACE USE: Wildlife, domestic sheep grazing and hunting.

PROPOSED SURFACE DISTURBANCE: Approximately 2,440 feet of new access road and construction of a well location 325'x 290' plus soil stockpile storage outside the described area.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: See attached map from GIS database.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All production facilities will be on location and added after drilling the well. Approximately 11,050 feet of pipeline will follow the access road and tie in with the pipeline along the Kings Well Road.

SOURCE OF CONSTRUCTION MATERIAL: All construction material will be borrowed from site during construction of location.

ANCILLARY FACILITIES: None will be required.

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? EXPLAIN: Unlikely. Oilfield and gilsonite activity are common in the area and is the dominant use.

WASTE MANAGEMENT PLAN:

Drilled cuttings will be settled into reserve pit. Liquids from pit will be allowed to evaporate. Formation water will be confined to storage tanks. Commercial contractor will handle sewage facilities, storage and disposal. Trash will be contained in trash baskets and hauled to an approved land fill.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: None.

FLORA/FAUNA: Poorly vegetated sagebrush/pinon juniper site. A few annual mustard plants exist. Pronghorn, rodents, songbirds, raptors, elk, deer, bobcat, coyote.

SOIL TYPE AND CHARACTERISTICS: Light brown moderately deep shaley, sandy loam.

EROSION/SEDIMENTATION/STABILITY: No stability problems are anticipated with the construction and operation of the location.

PALEONTOLOGICAL POTENTIAL: Completed by IPC on 5-31-06.

RESERVE PIT

CHARACTERISTICS: 170' by 75' and 12' deep. The reserve pit is planned in an area of cut on the north east corner of the location. No stabilization problems are expected.

LINER REQUIREMENTS (Site Ranking Form attached): A liner will be required for reserve pit. Sensitivity score is 20 and a rating Level II. Doug Hammond stated the pit will be lined with a 16 mil liner.

SURFACE RESTORATION/RECLAMATION PLAN

As per landowner agreement with SITLA.

SURFACE AGREEMENT: SITLA

CULTURAL RESOURCES/ARCHAEOLOGY: Completed by MOAC on 5/27/2006. A copy will

be furnished to SITLA for the file. One flagged site is nearby. Appears to be a camp area used when the nearby gilsonite vein was mined. Site will not be affected by the road.

OTHER OBSERVATIONS/COMMENTS

Ben Williams, representing the UDWR, stated the area is classified as critical winter habitat for deer and high value winter habitat for elk. To reduce the impact on these two species, he recommended to Doug Hammond of Enduring Resources and Jim Davis of SITLA that during the critical period of November 1-March 31 no disturbing activity take place. Disturbing activity would include access road and location construction and drilling and work-over rigs. He gave Mr. Hammond and Mr. Davis a copy of his written evaluation and also a DWR recommended seed mix to be used when re-vegetating the site. No other wildlife species are expected to be significantly effected. This pre-drill investigation was conducted on a sunny day.

ATTACHMENTS

Photos of site have been taken and placed on file.

Floyd Bartlett
DOGM REPRESENTATIVE

08/01/2006 13:00 AM
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

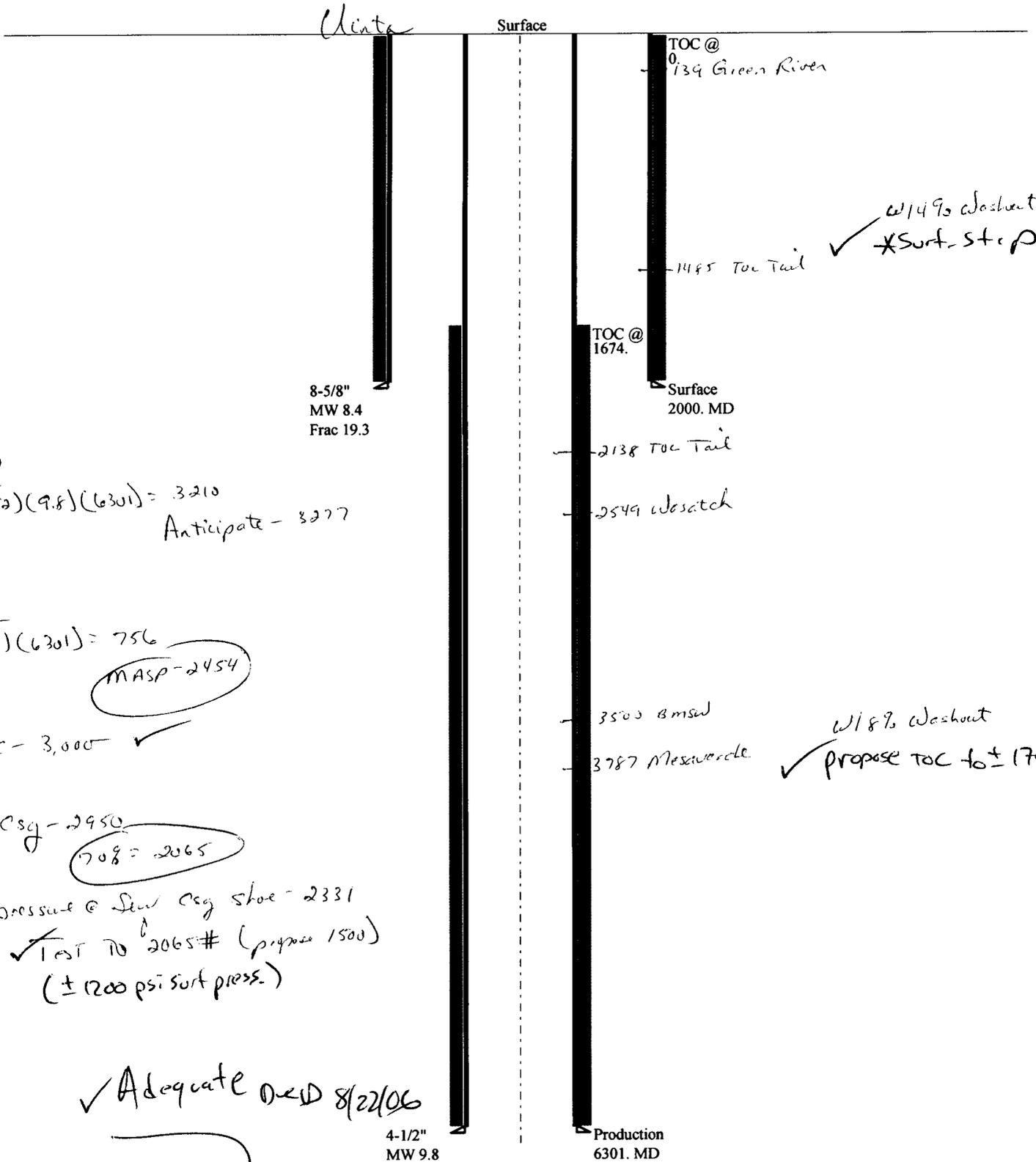
<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

Final Score 20 (Level II Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.
Sensitivity Level II = 15-19; lining is discretionary.
Sensitivity Level III = below 15; no specific lining is required.

8-06 Enduring Archy Bench -24-13-32

Casing Schematic



BHP
 $(0.52)(9.8)(6301) = 3210$
 Anticipate - 3277

G02
 $(0.12)(6301) = 756$
 MASP-2454

BOPE - 3,000 ✓

Surf Csg - 2950
 708 = 2065

Mat pressure @ Surf Csg shoe - 2331
 ✓ Test to 2065# (propose 1500)
 (+/- 1200 psi surf press.)

✓ Adequate OWD 8/22/06

✓ w/ 4 9/16 Washout
~~*Surf. Stop~~

✓ w/ 8 9/16 Washout
 propose TOC to +/- 1700'

Well name: **08-06 Enduring Archy Bench 11-24-13-32**

Operator: **Enduring Resource, LLC**

String type: **Surface**

Project ID:
43-047-38321

Location: **Uintah County**

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 103 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 500 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 1,760 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,000 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,748 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 6,301 ft
Next mud weight: 9.800 ppg
Next setting BHP: 3,208 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,000 ft
Injection pressure 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2000	8.625	24.00	J-55	ST&C	2000	2000	7.972	96.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	873	1370	1.570	2000	2950	1.48	42	244	5.82 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Phone: 801-538-5280
FAX: 801-359-3940

Date: August 9,2006
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	08-06 Enduring Archy Bench 11-24-13-32	
Operator:	Enduring Resource, LLC	Project ID:
String type:	Production	43-047-38321
Location:	Uintah County	

Design parameters:

Collapse

Mud weight: 9.800 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 75 °F
 Bottom hole temperature: 163 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,500 ft

Cement top: 1,674 ft

Burst

Max anticipated surface pressure: 1,025 psi
 Internal gradient: 0.346 psi/ft
 Calculated BHP 3,208 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 5,378 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6301	4.5	11.60	N-80	LT&C	6301	6301	3.875	146.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3208	6350	1.980	3208	7780	2.43	62	223	3.57 J

Prepared by: Clinton Dworshak
 Utah Div. of Oil & Mining

Phone: 801-538-5280
 FAX: 801-359-3940

Date: August 9, 2006
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6301 ft, a mud weight of 9.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

From: Ed Bonner
To: Whitney, Diana
Date: 8/4/2006 2:34:54 PM
Subject: Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resource Group:

ConocoPhillips Company

Utah 4-1269
Utah 31-1093
Utah 31-1091
Utah 18-1242
Utah 26-1196
Utah 27-1200
Utah 34-1218
Utah 12-1164
Utah 14-1170
Utah 13-1166

Dominion E&P, Inc
LCU 14-2H

Enduring Resources, LLC
Archy Bench 11-24-31-32
Archy Bench 11-24-22-32

The Houston Exploration Company
Squaw Ridge 8-16-7-25

If you have any questions regarding this matter please give me a call.

CC: Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil



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

August 22, 2006

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

Re: Archy Bench 11-24-31-32 Well, 608' FNL, 2022' FEL, NW NE, Sec. 32,
T. 11 South, R. 24 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 43-047-38321.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA

Operator: Enduring Resources, LLC
Well Name & Number Archy Bench 11-24-31-32
API Number: 43-047-38321
Lease: ML-49782

Location: NW NE **Sec.** 32 **T.** 11 South **R.** 24 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**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

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. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
7. Surface casing shall be cemented to the surface.

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, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-49782
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
PHONE NUMBER: (303) 350-5719		8. WELL NAME and NUMBER: Archy Bench 11-24-31-32
4. LOCATION OF WELL FOOTAGES AT SURFACE: 608' FNL - 2022' FEL		9. API NUMBER: 4304738321
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 32 11S 24E S		10. FIELD AND POOL, OR WILDCAT: Undesignated
COUNTY: Uintah		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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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"/> 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: 8/22/2007
TO: 8/22/2008

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 08-27-07
By: [Signature]

NAME (PLEASE PRINT) <u>Evette Bissett</u>	TITLE <u>Regulatory Affairs Assistant</u>
SIGNATURE <u>[Signature]</u>	DATE <u>8/20/2007</u>

(This space for State use only)

NOT SENT TO OPERATOR
8-27-07
RM

RECEIVED
AUG 23 2007

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

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

API: 4304738321
Well Name: Archy Bench 11-24-31-32
Location: 608' FNL - 2022' FEL, NWNE, Sec 32, T11S-R24E
Company Permit Issued to: Enduring Resources, LLC
Date Original Permit Issued: 8/22/2006

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

Gultha Briscoe
Signature

8/20/2007
Date

Title: Regulatory Affairs Assistant

Representing: Enduring Resources, LLC

RECEIVED
AUG 23 2007
DIV. OF OIL, GAS & MINING

CONFIDENTIAL

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, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-49782
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: 608' FNL - 2022' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 32 11S 24E S		8. WELL NAME and NUMBER: Archy Bench 11-24-31-32
PHONE NUMBER: (303) 350-5114		9. API NUMBER: 4304738321
COUNTY: Uintah STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: Undesignated

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
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	<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: 8/27/2008
TO: 8/27/2009

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

Date: 08-26-08
By: [Signature]

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman</u>
SIGNATURE <u>[Signature]</u>	DATE <u>7/22/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR

Date: 8-27-2008

Initials: KS

RECEIVED

AUG 25 2008

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

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

API: 4304738321
Well Name: Archy Bench 11-24-31-32
Location: 608' FNL - 2022' FEL, NWNE, Sec 32, T11S-R24E
Company Permit Issued to: Enduring Resources, LLC
Date Original Permit Issued: 8/22/2006

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

7/22/2008

Date

Title: Administrative Assistant

Representing: Enduring Resources, LLC

RECEIVED
AUG 25 2008
DIV. OF OIL, GAS & MINING



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
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

September 10, 2009

Enduring Resources, LLC
475 17TH Street Ste 1500
Denver, CO 80202

Re: APD Rescinded – Archy Bench 11-24-31-32, Sec. 32, T.11S, R. 24E
Uintah County, Utah API No. 43-047-38321

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on August 22, 2006. On August 27, 2007 and August 26, 2008 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective September 10, 2009.

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
SITLA, Ed Bonner

