

**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

March 6, 2006

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

Attention: Diana Whitney

**RE: Application for Permit to Drill  
Buck Camp 12-22-11-2  
Surface: SWNW Section 2-T12S-R22E  
1,944' FNL – 462' FWL  
BHL: NWNW Section 2-T12S-R22E  
660' FNL – 660' FWL  
Lease #ML 47087 Uintah County, Utah**

Dear Ms. Whitney

Attached are two original applications to drill for the above-referenced proposed well. This well will be drilled on State of Utah lands for the Buck Camp 12-22-12-2 Well pad. A copy of this APD is being sent to SITLA. Access into this section is using an existing County Road.

Enduring Resources, LLC respectfully requests that this information, and future information, be held confidential.

Should you have any questions concerning this matter, please do not hesitate to call (303-350-5114)

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

ara/

Attachments as stated:

RECEIVED

MAR 09 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)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: <b>ML-47087</b>	6. SURFACE: <b>Federal</b>
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: <b>Enduring Resources, LLC</b>		9. WELL NAME and NUMBER: <b>Buck Camp 12-22-11-2</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>1,944' FNL - 462' FWL</b> <b>SWNW</b> AT PROPOSED PRODUCING ZONE: <b>660' FNL - 660' FWL</b> <b>NWNW</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWNW 2 12S 22E S</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>70.7 miles from Vernal, Utah</b>		12. COUNTY: <b>Uintah</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>660' BHL - (Surface is 462' from another lease)</b>	16. NUMBER OF ACRES IN LEASE: <b>640</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>1299' BHL (surface is 25')</b>	19. PROPOSED DEPTH: <b>7,585</b>	20. BOND DESCRIPTION: <b>RLB0008031</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5758' KB-RT</b>	22. APPROXIMATE DATE WORK WILL START: <b>6/1/2006</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#	7,585	Class G	78 sxs	3.3	11.0
			50/50 Poz Class G	912 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. (Al) Arlian TITLE Landman - Regulatory Specialist

SIGNATURE  DATE 3/6/2006

(This space for State use only)

API NUMBER ASSIGNED: 4304737892

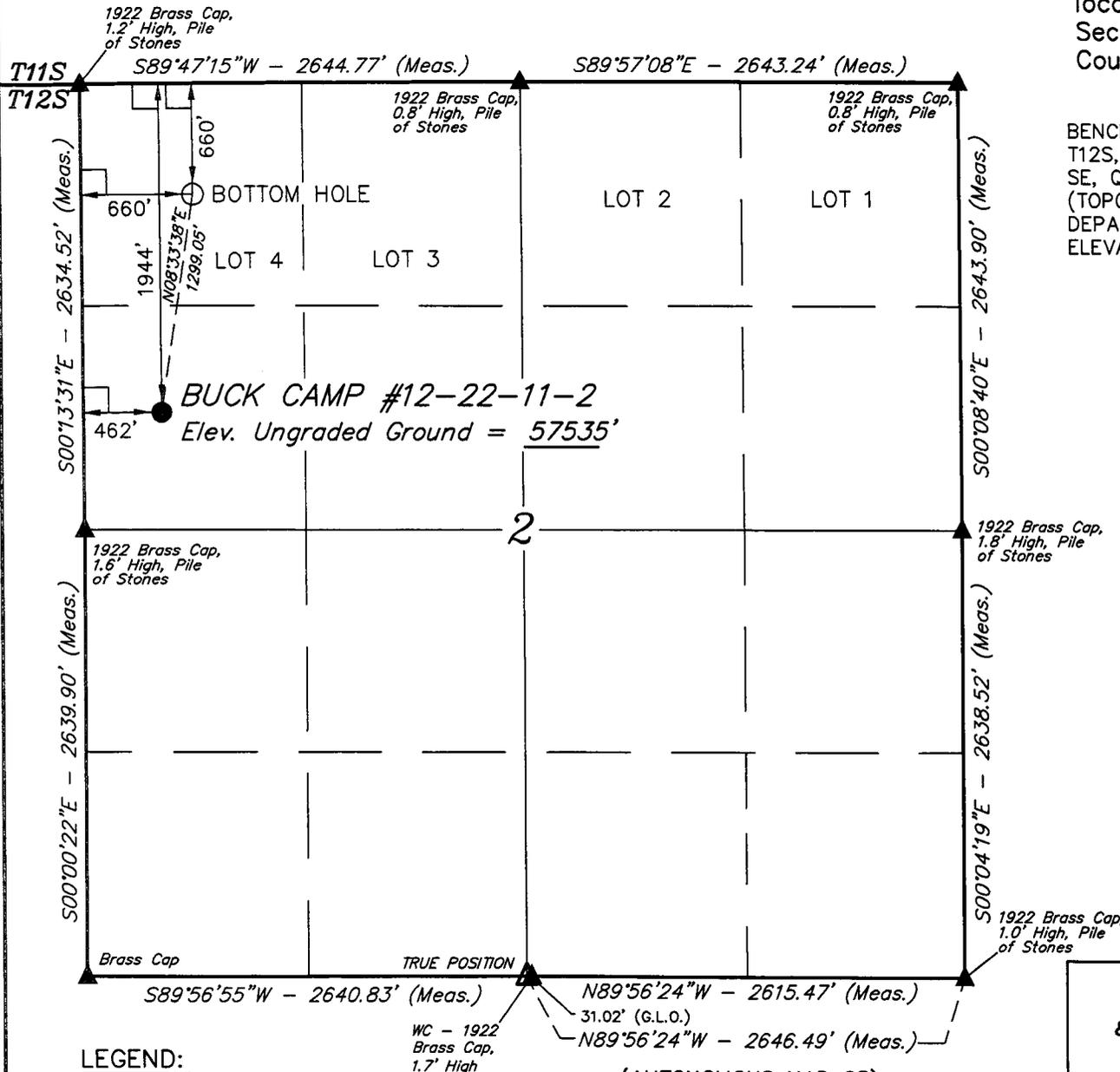
APPROVAL:

**RECEIVED**  
**MAR 09 2006**

# T12S, R22E, S.L.B.&M.

## ENDURING RESOURCES, LLC.

Well location, BUCK CAMP #12-22-11-2, located as shown in the SW 1/4 NW 1/4 of Section 2, T12S, R22E, S.L.B.&M. Uintah County, Utah.

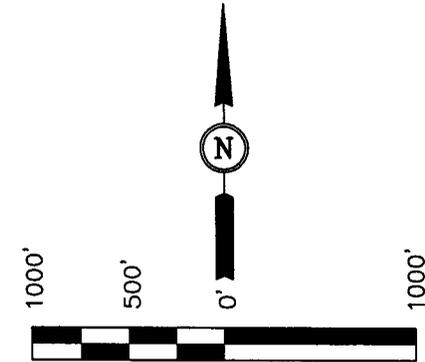


### BASIS OF ELEVATION

BENCH MARK 87 EAM LOCATED IN THE SW 1/4 OF SECTION 1, T12S, R23E, S.L.B.&M. TAKEN FROM THE ARCHY BENCH SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5887 FEET.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



### CERTIFICATE

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.

*John H. Hay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

REVISED: 01-30-06

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = TRUE POSITION

(AUTONOMOUS NAD 83)  
LATITUDE = 39°48'16.28" (39.804522)  
LONGITUDE = 109°25'48.47" (109.430131)  
(AUTONOMOUS NAD 27)  
LATITUDE = 39°48'16.40" (39.804556)  
LONGITUDE = 109°25'46.02" (109.429450)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 12-22-05	DATE DRAWN: 01-03-06
PARTY B.H. J.T. L.K.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE ENDURING RESOURCES, LLC.	

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March 6, 2006

State of Utah  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Attention: Ms. Diana Whitney

**RE: Request for Exception Well Location  
Buck Camp 12-22-12-2  
SWNW Section 2-T12S-R22E  
1,971' FNL – 465' FWL  
Lease #ML 47087  
Uintah County, Utah**

**Buck Camp 12-22-11-2  
Surface: SWNW Section 2-T12S-R22E  
1,944' FNL – 462' FWL  
BHL: NWNW Section 2-T12S-R22E  
660' FNL – 660' FWL  
Lease #ML 47087  
Uintah County, Utah**

Dear Ms. Whitney:

Enduring Resources, LLC ("ERLLC") is the only leasehold interest owner within 460 feet of any part of the above-referenced proposed wells' proposed well bores.

1. The Buck Camp 12-22-12-2 is a vertical well,
2. the Buck Camp 12-22-11 is a directional well to be drilled from the Buck Camp 12-22-12-2 well pad, and
3. The subject wells' surface location is only 25 feet apart.

ERLLC is the only leasehold interest owner within the NW of Sec 2, therefore,

- A. *ERLLC grants itself permission to directionally drill the Buck Camp 12-22-11-2, and*
- B. *ERLLC also grants itself permission for exception well(s)' surface locations.*

In the event there are any other outstanding matters preventing these APD's from being approved, please let me know at your earliest convenience, 303-350-5114 ([aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)).

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

RECEIVED

MAR 09 2006

DIV. OF OIL, GAS & MINING

# Enduring Resources, LLC

Buck Camp 12-22-11-2  
Surface Location: 1,944' FNL – 462' FWL  
SWNW Sec. 2-T12S-R22E  
BH Location: 660' FNL – 660' FWL  
NWNW Sec. 2-T12S-R22E

Uintah County, Utah  
Lease #: ML-47077

## ONSHORE ORDER 1 - DRILLING PLAN

### 1. Estimated Tops of Geological Markers:

Formation	Depth (K.B.)
Uinta	Surface
Green River	539'
Wasatch	2989'
Mesaverde	5198'

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

Substance	Formation	Depth (K.B.) TVD
	KB-Uinta Elevation: 5758' est.	
Oil / Gas	Green River	539'
Oil /Gas	Wasatch	2989'
Oil /Gas	Mesaverde	5198'
	TD	7585'

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 – 2016' (KB) est.
7-7/8"	4-1/2"	11.6#	N-80	LT&C	0 – 7585' (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)
7585' (KB)	4-1/2", 11.6#/ft, N-80, LTC	6350/1.62 (d)	7780/2.16 (e)	223/2.96 (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	873	Class "G" + 5% NaCl + 12% Gel + 0.25 pps celloflake + 0.2% antifoam + 0.25% fluid loss + 1% extender	78	25	11.0	3.3
4-1/2"	Tail	4996	50/50 POZ Class G + 2% gel + 1% CaCl <sub>2</sub> + 0.2% dispersant + 0.2% fluid loss + 0.1% antifoam	912	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'-7585' (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 3,928 psi (calculated at 0.52 psi/foot of hole) and maximum anticipated surface pressure equals approximately 2,266 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.

A measurement while drilling (MWD) system will be used to track and control the directional path of the wellbore.

# Enduring Resources, LLC

Buck Camp 12-22-11-2  
Surface Location: 1,944' FNL – 462' FWL  
SWNW Sec. 2-T12S-R22E  
BH Location: 660' FNL – 660' FWL  
NWNW Sec. 2-T12S-R22E

Uintah County, Utah  
Lease #: ML-47077

## MULTI-POINT SURFACE USE & OPERATIONS PLAN

### 1. Existing Roads:

Directions to the Buck Camp 12-22-11-2 Well:

*This well will be directionally drilled from the Buck Camp 12-22-12-2 Well Pad.*

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 11.2 MILES ALONG THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY, THEN SOUTHEASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 7.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY, THEN SOUTHEASTERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 70.7 MILES.

### 2. Planned Access Roads:

The proposed access road will be approximately .40 mile of new construction all on-lease. The balance of the road is an existing well road to the county road tie-in point.

ALL NEW CONSTRUCTION IS ON SITLA LANDS. The balance of the ON-LEASE road is an existing Class D County Road. However, this County Road Class D Road will be improved to meet SITLA (and DOG&M) requirements, if needed. Please refer to Topo Map "B" for the takeoff point for the new road construction and the Class D County Road that will be improved.

No off-lease access road right-of-way is needed.

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. | (2):     | Producing Wells:                                      |
|    |          | i. Buck Camp 2-2, NWNE Sec. 2-12S-22E                 |
|    |          | ii. Buck Camp 7-2, SWNE Sec 2-12S-22E                 |
| 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. | Various: | Pending (staked) Wells:                               |
|    |          | i. Various wells staked by Enduring in Sec. 2-12S-22E |

**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 for this well will be:

2320' 4" Surface Pipeline	On-Lease	SITLA
-0-	Off-Lease	N/A

An existing 4" surface pipeline presently being constructed along the Buck Camp 12-22-13-2 by Canyon Gas down to the County Case D Road.

If this well is capable of economic production, a 4" 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 2,320 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 (easterly) to tie-in to a 4" steel surface pipeline that is being constructed to Canyon Gas along the Buck Camp 12-22-13-2 lease 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 feasible, water for drilling shall be acquired from Enduring Water User Claim 49-2215, Application #T76132., or if that source is not feasible, then 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 SITLA.

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

Wellsite: SITLA

Access: SITLA

Pipeline: SITLA

**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.

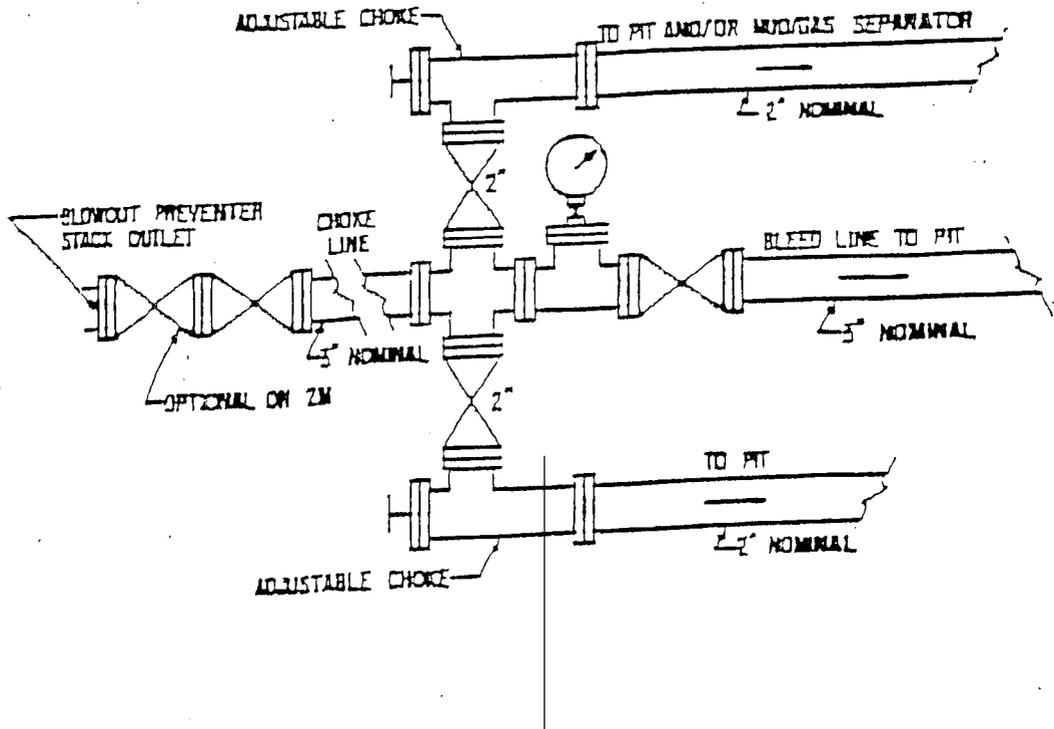
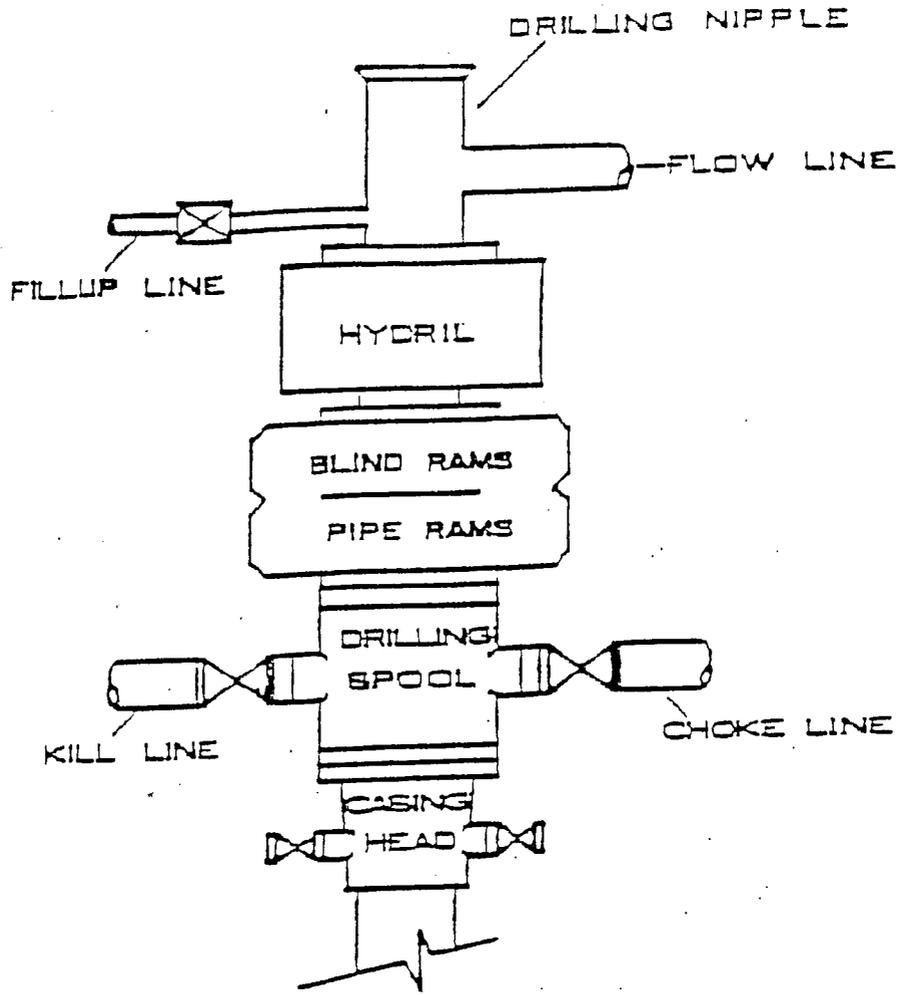
**13, Lessee's or Operator's Representatives:****Representatives:**

Alvin R. (Al) Arlian  
Landman – Regulatory Specialist  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
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3,000 PSI

# BOP STACK





**ENDURING RESOURCE**  
**Buck Camp 12-22-11-2**  
**SW/NW Sec. 2, T12S, R22E**  
**Uintah County, Utah**



**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	8.91	0.00	0.00	0.00	0.00	0.00	0.00	
2	2072.00	0.00	8.91	2072.00	0.00	0.00	0.00	0.00	0.00	KOP
3	2940.34	34.73	8.91	2888.13	252.16	39.53	4.00	8.91	255.24	End Build
4	4186.02	34.73	8.91	3911.83	953.34	149.46	0.00	0.00	964.98	Start Drop
5	5343.81	0.00	8.91	5000.00	1289.55	202.17	3.00	180.00	1305.30	Start Hold
6	7928.81	0.00	8.91	7585.00	1289.55	202.17	0.00	8.91	1305.30	TD

**WELL DETAILS**

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Buck Camp 12-22-11-2	0.00	0.00	7104259.12	2221853.04	39°48'16.230N	109°25'48.580W	N/A

**FIELD DETAILS**

Uintah, Utah  
 Utah Central Zone  
 U.S.A.  
 Geodetic System: US State Plane Coordinate System 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah, Central Zone  
 Magnetic Model: igrf2005  
 System Datum: Mean Sea Level  
 Local North: True North

**SITE DETAILS**

SW/NW 2-12S-22E Pad  
 Sec. 2, T12S, R22E, Uintah County, Utah  
 Site Centre Latitude: 39°48'16.230N  
 Longitude: 109°25'48.580W  
 Ground Level: 5741.80  
 Positional Uncertainty: 0.00

**TARGET DETAILS**

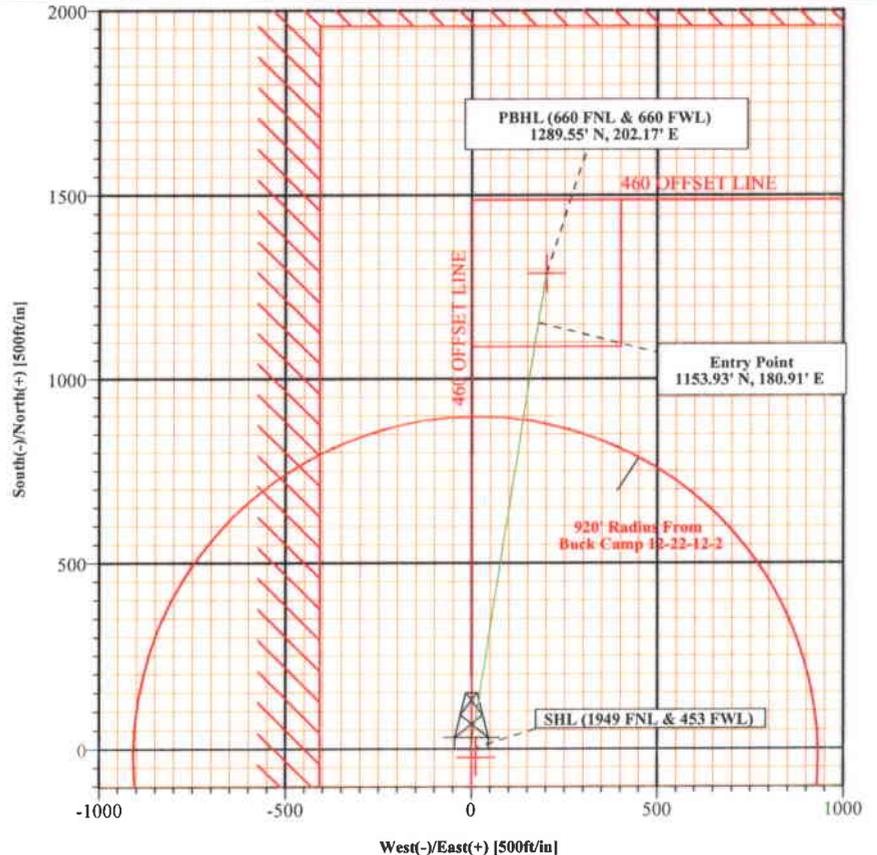
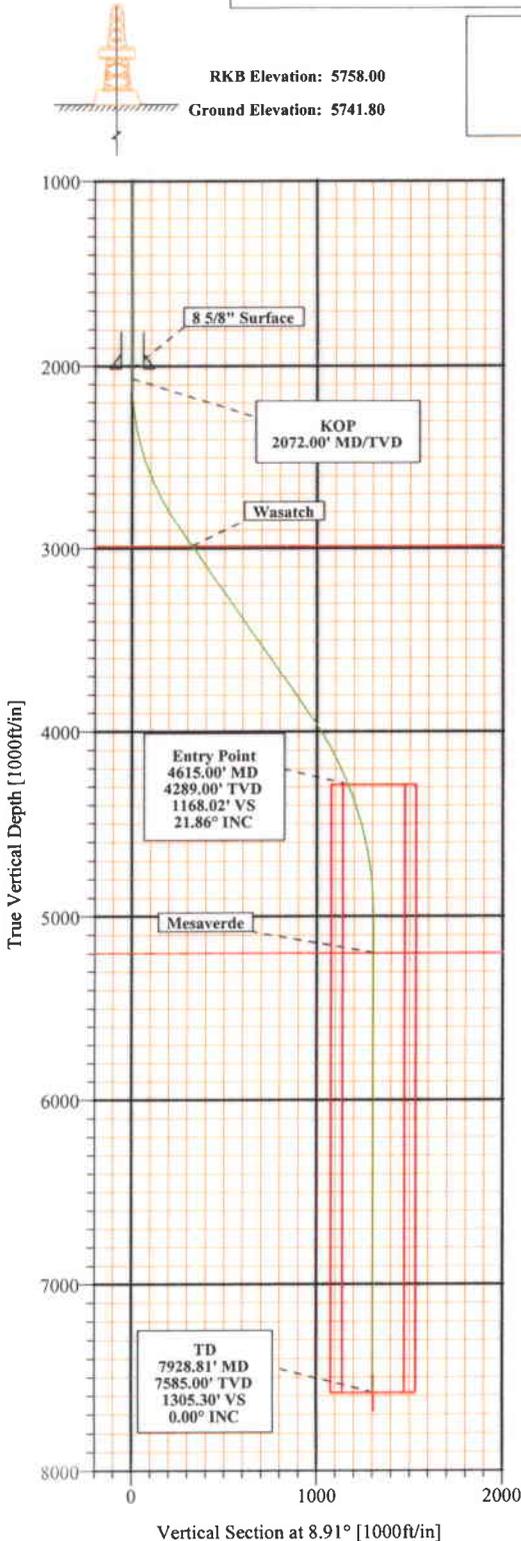
Name	TVD	+N/-S	+E/-W	Shape
12-22-11-2 Target	7585.00	1289.55	202.17	Rectangle (400x400)

**CASING DETAILS**

No.	TVD	MD	Name	Size
1	2016.00	2016.00	8 5/8" Surface	8.625

**FORMATION TOP DETAILS**

No.	TVDPath	MDPath	Formation
1	539.00	539.00	Green River
2	2989.00	3063.09	Wasatch
3	5198.00	5541.81	Mesaverde



# Weatherford International Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 3/1/2006	<b>Time:</b> 14:18:36	<b>Page:</b> 1
<b>Field:</b> Uintah, Utah	<b>Co-ordinate(NE) Reference:</b> Well: Buck Camp 12-22-11-2, True North		
<b>Site:</b> SW/NW 2-12S-22E Pad	<b>Vertical (TVD) Reference:</b> SITE 5758.0		
<b>Well:</b> Buck Camp 12-22-11-2	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,8.91Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b> Plan #1		

<b>Field:</b> Uintah, Utah Utah Central Zone U.S.A.	<b>Map Zone:</b> Utah, Central Zone
<b>Map System:</b> US State Plane Coordinate System 1983	<b>Coordinate System:</b> Well Centre
<b>Geo Datum:</b> GRS 1980	<b>Geomagnetic Model:</b> igrf2005
<b>Sys Datum:</b> Mean Sea Level	

**Site:** SW/NW 2-12S-22E Pad  
Sec. 2, T12S, R22E, Uintah County, Utah

<b>Site Position:</b>	<b>Northing:</b> 7104259.12 ft	<b>Latitude:</b> 39 48 16.230 N	
<b>From:</b> Geographic	<b>Easting:</b> 2221853.04 ft	<b>Longitude:</b> 109 25 48.580 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> True	
<b>Ground Level:</b> 5741.80 ft			

<b>Well:</b> Buck Camp 12-22-11-2	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 7104259.12 ft
+E/-W 0.00 ft	<b>Easting:</b> 2221853.04 ft
<b>Position Uncertainty:</b> 0.00 ft	<b>Latitude:</b> 39 48 16.230 N
	<b>Longitude:</b> 109 25 48.580 W

<b>Wellpath:</b> 1	<b>Drilled From:</b> Surface	<b>Tie-on Depth:</b> 0.00 ft	
<b>Current Datum:</b> SITE	<b>Height:</b> 5758.00 ft	<b>Above System Datum:</b> Mean Sea Level	
<b>Magnetic Data:</b> 3/1/2006		<b>Declination:</b> 11.69 deg	
<b>Field Strength:</b> 52814 nT		<b>Mag Dip Angle:</b> 65.86 deg	
<b>Vertical Section:</b> Depth From (TVD) ft	+N/-S ft	+E/-W ft	Direction deg
7585.00	0.00	0.00	8.91

<b>Plan:</b> Plan #1	<b>Date Composed:</b> 3/1/2006
<b>Principal:</b> Yes	<b>Version:</b> 1
	<b>Tied-to:</b> From Surface

**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	8.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2072.00	0.00	8.91	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	
2940.34	34.73	8.91	2888.13	252.16	39.53	4.00	4.00	0.00	8.91	
4186.02	34.73	8.91	3911.83	953.34	149.46	0.00	0.00	0.00	0.00	
5343.81	0.00	8.91	5000.00	1289.55	202.17	3.00	-3.00	0.00	180.00	
7928.81	0.00	8.91	7585.00	1289.55	202.17	0.00	0.00	0.00	8.91	12-22-11-2 Target

**Section 1 : Start Hold**

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	TFO deg
0.00	0.00	8.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	8.91	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	8.91
2016.00	0.00	8.91	2016.00	0.00	0.00	0.00	0.00	0.00	0.00	8.91
2072.00	0.00	8.91	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	8.91

**Section 2 : Start Build 4.00**

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	TFO deg
2100.00	1.12	8.91	2100.00	0.27	0.04	0.27	4.00	4.00	0.00	0.00
2200.00	5.12	8.91	2199.83	5.65	0.89	5.72	4.00	4.00	0.00	0.00
2300.00	9.12	8.91	2299.04	17.89	2.80	18.11	4.00	4.00	0.00	0.00
2400.00	13.12	8.91	2397.14	36.94	5.79	37.39	4.00	4.00	0.00	0.00
2500.00	17.12	8.91	2493.66	62.70	9.83	63.47	4.00	4.00	0.00	0.00
2600.00	21.12	8.91	2588.12	95.06	14.90	96.22	4.00	4.00	0.00	0.00
2700.00	25.12	8.91	2680.07	133.84	20.98	135.47	4.00	4.00	0.00	0.00
2800.00	29.12	8.91	2769.06	178.87	28.04	181.05	4.00	4.00	0.00	0.00
2900.00	33.12	8.91	2854.65	229.92	36.04	232.72	4.00	4.00	0.00	0.00

# Weatherford International Planning Report

<b>Company:</b> Enduring Resources <b>Field:</b> Uintah, Utah <b>Site:</b> SW/NW 2-12S-22E Pad <b>Well:</b> Buck Camp 12-22-11-2 <b>Wellpath:</b> 1	<b>Date:</b> 3/1/2006 <b>Co-ordinate(NE) Reference:</b> Well: Buck Camp 12-22-11-2, True North <b>Vertical (TVD) Reference:</b> SITE 5758.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,8.91Azi) <b>Plan:</b> Plan #1	<b>Time:</b> 14:18:36 <b>Page:</b> 2
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**Section 2 : Start Build 4.00**

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	TFO deg
2940.34	34.73	8.91	2888.13	252.16	39.53	255.24	4.00	4.00	0.00	0.00

**Section 3 : Start Hold**

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	TFO deg
3000.00	34.73	8.91	2937.15	285.74	44.80	289.23	0.00	0.00	0.00	180.00
3063.09	34.73	8.91	2989.00	321.25	50.36	325.18	0.00	0.00	0.00	180.00
3100.00	34.73	8.91	3019.33	342.03	53.62	346.21	0.00	0.00	0.00	180.00
3200.00	34.73	8.91	3101.51	398.32	62.45	403.18	0.00	0.00	0.00	180.00
3300.00	34.73	8.91	3183.70	454.61	71.27	460.16	0.00	0.00	0.00	180.00
3400.00	34.73	8.91	3265.88	510.90	80.10	517.14	0.00	0.00	0.00	180.00
3500.00	34.73	8.91	3348.06	567.18	88.92	574.11	0.00	0.00	0.00	180.00
3600.00	34.73	8.91	3430.24	623.47	97.74	631.09	0.00	0.00	0.00	180.00
3700.00	34.73	8.91	3512.42	679.76	106.57	688.06	0.00	0.00	0.00	180.00
3800.00	34.73	8.91	3594.60	736.05	115.39	745.04	0.00	0.00	0.00	180.00
3900.00	34.73	8.91	3676.78	792.34	124.22	802.02	0.00	0.00	0.00	180.00
4000.00	34.73	8.91	3758.96	848.63	133.04	858.99	0.00	0.00	0.00	180.00
4100.00	34.73	8.91	3841.14	904.92	141.87	915.97	0.00	0.00	0.00	180.00
4186.02	34.73	8.91	3911.83	953.34	149.46	964.98	0.00	0.00	0.00	180.00

**Section 4 : Start Drop -3.00**

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	TFO deg
4200.00	34.31	8.91	3923.35	961.16	150.69	972.90	3.00	-3.00	0.00	180.00
4300.00	31.31	8.91	4007.39	1014.70	159.08	1027.09	3.00	-3.00	0.00	180.00
4400.00	28.31	8.91	4094.14	1063.81	166.78	1076.80	3.00	-3.00	0.00	180.00
4500.00	25.31	8.91	4183.38	1108.37	173.76	1121.91	3.00	-3.00	0.00	180.00
4600.00	22.31	8.91	4274.85	1148.26	180.02	1162.28	3.00	-3.00	0.00	180.00
4615.27	21.86	8.91	4289.00	1153.93	180.91	1168.02	3.00	-3.00	0.00	180.00
4700.00	19.31	8.91	4368.32	1183.36	185.52	1197.81	3.00	-3.00	0.00	-180.00
4800.00	16.31	8.91	4463.51	1213.58	190.26	1228.40	3.00	-3.00	0.00	180.00
4900.00	13.31	8.91	4560.17	1238.83	194.22	1253.97	3.00	-3.00	0.00	-180.00
5000.00	10.31	8.91	4658.05	1259.06	197.39	1274.44	3.00	-3.00	0.00	180.00
5100.00	7.31	8.91	4756.85	1274.20	199.76	1289.76	3.00	-3.00	0.00	180.00
5200.00	4.31	8.91	4856.33	1284.20	201.33	1299.89	3.00	-3.00	0.00	180.00
5300.00	1.31	8.91	4956.20	1289.05	202.09	1304.80	3.00	-3.00	0.00	180.00
5343.81	0.00	8.91	5000.00	1289.55	202.17	1305.30	3.00	-3.00	0.00	-180.00

**Section 5 : Start Hold**

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	TFO deg
5400.00	0.00	8.91	5056.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
5500.00	0.00	8.91	5156.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
5541.81	0.00	8.91	5198.00	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
5600.00	0.00	8.91	5256.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
5700.00	0.00	8.91	5356.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
5800.00	0.00	8.91	5456.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
5900.00	0.00	8.91	5556.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6000.00	0.00	8.91	5656.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6100.00	0.00	8.91	5756.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6200.00	0.00	8.91	5856.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6300.00	0.00	8.91	5956.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6400.00	0.00	8.91	6056.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6500.00	0.00	8.91	6156.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6600.00	0.00	8.91	6256.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6700.00	0.00	8.91	6356.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6800.00	0.00	8.91	6456.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
6900.00	0.00	8.91	6556.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7000.00	0.00	8.91	6656.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7100.00	0.00	8.91	6756.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7200.00	0.00	8.91	6856.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91

# Weatherford International Planning Report

<b>Company:</b> Enduring Resources <b>Field:</b> Uintah, Utah <b>Site:</b> SW/NW 2-12S-22E Pad <b>Well:</b> Buck Camp 12-22-11-2 <b>Wellpath:</b> 1	<b>Date:</b> 3/1/2006 <b>Time:</b> 14:18:36 <b>Page:</b> 3 <b>Co-ordinate(NE) Reference:</b> Well: Buck Camp 12-22-11-2, True North <b>Vertical (TVD) Reference:</b> SITE 5758.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,8.91Azi) <b>Plan:</b> Plan #1
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**Section 5 : Start Hold**

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	TFO deg
7300.00	0.00	8.91	6956.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7400.00	0.00	8.91	7056.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7500.00	0.00	8.91	7156.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7600.00	0.00	8.91	7256.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7700.00	0.00	8.91	7356.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7800.00	0.00	8.91	7456.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7900.00	0.00	8.91	7556.19	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91
7928.81	0.00	8.91	7585.00	1289.55	202.17	1305.30	0.00	0.00	0.00	8.91

**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	Tool/Comment
2000.00	0.00	8.91	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
2016.00	0.00	8.91	2016.00	0.00	0.00	0.00	0.00	0.00	0.00	8 5/8" Surface
2072.00	0.00	8.91	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
2100.00	1.12	8.91	2100.00	0.27	0.04	0.27	4.00	4.00	0.00	MWD
2200.00	5.12	8.91	2199.83	5.65	0.89	5.72	4.00	4.00	0.00	MWD
2300.00	9.12	8.91	2299.04	17.89	2.80	18.11	4.00	4.00	0.00	MWD
2400.00	13.12	8.91	2397.14	36.94	5.79	37.39	4.00	4.00	0.00	MWD
2500.00	17.12	8.91	2493.66	62.70	9.83	63.47	4.00	4.00	0.00	MWD
2600.00	21.12	8.91	2588.12	95.06	14.90	96.22	4.00	4.00	0.00	MWD
2700.00	25.12	8.91	2680.07	133.84	20.98	135.47	4.00	4.00	0.00	MWD
2800.00	29.12	8.91	2769.06	178.87	28.04	181.05	4.00	4.00	0.00	MWD
2900.00	33.12	8.91	2854.65	229.92	36.04	232.72	4.00	4.00	0.00	MWD
2940.34	34.73	8.91	2888.13	252.16	39.53	255.24	4.00	4.00	0.00	End Build
3000.00	34.73	8.91	2937.15	285.74	44.80	289.23	0.00	0.00	0.00	MWD
3063.09	34.73	8.91	2989.00	321.25	50.36	325.18	0.00	0.00	0.00	Wasatch
3100.00	34.73	8.91	3019.33	342.03	53.62	346.21	0.00	0.00	0.00	MWD
3200.00	34.73	8.91	3101.51	398.32	62.45	403.18	0.00	0.00	0.00	MWD
3300.00	34.73	8.91	3183.70	454.61	71.27	460.16	0.00	0.00	0.00	MWD
3400.00	34.73	8.91	3265.88	510.90	80.10	517.14	0.00	0.00	0.00	MWD
3500.00	34.73	8.91	3348.06	567.18	88.92	574.11	0.00	0.00	0.00	MWD
3600.00	34.73	8.91	3430.24	623.47	97.74	631.09	0.00	0.00	0.00	MWD
3700.00	34.73	8.91	3512.42	679.76	106.57	688.06	0.00	0.00	0.00	MWD
3800.00	34.73	8.91	3594.60	736.05	115.39	745.04	0.00	0.00	0.00	MWD
3900.00	34.73	8.91	3676.78	792.34	124.22	802.02	0.00	0.00	0.00	MWD
4000.00	34.73	8.91	3758.96	848.63	133.04	858.99	0.00	0.00	0.00	MWD
4100.00	34.73	8.91	3841.14	904.92	141.87	915.97	0.00	0.00	0.00	MWD
4186.02	34.73	8.91	3911.83	953.34	149.46	964.98	0.00	0.00	0.00	Start Drop
4200.00	34.31	8.91	3923.35	961.16	150.69	972.90	3.00	-3.00	0.00	MWD
4300.00	31.31	8.91	4007.39	1014.70	159.08	1027.09	3.00	-3.00	0.00	MWD
4400.00	28.31	8.91	4094.14	1063.81	166.78	1076.80	3.00	-3.00	0.00	MWD
4500.00	25.31	8.91	4183.38	1108.37	173.76	1121.91	3.00	-3.00	0.00	MWD
4600.00	22.31	8.91	4274.85	1148.26	180.02	1162.28	3.00	-3.00	0.00	MWD
4615.27	21.86	8.91	4289.00	1153.93	180.91	1168.02	3.00	-3.00	0.00	Entry Point
4700.00	19.31	8.91	4368.32	1183.36	185.52	1197.81	3.00	-3.00	0.00	MWD
4800.00	16.31	8.91	4463.51	1213.58	190.26	1228.40	3.00	-3.00	0.00	MWD
4900.00	13.31	8.91	4560.17	1238.83	194.22	1253.97	3.00	-3.00	0.00	MWD
5000.00	10.31	8.91	4658.05	1259.06	197.39	1274.44	3.00	-3.00	0.00	MWD
5100.00	7.31	8.91	4756.85	1274.20	199.76	1289.76	3.00	-3.00	0.00	MWD
5200.00	4.31	8.91	4856.33	1284.20	201.33	1299.89	3.00	-3.00	0.00	MWD
5300.00	1.31	8.91	4956.20	1289.05	202.09	1304.80	3.00	-3.00	0.00	MWD
5343.81	0.00	8.91	5000.00	1289.55	202.17	1305.30	3.00	-3.00	0.00	Start Hold
5400.00	0.00	8.91	5056.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
5500.00	0.00	8.91	5156.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD

# Weatherford International Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 3/1/2006	<b>Time:</b> 14:18:36	<b>Page:</b> 4
<b>Field:</b> Uintah, Utah	<b>Co-ordinate(NE) Reference:</b> Well: Buck Camp 12-22-11-2, True North		
<b>Site:</b> SW/NW 2-12S-22E Pad	<b>Vertical (TVD) Reference:</b> SITE 5758.0		
<b>Well:</b> Buck Camp 12-22-11-2	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,8.91Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b> Plan #1		

### 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	Tool/Comment
5541.81	0.00	8.91	5198.00	1289.55	202.17	1305.30	0.00	0.00	0.00	Mesaverde
5600.00	0.00	8.91	5256.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
5700.00	0.00	8.91	5356.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
5800.00	0.00	8.91	5456.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
5900.00	0.00	8.91	5556.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6000.00	0.00	8.91	5656.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6100.00	0.00	8.91	5756.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6200.00	0.00	8.91	5856.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6300.00	0.00	8.91	5956.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6400.00	0.00	8.91	6056.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6500.00	0.00	8.91	6156.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6600.00	0.00	8.91	6256.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6700.00	0.00	8.91	6356.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6800.00	0.00	8.91	6456.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
6900.00	0.00	8.91	6556.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7000.00	0.00	8.91	6656.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7100.00	0.00	8.91	6756.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7200.00	0.00	8.91	6856.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7300.00	0.00	8.91	6956.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7400.00	0.00	8.91	7056.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7500.00	0.00	8.91	7156.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7600.00	0.00	8.91	7256.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7700.00	0.00	8.91	7356.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7800.00	0.00	8.91	7456.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7900.00	0.00	8.91	7556.19	1289.55	202.17	1305.30	0.00	0.00	0.00	MWD
7928.81	0.00	8.91	7585.00	1289.55	202.17	1305.30	0.00	0.00	0.00	TD

### Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →		← Longitude →					
								Deg	Min	Sec	Deg	Min	Sec		
12-22-11-2 Target	-Rectangle (400x400)		7585.00	1289.55	202.17	7105553.00	2222025.32	39	48	28.975	N	109	25	45.989	W
	-Plan hit target														

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2016.00	2016.00	8.625	12.250	8 5/8" Surface

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
539.00	539.00	Green River		0.00	0.00
3063.09	2989.00	Wasatch		0.00	0.00
5541.81	5198.00	Mesaverde		0.00	0.00

### Annotation

MD ft	TVD ft	
2072.00	2072.00	SHL (1949 FNL & 453 FWL)
2940.34	2888.13	KOP
4186.02	3911.83	End Build
		Start Drop

# Weatherford International Planning Report

**Company:** Enduring Resources  
**Field:** Uintah, Utah  
**Site:** SW/NW 2-12S-22E Pad  
**Well:** Buck Camp 12-22-11-2  
**Wellpath:** 1

**Date:** 3/1/2006      **Time:** 14:18:36      **Page:** 5  
**Co-ordinate(NE) Reference:** Well: Buck Camp 12-22-11-2, True North  
**Vertical (TVD) Reference:** SITE 5758.0  
**Section (VS) Reference:** Well (0.00N,0.00E,8.91Azi)  
**Plan:** Plan #1

## Annotation

MD ft	TVD ft	
4615.27	4289.00	Entry Point
5343.81	5000.00	Start Hold
7928.81	7585.00	PBHL (660 FNL & 660 FWL)
7928.81	7585.00	TD

ENDURING RESOURCES, LLC.  
BUCK CAMP #12-22-12-2 & 12-22-11-2  
SECTION 2, T12S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 11.2 MILES ALONG THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY, THEN SOUTHEASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 7.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY, THEN SOUTHEASTERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 70.7 MILES.

**ENDURING RESOURCES, LLC.**  
**BUCK CAMP #12-22-12-2 & #12-22-11-2**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 2, T12S, R22E, S.L.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

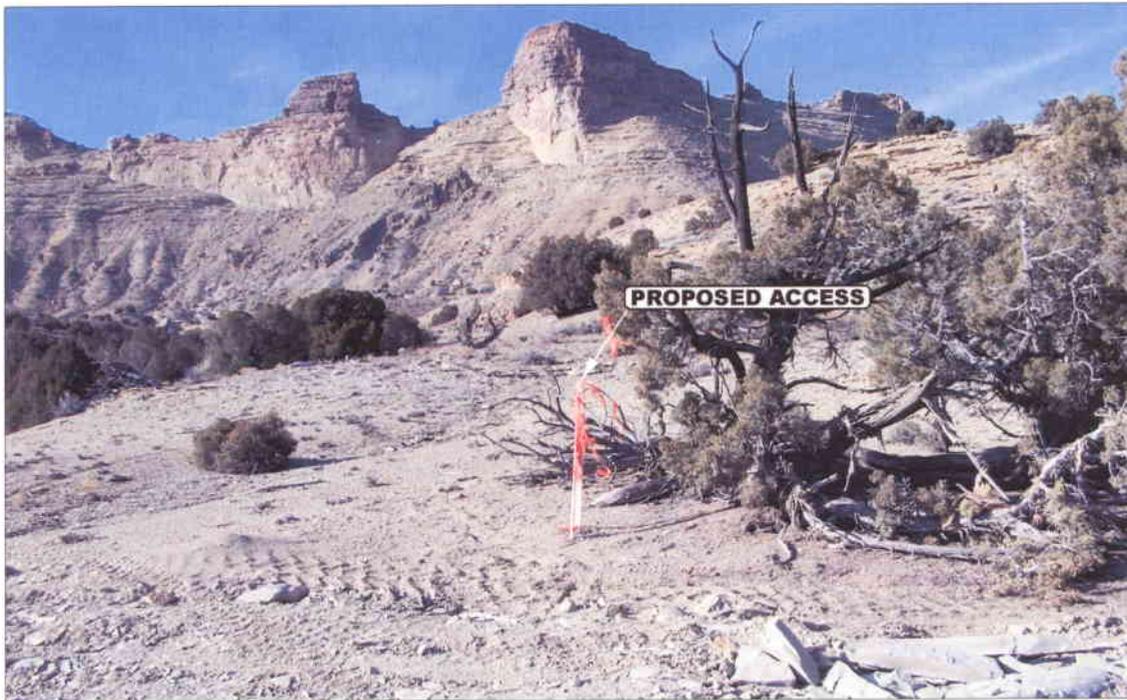


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>			<b>01</b>	<b>04</b>	<b>06</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: B.H.		DRAWN BY: C.H.		REVISED: 00-00-00		

ENDURING RESOURCES, LLC.

FIGURE #1

LOCATION LAYOUT FOR

BUCK CAMP #12-22-12-2 & #12-22-11-2  
SECTION 2, T12S, R22E, S.L.B.&M.

Proposed Access Road

F-4.4'  
El. 34.8'  
Sta. 3+70

C-30.9' SW 1/4 NW 1/4  
El. 70.1'

C-13.8'  
El. 53.0'

SCALE: 1" = 50'  
DATE: 01-30-06  
Drawn By: L.K.

Approx. Top of Cut Slope

Pit Topsoil

NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

FLARE PIT

20' WIDE BENCH  
35'

El. 59.3'  
C-32.1'  
(btm. pit)

C-13.1'  
El. 52.3'

C-5.4'  
El. 44.6'

WELL #11-2

F-4.0'  
El. 35.2'

F-5.3'  
El. 33.9'

Sta. 1+65

Reserve Pit Backfill & Spoils Stockpile

15' WIDE BENCH

Total Pit Capacity  
W/2 of Freeboard  
= 14,950 Bbls ±  
Total Pit Volume  
= 4,030 Cu. Yrds

RESERVE PITS  
(12' Deep)

SLOPE = 1-1/2 : 1

MUD TANKS

DOG HOUSE

WELL #12-2

C-6.3'  
El. 45.5'

C-4.0'  
El. 43.2'

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

TRAILER

TOILET

FUEL

Topsoil Stockpile

El. 50.8'  
C-23.6'  
(btm. pit)

20' WIDE BENCH

Sta. 0+43

F-0.9'  
El. 38.3'

TRASH

F-21.6'  
El. 17.6'

STORAGE TANK

Sta. 0+00

F-0.7'  
El. 38.5'

F-2.3'  
El. 36.9'

Existing Drainage

NOTES:

Elev. Ungraded Ground At #2-12 Loc. Stake = 5743.2'

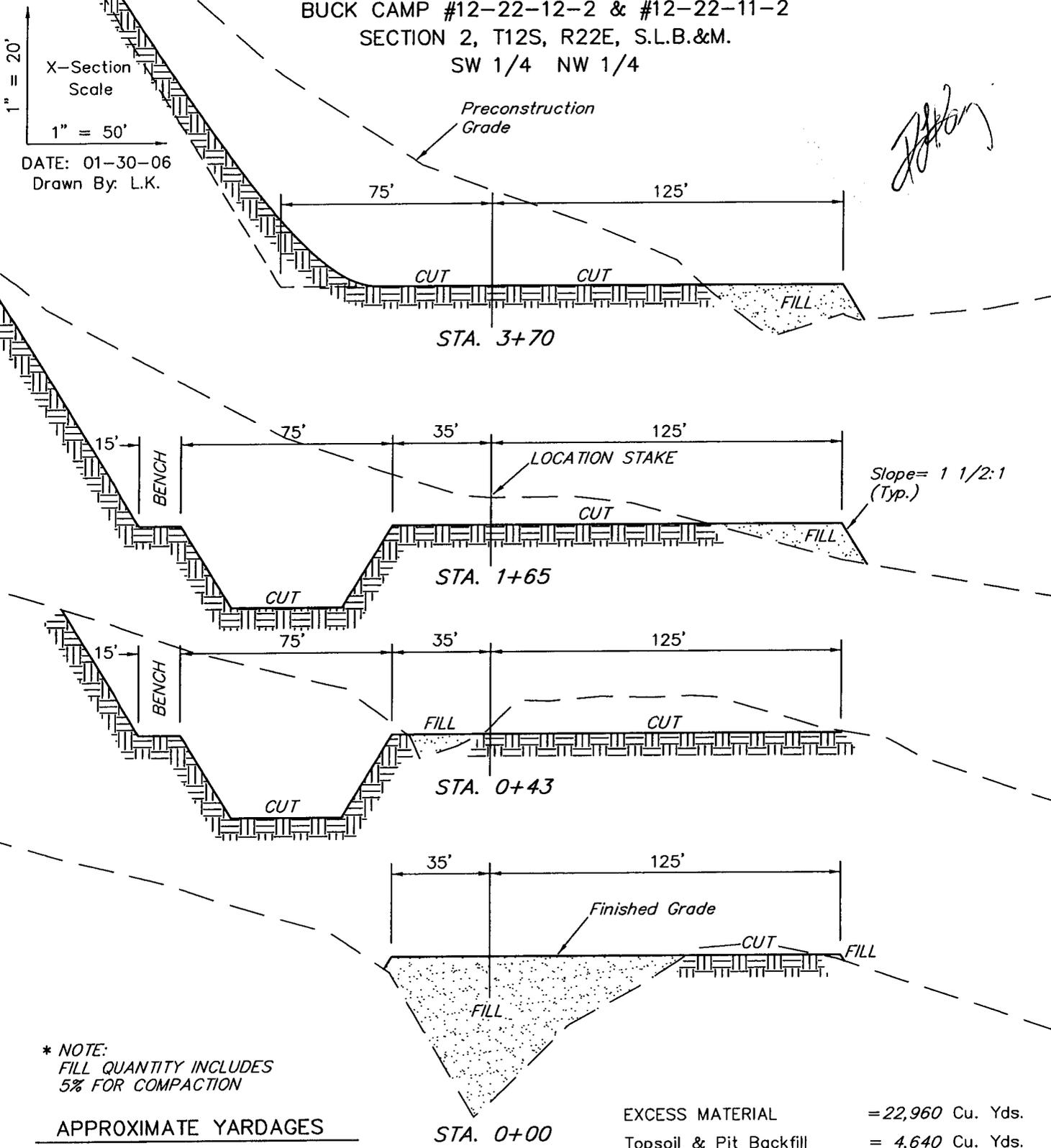
FINISHED GRADE ELEV. AT #2-12 LOC. STAKE = 5739.2'

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

ENDURING RESOURCES, LLC.

FIGURE #2

TYPICAL CROSS SECTIONS FOR  
 BUCK CAMP #12-22-12-2 & #12-22-11-2  
 SECTION 2, T12S, R22E, S.L.B.&M.  
 SW 1/4 NW 1/4



DATE: 01-30-06  
 Drawn By: L.K.

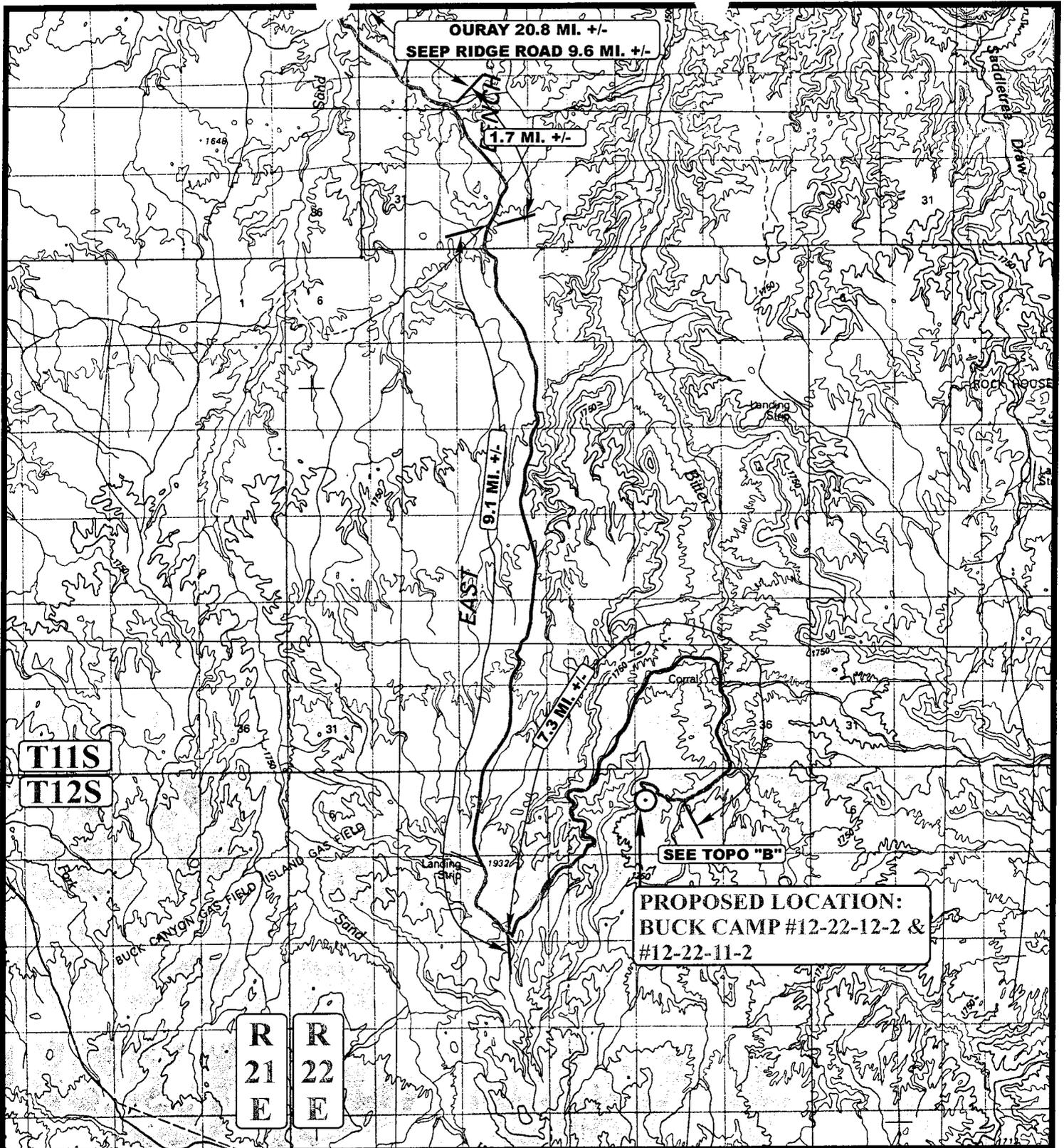
*[Handwritten signature]*

\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT		
(6") Topsoil Stripping	=	2,620 Cu. Yds.
Remaining Location	=	35,870 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>38,490 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>15,530 CU.YDS.</b>

EXCESS MATERIAL	=	22,960 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	4,640 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	18,320 Cu. Yds.



**LEGEND:**

○ PROPOSED LOCATION



**ENDURING RESOURCES, LLC.**

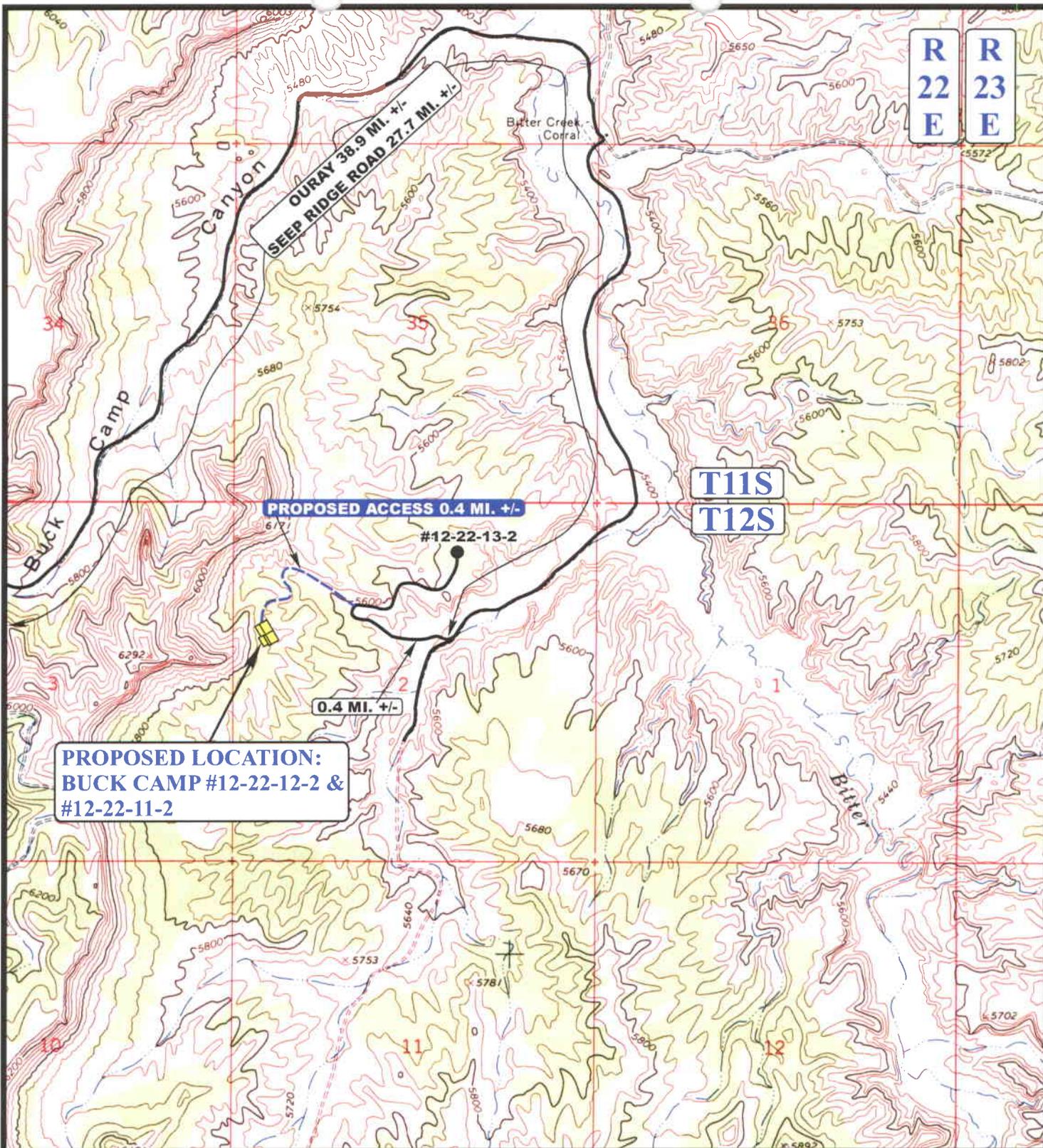
BUCK CAMP #12-22-12-2 & #12-22-11-2  
 SECTION 2, T12S, R22E, S.L.B.&M.  
 SW 1/4 NW 1/4



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC MAP 010406  
 MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: C.H. REVISED: 02-13-06





**PROPOSED LOCATION:  
BUCK CAMP #12-22-12-2 &  
#12-22-11-2**

**PROPOSED ACCESS 0.4 MI. +/-**

**0.4 MI. +/-**

**#12-22-13-2**

**T11S  
T12S**

**R 22 E  
R 23 E**

**LEGEND:**

- EXISTING ROAD
- PROPOSED ROAD

**ENDURING RESOURCES, LLC.**

**BUCK CAMP #12-22-12-2 & #12-22-11-2  
SECTION 2, T12S, R22E, S.L.B.&M.  
SW 1/4 NW 1/4**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

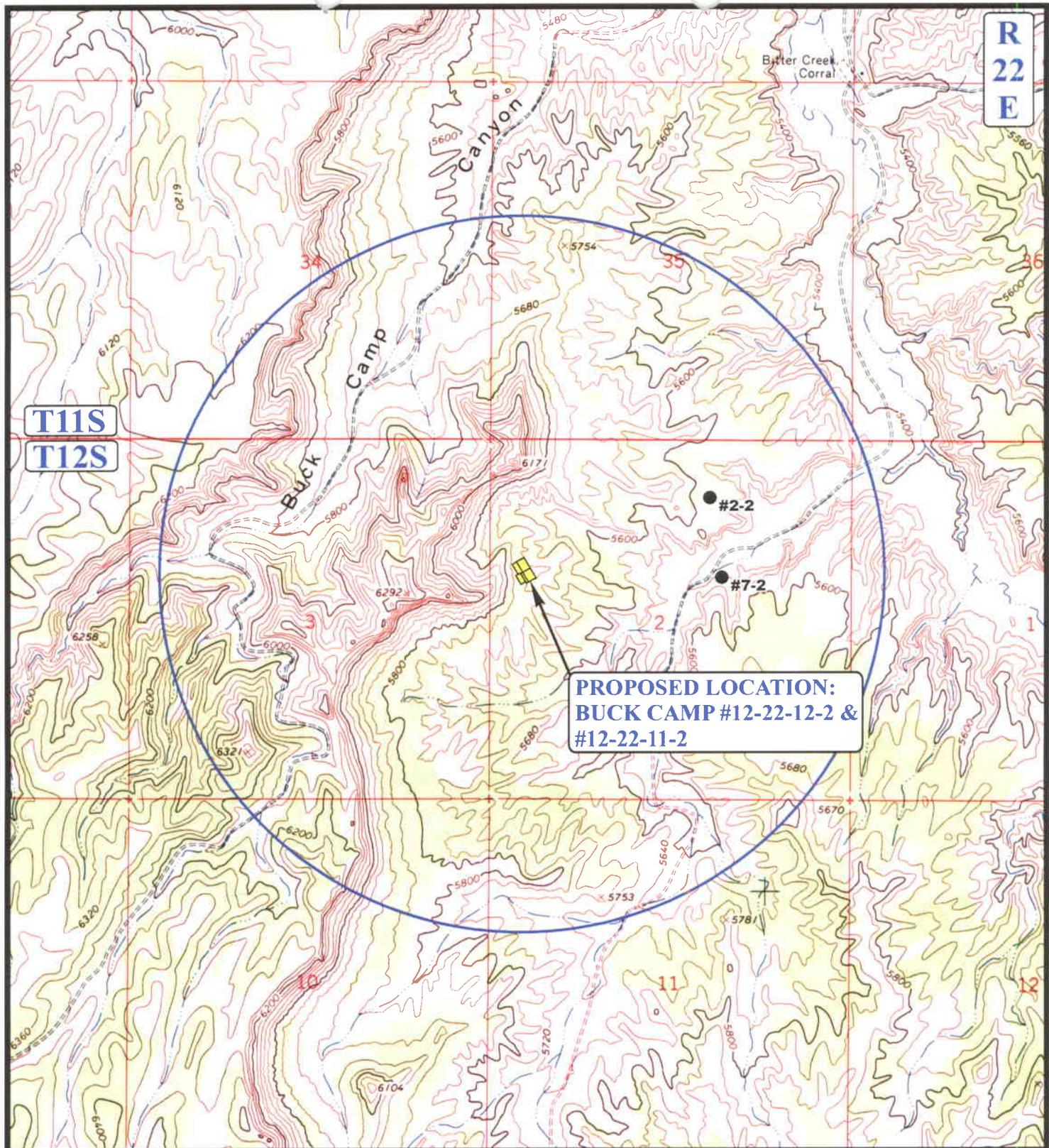
**01 04 06**  
MONTH DAY YEAR



SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 02-13-06

R  
22  
E

T11S  
T12S



**PROPOSED LOCATION:  
BUCK CAMP #12-22-12-2 &  
#12-22-11-2**

**LEGEND:**

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

**ENDURING RESOURCES, LLC.**

**BUCK CAMP #12-22-12-2 & #12-22-11-2  
SECTION 2, T12S, R22E, S.L.B.&M.  
SW 1/4 NW 1/4**



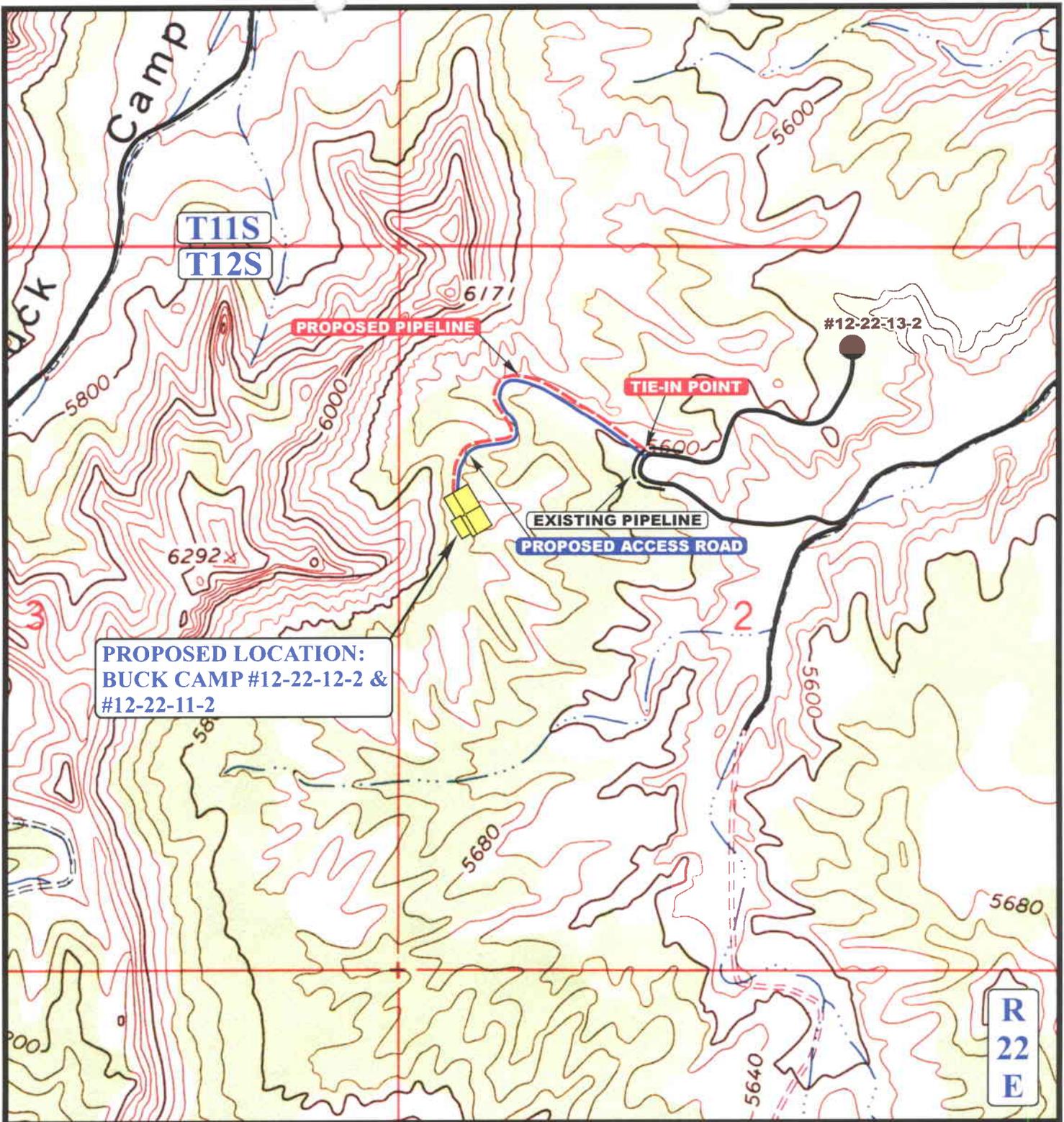
Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**01 04 06**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 02-13-06





**PROPOSED LOCATION:  
BUCK CAMP #12-22-12-2 &  
#12-22-11-2**

**APPROXIMATE TOTAL PIPELINE DISTANCE = 2320' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE

N



**ENDURING RESOURCES, LLC.**

**BUCK CAMP #12-22-12-2 & #12-22-11-2  
SECTION 2, T12S, R22E, S.L.B.&M.  
SW 1/4 NW 1/4**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

<b>01</b>	<b>04</b>	<b>06</b>
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: C.H. REVISED: 02-13-06

**R  
22  
E**



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/09/2006

API NO. ASSIGNED: 43-047-37892

WELL NAME: BUCK CAMP 12-22-11-2  
 OPERATOR: ENDURING RESOURCES, LLC ( N2750 )  
 CONTACT: ALVIN ARLIAN

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

SWNW 02 120S 220E  
 SURFACE: 1944 FNL 0462 FWL  
 BOTTOM: 0660 FNL 0660 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.80456 LONGITUDE: -109.4295  
 UTM SURF EASTINGS: 634447 NORTHINGS: 4407036  
 FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DLD	4/25/06
Geology		
Surface		

NW  
NW

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-47087  
 SURFACE OWNER: 1 - ~~Federal~~ 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. 43-8496 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

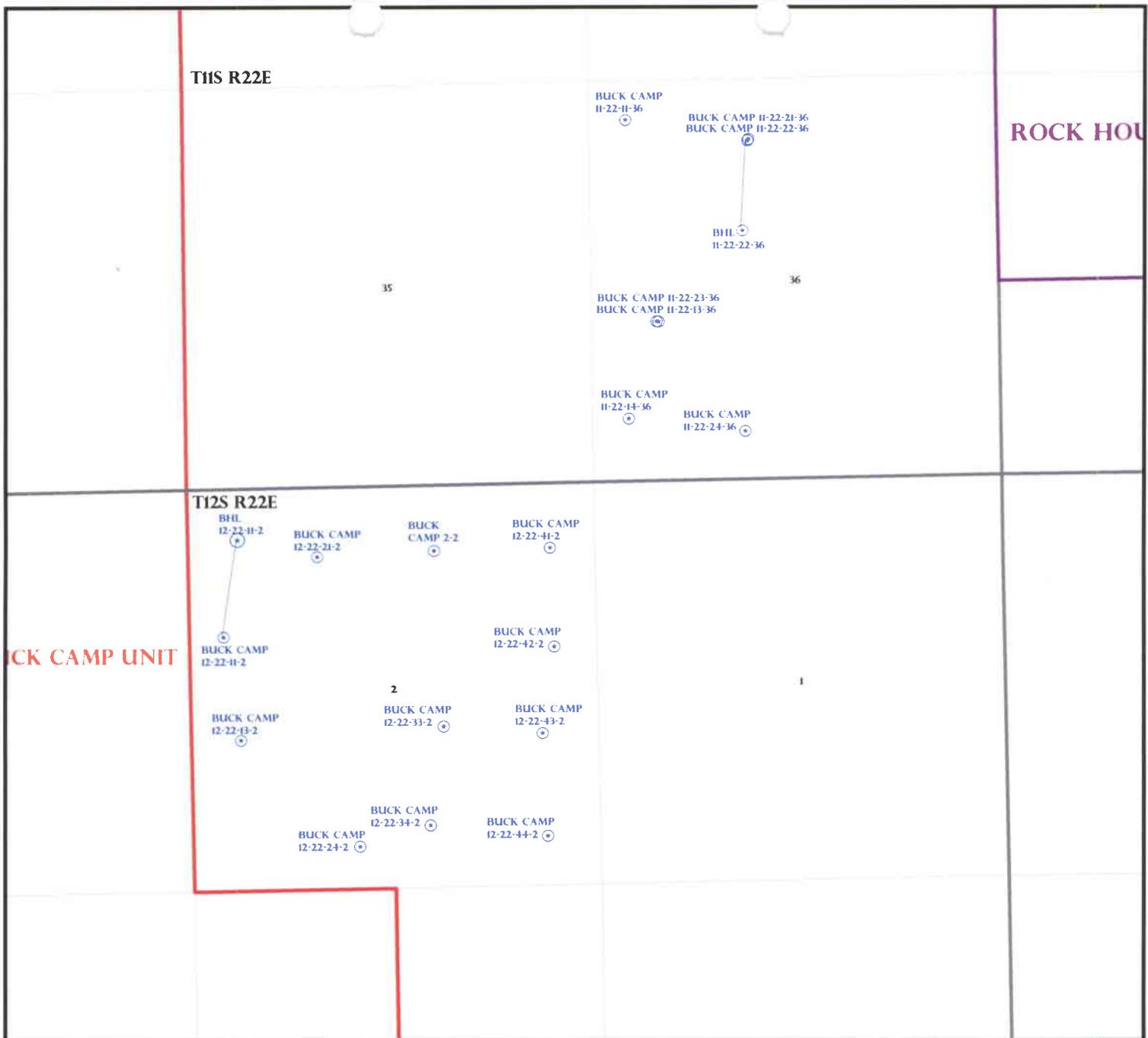
- R649-2-3.
- Unit: \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS:

Needs Permit (04-05-06)

STIPULATIONS:

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



OPERATOR: ENDURING RES LLC (N2750)

SEC: 2 T. 12S R. 22E

FIELD: UNDESIGNATED (002)

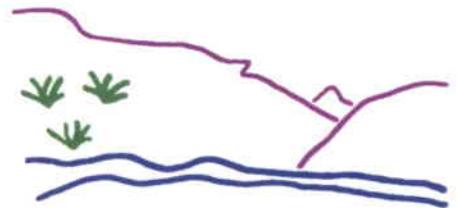
COUNTY: UINTAH

SPACING: R649-3-11 / DIRECTIONAL DRILLING

- 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: 20-MARCH-2006

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

**OPERATOR:** ENDURING RESOURCES, LLC  
**WELL NAME & NUMBER:** Buck Camp 12-22-11D-2 (Note: This well is a directional well occupying the same pad as the Buck Camp 12-22-12-2 which will be a vertical well.)  
**API NUMBER:** 43-047-37892  
**LOCATION:** 1/4,1/4 SW/NW Sec: 2 TWP: 12S RNG: 22E 1944' FNL 462' FWL

**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 proposed location. The well is approximately 1 mile from the proposed location. The well is owned by the BLM and no depth is listed. 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. The proposed surface casing should adequately protect any potentially useable aquifers.

**Reviewer:** Brad Hill **Date:** 04-17-06

**Surface:**

The pre-drill investigation of the surface was performed on 04/05/2006. The State of Utah (SITLA) owns both the surface and the minerals of this location. Mr. Ed Bonner and Jim Davis of SITLA and Ben Williams of the Utah Division of Wildlife Resources were invited to the pre-site. Mr. Davis and Mr. Williams both attended. Two wells are planned at this location. This well will be a directional well and the Buck Camp 12-22-12-2 is a vertical well. Approximately 0.4 mile of new access road will be constructed to reach the location leading off an access road, which is planned for other wells in the area. The proposed location lies in the head of a steep draw, which will be filled by the construction of the location. Other smaller draws sloping to the north will also be filled. The terrain to the north is steep while the south end of the pad extends onto a flat. West of the location are the high Bitter Creek Canyon slopes topped by ledges which on top extend to the East Bench area. Ben Williams representing the UDWR stated the area is classified as high value winter habitat for deer and substantial value winter elk habitat. He explained how the areas are classified and recommended to Mr. Hammond and Mr. Davis that activity be limited from Nov. 15 thru March 15 to protect wintering values for deer. He furnished a copy of his recommendations to SITLA and Mr. Hammond along with a recommended seed mix to be used to re-vegetate the area. The selected location appears to be the best site for constructing a pad and drilling and operating a well in the immediate area. No significant stability problems are anticipated.

**Reviewer:** Floyd Bartlett **Date:** 04/06/2006

**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:** Buck Camp 12-22-11D-2 (Note: This well is a directional well occupying the same pad as the Buck Camp 12-22-12-2 which will be a vertical well.)

**API NUMBER:** 43-047-37892

**LEASE:** ML-47087      **FIELD/UNIT:** Undesignated

**LOCATION:** 1/4,1/4 SW/NW Sec: 2 TWP: 12S RNG: 22E 1944' FNL 462 FWL

**LEGAL WELL SITING:** 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.

**GPS COORD (UTM):** 634447 E 4407036 N      **SURFACE OWNER:** State of Utah-SITLA

**PARTICIPANTS**

Floyd Bartlett (DOGM), Douglas Hammond (Enduring Resources), Larry Rowell and Mike Stewart (Ponderosa Construction), Brandon Bowthorpe and Matt Cook (Uintah Engineering and Land Surveying), Jim Davis (SITLA), Ben Williams (Utah Division of Wildlife Resources,

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

The proposed Buck Camp 12-22-11D-2 well lies in the head of a steep draw, which will be filled by the construction of the location. Other smaller draws sloping to the north will also be filled. The terrain to the north is steep while the south end of the pad extends onto a flat. West of the location is the high Bitter Creek Canyon slopes topped by ledges which on top extend to the East Bench area.

The bottom of a fork of Bitter Creek is approximately 1/2 mile to the west of the proposed location. This portion of Bitter Creek is an ephemeral drainage only flowing during spring runoff and intense summer rainstorms. The White River is approximately 10 miles downstream to the north.

The location is approximately 22 miles south west of Bonanza Ut, and approximately 70 miles southwest of Vernal, UT. Access from Ouray, UT is by State Highway then Uintah County roads 38 miles to the Biter Creek Corrals. Then following a oil field development road south about 1 mile up the bottom of Bitter Creek, then extending to the southwest up a fork of Bitter Creek about 1/2 mile where a road is planned to the BC 12-22-13-2 well. This road will be followed about 0.4 miles and a road will be constructed 0.4 miles to this location.

Topography in the general area is broad canyon bottoms separated by steep and often ledgy side-slopes, which top out onto broad ridge tops. Frequent outwash plains and deposits occur along the sides of the major bottoms. Bitter Creek is a broad somewhat gentle alluvial wash, which is dry except for spring runoff and sometimes-intense summer rainstorms.

**SURFACE USE PLAN**

**CURRENT SURFACE USE:** wildlife and domestic sheep grazing and hunting.

PROPOSED SURFACE DISTURBANCE: Approximately 0.4 miles of new access road and construction of a well location 370'x 200' plus a reserve pit and soil stockpile storage outside the described area.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: Several wells are planned or are being drilled within this radius. See attached map from GIS database.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: All production facilities will be on location and added after drilling well. Approximately 2320 feet of pipeline will be laid overland along the side of the access road to a tie in point.

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 activity is common in the area.

#### **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 pinion-juniper site with some heavily grazed bud sage, mahogany and squaw bush. Pronghorn, rodents, songbirds, raptors, elk, deer, bobcat, coyote, heavy winter sheep grazing..

SOIL TYPE AND CHARACTERISTICS: Shallow shaley loam with some surface bedrock outcrops.

EROSION/SEDIMENTATION/STABILITY: Light natural erosion is occurring on the site. The heads of 4 small drainages begin on the north portion of the proposed location and will be covered with fill. No stability problems are anticipated with the construction and operation of the location.

PALEONTOLOGICAL POTENTIAL: None observed.

#### **RESERVE PIT**

CHARACTERISTICS: 175' by 75' and 12' deep. The reserve pit is planned in an area of cut on the south west 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 40 and a rating Level II.

**SURFACE RESTORATION/RECLAMATION PLAN**

As per landowner agreement with SITLA.

SURFACE AGREEMENT: SITLA

CULTURAL RESOURCES/ARCHAEOLOGY: A survey will be completed and forwarded to SITLA.

**OTHER OBSERVATIONS/COMMENTS**

Two wells are planned at this location. This well will be a directional well and the Buck Camp 12-22-12-2 is a vertical well.

Ben Williams representing the UDWR stated the area is classified as high value winter habitat for deer and substantial value winter elk habitat. He explained how the areas are classified and recommended to Mr. Hammond they limit their activity from Nov. 15 thru March 15 to protect wintering values for deer. This activity would include road and pad construction, drilling and work-over rigs.

Jim Davis of SITLA had no concerns regarding the access to and the drilling of wells at this location.

This pre-drill investigation was conducted on a cold very windy day. Four wheeled ATV's were used to access the site.

**ATTACHMENTS**

Photos of site have been taken and placed on file.

Floyd Bartlett  
DOGM REPRESENTATIVE

04/05/2005 12:15 PM  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Scale  
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>20</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**      40      (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.

# J4-06 Enduring Buck Camp 1 - 22-11-2

## Casing Schematic

Surface

8-5/8"  
MW 8.4  
Frac 19.3

4-1/2"  
MW 9.8

TOC @  
0.

539 Green River

M85 TOC Tail

TOC @  
1696.

Surface  
2000. MD  
2000. TVD

2651 TOC Tail

2984 Wasatch

3500 Bmsw

5198 Mesaverde

Production  
7928. MD  
7584. TVD

✓ w/ 4% washout  
\* Surface stop

✓ w/ 6% washout

BHP  
 $(.052)(95)(7584) = 3664$   
Anticipate 3928

Gw  
 $(.12)(7584) = 910$   
MASP = 3018

fluid  
 $(.22)(7584) = 1668$   
MASP = 2240

BOPE - 3,000 ✓

Surf Csg - 2950  
90% = 2065

Max pressure @ Surf Csg shot = 2700

Test to 2065 ✓  
(± 1200 psi surface press)

✓ Adequate DWD 4/25/16

Well name:	<b>04-06 Enduring Buck Camp 12-22-11-2</b>	
Operator:	<b>Enduring Resources LLC</b>	Project ID:
String type:	Surface	43-047-37892
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: 65 °F  
 Bottom hole temperature: 93 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 250 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: 7,166 ft  
 Next mud weight: 9.800 ppg  
 Next setting BHP: 3,648 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: 810-359-3940

Date: April 18, 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:	<b>04-06 Enduring Buck Camp 12-22-11-2</b>	
Operator:	<b>Enduring Resources LLC</b>	Project ID:
String type:	Production	43-047-37892
Location:	Uintah County	

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 663 psi  
 Internal gradient: 0.422 psi/ft  
 Calculated BHP: 3,861 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**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: 6,817 ft

**Environment:**

H2S considered? No  
 Surface temperature: 65 °F  
 Bottom hole temperature: 171 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: 1,696 ft

**Directional well information:**

Kick-off point: 0 ft  
 Departure at shoe: 1305 ft  
 Maximum dogleg: 4 °/100ft  
 Inclination at shoe: 0 °

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	7928	4.5	11.60	N-80	LT&C	7584	7928	3.875	183.8
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	3861	6350	1.645	3861	7780	2.01	75	223	2.97 J

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

Phone: 801-538-5280  
 FAX: 810-359-3940

Date: April 18, 2006  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 7584 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.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

**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: ML-47087	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: Buck Camp 12-22-11-2	
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: 1,944' FNL - 462' FWL SWNW AT PROPOSED PRODUCING ZONE: 660' FNL - 660' FWL NWNW			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 12S 22E S	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 70.7 miles from Vernal, Utah			12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 660' BHL - (Surface is 462' from another lease)	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) 1299' BHL (surface is 25')	19. PROPOSED DEPTH: 7,585	20. BOND DESCRIPTION: RLB0008031		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5758' KB-RT	22. APPROXIMATE DATE WORK WILL START: 6/1/2006	23. ESTIMATED DURATION: 20 days		

**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#	7,585	Class G	78 sxs	3.3	11.0
			50/50 Poz Class G	912 sxs	1.56	14.3

**ATTACHMENTS**

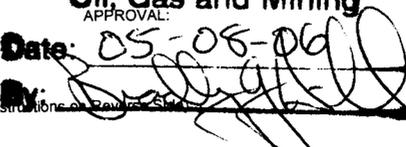
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <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. (Al) Arlian TITLE Landman - Regulatory Specialist  
SIGNATURE  DATE 3/6/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-047-37842

**Approved by the  
Utah Division of  
Oil, Gas and Mining**  
APPROVAL:  
Date: 05-08-06  


**RECEIVED  
MAR 21 2006**

DIV. OF OIL, GAS & MINING

**From:** Ed Bonner  
**To:** Whitney, Diana  
**Date:** 5/8/2006 12:36:16 PM  
**Subject:** Well Clearance

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

Enduring Resources, LLC

Buck Camp 11-22-13-36  
Buck Camp 11-22-14-36  
Buck Camp 11-22-21-36  
Buck Camp 11-22-22-36  
Buck Camp 11-22-23-36  
Buck Camp 11-22-24-36  
Buck Camp 12-22-11-2  
Buck Camp 12-22-13-2  
Buck Camp 12-22-21-2  
Buck Camp 12-22-24-2  
Buck Camp 12-22-34-2  
Buck Camp 12-22-41-2 (1 significant site which must be avoided)  
Buck Camp 12-22-42-2  
Buck Camp 12-22-43-2  
Buck Camp 12-22-44-2

Kerr McGee Oil & Gas Onshore LP

NBU 922-32E  
NBU 922-32H  
NBU 922-32D  
NBU 922-32J3  
NBU 922-32O2  
NBU 922-32J1

Westport Oil & Gas Company

NBU 922-32N

Tidewater Oil & Gas Company

Tidewater State 23-1  
Tidewater State 23-2 (1 significant site which must be avoided)  
Tidewater State 23-5  
Tidewater State 32-3

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*

May 8, 2006

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

Re: Buck Camp 12-22-11-2 Well, 1944' FNL, 462' FWL, SW NW, Sec. 2  
T. 12 South, R. 22 East, Bottom Location 660' FNL, 660' FWL, NW NW,  
Sec. 2, T. 12 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 43-047-37892.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA

**Operator:** Enduring Resources, LLC  
**Well Name & Number** Buck Camp 12-22-11-2  
**API Number:** 43-047-37892  
**Lease:** ML-47087

**Location:** SW NW **Sec. 2** T. 12 South **R. 22 East**  
**Bottom Location:** NW NW **Sec. 2** T. 12 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

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. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
5. 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.
6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

7. 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.
8. Surface casing shall be cemented to surface.

CONFIDENTIAL

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML-47087

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

n/a

7. UNIT or CA AGREEMENT NAME:

n/a

8. WELL NAME and NUMBER:

Buck Camp 12-22-11-2

9. API NUMBER:

4304737892

10. FIELD AND POOL, OR WILDCAT:

Undesignated

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

GAS WELL

OTHER \_\_\_\_\_

2. NAME OF OPERATOR:

Enduring Resources, LLC

3. ADDRESS OF OPERATOR:

475 17th Street, Suite 1500 CITY Denver

STATE CO ZIP 80202

PHONE NUMBER:

(303) 350-5719

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1944' FNL - 462' FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 12S 22E S

STATE:

UTAH

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

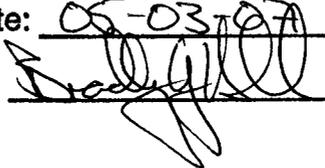
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER 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: Request for APD Extension
	<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: 5/8/2007  
TO: 5/8/2008

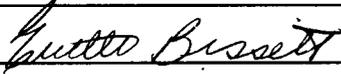
Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 05-03-07  
By: 

5-8-07  
RM

NAME (PLEASE PRINT) Evette Bissett

TITLE Regulatory Affairs Assistant

SIGNATURE 

DATE 5/4/2007

(This space for State use only)

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

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

**API:** 4304737892  
**Well Name:** Buck Camp 12-22-11-2  
**Location:** 1944' FNL - 462' FWL, SWNW, Sec 2, T12S-R22E  
**Company Permit Issued to:** Enduring Resources, LLC  
**Date Original Permit Issued:** 5/8/2006

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

*Quetta Bissett*  
Signature

5/4/2007  
Date

Title: Regulatory Affairs Assistant

Representing: Enduring Resources, LLC

MAY 03 2007

**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-47087
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 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80202		7. UNIT or CA AGREEMENT NAME: n/a
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1944' FNL - 462' FWL		8. WELL NAME and NUMBER: Buck Camp 12-22-11-2
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 2 12S 22E S		9. API NUMBER: 4304737892
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Undesignated
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
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	<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.

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FROM: 5/3/2008  
TO: 5/3/2009

Approved by the  
Utah Division of  
Oil, Gas and Mining

**COPY SENT TO OPERATOR**

Date: 5.6.2008  
Initials: KS

Date: 05-05-08  
By: [Signature]

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE <u>[Signature]</u>	DATE <u>4/30/2008</u>

(This space for State use only)

**RECEIVED**  
**MAY 05 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)

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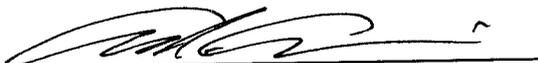
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Signature

4/30/2008  
Date

Title: Landman - Regulatory Specialist

Representing: Enduring Resources, LLC

**RECEIVED**  
**MAY 05 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

May 14, 2009

Enduring Resources, LLC  
475 17<sup>TH</sup> Street, Suite 1500  
Denver, CO 80202

Re: APD Rescinded – Buck Camp 12-22-11-2, Sec.2, T.12S, R.22E  
Uintah County, Utah API No. 43-047-37892

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 May 8, 2006. On May 3, 2007 and on May 5, 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 May 14, 2009.

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  
Ed Bonner, SITLA