

LEGEND:

- └─┘ = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.
 - △ = SECTION CORNER RE-ESTABLISHED USING DOUBLE PROPORTION METHOD (NOT SET ON GROUND).
- (AUTONOMOUS NAD 83)
 LATITUDE = 39°48'43.95" (39.812208)
 LONGITUDE = 109°24'40.64" (109.411289)
 (AUTONOMOUS NAD 27)
 LATITUDE = 39°48'44.07" (39.812242)
 LONGITUDE = 109°24'38.20" (109.410611)

ENDURING RESOURCES, LLC.

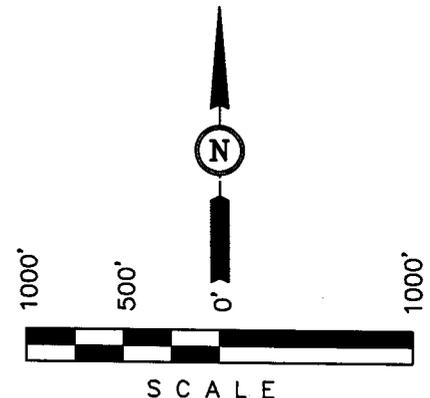
Well location, BUCK CAMP #11-22-14-36, located as shown in the SW 1/4 SW 1/4 of Section 36, T11S, R22E, S.L.B.&M. Uintah County, Utah.

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, UTAH 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 SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT J. LUTHER
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 12-20-05	DATE DRAWN: 01-02-06
PARTY T.A. J.H. L.K.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE ENDURING RESOURCES, LLC	

Enduring Resources, LLC

Buck Camp 11-22-14-36
851' FSL – 475' FWL
SWSW Sec. 36-T11S-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	191'
Wasatch	2641'
Mesaverde	4756'

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

Substance	Formation	Depth (K.B.) TVD
	KB-Uinta Elevation: 5411' est.	
Oil / Gas	Green River	191'
Oil / Gas	Wasatch	2641'
Oil / Gas	Mesaverde	4756'
	TD	7105'

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

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

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

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

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

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

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

Blow-Out Preventer

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

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

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

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

E. Miscellaneous Information:

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

4. Proposed Casing & Cementing Program:

A. Casing Program: All New

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (MD)
20"	14" O.D.				40' (GL)
11"	8-5/8"	24#	J-55	ST&C	0 - 2,016' (KB) est.
7-7/8"	4-1/2"	11.6#	N-80	LT&C	0 - 7,105' (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)
7105' (KB)	4-1/2", 11.6#/ft, N-80, LTC	6350/1.72 (d)	7780/2.29 (e)	223/3.15 (f)

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

PROPOSED CEMENTING PROGRAM

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

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

A cement top job is required if cement fallback is greater than 10' below ground level. Top job (weight 15.8 ppg, yield 1.15 ft³/sx) cement will be premium cement w/ 3% CaCl₂ + 0.25 pps celloflake. Volume as required

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

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

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

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft ³ /sx)
4-1/2"	Lead	525	Class "G" + 5% NaCl + 12% Gel + 0.25 pps celloflake + 0.2% antifoam + 0.25% fluid loss + 1% extencer	47	25	11.0	3.3
4-1/2"	Tail	4864	50/50 POZ. Class G + 2% gel + 1% CaCl ₂ + 0.2% dispersant + 0.2% flu d loss + 0.1% antifoam	888	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'-7105' (KB)	8.8-9.8	8 - 10 ml	32-42	Water/Gel

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

6. Evaluation Program:

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: No sampling is currently planned.

Logging

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

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

7. Abnormal Conditions:

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 3,695 psi (calculated at 0.52 psi/foot of hole) and maximum anticipated surface pressure equals approximately 2,132 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

8. Anticipated Starting Dates:

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

9. Variations:

None anticipated

10. Other:

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

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

ENDURING RESOURCES, LLC.
BUCK CAMP #11-22-14-36
SECTION 36, T11S, 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 DIRECTION APPROXIMATELY 6.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 350' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 79.15 MILES.

Enduring Resources, LLC

**Buck Camp 11-22-14-36
851' FSL – 475' FWL
SWSW Sec. 36-T11S-R22E
Uintah County, Utah
Lease #: ML-47077**

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Directions to the Buck Camp 11-22-14-36 Well:

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 DIRECTION APPROXIMATELY 6.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, DIRECTION APPROXIMATELY 350 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 79.15 MILES.

2. Planned Access Roads:

The proposed access road will be approximately 1.00 mile of new construction all on-lease.

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. (3): Producing Wells:
 - i. Buck Camp 4-36, NWNW Sec. 36-11S-22E
nka Buck Camp 11-22-11-36
 - ii. Buck Camp 2-2, NWNE Sec. 2-11S-22E
Nka Buck Camp 12-22-31-2
 - iii. Buck Camp 2-7, SWNE Sec. 2-11S-22E
(our records show this well never drilled)

- 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. 36-11S-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:

370'	3"	Surface Pipeline	On-Lease	SITLA
-0-			Off-Lease	N/A

A 3" surface pipeline will be constructed along the well access road.

If this well is capable of economic production, a 3" 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 370 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 (west) to tie-in to a steel surface pipeline that is being *(has been)* constructed to Canyon Gas along the County Road. **The proposed pipeline to the #4-36 well shown on the plats has now been constructed.**

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 net 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 3" or less.

Archeology:

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

Paleontology:

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

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

promptly to the surface management agency.

13, Lessee's or Operator's Representatives:

Representatives:

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

Frank Hutto
Vice President – Operations
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Denver, Colorado 80202
Office Tel: 303-573-5102
Fax Tel: 303-573-0461
fhutto@enduringresources.com

ENDURING RESOURCES, LLC.

BUCK CAMP #11-22-14-36

LOCATED IN UINTAH COUNTY, UTAH

SECTION 36, T11S, R22E, S.L.B.&M.

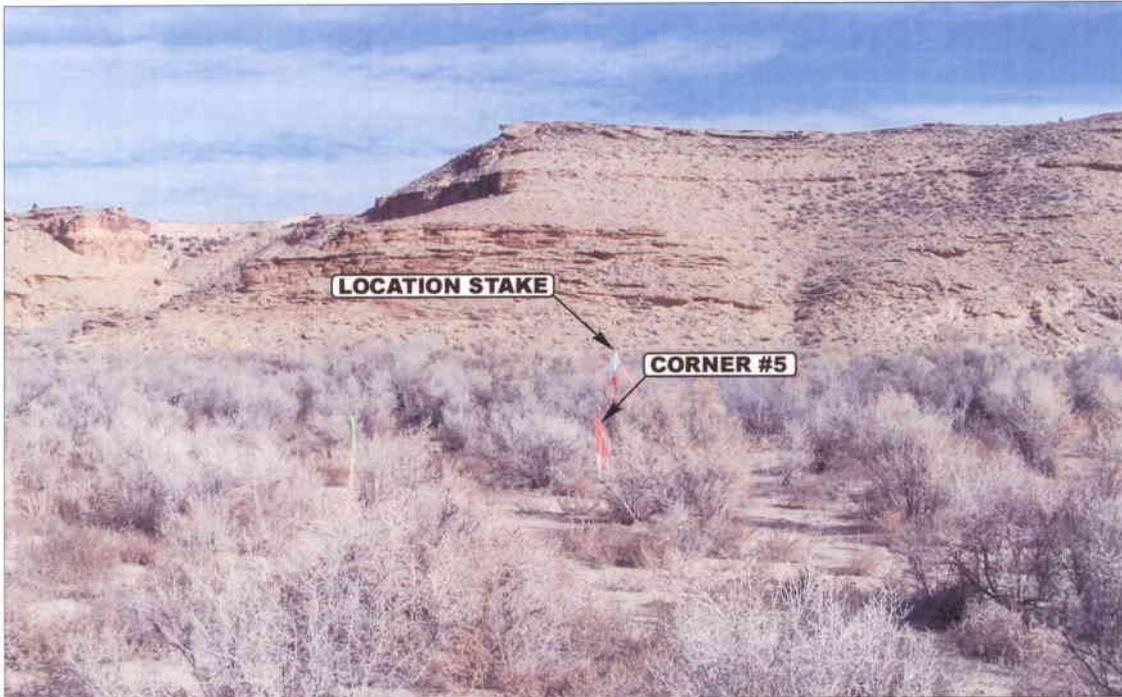


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



- Since 1964 -

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

LOCATION PHOTOS

01 03 06
MONTH DAY YEAR

PHOTO

TAKEN BY: T.A.

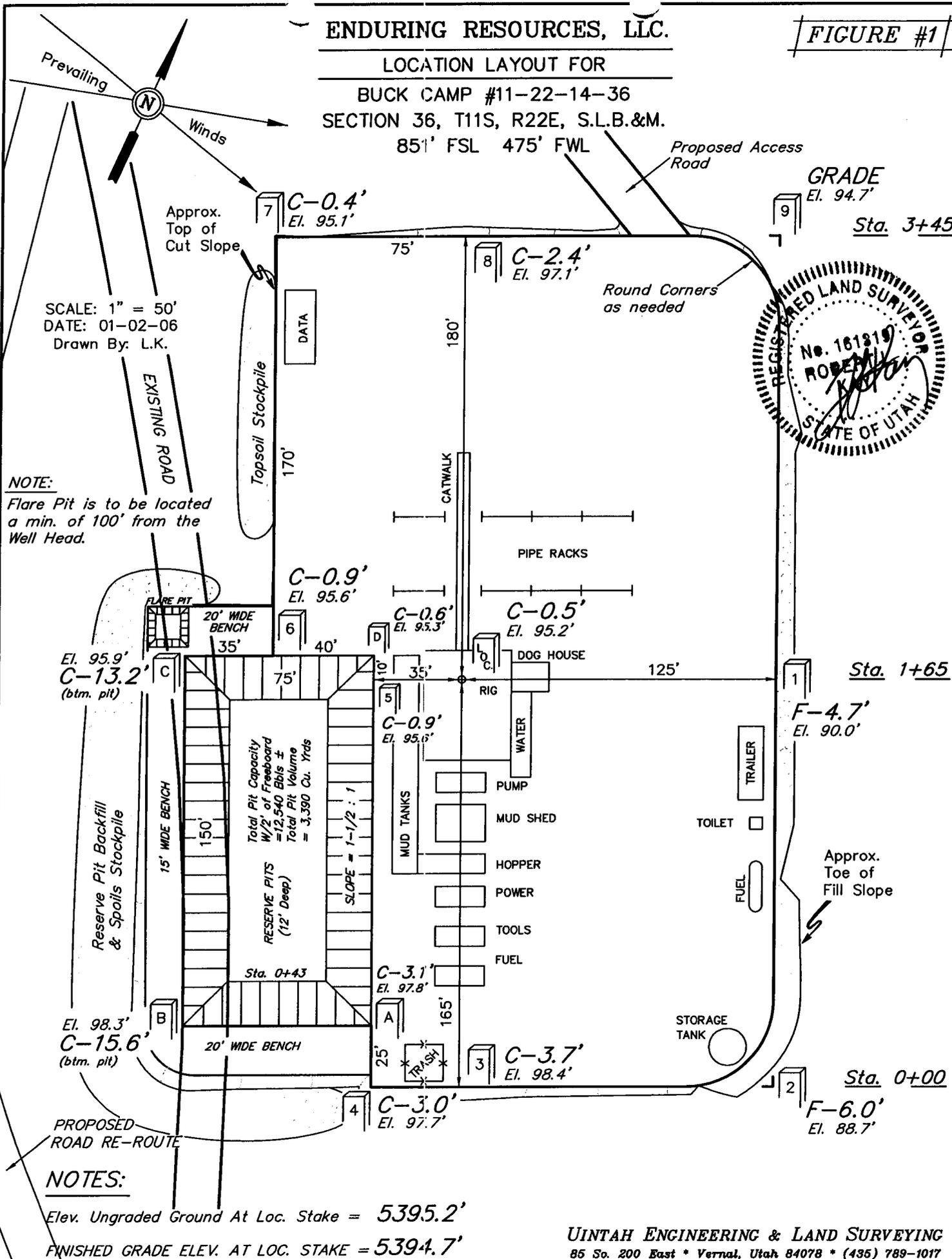
DRAWN BY: C.H.

REVISED: 00-00-00

ENDURING RESOURCES, LLC.

FIGURE #1

LOCATION LAYOUT FOR
 BUCK CAMP #11-22-14-36
 SECTION 36, T11S, R22E, S.L.B.&M.
 85' FSL 475' FWL



SCALE: 1" = 50'
 DATE: 01-02-06
 Drawn By: L.K.

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

El. 95.9'
 C-13.2'
 (btm. pit)

El. 98.3'
 C-15.6'
 (btm. pit)

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5395.2'
 FINISHED GRADE ELEV. AT LOC. STAKE = 5394.7'

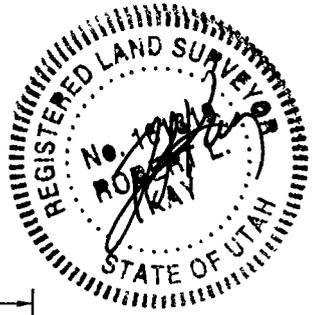
UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



ENDURING RESOURCES, LLC.

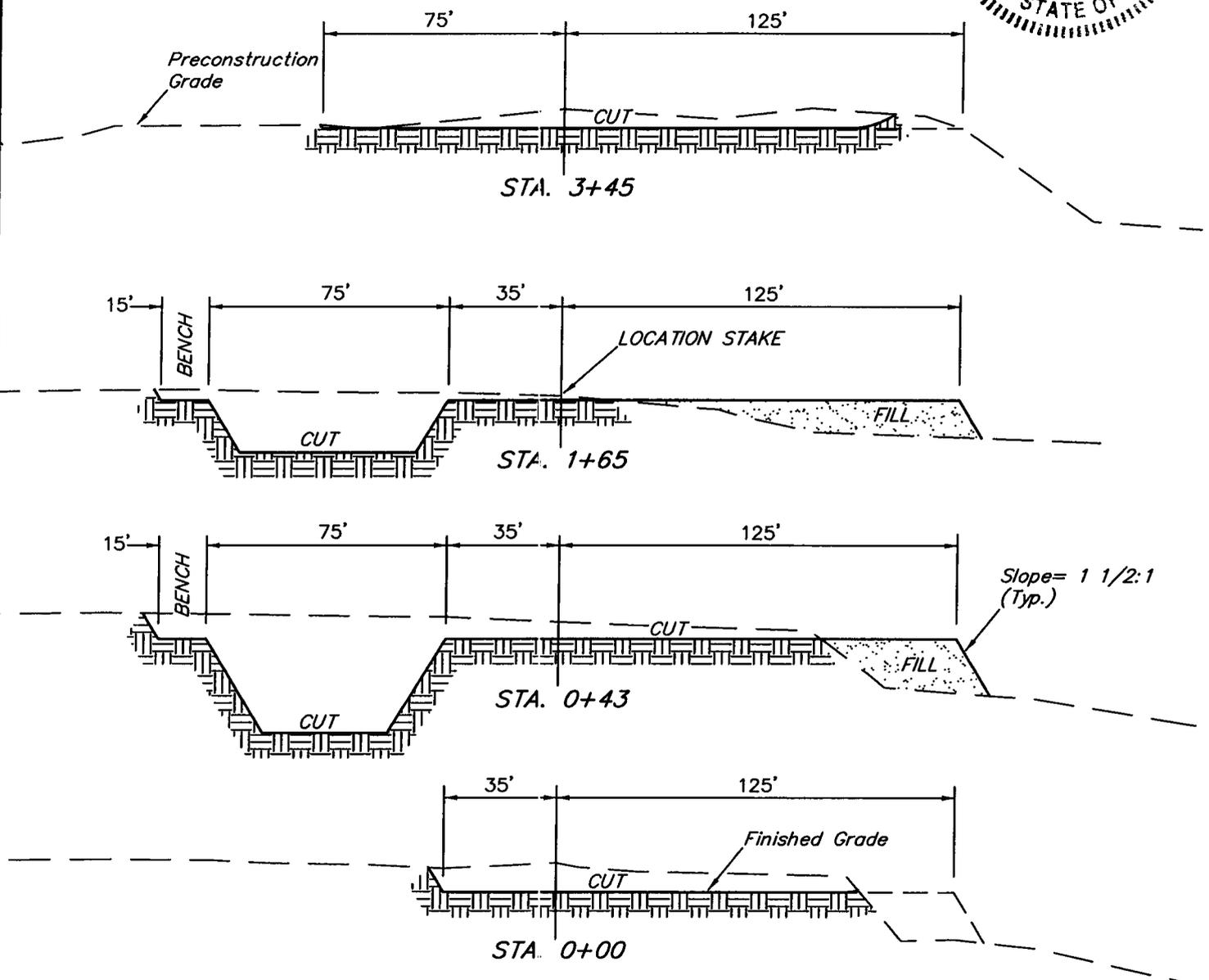
FIGURE #2

TYPICAL CROSS SECTIONS FOR
 BUCK CAMP #11-22-14-36
 SECTION 36, T11S, R22E, S.L.B.&M.
 85' FSL 475' FWL



1" = 20'
 X-Section Scale
 1" = 50'

DATE: 01-02-06
 Drawn By: L.K.

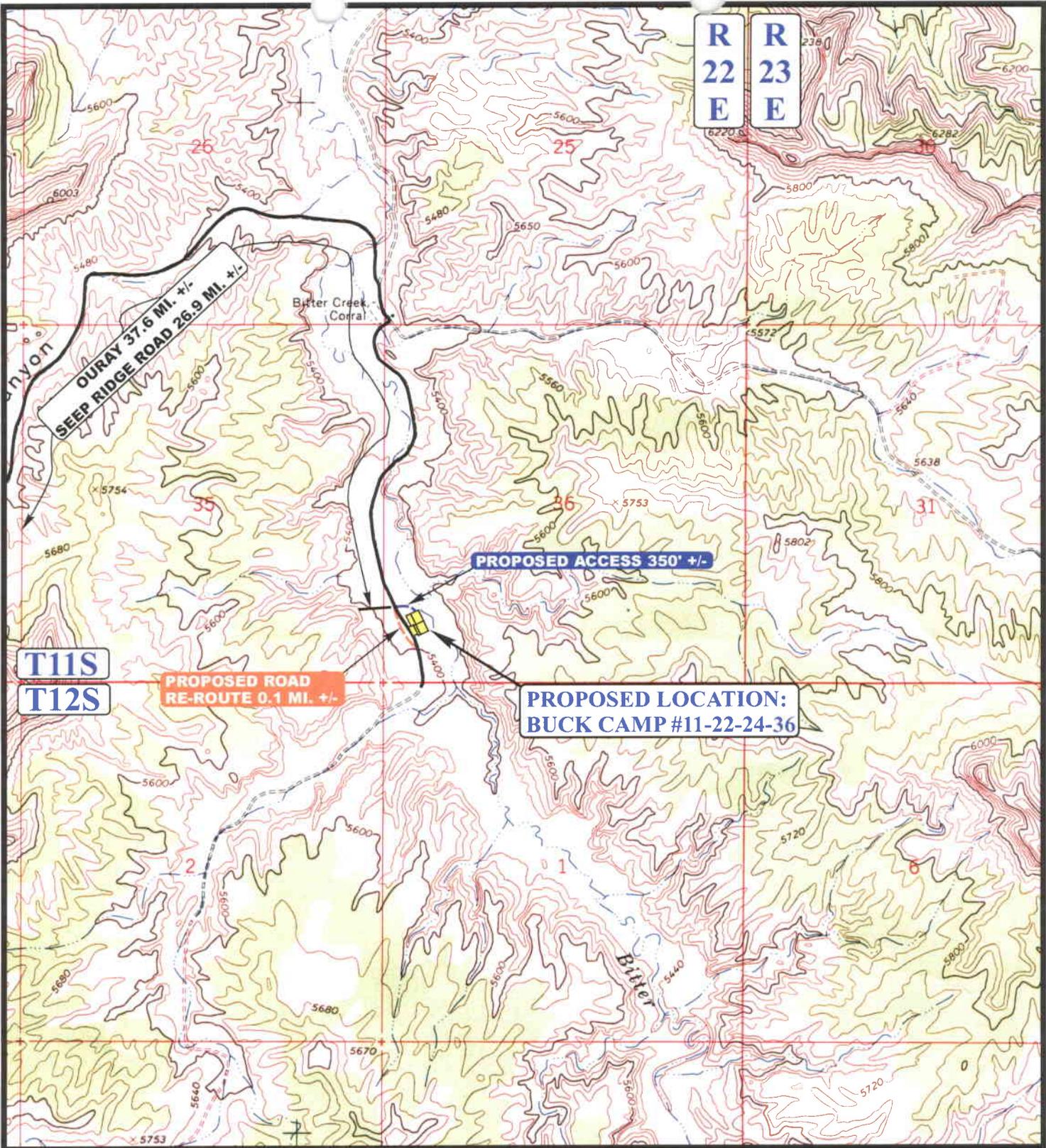


* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,570 Cu. Yds.
Remaining Location	= 5,240 Cu. Yds.
TOTAL CUT	= 6,810 CU.YDS.
FILL	= 3,540 CU.YDS.

EXCESS MATERIAL	= 3,270 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,270 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.



R 22
E

R 23
E

T11S
T12S

PROPOSED ROAD
RE-ROUTE 0.1 MI. +/-

PROPOSED ACCESS 350' +/-

PROPOSED LOCATION:
BUCK CAMP #11-22-24-36

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD



ENDURING RESOURCES, LLC.

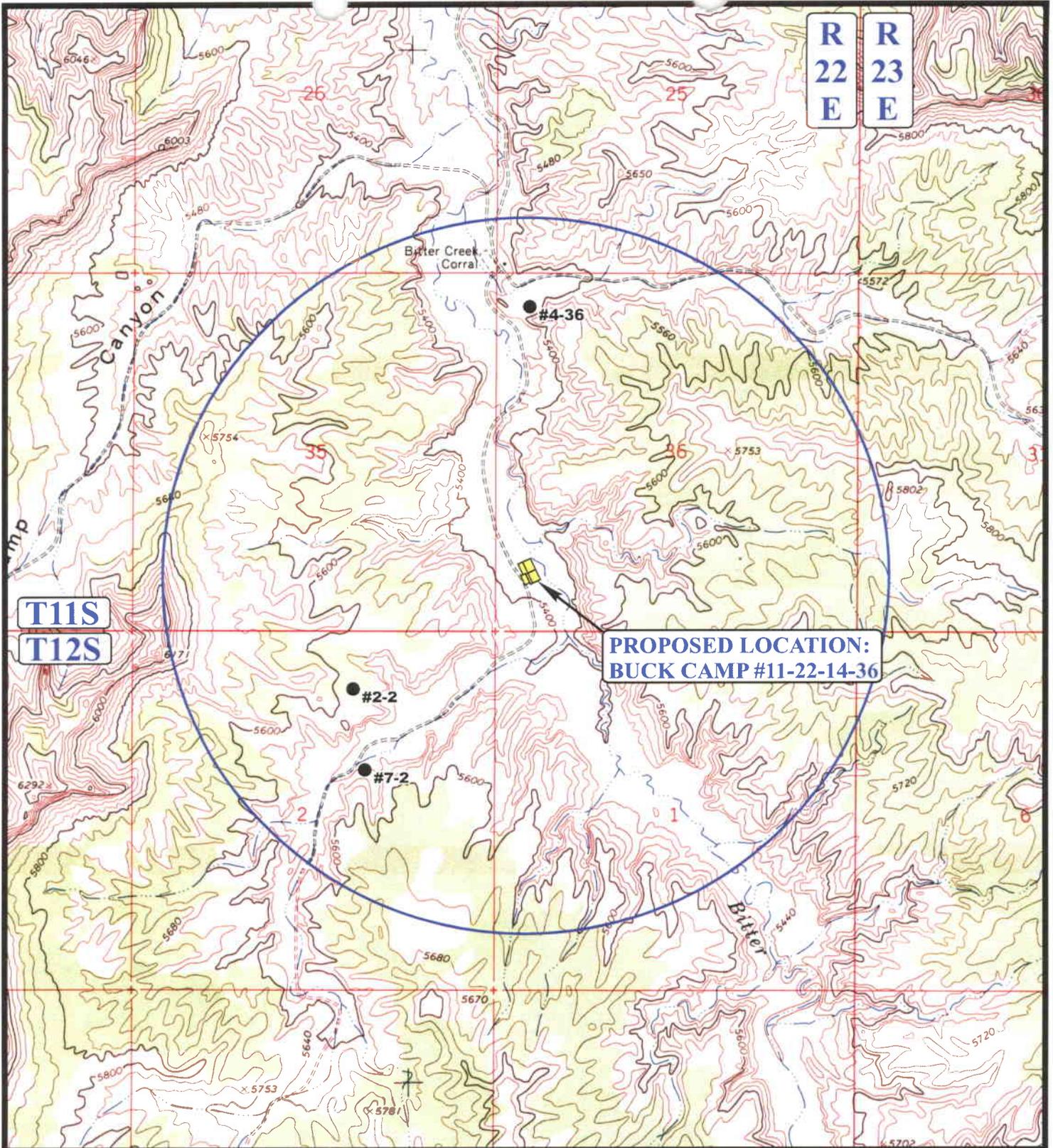
BUCK CAMP #11-22-14-36
SECTION 36, T11S, R22E, S.L.B.&M.
851' FSL 475' FWL



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

TOPOGRAPHIC MAP
01 03 06
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00





T11S
T12S

R 22 E
R 23 E

**PROPOSED LOCATION:
BUCK CAMP #11-22-14-36**

LEGEND:

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



ENDURING RESOURCES, LLC.

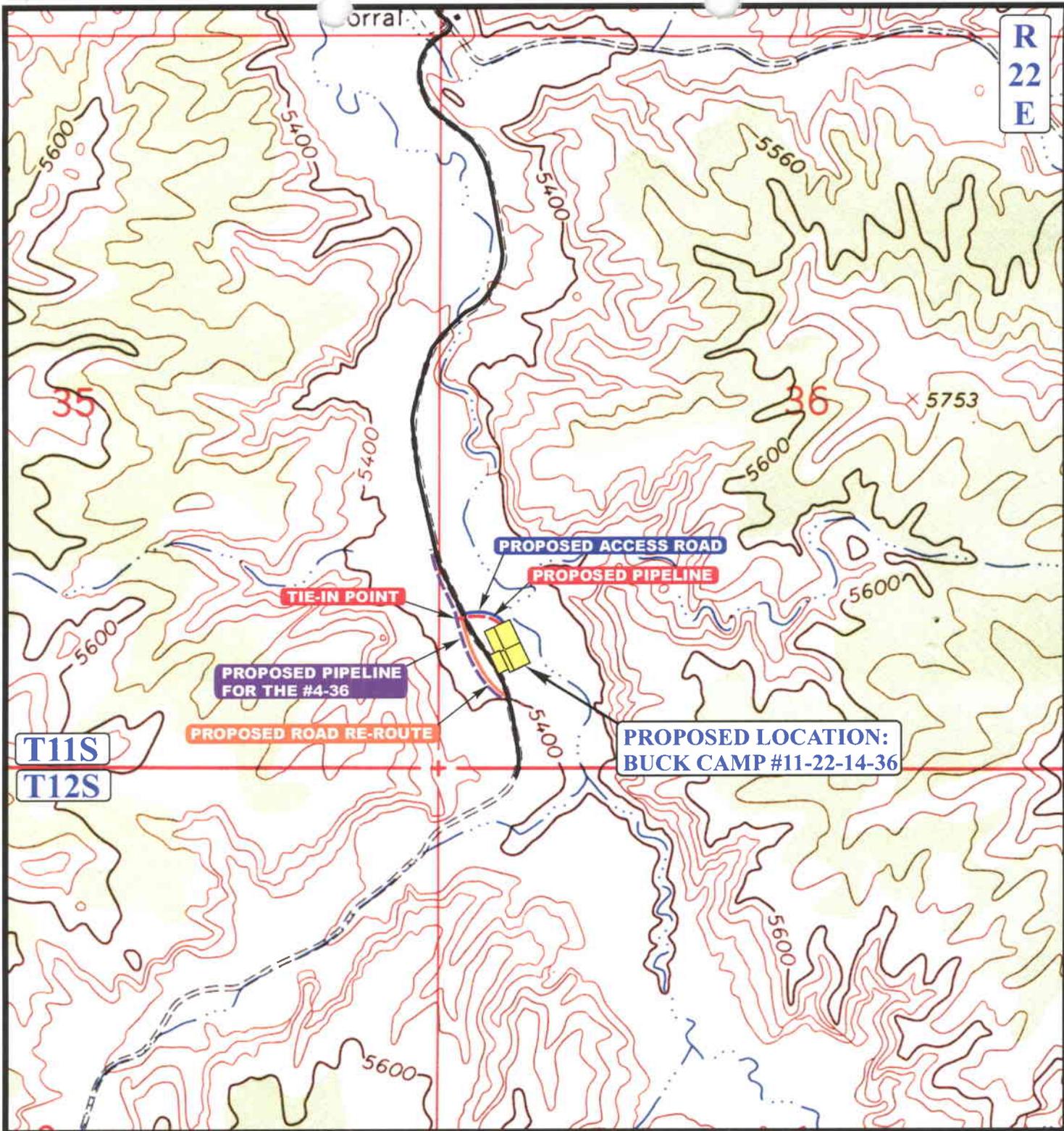
BUCK CAMP #11-22-14-36
SECTION 36, T11S, R22E, S.L.B.&M.
851' FSL 475' FWL



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

TOPOGRAPHIC 01 03 06
MAP MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 370' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



ENDURING RESOURCES, LLC.

BUCK CAMP #11-22-14-36
SECTION 36, T11S, R22E, S.L.B.&M.
851' FSL 475' FWL



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

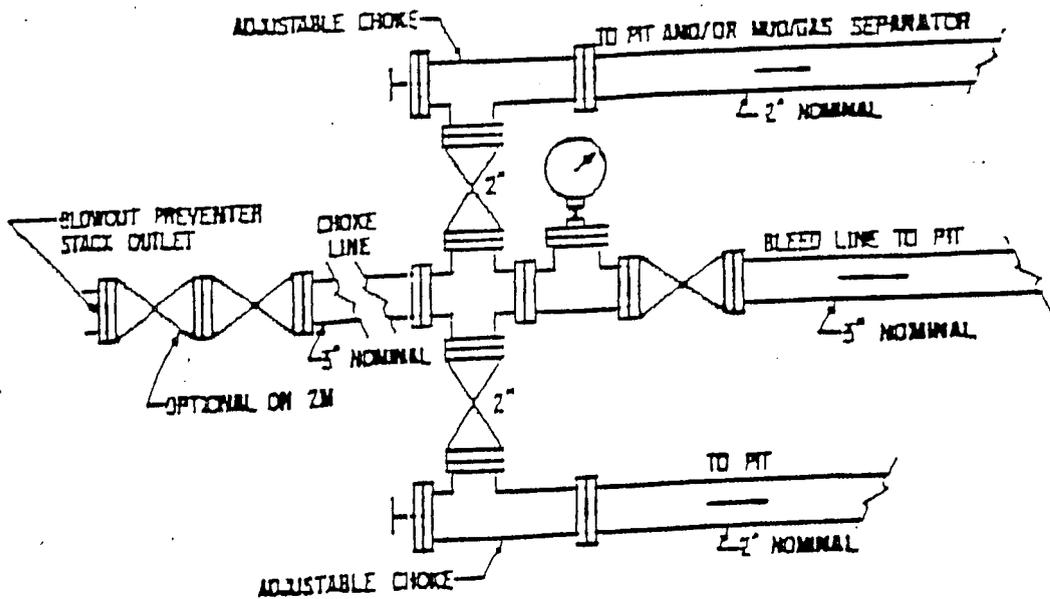
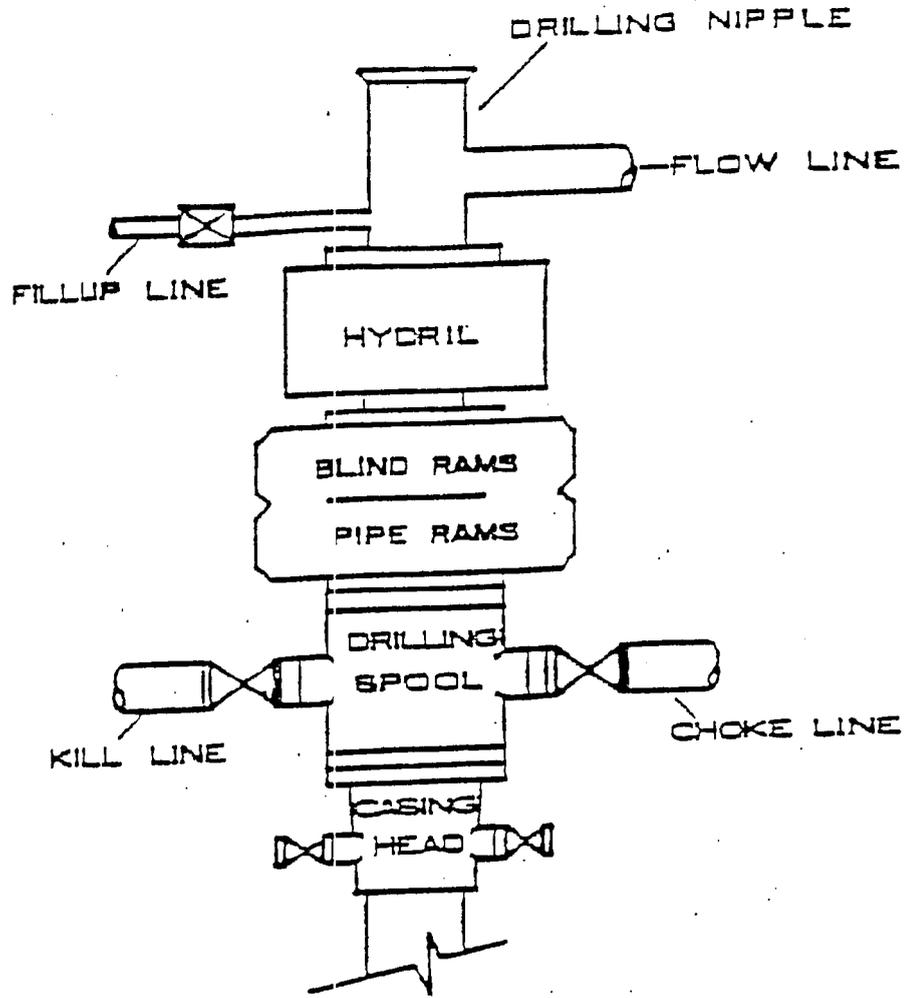
TOPOGRAPHIC 01 03 06
MAP MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.H. REVISED: 00-00-00



3,000 PSI

BOP STACK



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/27/2006

API NO. ASSIGNED: 43-047-37836

WELL NAME: BUCK CAMP 11-22-14-36
 OPERATOR: ENDURING RESOURCES, LLC (N2750)
 CONTACT: AL ARLIAN

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

SWSW 36 110S 220E
 SURFACE: 0851 FSL 0475 FWL
 BOTTOM: 0851 FSL 0475 FWL
 COUNTY: UINTAH
 LATITUDE: 39.81220 LONGITUDE: -109.4106
 UTM SURF EASTINGS: 636050 NORTHINGS: 4407912
 FIELD NAME: UNDESIGNATED (2)

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

LEASE TYPE: 3 - State
 LEASE NUMBER: ML-47077
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: MVRD
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]
(No. RLB0008031)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 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 Opus (04-05-06)

STIPULATIONS:

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

T11S R22E

T11S R23E

ROCK HOUSE FIELD

BUCK CAMP
11-22-11-36

BUCK CAMP 11-22-21-36
BUCK CAMP 11-22-22-36

BHL
11-22-22-36

36

BUCK CAMP
11-22-13-36

BUCK CAMP
11-22-14-36

BUCK CAMP
11-22-24-36

T12S R22E

T12S R23E

BUCK CAMP
12-22-41-2

OPERATOR: ENDURING RES LLC (N2750)

SEC: 36 T. 11S R. 22E

FIELD: UNDESIGNATED (002)

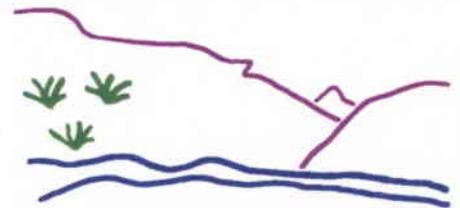
COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING

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

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

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



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY
DATE: 06-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 11-22-14-36
API NUMBER: 43-047-37836
LOCATION: 1/4,1/4 SW/SW Sec: 36 TWP: 11S RNG: 22E 851' FSL 475 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 2,900 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 .25 miles 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 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. Williams and Mr. Davis attended. Ben Williams representing the UDWR stated the area is classified as critical value winter habitat for deer and high value winter elk habitat. He explained how the areas are classified. However since the location is next to an existing road, which will receive significant winter travel, he made no recommendations for seasonal restriction. Also, records show a red-tailed hawk nest in the ledges to the southwest and around the bend from the location. He did not recommend any restrictions for this nest. He furnished a copy of his write-up to SITLA and the operator along with a recommended seed mix to be used to re-vegetate the area. An artesian well exists in the general area. The operator is aware of this well. He does not expect to use explosives in construction of the location. 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:** 02/10/2006

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 11-22-14-36
API NUMBER: 43-047-37836
LEASE: ML-47077 **FIELD/UNIT:** Undesignated
LOCATION: 1/4,1/4 SW/SW Sec: 36 TWP: 11S RNG: 22E 851' FSL 475 FWL
LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.
GPS COORD (UTM): 636050 E 4407912 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), Ben Williams (Utah Division of Wildlife Resources, Jim Davis (SITLA)

REGIONAL/LOCAL SETTING & TOPOGRAPHY

The proposed Buck Camp 11-22-14-36 well lies in the bottom of Bitter Creek. At the location the canyon is wide. Canyon walls are steep in the area with frequent exposed bedrock cliffs. Topography at the location is essentially flat with a slight slope toward the drainage bottom.

Bitter Creek in this area is an ephemeral drainage only flowing during spring runoff and intense summer rainstorms. The White River is approximately 10 miles downstream to the north. An artesian well of unknown origin and history is located about 300 yards up-drainage from the location. A buried pipe from this well brings water to a constructed stock pond about 100 yards up drainage from the location and continues down the drainage to the Bitter Creek sheep

The location is approximately 23 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 an oil field development road south about 1 mile up the bottom to the location. The location is next to and on the east side of this road. About 160 feet of new road is planned.

Topography in the general area is broad canyon bottoms separated by steep and often ledgey side-slopes, which top out onto broad ridge tops. Frequent outwash plains and deposits occur along the sides of the major bottoms. 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: 160 feet of new access road and construction of a well location 345'x 200' plus a reserve pit and soil

stockpile storage outside the described area.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: Buck Camp 2-2 and 7-2 wells are approximately ¼ mile to the west and south of this proposed well. 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 130 feet of pipeline will follow 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 with Russian thistle, greasewood and prickly pears. Pronghorn, rodents, songbirds, raptors, elk, deer, bobcat, coyote, heavily grazed by domestic sheep.

SOIL TYPE AND CHARACTERISTICS: Deep silty sandy loam with no surface bedrock outcrops.

EROSION/SEDIMENTATION/STABILITY: Very light natural erosion is occurring on the site. No stability problems are anticipated with the construction and operation of the location.

PALEONTOLOGICAL POTENTIAL: none observed.

RESERVE PIT

CHARACTERISTICS: 155' 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): Lining of the reserve pit is required. The operator stated they planned to line it with a 16 mil liner. Sensitivity score is 30 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

Ben Williams representing the UDWR stated the area is classified as critical value winter habitat for deer and high value winter elk habitat. He explained how the areas are classified. However since the location is next to an existing road, which will receive significant winter travel, he made no recommendations for seasonal restrictions. Also, records show a red-tailed hawk nest in the ledges to the southwest and around the bend from the location. He did not recommend any restrictions for this nest. He furnished a copy of his analysis to SITLA along with a recommended seed mix to be used to revegetate the area.

Jim Davis and Ed Bonner of SITLA were invited to the presite by email on 03/30/2006. Mr. Davis met us for this investigation.

This predrill investigation was conducted on a cold very windy day.

ATTACHMENTS

Photos of site have been taken and placed on file.

Floyd Bartlett
DOGM REPRESENTATIVE

04/05/2005 11:45 AM
DATE/TIME

**Evaluation Ranking Criteria and Ranking
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>10</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 30 (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.



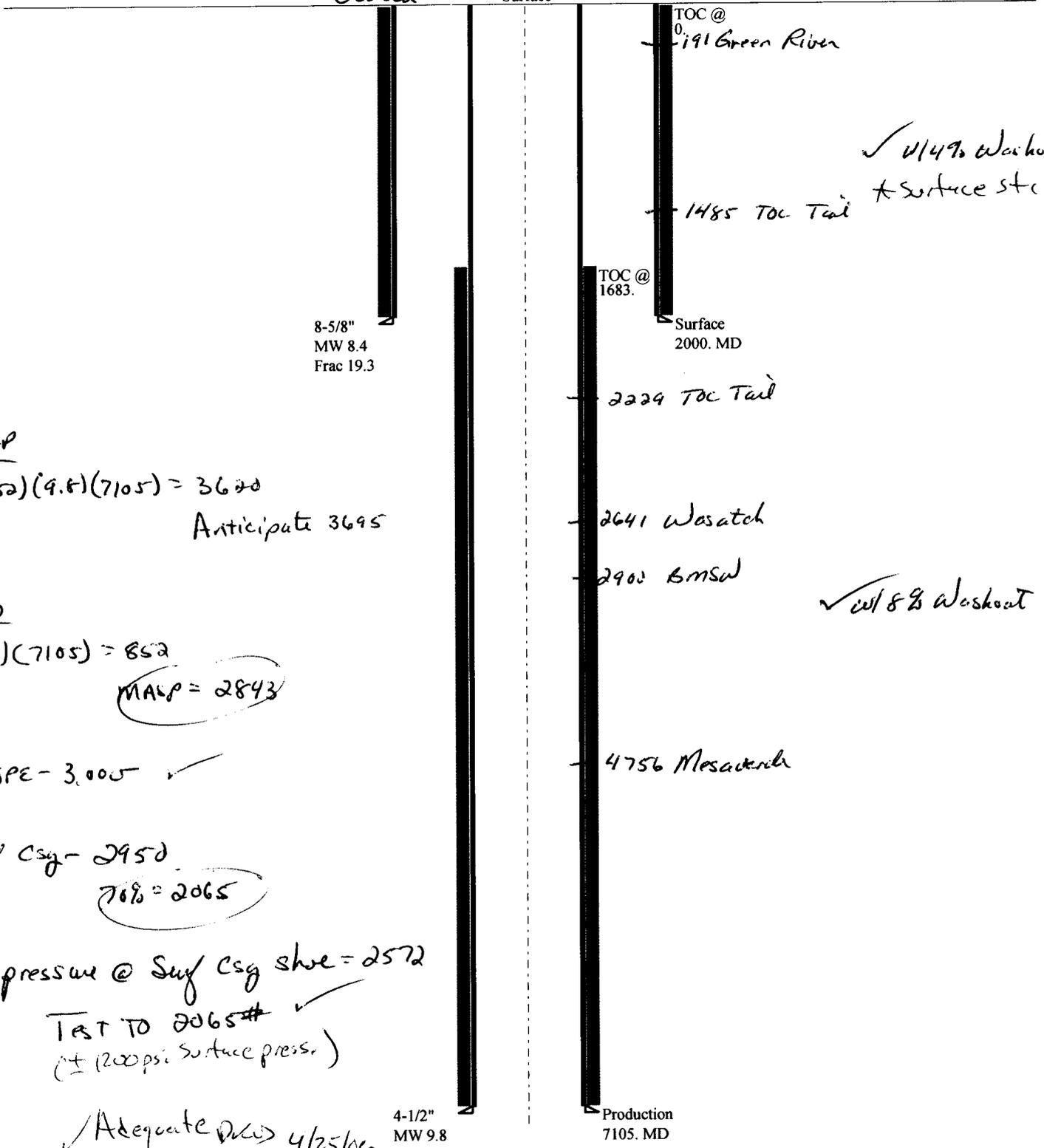


4-06 Enduring Buck Camp 1-22-14-36

Casing Schematic

Uinter

Surface



8-5/8"
MW 8.4
Frac 19.3

TOC @
191 Green River

✓ 1/4% Washout
+ surface std

1485 TOC Tail

TOC @
1683.

Surface
2000. MD

2229 TOC Tail

2641 Wasatch

2900 BMSW

✓ 1/8% Washout

4756 Mesaverde

BHP

$(.052)(9.6)(7105) = 3620$

Anticipate 3695

GWS

$(.12)(7105) = 852$

$MAASP = 2843$

BOPE - 3,005 ✓

Surf csq - 2950

$76\% = 2065$

Max pressure @ Surf csq shoe = 2572

Test to 2065# ✓
(+ 1200psi surface press.)

✓ Adequate DWS 4/25/06
4-1/2" MW 9.8

Production
7105. MD

Well name:	04-06 Enduring Buck Camp 12-22-14-36		
Operator:	Enduring Resources LLC		
String type:	Surface	Project ID:	43-047-37836
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: 7,105 ft
 Next mud weight: 9.800 ppg
 Next setting BHP: 3,617 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:	04-06 Enduring Buck Camp 12-22-14-36		
Operator:	Enduring Resources LLC		
String type:	Production	Project ID:	43-047-37836
Location:	Uintah County		

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 2,764 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 3,617 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: 6,064 ft

Environment:

H2S considered? No
 Surface temperature: 65 °F
 Bottom hole temperature: 164 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,500 ft

Cement top: 1,683 ft

Non-directional string.

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	7105	4.5	11.60	N-80	LT&C	7105	7105	3.875	164.7
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	3617	6350	1.756	3617	7780	2.15	70	223	3.17 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 7105 ft, a mud weight of 9.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

From: Ed Bonner
To: Whitney, Diana
Date: 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 11-22-14-36 Well, 851' FSL, 475' FWL, SW SW, Sec. 36,
T. 11 South, R. 22 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37836.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA

Operator: Enduring Resources, LLC
Well Name & Number Buck Camp 11-22-14-36
API Number: 43-047-37836
Lease: ML-47077

Location: SW SW **Sec.** 36 **T.** 11 South **R.** 22 East

Conditions of Approval

1. **General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. **Notification Requirements**

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

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

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

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

3. **Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

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

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

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: ENDURING RESOURCES LLC

Well Name: BUCK CAMP 11-22-14-36

Api No: 43-047-37836 Lease Type: STATE

Section 36 Township 11S Range 22E County UINTAH

Drilling Contractor PETE MARTINS RIG # BUCKET

SPUDDED:

Date 06/06/06

Time _____

How DRY

Drilling will Commence: _____

Reported by QUINN HAMMOND

Telephone # (435) 828-5994

Date 06/07/2006 Signed CHD

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

FORM 6

ENTITY ACTION FORM

Operator: Enduring Resources, LLC Operator Account Number: N 2750
 Address: 475 17th Street, Suite 1500
city Denver
state CO zip 80202 Phone Number: (303) 350-5114

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304737836	Buck Camp 11-22-14-36		SWSW	36	11S	22E	Utah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	15411	6/7/2006		6/8/06		
Comments: <i>MVRD</i> CONFIDENTIAL <i>K</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Alvin R. (Al) Arlian

Name (Please Print)

Signature

Landman-Regulatory

6/8/2006

Title

Date

(5/2000)

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DIV. OF OIL, GAS & MINING

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: UTU-47077
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CONFIDENTIAL			7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: Enduring Resources, LLC			8. WELL NAME and NUMBER: Buck Camp 11-22-14-36
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY: Denver STATE: CO ZIP: 80202		PHONE NUMBER: (303) 350-5114	9. API NUMBER: 4304737836
4. LOCATION OF WELL FOOTAGES AT SURFACE: 851' FSL - 475' FWL			10. FIELD AND POOL, OR WILDCAT: Undesignated
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 36 11S 22E S			COUNTY: Uintah
			STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>Set Conductor/</u> <u>Surface Pipe.</u>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>6/12/2006</u>			

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

Jun-7-2006 MI Pete Martin Rathole Service and drill to 135'. Rig up Big 4 Cementers and pump 625 sx of 2% cacl, 1/4# flowcele. Cement to Surface. Had fresh water flow at 62'.

Jun-11-2006 MIRU Bill Jr. Rathole Service and drill to 2,100'. Run 50 joints of 8-5/8", 32#, J55 Surface Casing to 2,057'. Cement guide shoe, float collar, 8 centralizers and 2 cement baskets at 200' and 400' from surface. RU Big 4 and pump 230 sx lead, 225 sx tail, and 2 top jobs of 225 sx. Cement to Surface. Hit Trona at 1,780'
 Stage: 1, Lead 0, 230, 16% gel, 1/4# flowcele, Class G, 3.84, 11.1
 Stage: 1, Tail, 0, 225, 2% cacl2, 1/4# flowcele, Class G, 1.15, 15.8.
 Stage: 1, 0, 100, 3% cacl2, 1/4# flowcele, Class G, 1.15, 15.8.
 Stage: 1, 0, 125, 3% cacl2, 1/4# flowcele, Class G, 1.15, 15.8.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>6/12/2006</u>

(This space for State use only)

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

AMENDED REPORT [] FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [] GAS WELL [x] DRY [] OTHER []
b. TYPE OF WORK: NEW WELL [x] HORIZ. LATS. [] DEEP-EN [] RE-ENTRY [] DIFF. RESVR. [] OTHER []

2. NAME OF OPERATOR: Enduring Resources, LLC

3. ADDRESS OF OPERATOR: 475 17th St, Suite 1500 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 573-1222

4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 851' FSL - 475' FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: same as above AT TOTAL DEPTH: same as above

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47077

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

7. UNIT or CA AGREEMENT NAME: N/A

8. WELL NAME and NUMBER: Buck Camp 11-22-14-36

9. API NUMBER: 4304737836

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 36 11S 22E

12. COUNTY: Uintah 13. STATE: UTAH

14. DATE SPUDDED: 6/15/2006 15. DATE T.D. REACHED: 6/20/2006 16. DATE COMPLETED: 8/11/2006 ABANDONED [] READY TO PRODUCE [x]

17. ELEVATIONS (DF, RKB, RT, GL): 5411 RKB

18. TOTAL DEPTH: MD 6,690 TVD 19. PLUG BACK T.D.: MD 6,666 TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? * 1

21. DEPTH BRIDGE PLUG SET: MD 6,140 TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) Previously submitted. Resis, GR, Pex, Tc, Porosity

23. WAS WELL CORED? NO [x] YES [] (Submit analysis) WAS DST RUN? NO [x] YES [] (Submit report) DIRECTIONAL SURVEY? NO [x] YES [] (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

Table with columns: HOLE SIZE, SIZE/GRADE, WEIGHT (#/ft.), TOP (MD), BOTTOM (MD), STAGE CEMENTER DEPTH, CEMENT TYPE & NO. OF SACKS, SLURRY VOLUME (BBL), CEMENT TOP **, AMOUNT PULLED

25. TUBING RECORD Table with columns: SIZE, DEPTH SET (MD), PACKER SET (MD)

26. PRODUCING INTERVALS Table with columns: FORMATION NAME, TOP (MD), BOTTOM (MD), TOP (TVD), BOTTOM (TVD)

27. PERFORATION RECORD Table with columns: INTERVAL (Top/Bot - MD), SIZE, NO. HOLES, PERFORATION STATUS

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. Table with columns: DEPTH INTERVAL, AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS: [] ELECTRICAL/MECHANICAL LOGS [] GEOLOGIC REPORT [] DST REPORT [] DIRECTIONAL SURVEY [] SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION [] CORE ANALYSIS [] OTHER:

30. WELL STATUS: Producing

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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/3/2006		TEST DATE: 11/2/2006		HOURS TESTED: 720		TEST PRODUCTION RATES: →	OIL – BBL: 2	GAS – MCF: 8	WATER – BBL: 12	PROD. METHOD: 30 day avg
CHOKE SIZE: 19/64	TBG. PRESS. 200	CSG. PRESS. 1,500	API GRAVITY	BTU – GAS	GAS/OIL RATIO 4	24 HR PRODUCTION RATES: →	OIL – BBL: 7	GAS – MCF: 22	WATER – BBL: 3	INTERVAL STATUS: Producing

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

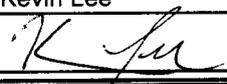
Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Description:, Contents, etc.	Name	Top (Measured Depth)
Green River	191				
Wasatch	2,641				
Mesaverde	4,756				

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Kevin Lee TITLE Engineering Tech
 SIGNATURE  DATE 2/1/2007

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
 Fax: 801-359-3940

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-47077

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Buck Camp 11-22-14-36

2. NAME OF OPERATOR:
Enduring Resources, LLC

9. API NUMBER:
4304737836

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

PHONE NUMBER:
(303) 350-5114

10. FIELD AND POOL, OR WILDCAT:
Undesignated

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 851' FSL - 475' FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 36 11S 22E S

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/3/2006	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input checked="" 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 type="checkbox"/> OTHER: _____
	<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.

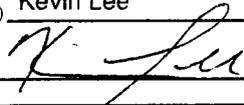
First Gas Sales October 3, 2006.

- Sold 1 MCF on 10/3/2006 at 1890# FCP
- Sold 85 MCF on 10/5/2006 at 1770# FCP

Completion report attached.

NAME (PLEASE PRINT) Kevin Lee

TITLE Engineering Tech

SIGNATURE 

DATE 2/5/2007

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Enduring Resources, LLC

475 17th Street
Denver, CO 80202
(303) 573-1222

Drilling Chronological
Regulatory

Well Name:BUCK CAMP 11-22-14-36					
Field Name:	Utah Wildcat	S/T/R:	36/11S/22E	County,State:	UINTAH, UT
Operator:	Enduring Resources, LLC	Location Desc:	SWSW 36-11S-22E	District:	Northern
Project AFE:	DV00405	AFEs Associated:	/ / /		

Daily Summary							
Activity Date :	5/24/2006	Days From Spud :	0	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :			Rig Name:				
Formation :			Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	24	WAITING ON CONSTRUCTION	0	0	NIH
10:00	7.00	22	MI PONDEROSA CONSTRUCTION AND START BUILDING LOCATION	0	0	NIH
17:00	13.00	24	SDFN	0	0	NIH
Total:	24.00					

Daily Summary							
Activity Date :	5/25/2006	Days From Spud :	0	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :			Rig Name:				
Formation :			Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	24	SDFN	0	0	NIH
8:00	9.00	22	Building Location	0	0	NIH
17:00	13.00	24	SDFN	0	0	NIH
Total:	24.00					

Daily Summary							
Activity Date :	5/26/2006	Days From Spud :	0	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :			Rig Name:				
Formation :			Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	24	SDFN	0	0	NIH
8:00	9.00	22	Building Location	0	0	NIH
17:00	13.00	24	SDFN	0	0	NIH
Total:	24.00					

Daily Summary							
Activity Date :	5/27/2006	Days From Spud :	0	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :			Rig Name:				
Formation :			Weather:				

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	24	SDFN	0	0	NIH
8:00	9.00	22	Building Location	0	0	NIH
17:00	13.00	24	Shut down for weekend.	0	0	NIH
Total:	24.00					

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2/1/2007

Well Name:BUCK CAMP 11-22-14-36

Field Name:	Utah Wildcat	S/T/R:	36/11S/22E	County,State:	UINTAH, UT
Operator:	Enduring Resources, LLC	Location Desc:	SWSW 36-11S-22E	District:	Northern

Daily Summary

Activity Date :	5/31/2006	Days From Spud :	0	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	24	SDFN	0	0	NIH
8:00	9.00	22	Building Location	0	0	NIH
17:00	13.00	24	SDFN	0	0	NIH
Total: 24.00						

Daily Summary

Activity Date :	6/1/2006	Days From Spud :	0	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	24	SDFN	0	0	NIH
8:00	9.00	22	finished building location	0	0	NIH
17:00	13.00	24	waiting on conductor	0	0	NIH
Total: 24.00						

Daily Summary

Activity Date :	6/7/2006	Days From Spud :	0	Current Depth :	100 Ft	24 Hr. Footage Made :	100 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.00	24	WAITING ON CONDUCTOR	0	0	NIH
12:00	6.00	02	MI PETE MARTIN RATHOLE SERVICE AND DRILL 20" HOLE TO 62 FT, HIT FRESH WATER FLOW. WAITED ON A TRUCK LOAD OF MUD. THEN DRILLED AHEAD TO 100 FT.	0	100	NIH
18:00	12.00	24	SDFN	100	100	NIH
Total: 24.00						

Daily Summary

Activity Date :	6/8/2006	Days From Spud :	0	Current Depth :	135 Ft	24 Hr. Footage Made :	35 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.00	24	SDFN	100	100	NIH
8:00	9.00	02	drill 20" hole to 135 ft AND RUN 135 FT OF 14" CONDUCTOR CASING	100	135	NIH
17:00	4.00	12	BIG 4 CEMENTERS AND PUMP 625 SX OF 2% CACL 1/4# FLOWCELE. CEMENT TO SURFACE.	135	135	NIH
Total: 15.00						

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Well Name:BUCK CAMP 11-22-14-36

Field Name:	Utah Wildcat	S/T/R:	36/11S/22E	County,State:	UINTAH, UT
Operator:	Enduring Resources, LLC	Location Desc:	SWSW 36-11S-22E	District:	Northern

Daily Summary

Activity Date :	6/9/2006	Days From Spud :	0	Current Depth :	1040 Ft	24 Hr. Footage Made :	905 Ft
Rig Company :		Rig Name:		Formation :		Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	24	WAITING ON SURFACE CASING	135	135	NIH
10:00	20.00	02	MI BILL JR RATHOLE SERVICE AND DRILL 12 1/4" TO 1040 FT. ARTESIAN FRESH WATER AT 760 FT.	135	1040	NIH
Total: 24.00						

Daily Summary

Activity Date :	6/10/2006	Days From Spud :	0	Current Depth :	1040 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :		Rig Name:		Formation :		Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	24.00	02	DRILLING 12 1/4" HOLE TO 2010 FT. Note: HIT ANOTHER WATER FLOW AT 1780 FT. Could not tell if it was Trona water due to the high volume of water from above.	1040	1040	NIH
Total: 24.00						

Daily Summary

Activity Date :	6/11/2006	Days From Spud :	0	Current Depth :	2100 Ft	24 Hr. Footage Made :	1060 Ft
Rig Company :		Rig Name:		Formation :		Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	12.00	02	DRILLING 12 1/4" HOLE TO 2100 FT. NOTE: THE WATER FLOW AT 1780 APPEARS TO BE TRONA. STILL HAVE A CONSTANT WATER FLOW AT SURFACE ESTIMATED 10 GAL. PER MINUTE.	1040	2100	NIH
18:00	10.00	12	RAN 50 JTS OF 8 5/8" 32# J55 SURFACE CASING TO 2057 FT. CEMENT GUIDE SHOE, FLOAT COLLAR, 8 CENTRALIZERS AND 2 CEMENT BASKETS AT 200 AND 400FT FROM SURFACE. BIG 4 CEMENTERS PUMPED 230 SX LEAD, 225 SX TAIL, AND 2 TOP JOBS OF 225 SX. CEMENT TO SURFACE AND THE WATER FLOW HAS STOPPED.	2100	2100	NIH
Total: 22.00						

Daily Summary

Activity Date :	6/14/2006	Days From Spud :	0	Current Depth :	2057 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Ensign	Rig Name:	Ensign 79	Formation :	Green River	Weather:	

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	16.00	01	Rig-Up Ensign #79	2057	2057	NIH
22:00	4.00	15	Tested BOPs as follows: Upper Kelly Cock, Lower Kelly Cock, Safety Valve, Inside & Outside Valve, Pipe and Blind Rams, Kill & Choke Lines, Super Choke and Manifold 10 minutes @ 3000/250 psi - Annular 10 minutes @ 250/1500 psi - 8 5/8" Casing 30 min @ 1500 psi	2057	2057	NIH
2:00	4.00	21	Drill Rathole and Mousehole with 12 1/4" RR bit	2057	2057	NIH
Total: 24.00						

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2100		8.33	8.33	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	0												

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Well Name:BUCK CAMP 11-22-14-36

Field Name:	Utah Wildcat	S/T/R:	36/11S/22E	County, State:	UINTAH, UT
Operator:	Enduring Resources, LLC	Location Desc:	SWSW 36-11S-22E	District:	Northern

Daily Summary

Activity Date :	6/15/2006	Days From Spud :	0	Current Depth :	2063 Ft	24 Hr. Footage Made :	12 Ft
Rig Company :	Ensign			Rig Name:	Ensign 79		
Formation :	Green River			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.00	21	Drill Rathole and Mousehole	2057	2057	NIH
12:00	6.00	22	Rig up floor - Safety Meeting - PU BHA	2057	2057	1
18:00	2.00	06	TOOH w BHA to install wear bushing	2057	2057	1
20:00	1.00	23	Intall wear bushing	2057	2057	1
21:00	4.50	21	Safety Meeting - PU Drill Pipe - Tag cement @ 1980	2057	2057	1
1:30	4.00	22	Kelly Up/Install Rotating Head/Drill Out Cement, Float Collar, Guide Shoe & 5 foot of new formation	2057	2063	1
5:30	0.50	23	Integrity Test @ 2063 - Held 200 psi (10 lb Equiv MWT) for 10 minutes with no pressure loss	2057	2063	1
Total:		24.00				

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2057		8.33	8.33	0	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	0												

Daily Summary

Activity Date :	6/16/2006	Days From Spud :	0	Current Depth :	3725 Ft	24 Hr. Footage Made :	1662 Ft
Rig Company :	Ensign			Rig Name:	Ensign 79		
Formation :	Wasatch			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	02	Drilling Ahead F/2063' T/2172 (109' @ 109 ft/hr) WOB-6K, RPM-110	2063	2172	1
7:00	1.00	10	Single Shot Deviation Survey @ 2092' 1/4 deg S80W	2172	2172	1
8:00	6.50	02	Drilling Ahead F/2172' T/2699 (527' @ 81.1 ft/hr) WOB-8K, RPM-110	2172	2699	1
14:30	0.50	10	Deviation Survey @ 2619' 0.36 deg	2699	2699	1
15:00	1.50	02	Drilling Ahead F/2699' T/2854' (155' @ 103.3 ft/hr) WOB-8K, RPM-110	2699	2854	1
16:30	0.50	07	Lubricate Rig	2854	2854	1
17:00	5.00	02	Drilling Ahead F/2854' T/3228' (374' @ 74.8 ft/hr) WOB-8K, RPM-110	2854	3228	1
22:00	0.50	10	Deviation Survey @ 3148' Dev 0.90	3228	3228	1
22:30	7.50	02	Drilling Ahead F/3228 T/3725 (497' @ 66.3ft/hr) WOB-9K, RPM-110	3228	3725	1
Total:		24.00				

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2063	8:00	8.33	8.33	28	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	10.50	0.00	0.00	0.00	1500	80	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	0.0	72		Start light mud-up @ 3000' (18:30 - 06/15/06) Rig check @ 5:45 am MWT- 8.5, Vis - 34										

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Well Name:BUCK CAMP 11-22-14-36

Field Name:	Utah Wildcat	S/T/R:	36/11S/22E	County,State:	UINTAH, UT
Operator:	Enduring Resources, LLC	Location Desc:	SWSW 36-11S-22E	District:	Northern

Daily Summary

Activity Date :	6/17/2006	Days From Spud :	0	Current Depth :	4833 Ft	24 Hr. Footage Made :	1108 Ft
Rig Company :	Ensign			Rig Name:	Ensign 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	02	Drilling Ahead F/3725' T/3755' (30' @ 30 ft/hr) WOB-9K, RPM-115	3725	3755	1
7:00	0.50	10	Deviation Survey @ 3675 0.89 deg	3755	3755	1
7:30	6.50	02	Drilling Ahead F/3755' T/4284' (529' @ 81.4 ft/hr) WOB-9K,WOB-115	3755	4284	1
14:00	0.50	07	Lubricate Rig	4284	4284	1
14:30	0.50	10	Deviation Survey @ 4204 1.0 deg	4284	4284	1
15:00	9.50	02	Drilling Ahead F/4284 T/4782 (498' @ 52.4 ft/hr) WOB-10K, RPM-110	4284	4782	1
0:30	0.50	10	Deviation Survey @ 4702' 0.69 deg NOTE: Gained 90 bbls - water flow	4782	4782	1
1:00	4.00	02	Drilling Ahead F/4782' T/4826' (44' @ 11 ft/hr) WOB-14K, RPM-100	4782	4826	1
5:00	0.50	21	Work tight spot @ 4826'	4826	4826	1
5:30	0.50	02	Drilling Ahead F/4826 T/4833 (7' @ 14 ft/hr) WOB-8K, RPM-110	4826	4833	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
3847	9:00	8.60	8.60	36	12	3	1/2/0	4.8	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.30	0.30	0.10	0.50	1400	240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	8.8	65		Rig Check @ 05:30 AM: MWT- 9.2, VIS - 36										

Daily Summary

Activity Date :	6/18/2006	Days From Spud :	0	Current Depth :	4969 Ft	24 Hr. Footage Made :	136 Ft
Rig Company :	Ensign			Rig Name:	Ensign 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	14.50	02	Drilling Ahead F/4833' T/4934 (101' @ 7.0 ft/hr) WOB-7K, RPM-110	4833	4934	1
20:30	0.50	21	Work tight hole @ 4934	4934	4934	1
21:00	4.00	02	Drilling Ahead F/4934' T/4969 (35' @ 8.8 ft/hr) WOB-10K, RPM-110	4934	4969	1
1:00	1.50	05	Circ & Cond mud for bit trip - Pump high vis: sweep to clean hole	4969	4969	1
2:30	2.00	06	TOOH - No tight spots	4969	4969	1
4:30	1.50	06	Pull rotating rubber and TOOH with BHA	4969	4969	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4917	15:00	9.20	9.10	41	15	20	4/9/0	10.8	0.0	0	0.00	0.0%	0.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.70	0.40	0.20	0.60	1400	320	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	9.6	70		Rig Check just before TOOH @ 2:30 AM: 9.6 MWT, 46 VIS										

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2/1/2007

Well Name:BUCK CAMP 11-22-14-36

Field Name:	Utah Wildcat	S/T/R:	36/11S/22E	County, State:	UINTAH, UT
Operator:	Enduring Resources, LLC	Location Desc:	SWSW 36-11S-22E	District:	Northern

Daily Summary

Activity Date :	6/19/2006	Days From Spud :	0	Current Depth :	5747 Ft	24 Hr. Footage Made :	778 Ft
Rig Company :	Ensign			Rig Name:	Ensign 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	5.00	06	Trip in hole with Bit #2	4969	4969	2
11:00	1.00	03	Kelly up, Wash 75 ft and ream last 15 ft of out of gauge hole	4969	4969	2
12:00	5.50	02	Drilling Ahead F/4969' T/5250' (281 @ 51.1 ft/hr) WOB-10K, RPM-100	4969	5280	2
17:30	0.50	07	Lubricate Rig	5280	5280	2
18:00	7.00	02	Drilling Ahead F/5280' T/5529 (249' @35.6 ft/hr) WOB-11K, RPM-100	5280	5529	2
1:00	0.50	10	Deviation Survey @ 5449' 0.83 deg	5529	5529	2
1:30	4.50	02	Drilling Ahead F5529' T/5747' (218' @ 48.4 ft/hr) WOB-11K RPM-95	5529	5747	2
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4969	9:30	9.50	9.50	41	12	21	4/7/0	11.2	0.0	0	0.00	6.3%	93.8%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	8.60	0.00	0.00	0.20	1400	325	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.0	70		Rig Check @ 5:45 AM: MWT - 9.9, Vis - 46										

Daily Summary

Activity Date :	6/20/2006	Days From Spud :	0	Current Depth :	6525 Ft	24 Hr. Footage Made :	778 Ft
Rig Company :	Ensign			Rig Name:	Ensign 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	10.00	02	Drilling Ahead F/5747' T/6151' (404' @ 40.4 ft/hr) WOB-12K, RPM-110	5747	6151	2
16:00	0.50	07	Lubricate Rig	6151	6151	2
16:30	13.50	02	Drilling Ahead F/6151T/6525 (374' @ 27.7 ft/hr) WOB-7K, RPM-110	6151	6525	2
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5849	10:00	10.00	10.00	47	15	20	4/7/0	8.8	0.0	0	0.00	10.0%	90.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.30	0.30	0.10	0.50	14000	325	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.4	100		Rig Check @ 5:30 am: MWT-10.3, Vis-48										

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2/1/2007

DIV. OF OIL, GAS & MINING

Well Name:BUCK CAMP 11-22-14-36

CONFIDENTIAL

Field Name:	Utah Wildcat	S/T/R:	36/11S/22E	County, State:	Utah
Operator:	Enduring Resources, LLC	Location Desc:	SWSW 36-11S-22E	District:	Northern

Daily Summary

Activity Date :	6/21/2006	Days From Spud :	0	Current Depth :	6690 Ft	24 Hr. Footage Made :	290 Ft
Rig Company :	Ensign			Rig Name:	Ensign 79		
Formation :	Mesaverde			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	8.00	02	Drilling Ahead F/6525 T/6650 (125' @ 15.6 ft/hr) WOB-7K, RPM-115	6525	6650	2
14:00	0.50	07	Lubricate Rig	6525	6525	2
14:30	2.50	02	Drilling Ahead F/6650 T/6690 (40' @ 16 ft/hr) WOB-7K, RPM-110	6525	6690	2
17:00	1.50	05	Circ for short trip - Circ sweep to clean hole and pump pill	6690	6690	2
18:30	4.00	06	Short trip 51 stands to csg shoe @ 2057' - No tight spots - 12' of soft fill	6690	6690	2
22:30	1.50	05	Circ & cond mud for long trip - Build pill	6690	6690	2
0:00	3.50	06	Drop totco survey tool - POOH to Log. Miss. Fire on Survey. Strap out. Strap T.D. = 6,687.41'	6690	6690	2
3:30	0.50	21	L/D Monel. Function test Blind Rams.	6690	6690	2
4:00	2.00	11	Safety Meeting w/ Schlumberger. G.I.H. w/ Logging Tools.	6690	6690	2
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6577	8:00	10.30	10.30	48	20	25	5/9/0	8.0	0.0	0	0.00	10.0%	90.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.80	0.50	0.30	0.70	1400	325	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.8	100												

Daily Summary

Activity Date :	6/22/2006	Days From Spud :	0	Current Depth :	6690 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Ensign			Rig Name:	Ensign 79		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	11.00	11	Schlumberger ELMD T.D. = 6,685'. Log w/ Triple Combo. Tools quit working. P.O.O.H., L/D Tools. P/U new Tools. G.I.H. Ran Triple Combo Log F/ 6,685' to Shoe @ 2,071'. R/D Schlumberger.	6690	6690	2
17:00	4.50	06	Trip in hole. Break Circulation @ 2,000' & 3,800'. Continue in hole to 6,600'	6690	6690	3
21:30	0.50	03	Wash 90' to Bottom (6' Fill)	6690	6690	3
22:00	1.50	05	Circulate & Condition @ 6,690'. Mud Wt. 10.5 ppg in & out.	6690	6690	3
23:30	0.50	10	Wireline Survey @ 6,660' = 1.45 degrees	6690	6690	3
0:00	3.00	05	Circulate & W.O. Lay Down Machine	6690	6690	3
3:00	3.00	06	RU LD Machine, LD DP	6690	6690	3
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6690	8:00	10.30	10.30	48	20	25	5/9/0	8.0	0.0	0	0.00	10.0%	90.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.80	0.50	0.30	0.70	1400	325	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.8	100												

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DIV. OF OIL, GAS & MINING

Well Name: BUCK CAMP 11-22-14-36

Field Name:	Utah Wildcat	S/T/R:	36/11S/22E	County, State:	UINTAH, UT
Operator:	Enduring Resources, LLC	Location Desc:	SWSW 36-11S-22E	District:	Northern

Daily Summary

Activity Date :	6/23/2006	Days From Spud :	0	Current Depth :	6690 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Ensign		Rig Name:	Ensign 79			
Formation :	Mesaverde		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	06	LD DP, Break Kelly, LD BHA	6690	6690	3
10:00	9.00	12	RU Casing Crew, Run 4 1/2" Production Casing. Wash 6' to bottom. Float Shoe @6683.84' RKB, Float Collar @ 6664.54' RKB. Install Casing Hanger and position 1.5' above Wellhead, RD Casing Crew and PU Machine	6690	6690	NIH
19:00	3.50	12	RU Halliburton, PJSM, pressure test lines to 4000 psi. Cement w/32 sx Type V Lead Slurry + 16% Gel + 1% EX-1 + 10 #/sx Gilsonite + 0.25 #/sx Flocele + 0.2% HR-7 + 3% Salt + 3 #/sx Granulite (21.7 Bbl, Yield-3.81 cu ft/sx, We ght-11.0 ppg), follow w/1110 sx 50/50 Poz Tail Slurry + 2% Gel + 0.6% Halad 322 + 0.2% Super CBL + 5% Salt + 0.25 #/sx Flocele (241.2 Bbl, Yield-1.22 cu ft/sx, Weight-14.3 ppg). Displace w/103 Bbl, Bump Plug w/2250 psi (400 psi over late pumping pressure), Check Floats- Held OK, bled back 1 bbl. Good Cement lift, good Circulation throughout job. Set Casing Hanger in Wellhead. RD Halliburton	6690	6690	NIH
22:30	3.50	01	Clean Pits. Release Rig @ 04:00 hrs 6/23/06	6690	6690	NIH
2:00	4.00	01	Continue RDRT	6690	6690	NIH
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6690	8:00	10.30	10.30	48	20	25	5/9/0	8.0	0.0	0	0.00	10.0%	90.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	9.80	0.50	0.30	0.70	1400	325	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	UFT	Remarks										
0	0.0	10.8	100												

Formation

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments

Casing

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
6/7/2006	135	0	1. Conductor	14	0			20	135
Stage: 1, Lead, 0, 625, 2% CACL2 1/4# FLOWCELE, Class G, 1.18, 15.8									
6/11/2006	2057	50	3. Surface	8.625	32	J-55		12.25	2100
Stage: 1, Lead, 0, 230, 16% GEL 1/4# FLOWCELE, Class G, 3.34, 11.1									
Stage: 1, Tail, 0, 225, 2% CACL2 1/4# FLOWCELE, Class G, 1.15, 15.8									
Stage: 1, , 0, 100, 3% CACL2 1/4# FLOWCELE, Class G, 1.15, 15.8									
Stage: 1, , 0, 125, 3% CACL2 1/4# FLOWCELE, Class G, 1.15, 15.8									
6/22/2006	6683.84	2	5. Production	4.5	11.6	N-80	0	7.875	6700
Stage: 1, Lead, 0, 32, + 16% Gel + 1% EX-1 + 10 #/sx Gilsonite + 0.25 #/sx Flocele + 0.2% HR-7 + 3% Salt + 3 #/sx Granulite, Type V, 3.81, 11									
Stage: 1, Tail, 0, 1110, + 2% Gel + 0.6% Halad-322 + 0.2% Super CBL + 5% Salt + 0.25 #/sx Flocele, Pozmix, 1.22, 14.3									

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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-47077
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: Buck Camp 11-22-14-36	
2. NAME OF OPERATOR: Enduring Resources, LLC		9. API NUMBER: 4304737836
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202	PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT: Undesignated
4. LOCATION OF WELL FOOTAGES AT SURFACE: 851' FSL - 475' FWL		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 36 11S 22E S		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>10/1/2007</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Convert well to EPA approved WDW.</u>
	<input checked="" 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.

1. This well is not producing in paying amounts.
2. This well is located in ("Indian Country") on SITLA lands.
3. Have requested and received a "pending" EPA Water Disposal Permit #UT2106-07150 (attached).
4. Have a water disposal agreement and special use permit with SITLA pending.

Request approval to convert well to a water disposal well:

- a. Subject to the conditions set forth in the (when approved) attached Draft EPA Water Disposal Permit #UT2106-07150, and
- b. Subject to an agreement being acquired and finalized with SITLA to dispose water on SITLA lands.

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

Date: 10-4-07
By: [Signature]

COPY SENT TO OPERATOR
Date: 10-5-07
Initials: Rm

NAME (PLEASE PRINT) Alvin R. (Al) Arlian TITLE Landman - Regulatory Specialist
SIGNATURE [Signature] DATE 10/1/2007

(This space for State use only)

RECEIVED
OCT 03 2007
DIV. OF OIL, GAS & MINING

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-47077

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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 _____

8. WELL NAME and NUMBER:
Buck Camp 11-22-14-36

2. NAME OF OPERATOR:
Enduring Resources, LLC

9. API NUMBER:
4304737836

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

PHONE NUMBER:
(303) 350-5114

10. FIELD AND POOL, OR WILDCAT:
Undesignated

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **851' FSL - 475' FWL**

COUNTY: **Uintah**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SWSW 36 11S 22E S**

STATE: **UTAH**

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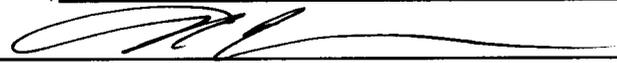
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- Subject to an agreement being acquired and finalized with SITLA to dispose water on SITLA lands.

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

TITLE Landman - Regulatory Specialist
DATE 10/1/2007

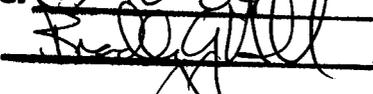
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**Accepted by the
Utah Division of
Oil, Gas and Mining**

COPY SENT TO OPERATOR
Date: 10/1/07
Initials: CRD

**RECEIVED
OCT 10 2007**

(5/2000)

Date: 10-10-07
By: 

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47077
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: Buck Camp 11-22-14-36
2. NAME OF OPERATOR: Enduring Resources, LLC		9. API NUMBER: 4304737836
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QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 36 11S 22E S		STATE: UTAH

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<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/5/2007	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is a sundry notice filed a few days ago with on a draft copy of the EPA permit attached.

Attached is a fully executed copy of EPA Water Disposal Permit #UT2106-07150.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE <u><i>Al Arlian</i></u>	DATE <u>10/5/2007</u>

(This space for State use only)

RECEIVED
OCT 10 2007

DIV. OF OIL, GAS & MINING



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

Ref: 8P-W-GW

OCT - 1 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Alex Campbell
Enduring Resources, LLC
475 17th Street Suite 1500
Denver, CO 80202

Re: FINAL UIC Permit
EPA UIC Permit UT2 1062-07150
Well: Buck Camp 11-22-14-36 WD
Uintah County, UT

Dear Mr. Campbell:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Buck Camp 11-22-14-36 WD injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on SEP 21 2007.
No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

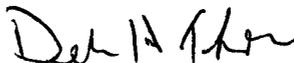
Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C Subpart 1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit.

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

RECEIVED
OCT 10 2007
DIV. OF OIL, GAS & MINING

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Patricia Pfeiffer of my staff at (303) 312-6271, or toll-free at (800) 227-8917, ext. 312-6271.

Sincerely,



for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis
Form 7520-7 Application to Transfer Permit
Form 7520-11 Monitoring Report
Form 7520-14 Plugging Plan
Form 7520-12 Well Rework Record
Groundwater Section Guidance 34
Groundwater Section Guidance 35
Groundwater Section Guidance 37
Groundwater Section Guidance 39

cc: Curtis Cesspooch, Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Ronald Groves, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Irene Cuch, Vice-Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Steven Cesspooch, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe



Phillip Chimbraus, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Francis Poowegup, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency

Shawn Chapoose, Director
Land Use Department
Ute Indian Tribe

Gil Hunt
Technical Services Manager
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Lynn Becker, Director
Energy and Minerals Department
Ute Indian Tribe



Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Enduring Resources LLC
475 17th Street, Suite 1500
Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Buck Camp 11-22-14-36 WD
851' FSL 475' FWL, SWSW S36, T11S, R22E
Uintah County, UT

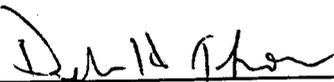
EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §§144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: OCT 5 2007

Effective Date OCT 5 2007



Stephen S. Tuber

Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.



**UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT**

PREPARED: September 2007

Permit No. UT21062-07150

Class II Salt Water Disposal Well

**Buck Camp 11-22-14-36 WD
Uintah County, UT**

Issued To

Enduring Resources LLC

475 17th Street, Suite 1500

Denver, CO 80202

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PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

The latest version of the "EPA Region 6 UIC Pressure Falloff Testing Guideline" shall be used as a guideline for designing the required Pressure Falloff Test. This guideline often refers to hazardous waste wells and regulatory terms associated with them, but the pressure falloff test design, test methods, and test interpretation guidelines are all very appropriate to Class II wells.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and

(b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

If the injection zone is shown to contain fluids of less than 10,000 mg/L total dissolved solids (TDS), then an aquifer exemption decision will need to be made prior to approval for injection. If an aquifer exemption is approved, the cumulative injected fluid volume will need to be monitored to ensure that the injectate is not moving out of the authorized 1/4 mile radius.

5. Injection Fluid Limitation.

Injected fluids are limited to those which are brought to the surface in connection with conventional oil or natural gas production and may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). The well also may be used to inject approved Class II wastes brought to the surface such as drilling fluids and spent well completion, treatment and stimulation fluids. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved. This well is NOT approved for commercial brine or other fluid disposal operation.

Fluid sources are listed in Appendix C of the Permit No. UT21062-07150.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.
- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The Permittee shall retain records at the location designated in APPENDIX D.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D. The report of fluids injected during the year must identify each new fluid source by well name and location, and the field name or facility name.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abandonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or

- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) **Planned changes.** The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) **Anticipated noncompliance.** The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) **Monitoring Reports.** Monitoring results shall be reported at the intervals specified in this Permit.
- (d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) **Twenty-four hour reporting.** The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

DRILLING OPERATIONS CONVERSION OPERATIONS

The well will be killed with produced formation water. The 2-3/8" tubing string will be pulled from the well.

A bridge plug will be set at +/-4727 and a 20' cement plug will be dump bailed on top of the bridge plug. This will abandon the existing perforations at 6150-52', 6130-32' & 6050-52'.

A bridge plug will be set at +/-3450 and a 20' cement plug will be dump bailed on top of the bridge plug.

The casing and bridge plug will be pressure tested to 1000 psi.

The proposed injection intervals in the upper Wasatch will be perforated from 3044-53', 3095-3105', 3113-72', 3183-91' & 3310-38' with 2 shots per foot, 180 degree phase.

An injection packer will be set at +/- 3000'. 2-3/8" 4.7# J-55 injection tubing will be run in the hole to the top of the packer. The hole will be displaced with fresh water annulus fluid containing corrosion inhibitors and oxygen scavengers. The tubing will be spaced out and latched onto the packer. The wellhead will be installed and the perforations will be broken down to insure communication to the injection intervals.

Plug placement will be verified by tagging the top of the plug after the cement has had adequate time to set. If a bridge plug is used at the base of the cement plug, tagging the top of the plug is not necessary.

PROPOSED CONVERSION TO WATER DISPOSAL WELL

WELL NAME: BUCK CAMP 11-22-14-36

DATE: 15-Mar-07

LOCATION: SWSW SECTION 36-T11S-R22E, 861' FSL & 475' FWL, Uintah Cty, Utah
 Lat 39.812208, Long -109.411289

API #: 43 047 37836

SPUD DATE: 6/15/2006

RIG RELEASED: 6/23/2006

KB ELEV: 5,411 Ft

GL ELEV: 5,395 Ft

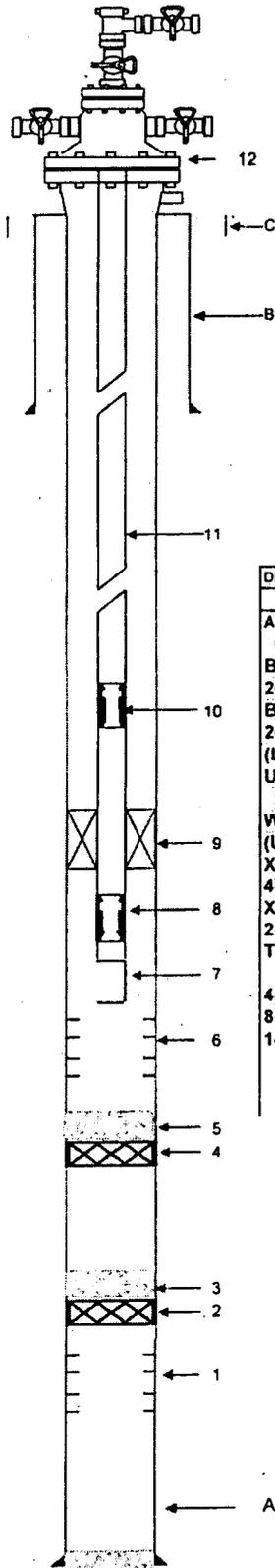
TD: 6,690 Ft

PBTD: 5,995 Ft

TUBULARS:	SIZE Inch	WEIGHT #/ft	GRADE	THREAD	DEPTH	OTHER
Conductor:	14				135	
SURFACE:	8-5/8	32	J-55	ST&C	2,057	
PRODUCTION:	4-1/2	11.6	M-80	LT&C	6,684	
TUBING:	2-3/8	4.7	J-55	EUE	3,000	

CURRENT ZONE: ABANDON MESAVERDE PERFS 6050'-6152' GROSS INTERVAL

WASATCH INJECTION PERFS 3044'-3338' GROSS INTERVAL



DESCRIPTION (starting at the bottom)	LENGTH (ft)	DEPTH (ft)	#
BOTTOM OF TOOL STRING		3,005	
Abandoned Mesaverde Perforations 6150-52', 6130-32' & 6050-52'			1
Bridge Plug set at +/- 4,724' at top of Mesaverde			2
20' Cement Plug			3
Bridge Plug set at +/- 3,450'			4
20' Cement Plug			5
(Lower confining bed 3338-3700)			
Upper Wasatch Injection Perforations 3044-53', 3095-3105', 3113-72', 3183-91' & 3310-38'			6
Wire Line Re-Entry Guide			7
(Upper confining bed 2673-3044)			
XN Nipple			8
4-1/2" Packer set at +/- 3,000'			9
X Nipple			10
2-3/8" 4.7 #/ft J-55 EUE tubing			11
Tubing Hanger & Wellhead			12
4-1/2" 11.6#/ft M-80 LT&C		6,684	A
8-5/8" 32# J-55 ST&C		2,057	B
14" Line Pipe		135	C

DIAGRAM NOT TO SCALE

Buck Camp conversion revised.BMP

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

WELL NAME: Buck Camp 11-22-14-36 WD	
TYPE OF LOG	DATE DUE
Injection Profile Survey	Prior to injection
TEMP	The test will be performed 1 year after injection and at 3 years after injection. If confinement is not confirmed, then EPA may consider limiting injection rates of prohibiting injection, if necessary to protect underground sources of drinking water.

Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

The latest version of the "EPA Region 6 UIC Pressure Falloff Testing Guideline" shall be used as a guideline for designing the required Pressure Falloff Test. This guideline often refers to hazardous waste wells and regulatory terms associated with them, but the pressure falloff test design, test methods, and test interpretation guidelines are all very appropriate to Class II wells.

WELL NAME: Buck Camp 11-22-14-36 WD	
TYPE OF TEST	DATE DUE
Pressure Fall-Off Test	The test will be performed 1 year after injection and at 3 years after injection. If confinement is not confirmed, then EPA may consider limiting injection rates of prohibiting injection, if necessary to protect underground sources of drinking water.
Injection Zone Water Sample	Prior to injection; swab testing on formation-conductivity to be monitored for consistency prior to sample collection; salinity profile on completion fluids to be submitted
Standard Annulus Pressure	Prior to injection and at least once every 5 years thereafter
Pore Pressure	Prior to injection
Step Rate Test	Within 30 days of injection operations

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
	ZONE 1 (Upper)
Buck Camp 11-22-14-36 WD	855

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

If the injection zone is shown to contain fluids of less than 10,000 mg/L total dissolved solids (TDS), then an aquifer exemption decision will need to be made prior to approval for injection. If an aquifer exemption is approved, the cumulative injected fluid volume limit is 17,225,989 bbl and will need to be monitored to ensure that the injectate is not moving out of the authorized 1/4 mile radius.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE WEEKLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and averaged annulus pressure(s) (psig)
	Each month's averaged injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

Enduring Resources
475 Seventeenth Street, Suite 1500
Denver, CO 80202

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

PLUGGING AND ABANDONMENT REQUIREMENTS

The operator will file and obtain approval for a detailed P&A plan for approval prior to initiating any P&A operations. Typical P&A operations may be as follows:

1. Set wireline bridge plug above the injection interval at approximately 3000 ft. Pressure test the casing string and the bridge plug. Dump 20' cement on top of the bridge plug, abandoning the injection zone perforations.
2. Go in hole with tubing and pump four 100 ft cement plugs from 2921' to 2821' across USDW at 2871', from 2718' to 2618' across the Wasatch Top at 2668', from 2107' to 2007' across surface casing at 2057' and from 100' to surface. Cement will be Class G with additives. Each 100' plug will be approximately 8 sacks of cement.
3. Remove wellhead. Install plug and abandon marker. Remove all equipment and reclaim location.

Plug placement will be verified by tagging the top of the plug after the cement has had adequate time to set. If a bridge plug is used at the base of the cement plug, tagging the top of the plug is not necessary.

A plugging procedure will be submitted and approval obtained with the appropriate regulatory agencies before any plugging operations are conducted.

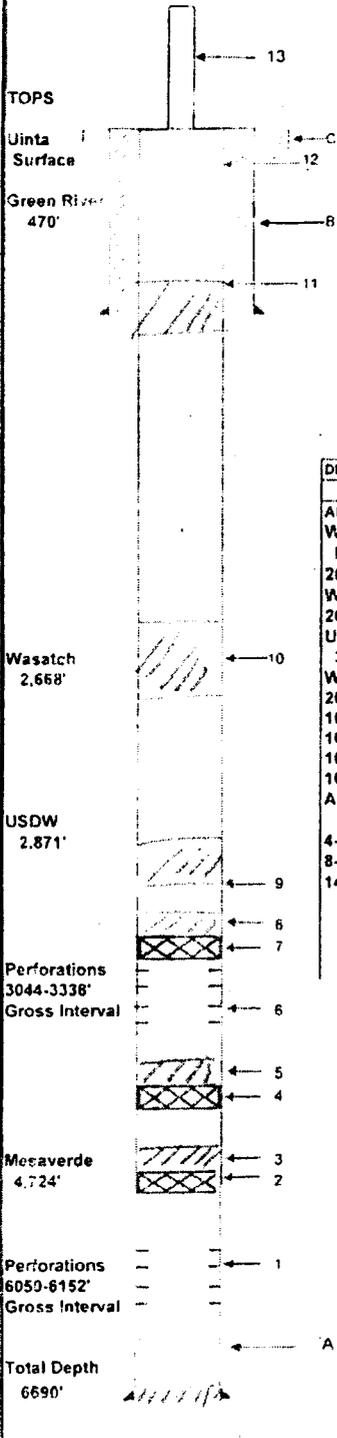
PROPOSED PLUG AND ABANDON SCHEMATIC

WELL NAME: BUCK CAMP 11-22-14-36 DATE: 15-Mar-07
 LOCATION: SSW SECTION 36-T11S-R22E, 851' FSL & 475' FWL, UINTAH CTY, UTAH
 Lat 39.812208, Long -109.411289

API #: 43 047 37836
 SPUD DATE: 6/15/2006
 RIG RELEASED: 6/23/2006

KB ELEV: 5,411 Ft
 GL ELEV: 5,395 Ft

TD: 6,690 Ft PBTD: Surface Ft



TUBULARS:	SIZE Inch	WEIGHT #/ft	GRADE	THREAD	DEPTH	OTHER
Conductor:	14				135	
SURFACE:	8-5/8	32	J-55	ST&C	2,057	
PRODUCTION:	4-1/2	11.6	M-80	LT&C	6,684	
TUBING:						

CURRENT ZONE: ABANDON MESAVERDE PERFS 6050'-6152' GROSS INTERVAL
 ABANDON WASATCH INJECTION PERFS 3044'-3338' GROSS INTERVAL

DESCRIPTION (starting at the bottom)	LENGTH (ft)	DEPTH (ft)	#
BOTTOM OF TOOL STRING		4,500	
Abandoned Mesaverde Perforations 6150-52'			1
Wire line set bridge plug set at +/- 4,724' at top of Mesaverde			2
20' cement plug			3
Wire line set bridge plug set at +/- 3,450'			4
20' cement plug			5
Upper Wasatch Injection Perforations 3044-53', 3095-3105', 3113-72', 3163-91' & 3310-38'			6
Wire line set bridge plug set at +/- 3,000'			7
20' cement plug dumped with wire line bailer			8
100' cement plug from 2921' to 2821'			9
100' cement plug from 2718' to 2618'			10
100' cement plug from 807' to 207' <i>2007' to 2107'</i>			11
100' cement plug from 100' to surface			12
Abandoned Well marker			13
4-1/2" 11.6#/ft M-80 LT&C	6,684		A
8-5/8" 32# J-55 ST&C	2,057		B
14" Line Pipe	135		C

DIAGRAM NOT TO SCALE

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action is deemed necessary for this project.

STATEMENT OF BASIS

**ENDURING RESOURCES LLC
BUCK CAMP 11-22-14-36 WD
UINTAH COUNTY, UT**

EPA PERMIT NO. UT21062-07150

CONTACT: Patricia Pfeiffer
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
1595 Wynkoop Street
Denver, Colorado 80202-1129
Telephone: 1-800-227-8917 ext. 312-6271

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Enduring Resources LLC
475 17th Street, Suite 1500
Denver, CO 80202

on

May 23, 2007

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

In the original application, Enduring Resources proposed to drill and complete a Class II well. Enduring Resources made an economic decision, and requested modification of their original Permit to instead allow use of a pre-existing wellbore to be converted into an injection well. The pre-existing wellbore is located approximately 1 mile to the south of the originally proposed drill site.

The injection well will be used for the disposal of water produced from natural gas wells in the Rock House Field area, Uinta County, Utah. The injection fluids currently proposed for disposal will be produced water from the Wasatch and Mesaverde Formations.

The well is located within the exterior boundaries of the Uintah & Ouray Indian Reservation. Notice of intent of the EPA proposed permit decision will be published in the local newspaper and notices will be sent to the U.S. Bureau of Land Management-Vernal Office, Bureau of Indian Affairs, Ute Indian Tribe, and State of Utah-Natural Resources Division:

Buck Camp 11-22-14-36 WD
851' FSL 475' FWL, SWSW S36, T11S, R22E
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

**TABLE 1.1
WELL STATUS / DATE OF OPERATION**

CONVERSION WELLS		
Well Name	Well Status	Date of Operation
Buck Camp 11-22-14-36 WD	Conversion	N/A

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

The Uinta Basin is a major sedimentary basin of the western-central Rocky Mountain province. The basin is both a structural and a topographic basin located in northeastern Utah and northwest Colorado. The surface terrain is high mountain desert in the central part of the basin, and elevations vary from approximately 5,600 feet to over 11,000 feet above sea level. The topographic basin extends about 200 miles west to east and 173 miles north to south and has an area of about 10,000 square miles. It is strongly asymmetric, bounded by the Uinta Mountain uplift on the north and by the Wasatch Mountain uplift and the eastern faulted margin of the Wasatch Plateau on the west. Dip on the southwest and southeast flanks range from a few degrees to up to 15°. The north flank is highly complex, with major faulting and steep to overturned beds. The basin is considered to be a major producer of gas for the United States. The greatest portion of the energy resources are hydrocarbons, in the forms of coal, oil and gas, bituminous sandstone and limestone, and some gilsonite. The Uintah & Ouray Indian Reservation comprises just over 4 million acres of this area, reaching from the Utah-Colorado border west to the Wasatch Mountain Range.

Groundwater hydrology of the Uinta Basin is controlled primarily by the geologic structure of the region. Recharge of groundwater is greatest near the northern edge of the basin. On the south flank of the basin, most recharge is in the areas of highest altitude where precipitation is greatest. However, because of the low dip of the south flank, few formations except the Green River Formation are exposed to recharge. The major direction of ground water flow in this portion of the Uinta Basin is predominantly toward the White River. The White River is located approximately 8 miles to the north of the proposed well location. Intermittent drainages near the well feed into the White River. Bitter Creek is located within 500 feet of the proposed well location.

During the Eocene time, large amounts of sediment from adjacent higher areas were deposited in various lacustrine and fluvial environments in the basin. These sediments total more than 15,000 feet thick in the center of the basin and contain important mineral resources. During the Sevier/Laramide mountain building episode, deformation (thrust faulting and downwarping) occurred in the basin. The basin had several lakes that accumulated large amounts of organic material, and later heat and pressure of burial changed the organic-rich sediment into the thick oil shale of the middle and upper Green River Formation. The geologic formations of interest for this well, in descending order, are the Uinta and Green River Formations and the Wasatch Group.

The Uinta Formation is exposed at the surface in the area of the proposed well. The Uinta is comprised of thinly bedded calcareous shale, siltstone, and fine-grained sandstone. Hydraulic conductivity of the Uinta may be greatly enhanced by naturally occurring fractures.

The Green River Formation is comprised of sandstones, limestone and shale beds that were deposited along the edges and on the broad level floor of Lake Uinta as it expanded and contracted through time. Deposition in and around Lake Uinta consisted of open to marginal lacustrine sediments that make up the Green River Formation. The cyclic nature of deposition in the southern shore area resulted in numerous stacked deltaic deposits. Distributary mouth bars, distributary channels, and near shore bars are the primary producing sandstone reservoirs in the area (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report, 4/1/99 9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE AC26 98BC15103). Intervals in which porous sandstones occur are comprised of tight sandstone and interbedded shale forming the confining layers to the individual sandstone lenses. The top member of the Green River Formation, the Parachute Creek Member, is exposed at the surface approximately 4 miles from the well location. In some areas

there is complex intertonguing between the sediments of the underlying Wasatch and the Green River Formation. In the eastern portion of the basin, the Green River thins to about 1000 ft as the lower part pinches out. Gilsonite, a naturally occurring solid amorphous asphaltic bitumen originated by solidification of petroleum, occurs in veins that fill the vertical tensional fractures in this area that are rooted in the upper Green River oil shale.

The Wasatch Group, in descending order, is divided into the Colton, Flagstaff, and North Horn Formations. The Flagstaff Formation is not present at the proposed well location. The Colton is described as being primarily sandstone with mudstone (shale) and minor limestone. The sandstone units are characterized by mud chips, mud clasts, and discontinuous finer-grained beds. The Colton displays complex reservoir geometry, and heterogeneity is typical. The North Horn consists of conglomerate, sandstone, siltstone, and lacustrine limestone and shale. The basal unit consists of thin lacustrine shale and lime wackestone overlain by variegated floodplain mudstones and fine-grained fluvial sandstones.

Geologic Setting (TABLE 2.1)

**TABLE 2.1
GEOLOGIC SETTING
Buck Camp 11-22-14-36 WD**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta Formation	0	148	0 - 3,000	calcareous shale, claystone, sandstone, and bentonite beds
Green River Formation	148	2,673	0 - 3,000	greenish-gray shales with interbedded sandstone, marlstone, limestone, oil-shale, and trona (sodium carbonate)
Wasatch Formation	2,673	4,724	3,000 - 35,000	shale and claystone with interbedded conglomerate and sandstone
Mesaverde Formation	4,724	7,343	10,000 - 35,000	interbedded sandstone, siltstone, and shale with minor coal beds

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The Wasatch is the proposed injection zone. EPA has evaluated the capacity of the proposed injection zone to accept fluids, using porosity data and the effective height from the Buck Camp 11-22-14-36 production well. The portion of the Wasatch Formation proposed for injection was calculated to have a cumulative volume capacity of approximately 17,225,989 barrels within the quarter mile area of review.

An Injection Profile Survey, using either a spinner or tracer test, will be required prior to injection. Along with a profile of fluid loss versus depth, these data provide an indication of the absence of

fluid channeling away from the well bore, and also can be used to determine an accurate volume that the formation can receive should an aquifer exemption be necessary.

Formation fluid sampling and analysis of the injection zone will be required prior to injection. Swab testing will be conducted, with conductivity monitored for consistency before the sample is collected. The operator will also provide a salinity profile on the completion fluids.

If the injection zone is shown to contain fluids of less than 10,000 mg/l total dissolved solids (TDS), an aquifer exemption will be required prior to approval for injection.

TABLE 2.2
INJECTION ZONES
Buck Camp 11-22-14-36 WD

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Wasatch Formation	3,044	3,338	3,000 - 35,000	0.730		N/A

* **C - Currently Exempted**
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

Impermeable intervals of the Wasatch are identified as the confining zones that will prevent migration of fluid outside of the injection zone. The following estimated depths are based on the analysis of the porosity, gamma ray, resistivity, and caliper wireline logs for the Buck Camp 11-22-14-36 production well.

1. The upper confining zone, a 371 foot section of shale and claystone, is estimated at between 2673-3044 feet below ground surface.
2. The lower confining zone, a 362 foot section that consists primarily of shale and claystone, is estimated at between 3338-3700 feet below ground surface.

Gilsonite veins in the Uinta Basin vary in width from fractions of an inch to almost 18 feet, and average about 3 to 6 feet. These veins can be vertically continuous for hundreds to approximately 2,000 feet and more. Because there is concern that the fractures associated with these gilsonite veins could act as conduits for the fluid migration out of the proposed injection zone, a pressure falloff test and temperature survey will be required after 1 year and after 3 years of operation to evaluate continuing confinement of injection fluid within the injection zone. If confinement is not confirmed, EPA may consider limiting injection rates or prohibiting injection, if necessary to protect underground sources of drinking water.

TABLE 2.3
CONFINING ZONES
Buck Camp 11-22-14-36 WD

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Wasatch Formation-Upper	primarily shale and claystone	2,673	3,044
Wasatch Formation-Lower	primarily shale and claystone	3,338	3,700

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Based on the Technical Publication No. 92, Utah Department of Natural Resources, the base of USDWs at the proposed well location is found at 2,871 feet below ground surface. However, according to published information, water in the Uinta, Green River, and Wasatch aquifers has been found to range from fresh to briny. Therefore, unless water samples are collected and prove otherwise, these will be considered to be USDWs. The Douglas Creek-Renegade aquifer, consisting of the Douglas Creek Member of the Green River Formation and the Renegade Tongue of the Wasatch Formation, is a basin-wide aquifer underlying the Duchesne River-Uinta aquifer. The Douglas Creek-Renegade aquifer is thick, and has a hydraulic conductivity ranging from 0.05 to 0.25 ft/d in the southeastern part of the Uinta Basin (Holmes and Kimball, 1983).

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
Buck Camp 11-22-14-36 WD

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta Formation	calcareous shale, claystone, sandstone, and bentonite beds	0	148	0 - 3,000
Green River	greenish-gray shales with interbedded sandstone, marlstone, limestone, oil-shale and trona (sodium carbonate); USGS Pub. 92 places base of USDW at 2,871 ft bgs	148	2,673	0 - 3,000
Wasatch Formation	shale and claystone with interbedded conglomerate and sandstone	2,673	4,724	3,000 - 35,000

PART III. Well Construction (40 CFR 146.22)

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

Bitter Creek 1 is located in T11S-R23E-S30, approximately 1 mile away. It is the only plugged and abandoned well in the nearby area. The well was initially plugged in August 1961. In September 1961, the well was re-entered with plugs drilled out to 4758 ft bgs, then re-plugged. The well has casing set at 6804 ft bgs. A temperature survey concluded that the top of cement outside casing is at 4823 ft below ground surface. The engineer for the USGS reviewed the well and declared that "the following wells have been satisfactorily abandoned and approved by his agency."

After reviewing the State of Utah, Division of Water Rights web page, it was determined that Enduring Resources owns the only water well in the AOR. The well is drilled 600 ft below ground surface.

Gilsonite veins are displayed at the surface within 2.5 miles of the proposed well location.

Four production wells, (Buck Camp 12-22-21-2, Buck Camp (2-2) 12-22-31-2, Buck Camp 12-22-42-2, and Buck Camp (4-36) 11-22-11-36) are located within 1 mile of the proposed injection well's location. The open hole log data for all of these wells was reviewed for the presence of both the upper and lower confining zone. All of the wells reviewed had both of the confining zones present.

**TABLE 4.1
AOR AND CORRECTIVE ACTION**

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Buck Camp 11-22-14-36 WSW	Water Source	No	600	0	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

After reviewing the State of Utah, Division of Water Rights web page, it was determined that there are no drinking water wells in the AOR.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

No corrective action is required.

PART V. Well Operation Requirements (40 CFR 146.23)

Enduring Resources will be the sole operator of the proposed Buck Camp 11-22-14-36 WD injection well. To monitor and record injection pressures, each well head will be equipped with a pressure chart that will be read by an approved Enduring Resources employee (pumper) on a weekly basis. Electronic data from the pressure chart will be checked daily for accuracy and compliance with system requirements.

Enduring Resources is requiring truck drivers hauling disposable water to the wells to be pre-qualified and be identified with a truck number and driver number. No driver will be able to enter the site without pre-authorization. No water will be accepted from any industrial process or from fracture fluids, or from any source other than those pre-screened and pre-approved by Enduring Resources and approved by the EPA. Enduring Resource will be maintaining chain of custody documentation.

The Buck Camp 11-22-14-36 WD injection well will be enclosed inside a chain link fence. All fence gates will be locked and keys or entrance codes will only be provided to authorized Enduring Resources employees or contractors.

TABLE 5.1
INJECTION ZONE PRESSURES
Buck Camp 11-22-14-36 WD

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Wasatch Formation	3,044	0.730	855

Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

Well Name	TDS (mg/L)	Specific Gravity (mg/L)
Rock House 2D-36	25,487	1.018
Rock House 3-32	30,746	1.021
Rock House 4-36	31,853	1.022
Rock House 6D-32	30,064	1.021
Rock House 7-32	33,632	1.023
Rock House 11-31	29,622	1.020
Rock House 12D-32	24,922	1.017
Archy Bench 12-23-42-16	8,395	1.006
Archy Bench 11-24-24-32	5,087	1.005

Archy Bench 12-23-22-16	3,159	1.003
East Bench 11-22-11-16	30,079	1.022
Big Pack 12-21-22-2	51,392	1.036
Buck Camp 11-22-11-25	48,953	1.035
Buck Camp 11-22-11-26	51,773	1.037
Buck Camp 11-22-11-36	49,578	1.034
Buck Camp 12-22-21-2	30,026	1.021
Buck Camp 31-5	11,307	1.009
Buck Camp 6-15	8,985	1.007
Buck Camp 3-12	45,574	1.032
Hanging Rock 12-24-11-18	14,180	1.011
Rainbow 11-24-31-16	8,036	1.006
Rock Hopper 29-11	11,171	1.009
Rock House 5-32	28,934	1.021
Rock House 6D-32	5,781	1.004
Rock House 10D-32	21,720	1.015
Rock House 10-22-21-36	59,186	1.042
Rock House 10-22-13-36	34,672	1.025
Rock House 10-22-14-36	34,012	1.024
Rock House 10-22-31-36	43,384	1.031
Stump Jumper 11-23-23-33B	9,363	1.007
Thurston 12-1	22,763	1.016

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

A step rate test will be required for the proposed injection zone to determine the fracture gradient for the zone. The initial Maximum Allowable Injection Pressure (MAIP) of 855 psig, based on an estimated fracture gradient of 0.73 psi/ft, will initially be approved until results of the step rate test are evaluated.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

- FP = formation fracture pressure (measured at surface)
- fg = fracture gradient (from submitted data or tests)
- sg = specific gravity (of injected fluid)
- d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

If the injection zone is shown to contain fluids of less than 10,000 mg/L total dissolved solids (TDS), then an aquifer exemption decision will need to be made prior to approval for injection. If an aquifer exemption is approved, the cumulative injected fluid volume will need to be monitored to ensure that the injectate is not moving out of the authorized 1/4 mile radius.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Surety Bond, received October 10, 2006

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-47077

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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 _____

8. WELL NAME and NUMBER:
Buck Camp 11-22-14-36

2. NAME OF OPERATOR:
Enduring Resources, LLC

9. API NUMBER:
4304737836

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

PHONE NUMBER:
(303) 350-5114

10. FIELD AND POOL, OR WILDCAT:
Undesignated

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **851' FSL - 475' FWL**

COUNTY: **Uintah**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SWSW 36 11S 22E S**

STATE: **UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 9/11/2007	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Closed Drilling Pits
	<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.

Finished closing pits.

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

TITLE Landman - Regulatory Specialist

SIGNATURE 

DATE 9/11/2007

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RECEIVED

SEP 13 2007

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-47077
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: Buck Camp 11-22-14-36	
2. NAME OF OPERATOR: Enduring Resources, LLC		9. API NUMBER: 4304737836
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 CITY Denver STATE CO ZIP 80202	PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT: Undesignated
4. LOCATION OF WELL FOOTAGES AT SURFACE: 851' FSL - 475' FWL		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 36 11S 22E S		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>Reseeded Pit</u>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 11/9/2007			

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

11-9-2007 Pit has been backfilled and reseeded.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>11/9/2007</u>

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NOV 14 2007
DIV. OF OIL, GAS & MINING



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
<http://www.epa.gov/region8>

APR 1 2008

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Alex Campbell
Enduring Resources, LLC
475 17th Street Suite 1500
Denver, CO 80202

Accepted by the
Utah Division of
Oil, Gas and Mining

43 047 37 836 FOR RECORD ONLY
11S 22E 36

Re: Authorization to Inject
EPA UIC Permit UT21062-07150
Well: Buck Camp 11-22-14-36 WD
Uintah County, UT

Dear Mr. Campbell:

Thank you for submitting information regarding completion of construction and testing for the above referenced injection well. Requirements of your UIC Permit required submittal of the following information to the Director:

1. Well Completion schematic and report (EPA Form 7520-10),
2. Mechanical Integrity Test results.
3. Injection Zone Pore Pressure

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection under the conditions of your UIC Permit.

As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Please direct all future notification, reporting, monitoring and compliance correspondence to the following address, and reference your UIC Permit number and well name.

U.S. Environmental Protection Agency
Region 8 UIC Technical Enforcement Program, 8ENF-UFO
1595 Wynkoop Street
Denver, Colorado 80202-1129



Printed on Recycled Paper

If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, please contact Nathan Wiser of the UIC Technical Enforcement Program by calling (303) 312-6211.

Sincerely,



Steven J. Pratt, P.E., CAPM (inactive)
Director, Ground Water Program

- cc:
- Curtis Cesspooch, Chairman
Uintah & Ouray Business Committee
Ute Indian Tribe

 - Ronald Groves, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

 - Irene Cuch, Vice-Chairwoman
Uintah & Ouray Business Committee
Ute Indian Tribe

 - Steven Cesspooch, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

 - Phillip Chimbraus, Councilman
Uintah & Ouray Business Committee
Ute Indian Tribe

 - Frances Poowegup, Councilwoman
Uintah & Ouray Business Committee
Ute Indian Tribe

 - Chester Mills, Superintendent
BIA - Uintah & Ouray Indian Agency

Shaun Chapoose, Director
Land Use Department
Ute Indian Tribe

Gil Hunt
Assistant Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-47077

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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 _____

8. WELL NAME and NUMBER:
Buck Camp 11-22-14-36

2. NAME OF OPERATOR:
Enduring Resources, LLC

9. API NUMBER:
4304737836

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

PHONE NUMBER:
(303) 350-5114

10. FIELD AND POOL, OR WILDCAT:
Undesignated

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **851' FSL - 475' FWL**

COUNTY: **Uintah**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SWSW 36 11S 22E S**

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>7/1/2008</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>EPA Increase injection pressure</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The EPA has increased the maximum authorized injection pressure from 855 psig to 1400 psig.

See attachment.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

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

TITLE Landman - Regulatory Specialist

SIGNATURE 

DATE 6/27/2008

(This space for State use only)

RECEIVED

JUN 30 2008



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 Wynkoop Street
Denver, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

Ref: 8P-W-GW

JUN 25 2008

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Alex Campbell
Vice President Land
Enduring Resources, LLC
475 17th Street, Suite 1500
Denver, CO 80202

RE: **Minor Permit Modification No. 1**
Increase Injection Pressure No.1
EPA UIC Permit UT21062-07150
Well: Buck Camp 11-22-14-36 WD
Uintah County, Utah

Dear Mr. Campbell:

The Region 8 Ground Water Program offices of the Environmental Protection Agency (EPA) received from Enduring Resources LLC the results of a June 12, 2008 Step-Rate Test (SRT) conducted on Buck Camp 11-22-14-36 WD, as required by the initial permit requirements.

This SRT identified the fracture gradient (FG) of the authorized injection interval to be **0.865 psi/ft**. Therefore, the maximum authorized injection pressure (MAIP) is **1400 psig**; not 855 psig as stated in the final Permit.

In the future, should you choose to request a modification to the approved MAIP, new supporting data such as a new SRT will be required. In order to inject at pressures greater than the permitted MAIP during any future test(s), you must receive prior authorization from the Director.

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of your Permit. If you have any questions regarding this approval, please call Patricia Pfeiffer at 800-227-8917 (ext 312-6271).

For questions regarding notification, testing, monitoring, reporting, or other Permit requirements, please call Nathan Wiser at 800-227-8917 (ext 312-6211).

Sincerely,



for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc: Gil Hunt, Utah Division of Oil, Gas, and Mining
Matt Baker, Fluid Minerals Engineering Office, BLM
Robin Hansen, Fluid Minerals Engineering Office, BLM
Stan Perkes, Solid Minerals Office, BLM
Felicia Myore, Acting Director, Energy and Minerals Department, Ute Indian Tribe
Shaun Chapoose, Land Use Department, Ute Indian Tribe
Chester Mills, BIA - Uintah & Ouray Indian Agency
Curtis Cesspooch, Chairman, Uintah & Ouray Business Committee
Ronald Groves, Councilman, Uintah & Ouray Business Committee
Irene Cuch, Vice Chairwoman, Uintah & Ouray Business Committee
Steven Cesspooch, Councilman, Uintah & Ouray Business Committee
Phillip Chimbraus, Councilman, Uintah & Ouray Business Committee
Frances Poowegup, Councilwoman, Uintah & Ouray Business Committee



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
http://www.epa.gov/region8

FEB 24 2009

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Alex Campbell
Enduring Resources, LLC
475 17th Street Suite 1500
Denver, CO 80202

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

43 047 37836
11S 22E 36

Re: FINAL UIC Permit (Major Modification - Final)
EPA UIC Permit UT21062-07150
Well: Buck Camp 11-22-14-36 WD
Uintah County, UT

Dear Mr. Campbell:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Buck Camp 11-22-14-36 WD injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on DEC 11 2008. No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at <http://www.epa.gov/safewater/uic/reportingforms.html>. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/deep_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III,

Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Patricia Pfeiffer of my staff at (303) 312-6271, or toll-free at (800) 227-8917, ext. 312-6271.

FOR RECORD ONLY

Sincerely,



Eddie A. Sierra
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis

cc: Uintah & Ouray Business Committee
Curtis Cesspooch, Chairman
Ronald Groves, Councilman
Irene Cuch, Vice Chairwoman
Steven Cesspooch, Councilman
Phillip Chimbraus, Councilman
Frances Poowegup, Councilwoman

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining

Matt Baker
Fluid Minerals Engineering Office
BLM - Vernal Office

Stan Perkes
Solid Minerals Office
Bureau of Land Management

with enclosures:

Robin Hansen
Fluid Minerals Engineering Office
BLM - Vernal Office

Larry Love
Director of Energy & Minerals Dept.
Ute Indian Tribe

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Ferron Secakulku
Director, Natural Resources
Ute Indian Tribe

<p>STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING</p>	<p>FORM 9</p>
<p>SUNDRY NOTICES AND REPORTS ON WELLS</p> <p>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.</p>	<p>5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47077</p>
<p>1. TYPE OF WELL Water Disposal Well</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</p>
<p>2. NAME OF OPERATOR: Enduring Resources, LLC</p>	<p>7. UNIT or CA AGREEMENT NAME:</p>
<p>3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 , Denver, CO, 80202</p>	<p>8. WELL NAME and NUMBER: BUCK CAMP 11-22-14-36</p>
<p>4. LOCATION OF WELL FOOTAGES AT SURFACE: 0851 FSL 0475 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 11.0S Range: 22.0E Meridian: S</p>	<p>9. API NUMBER: 43047378360000</p>
	<p>9. FIELD and POOL or WILDCAT: UNDESIGNATED</p>
	<p>COUNTY: UINTAH</p>
	<p>STATE: UTAH</p>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/9/2009			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

?EPA has approved reperforation within original approved perforation interval.
 Re-perf: 3 holes per foot... 3186'-3190', 3165'-3169', 3153'-3160',
 3096'-3102', 3048'-3054'

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 December 10, 2009

<p>NAME (PLEASE PRINT) Alvin Arlian</p>	<p>PHONE NUMBER 303 350-5114</p>	<p>TITLE Landman-Regulatory</p>
<p>SIGNATURE N/A</p>	<p>DATE 12/9/2009</p>	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47077
---	---

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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
--	--

1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: BUCK CAMP 11-22-14-36
---	--

2. NAME OF OPERATOR: Enduring Resources, LLC	9. API NUMBER: 43047378360000
--	---

3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 , Denver, CO, 80202	PHONE NUMBER: 303 350-5114 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0851 FSL 0475 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 11.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/20/2009	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

MIRU JW Wireline. Perforate the following intervals, 3 jspf, 120 degree phasing, 0.24 diameter holes, penetration 19.31", 81 holes total. 3186' to 3190', 3165' to 3153', 3096' to 3102', 3048', to 3054' Starting tubing pressure 500 psi., ending tubing pressure 425 psi. RD JW Wireline. Secure well, prepare for injection test.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 December 14, 2009

NAME (PLEASE PRINT) Alvin Arlian	PHONE NUMBER 303 350-5114	TITLE Landman-Regulatory
SIGNATURE N/A	DATE 12/11/2009	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

RECEIVED
NOV 04 2010

DIV. OF OIL, GAS & MINING

Ref: 8ENF-UFO

OCT 29 2010

CERTIFIED MAIL 7005-0390-0000-4846-7326
RETURN RECEIPT REQUESTED

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

J.T. Conley, Operations Manager
Enduring Resources
475 17th Street, Suite 1500
Denver, Colorado 80202

43 0A7 37836
115 22E 36

Re: Underground Injection Control (UIC)
Conditional Approval: Temporary MAIP Increase
→ Buck Camp #11-22-14-36 Well
EPA Permit No. UT21062-07150; and
Southman Canyon #9-23-22-36 Well
EPA Permit No. UT21061-07149
Rock House Gas Field
Uintah County, Utah

Dear Mr. Conley:

On October 21, 2010, Nathan Wiser of our UIC program received an e-mail from you regarding the two above-referenced Class II salt water disposal wells operating under EPA-issued permits. You requested authorization to temporarily inject chlorine dioxide fluid into the perforations of each well, described as clogged, at a wellhead pressure up to approximately 3,000 pounds per square inch (psi). Inasmuch as the two wells have maximum allowable injection pressures (MAIPs) below this value (well #11-22-14-36 MAIP is 1400 psi and well #9-23-22-36 well MAIP is 1310 psi), this surface pressure will exceed each well's pressure limit established at Part II(C)(3) in each above-referenced UIC permit.

The stated goal of this work is to improve each well's injectivity. The procedure described in your e-mail request will involve injecting about 234 barrels of fluid into the #11-22-14-36 well and about 419 barrels of fluid into the #9-23-22-36 well. Your proposal is hereby conditionally approved and Enduring Resources may proceed with the stimulation work.

The condition for approval is that Enduring Resources agrees to monitor pressure both on the injection string and the annulus between the surface and production casing during the stimulation event. If more than 10% of the injection pressure is observed on the monitored annulus, the stimulation must shut down to allow on-site personnel to evaluate whether uncontrolled loss of injected fluid took place. This temporary MAIP increase is limited to the proposed stimulation work at each well.



Pursuant to Part III(E)(8) of each UIC permit, you are required to submit to EPA's UIC compliance staff the information listed below within 30 calendar days after completion of the stimulation work at each well:

- a. The cumulative fluid volume injected into the well for the entire stimulation event;
- b. The trade name with chemical description and volume, of all fluid types injected during the stimulation;
- c. The volume of the fluid flowed back after the stimulation event (if any);
- d. The final disposition of the volume of fluid flowed back (if any); and
- e. A recorded pressure vs. time graph showing the entire stimulation event. The graph must display the monitored wellhead injection pressure and the wellhead production/surface casing annulus pressure.

If either well's tubing is removed or packer unseated, the tubing and packer must be reset in the well within 100 feet of the uppermost perforations, and the results of an internal MIT (annulus pressure test) must be submitted for evaluation prior to EPA authorizing normal injection to resume. If the tubing and packer remain unchanged during the stimulation, then this step is not applicable and normal injection may resume without separate EPA approval.

Failure to comply with a UIC permit or the UIC regulations found at 40 C.F.R. Parts 144 and 146 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Nathan Wiser at (303) 312-6211. Please direct correspondence about this matter to the attention of **Nathan Wiser at Mail Code 8ENF-UFO**.

Sincerely,



Sandra A. Stavnes, Director
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Frances Poowegup, Vice Chairwoman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Phillip Chimburas, Councilman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Curtis Cesspooch, Councilman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Stewart Pike, Councilman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Irene Cuch, Councilwoman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Richard Jenks, Jr., Councilman
Uintah & Ouray Business Committee
P.O. Box 190
Fort Duchesne, Utah 84026

Mike Natchees, Environmental Coordinator
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, Utah 84026

Manuel Myore, Energy, Minerals and Air Director
Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026

Dan Jarvis
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 WYNKOOP STREET
DENVER, CO 80202-1129
<http://www.epa.gov/region8>

SEP 03 2015

Ref: 8P-W-UIC

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Alex Campbell
Enduring Resources, LLC
511 Sixteenth Street
Suite 700
Denver, Colorado 80202

Re: FINAL Major Modification 3
PA UIC Permit UT21062-07150
Well: Buck Camp 11-22-14-36 WD
SWSW Sec. 36-T11S-R22E
Uintah County, Utah
API No.: 43-047-37836

Dear Mr. Campbell:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Program Permit for the proposed Buck Camp 11-22-14-36 WD injection well. A Statement of Basis that discusses the conditions and requirements of this Environmental Protection Agency (EPA) UIC Permit, is also included.

The public comment period for this permit ended on July 9, 2015. No comments on the draft permit were received during the public notice period; therefore the effective date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this final permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the final permit, Part II Section C.1, and obtain written Authorization to Inject from EPA. It is your responsibility to be familiar with and to comply with all provisions of your final permit. The EPA forms referenced in the permit are available at <http://www.epa.gov/safewater/uic/reportingforms.html>. Guidance documents for Cement Bond Logging, Radioactive Tracer Testing, Step Rate Testing, Mechanical Integrity Demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/deep_injection.html.

Upon request, hard copies of the EPA forms and guidances can be provided.

This EPA UIC permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed final permit or Statement of Basis, please call Bruce Suchomel of my staff at (303) 312-6001, or toll-free at (800) 227-8917, extension 312-6001.

Sincerely,



Darcy O'Connor
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
 Statement of Basis

cc letter only:

Uintah & Ouray Business Committee
Honorable Shaun Chapoose, Chairman
Edred Secakuku, Vice-Chairman
Reannin Tapoof, Executive Assistant

Bartholomew Stevens, Superintendent
BIA - Uintah & Ouray Indian Agency

cc with enclosures:

Bart Powaukee
Environmental Director
Ute Indian Tribe

Minnie Grant
Air Quality Coordinator
Ute Indian Tribe

Manual Myore
Director of Energy & Minerals Dept.
Ute Indian Tribe

Brad Hill
Utah Division of Oil, Gas, and Mining

Robin Hansen
Fluid Minerals Engineering Office
BLM - Vernal Office

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47077
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Water Disposal Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: Enduring Resources, LLC		8. WELL NAME and NUMBER: BUCK CAMP 11-22-14-36
3. ADDRESS OF OPERATOR: 511-16th Street, Suite 700 , Denver, CO, 80202	PHONE NUMBER: 303 350-5114 Ext	9. API NUMBER: 43047378360000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0851 FSL 0475 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 11.0S Range: 22.0E Meridian: S		9. FIELD and POOL or WILDCAT: BUCK CANYON
		COUNTY: UINTAH
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/1/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Please change well status to "Inactive" water disposal well. EPA Permit is current and we will submit notice when we begin operations again.

Thank you

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
February 22, 2016**

NAME (PLEASE PRINT) Travis Whitham	PHONE NUMBER 303 350-5716	TITLE Landman
SIGNATURE N/A	DATE 2/19/2016	