

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

FORM 3

001

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: <b>ML-47061</b>	6. SURFACE: <b>State</b>
1A. TYPE OF WORK: <b>DRILL</b> <input checked="" type="checkbox"/> <b>REENTER</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input checked="" type="checkbox"/> <b>OTHER</b> _____ <b>SINGLE ZONE</b> <input type="checkbox"/> <b>MULTIPLE ZONE</b> <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>THE HOUSTON EXPLORATION COMPANY</b>			9. WELL NAME and NUMBER: <b>ROCK HOUSE 7-36-10-22</b>	
3. ADDRESS OF OPERATOR: <b>1100 LOUISIANA, SUIT</b> CITY <b>HOUSTON</b> STATE <b>TX</b> ZIP <b>77002</b>			PHONE NUMBER: <b>(713) 830-6800</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>2209' FNL &amp; 2445' FEL</b> AT PROPOSED PRODUCING ZONE: <b>SAME AS ABOVE</b>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWNE 36 10S 22E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>77.1 MILES SOUTH OF VERNAL, UTAH</b>			12. COUNTY: <b>UINTAH</b>	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>200'</b>			17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>1500' +/-</b>			20. BOND DESCRIPTION: <b>104155044</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5341.2 GR</b>			23. ESTIMATED DURATION: <b>30 DAYS</b>	
16. NUMBER OF ACRES IN LEASE: <b>200</b>			22. APPROXIMATE DATE WORK WILL START: <b>4/15/2005</b>	
			<b>RECEIVED</b> <b>MAR 18 2005</b>	
			<b>DIV. OF OIL, GAS &amp; MINING</b>	

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
11"	9 5/8	J-55	36#	2,000	PREMIUM LITE II	250 SKS	3.38 CF	11.0 PPG
					CLASS "G"	329 SKS	1.2 CF	15.6 PPG
					CALCIUM CHLORIDE	200 SKS	1.10 CF	15.6 PPG
7 7/8"	4 1/2	N-80	11.6#	7,893	PREMIUM LITE II	200 SKS	3.3 CF	11.0 PPG
					CLASS "G"	400 SKS	1.56 CF	14.3 PPG

**ATTACHMENTS**

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

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

NAME (PLEASE PRINT) WILLIAM A RYAN TITLE AGENT  
SIGNATURE *William A Ryan* DATE 3/8/2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-36409

APPROVAL: \_\_\_\_\_

**CONFIDENTIAL**

# T10S, R22E, S.L.B.&M.

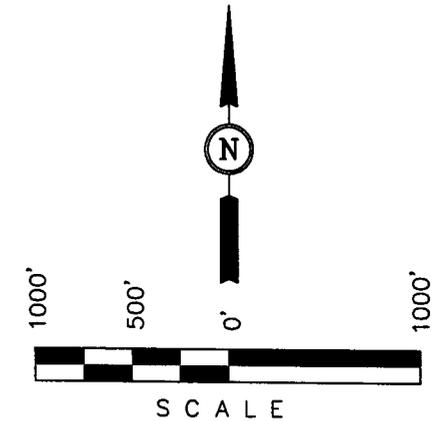
1991 Alum. Cap,  
0.2' High, Pile  
of Stones, Steel  
Post

## THE HOUSTON EXPLORATION COMPANY

Well location, ROCK HOUSE #7-36-10-22,  
located as shown in the SW 1/4 NE 1/4 of  
Section 36, T10S, R22E, S.L.B.&M. Uintah  
County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE  
NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN  
FROM THE BIG PACK MTN NE QUADRANGLE, UTAH,  
UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL  
MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT  
OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION  
IS MARKED AS BEING 5238 FEET.



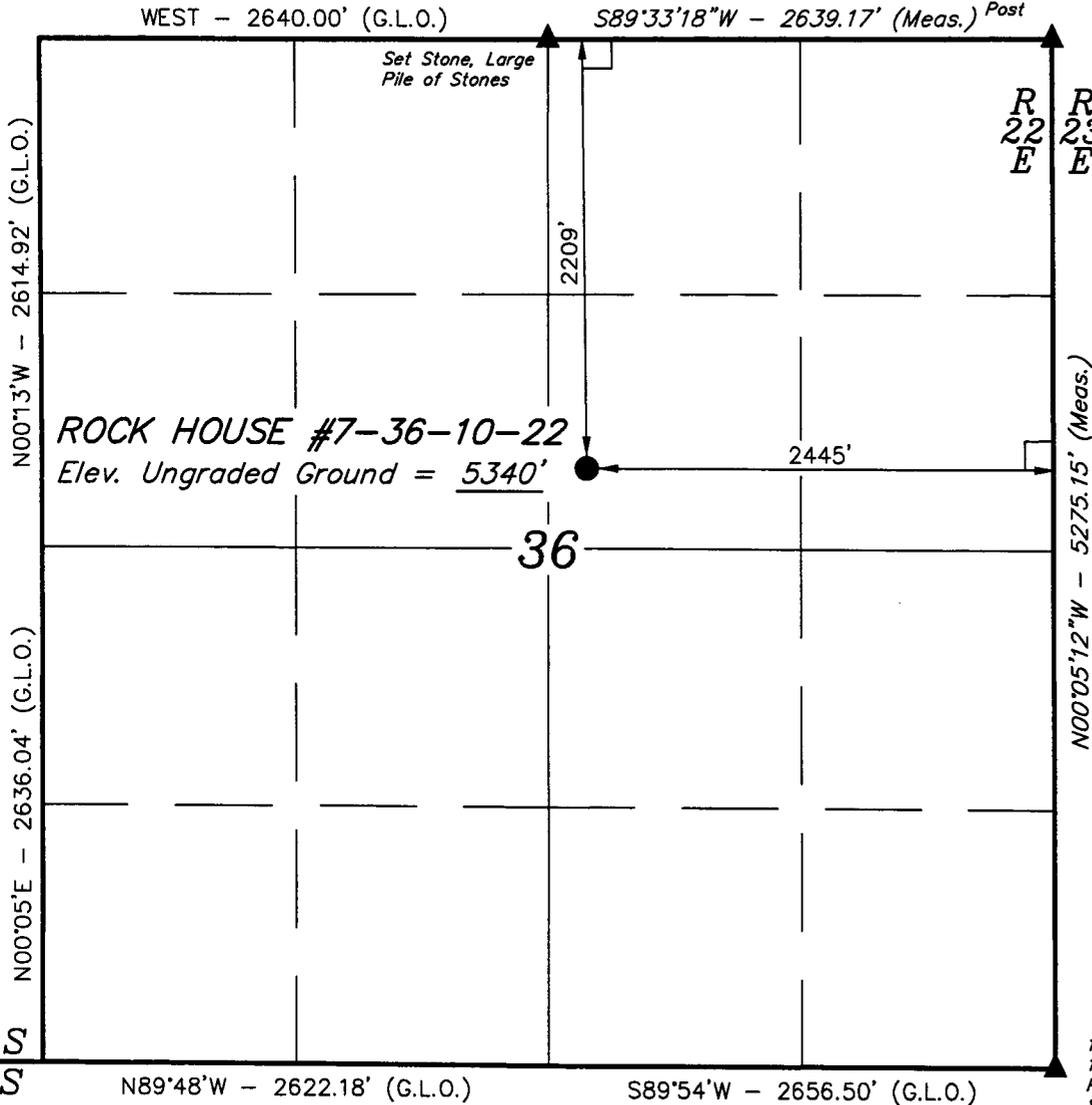
### CERTIFICATE

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

*Robert H. Gray*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

1991 Alum. Cap,  
1.0' High, Steel  
Post, Pile of  
Stones

T10S  
T11S



### BASIS OF BEARINGS

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

### LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)  
LATITUDE = 39°54'23.46" (39.906517)  
LONGITUDE = 109°23'15.33" (109.387592)

(AUTONOMOUS NAD 27)  
LATITUDE = 39°54'23.58" (39.906550)  
LONGITUDE = 109°23'12.88" (109.386911)

### UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 02-24-05	DATE DRAWN: 03-01-05
PARTY A.F. B.G. P.M.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE THE HOUSTON EXPLORATION COMPANY	

March 8, 2005

RE: The Houston Exploration Company  
Rock House 7-36-10-22  
Sec. 36, T10S, R22E

Utah Division of Oil, Gas and Mining  
1549 West North Temple  
Suite 1210  
PO BOX 145801  
SLC, UT 84114

RECEIVED

MAR 18 2005

DIV. OF OIL, GAS & MINING

Dear Sir or Madam,

The Houston Exploration Company respectfully requests a spacing exception for the subject well. The well has been moved from the center of the forty-acre spacing.

The well is located at 2,209' FNL & 2,445' FEL, which has changed from the proposed location at 1980' FNL & 1980' FEL.

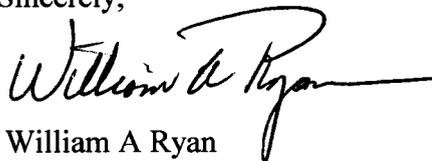
The location was moved due to topographic considerations and access. Please see the plat maps.

The Houston Exploration Company is not the only lease owner within a 460' radius.

School Trust Lands is the surrounding lease holder.

If you have additional questions please contact William A Ryan, Agent  
290 S 800 E  
Vernal, UT 84078  
435-789-0968

Sincerely,

  
William A Ryan

003

The Houston Exploration Company  
1100 Louisiana, Suite 2000  
Houston, TX 77002  
713-830-6800

Please hold all information associated with this Application for Permit to Drill and all associated logs confidential for a minimum of six (6) months.

## Ten Point Plan

### The Houston Exploration Company

Rock House #7-36-10-22

Surface Location SW ¼ NE ¼, Section 36, T. 10S., R. 22E.

#### 1. Surface Formation

Green River

#### 2. Estimated Formation Tops and Datum:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Green River	Surface	+5,341' G.L.
Uteland Butte Limestone	3,569	+1,772'
Wasatch	3,651	+1,690'
Mesaverda	5,551	-210'
Buck Tounge	7,851	-2,510'
Castlegate	7,931	-2,590'
TD	7,893	-2,552'

A 11" hole will be drilled to 2,000' +/- . The hole depth will depend on the depth that the Birds Nest Zone is encountered. The hole will be drilled 400' beyond the top of the Birds Nest.

#### 3. Producing Formation Depth:

Formation objective includes the Green River, Wasatch, Mesaverde and its sub-members.

Off Set Well information:

Permitted/Drilled: Rock House 1-36-10-22, Rock House 3-36-10-22,  
Rock House 11-36, Rock House 13-36

Producing Wells: Rock House 4-36, Rock House 2D-36,  
S #1022-36E, Rock House 11-31

Abandon Wells: ST #1, NBU #61-25B

**4. Proposed Casing:**

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight/FT</u>	<u>Grade</u>	<u>Coupling &amp; Tread</u>	<u>Casing Depth</u>	<u>New/Used</u>
11	8 5/8	36#	J-55	STC	2000	NEW
7 7/8	4 1/2	11.6#	N-80	LTC	T.D.	NEW

**Cement Program:**

The Surface Casing will be cemented to the Surface as follows:

	<u>Casing Size</u>	<u>Cement Type</u>	<u>Cement Amounts</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
Lead:	8 5/8	Premium Lite II .05#/sk Static Free .25#/sk Cello Flake 5#/sk KOL Seal .002 gps FP-6L 10% Bentonite .5% Sodium Metasilicate 3% Potassium Chloride	250 sks. +/-	3.38ft <sup>3</sup> /sk	11.0 ppg
Tail:	8 5/8	Class "G" 2% Calcium Chloride .25#/sk Cello Flake	329 sks. +/-	1.2ft <sup>3</sup> /sk	15.6 ppg
Top Job:	8 5/8	4% Calcium Chloride .25#/sk Cello Flake	200 sks. +/-	1.10ft <sup>3</sup> /sk	15.6 ppg

Production casing will be cemented to 2,500' or higher as follows:

	<u>Casing Size</u>	<u>Cement Type</u>	<u>Cement Amounts</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
Lead:	4 1/2	Premium Lite II .25#/sk Cello Flake .05#/sk Static Free 5#/sk Kol Seal 3% Potassium Chloride .055 gps FP-6L 10% Bentonite .5 Sodium Metasilicate	200 sks +/-	3.3ft <sup>3</sup> /sk	11.0 ppg
Tail:	4 1/2	Class "G" .05% Static Free 2 Sodium Chloride .1% R-3 2% Bentonite	400 sks +/-	1.56ft <sup>3</sup> /sk	14.3 ppg

**5. BOP and Pressure Containment Data:**

The anticipated bottom hole pressure will be less than 3000 psi.

A 3000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 8 5/8" surface casing. The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

**6. Mud Program:**

<u>Interval</u>	<u>Mud weight lbs./gal.</u>	<u>Viscosity Sec./OT.</u>	<u>Fluid Loss Ml/30 Mins.</u>	<u>Mud Type</u>
0-2000	Air/Clear Water	-----	No Control	Water/Gel
2000-T.D.	8.4-12.0	30	8-10	Water/Gel

**7. Auxiliary Equipment**

Upper Kelly cock, full opening stabbing valve, 2 ½" choke manifold and pit level indicator.

**8. Testing, Coring, Sampling and Logging:**

- a) Test: None are anticipated.
- b) Coring: There is the possibility of sidewall coring.
- c) Sampling: Every 10' from 2000' to T.D.
- d) Logging: 

Type	Interval
DLL/SFL W/GR and SP	T.D. to Surf. Csg
FDC/CNL W/GR and CAL	T.D. to Surf. Csg

**9. Abnormalities (including sour gas):**

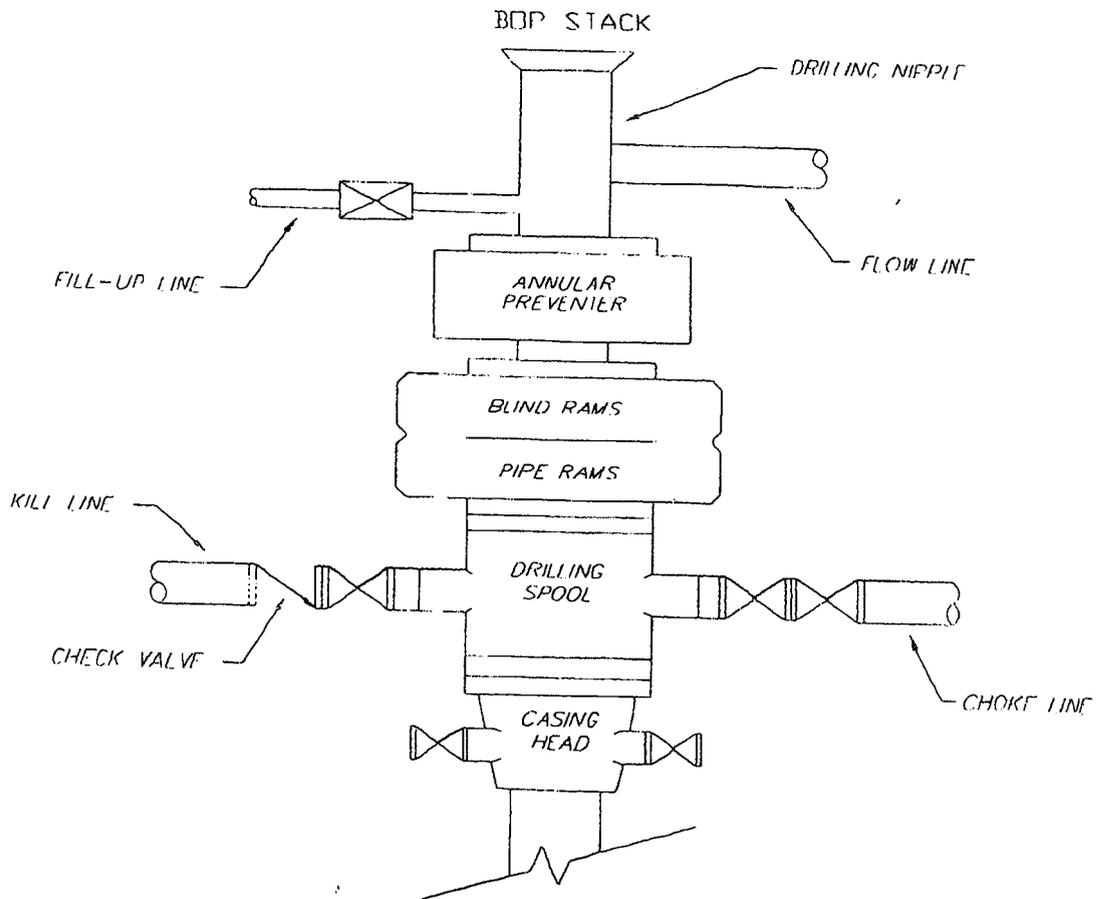
No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated in the Wasatch Formation. Other wells drilled in the area have not encountered over pressured zones or H2S.

**10. Drilling Schedule:**

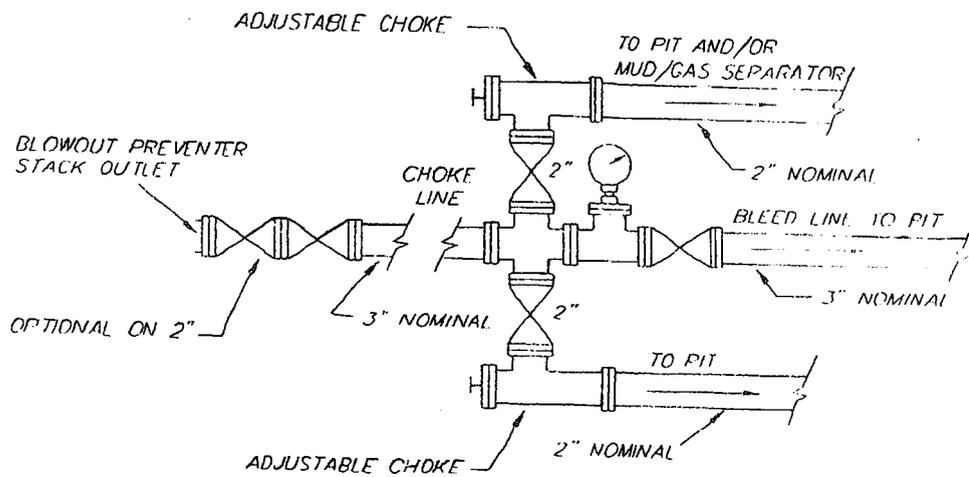
The anticipated starting date is 04/15/05. Duration of operations is expected to be 30 days.

# THE HOUSTON EXPLORATION COMPANY

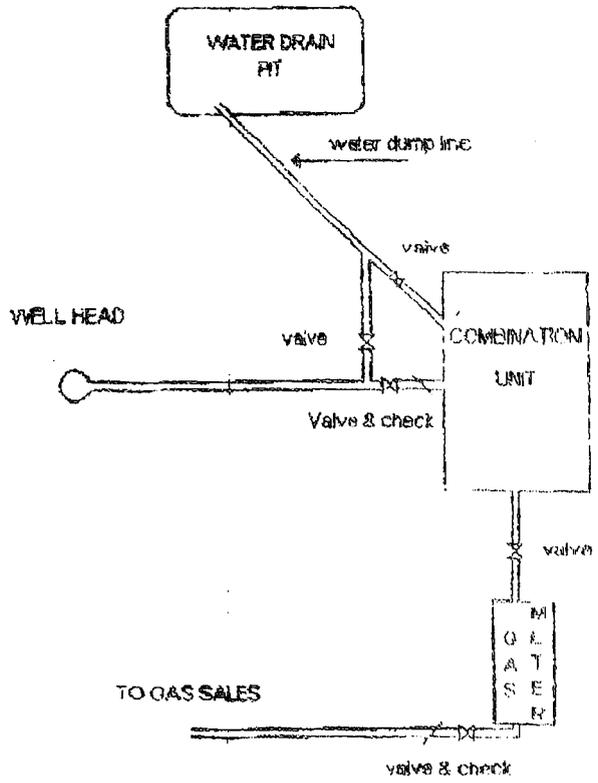
## TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER SCHEMATIC



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



TYPICAL  
GAS WELL



**THE HOUSTON EXPLORATION COMPANY**

**13 POINT SURFACE USE PLAN**

**FOR WELL**

**ROCKHOUSE 7-36-10-22**

**LOCATED IN SW ¼ NE ¼**

**SECTION 36, T. 10S, R22E, S.L.B.&M.**

**UINTAH COUNTY, UTAH**

**LEASE NUMBER: ML-47061**

**SURFACE OWNERSHIP: STATE**

1. Existing Roads:

To reach The Houston Exploration Co well Rock House #7-36-10-22 in Section 36, T10S, R 22E, starting in Vernal, Utah.

Proceed in a easterly, then southerly direction from Vernal, Utah along US Highway 40 approximately 3.9 miles to the junction of State Highway 45; exit right and proceed in a southerly, direction approximately 41.5 miles on paved State Highway 45 to the junction of this road and gravel State Highway 45 to southeast; turn left and proceed in an southeasterly direction, approximately 3.8 miles to the junction of this road and State Highway 207 to the southwest; turn right and proceed in a southeasterly direction approximately 8.4 miles to the junction of this road and an existing road to the southwest; proceed in a southwesterly direction approximately 7.8 miles to the junction of this road and an existing road to the northwest; turn right and proceed in a northwesterly, direction approximately 0.5 miles to the junction of this road and an existing road to the west; turn left and proceed in a westerly, then northerly direction approximately 2.7 miles to the junction of this road and an existing road to the northwest; turn left and proceed in a northwesterly direction approximately 2.7 miles to the junction of this road and an existing road to the west; turn left and proceed in a westerly, then

northwesterly, then northerly direction approximately 2.7 miles to the junction of this road and an existing road to the north; turn right and proceed in a northerly, then northeasterly direction approximately 1.2 miles to the junction of this road and an existing road to the northwest; turn left and proceed in a northwesterly, then northeasterly direction approximately 1.9 miles to the beginning of the proposed access to the southeast; follow road flags in a southeasterly direction approximately 40' to the proposed location.

Total distance from Vernal, Utah to the proposed well location is approximately 77.1 miles.

All existing roads to the proposed location are State of Utah, BLM maintained or County Class D roads. Please see the attached map for additional details.

2. Planned access road

The proposed access road will be approximately 40' +/- of new construction on lease and a re-route of approximately 100' of existing road on lease. The road will be graded once per year minimum and maintained.

A) Approximate length	40 ft
B) Right of Way width	30 ft
C) Running surface	18 ft
D) Surface material	Native soil
E) Maximum grade	5%
F) Fence crossing	None
G) Culvert	None

- H) Turnouts **None**
- I) Major cuts and fills **None**
- J) Road Flagged **Yes**
- K) Access road surface ownership **State**
- L) All new construction on lease **Yes**
- M) Pipe line crossing **None**

Please see the attached location plat for additional details.

**An off lease right of way will not be required.**

All surface disturbances for the road and location will not be within the lease boundary.

### 3. Location of existing wells

The following wells are located within a one-mile radius of the location site.

- A) Producing well
  - S#1022-36E
  - Rock House #11-31
  - Rock House #2S-36
  - Rock House #4-36
- B) Water well **None**
- C) Abandoned well
  - ST #1
  - NBU #61-25B
- D) Temp. abandoned well **None**
- E) Disposal well **None**
- F) Drilling /Permitted well
  - Rock House #11-36-10-22
  - Rock House #13-36-10-22
  - Rock House #3-36-10-22
  - Rock House #1-36-10-22
- G) Shut in wells **None**
- H) Injection well **None**
- I) Monitoring or observation well **None**

Please see the attached map for additional details.

### 4. Location of tank batteries, production facilities and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted a Desert Tan color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is Desert Tan.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

The operator will adhere to all site security guidelines and regulation identified in 43 cfr 3126.7.

All off lease storage, off lease measurement, commingling on lease or off lease, of production, will have prior written approval from the authorized officer.

If the well is capable of economic production a surface gas line will be required.

**Approximately 40' +/- of 3" gathering line would be**

**constructed on State Lands. The line would tie into the proposed pipeline in Sec. 36, T10S, R22E. The line will be strung and boomed to the south and west of the access road and location.**

**An off lease right of way will not be required.**

Please see the attached location diagrams for pipeline location. There will be no additional surface disturbances required for the installation of a gathering line.

The gas meter run will be located within 500' of the wellhead. The gas line will be buried or anchored down from the wellhead to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter.

The authorized officer will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration report will be submitted to the BLM's Vernal District office and State of Utah, Division of Oil, Gas, and Mining. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association) standards for gas and liquid hydrocarbon measurement.

5. Location and type of water supply

Water for drilling and cementing will come from the White River at Saddle Tree Draw, Permit # T-75514.

6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravel or pit lining material will be obtained from private resources.

7. Methods for handling waste disposal

A) Pit construction and liners:

The reserve pit will be approximately **12 ft.** deep and most of the depth shall be below the surface of the existing ground. Please see the attached plat for details.

The reserve pit will be lined.

The reserve pit will be used to store water for drilling. A semi-closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

**B) Produced fluids:**

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90-day period an application for approval for permanent disposal method and location will be submitted to the authorized officer.

**C) Garbage:**

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized landfill location.

**D) Sewage:**

A portable chemical toilet will be supplied for human waste.

**E) Site clean-up:**

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

**8. Ancillary facilities**

There are no ancillary facilities planned at this time and none are foreseen for the future.

**9. Well-site layout**

Location dimensions are as follows:

- A) Pad length                    345 ft.**
- B) Pad width                     215 ft.**

- C) Pit depth                      12 ft.**
- D) Pit length                    150 ft.**
- E) Pit width                     75 ft.**
- F) Max cut                       30.8 ft.**
- G) Max fill                       12.2 ft**
- H) Total cut yds. 17,690 cu yds.**
- I) Pit location                  east side**
- J) Top soil location  
    north & south ends**
- K) Access road location  
    north end**
- L) Flare Pit                        corner C**

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- A) Thirty nine inch net wire shall be used with at least one strand of 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 above 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 posts shall be no greater than 16 ft.**

E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

10. Plans for restoration of the surface

Prior to construction of the location, the top 6 inches of soil material will be stripped off the location and the pit area. The topsoil removed and piled will amount to approximately **2,030** cubic yards of material. Topsoil will be stockpiled in one distinct pile. Placement of the topsoil is noted on the attached location plat. The topsoil pile from the location will be seeded as soon as the soil is stock piled with the seed mix listed. When all drilling and completion activities have been completed and the pit back-filled the topsoil from the pit area will be spread on the pit area. The pit area will be seeded when the soil has been spread. The unused portion of the location (the area outside the dead men) will be re-contoured.

The dirt contractor will be provided with an approved copy of the surface use plan prior to construction activities.

Changes to the drainage during the construction activities shall be restored to its original line of flow or as near as possible when the pit is back-filled

All disturbed areas will be re-contoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert the run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

A) Seeding dates:

Seed will be spread when topsoil is stock piled and when reclamation work is performed.

The seed mix and quantity list will be used whether the seed is broadcast or drilled.

B) Seed Mix

**To be determined by the Authorized Officer.**

11. Surface ownership:

<b>Access road</b>	<b>State</b>
<b>Location</b>	<b>State</b>
<b>Pipe line</b>	<b>State</b>

**White River located 2 miles to the North.**

E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

12. Other information:

A) Vegetation

The vegetation coverage is Slight. The majority of the existing vegetation consists of non-native species. Rabbit brush, bitter brush, and Indian Rice grass and Sagebrush are also found on the location.

B) Dwellings:

There are no dwelling or other facilities within a one-mile radius of the location.

C) Archeology:

The location has been surveyed. A copy of that survey will be forwarded to your office.

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.

D) Water:

**The nearest water is the**

F) Notification:

- a) Location Construction  
At least forty eight (48) hours prior to construction of location and access roads.
- b) Location completion  
Prior to moving on the drilling rig.
- c) Spud notice  
At least twenty-four (24) hours prior to spudding the well.
- d) Casing string and cementing  
At least twenty-four (24) hours prior to running casing and cementing all casing strings.
- e) BOP and related equipment tests  
At least twenty-four (24) hours prior to initial pressure tests.
- f) First production notice  
Within five (5) business days after the new well begins, or production resumes after well has been off production for more than 90 days.

G) Flare pit:

The flare pit will be located in **corner C** of the reserve pit outside the pit fences and 100 feet from the bore hole on the east side of the location. All fluids will be removed from the pit within 48 hours of occurrence.

approval for any future operations.

B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be performed by The Houston Exploration Company and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

13. Lessees or Operator's representative and certification

A) Representative

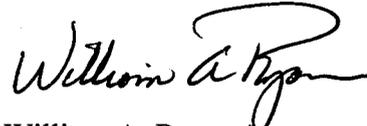
William A. Ryan  
290 S 800 E  
Rocky Mountain Consulting  
Vernal, UT 84078

Office 435-789-0968  
Fax 435-789-0970  
Cellular 435-828-0968

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

This drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for

Date 3/8/05



William A. Ryan, Agent  
Rocky Mountain Consulting

Onsite Dates:

### **Statement of use of Hazardous Materials**

No chemical(s) from the EPA's consolidated list of Chemicals subject to Reporting under Title III of the Superfund Amendments and Reauthorization, Act (SARA) of 1986 will be used, produced, transported, stored, disposed, or associated with the proposed action. No extremely hazardous substances, as defined in 40 cfr 355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

William A Ryan  
Agent for The Houston Exploration Company  
Rocky Mountain Consulting  
290 S 800 E  
Vernal, UT 84078

435-789-0968 Office  
435-828-0968 Cell  
435-789-0970 Fax

# THE HOUSTON EXPLORATION COMPANY

## ROCK HOUSE #7-36-10-22

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T10S, R22E, S.L.B.&M.

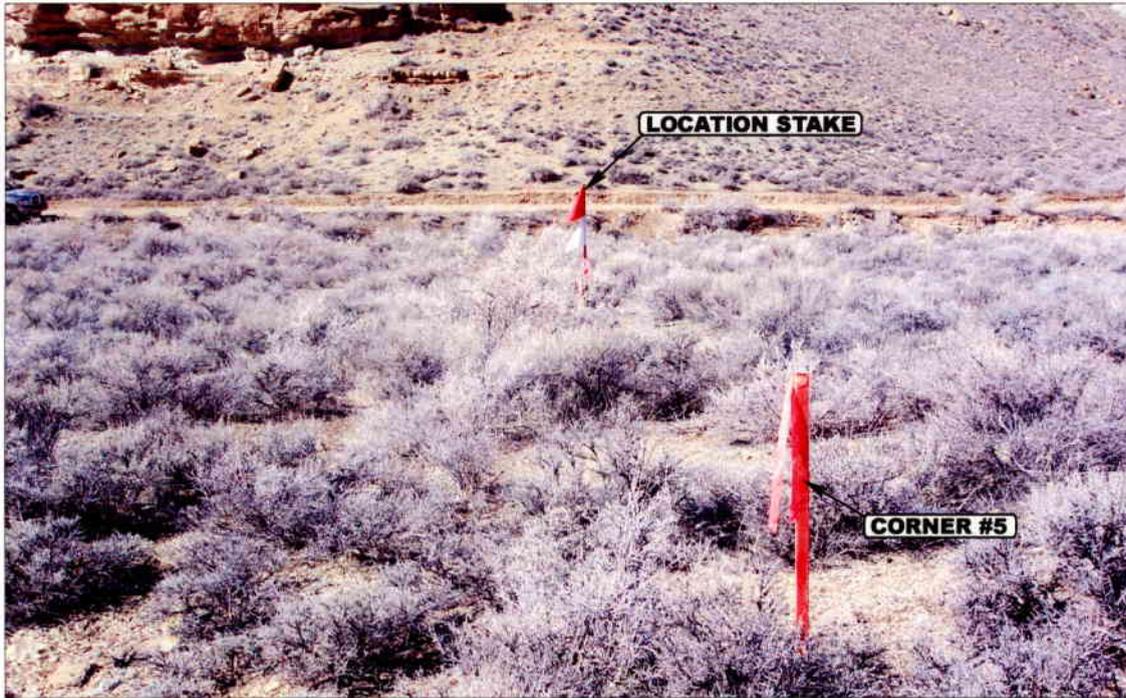


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



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

02 28 05  
MONTH DAY YEAR

PHOTO

TAKEN BY: A.F.

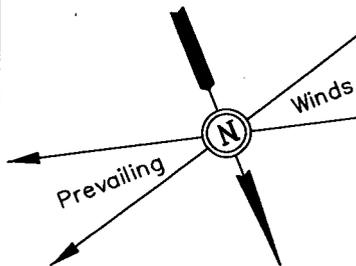
DRAWN BY: C.P.

REVISED: 00-00-00

THE HOUSTON EXPLORATION COMPANY

FIGURE #1

LOCATION LAYOUT FOR  
 ROCK HOUSE #7-36-10-22  
 SECTION 36, T10S, R22E, S.L.B.&M.  
 2209' FNL 2445' FEL



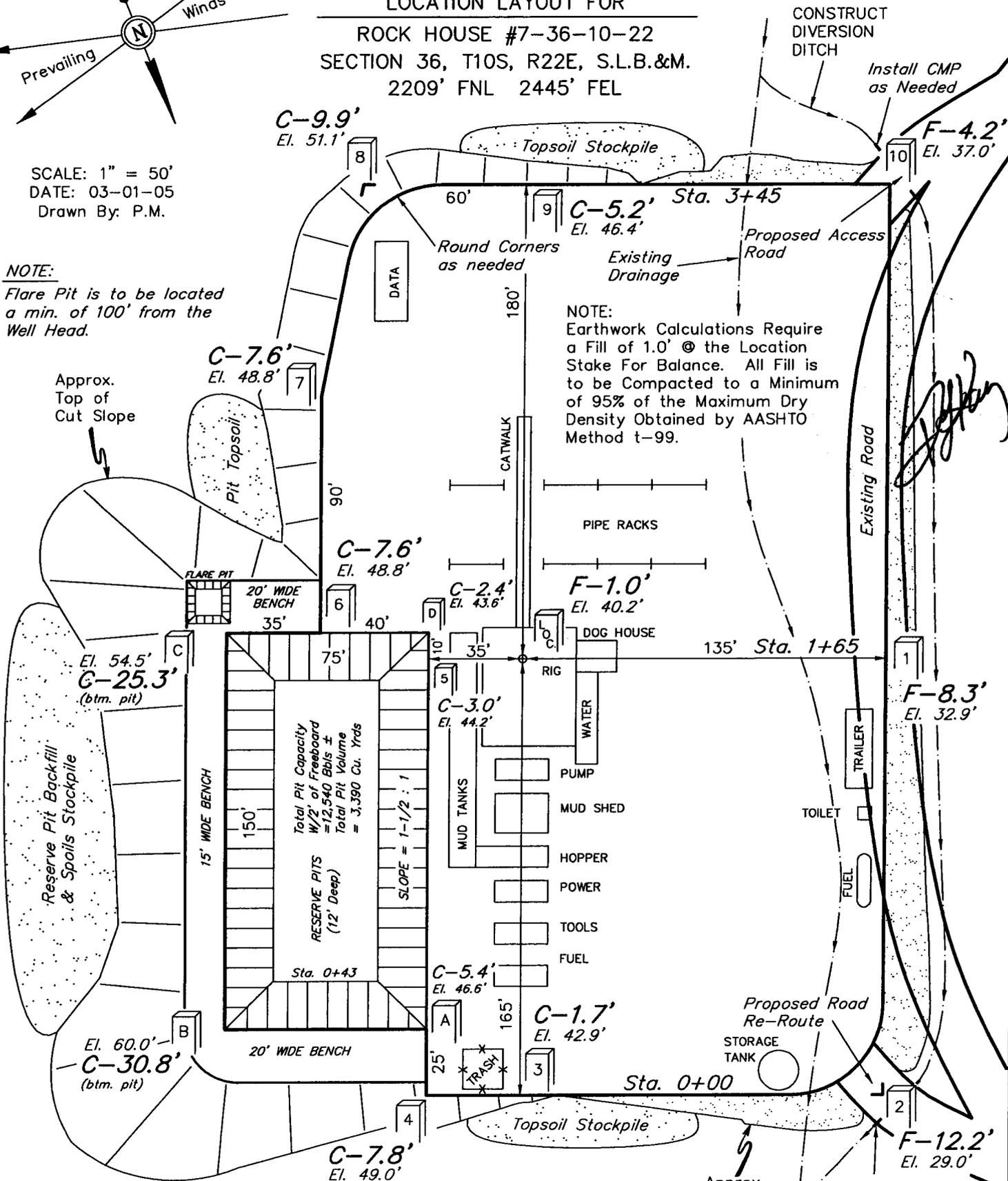
SCALE: 1" = 50'  
 DATE: 03-01-05  
 Drawn By: P.M.

NOTE:

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

NOTE:

Earthwork Calculations Require a Fill of 1.0' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.



NOTES:

Elev. Ungraded Ground At Loc. Stake = 5340.2'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5341.2'

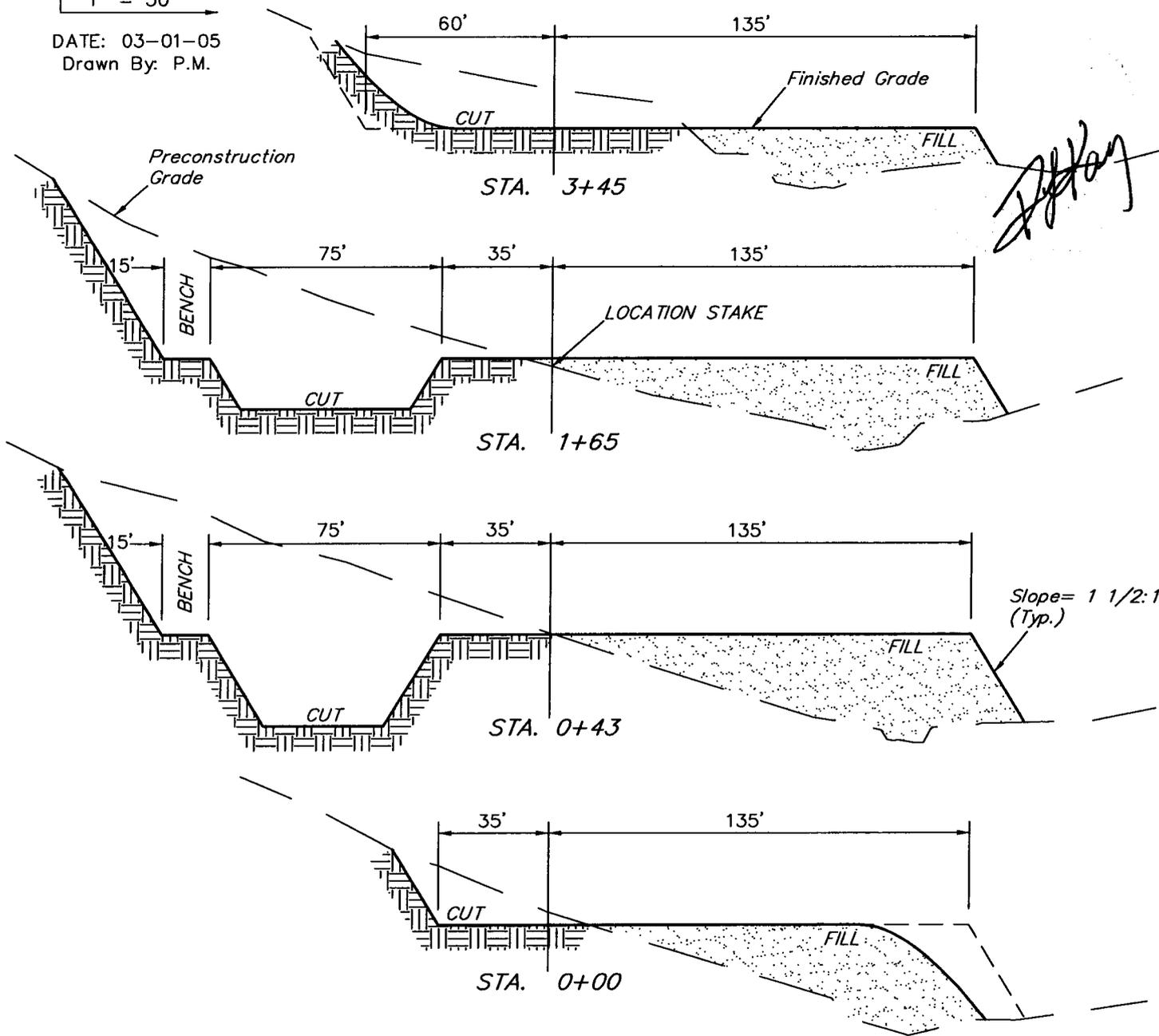
THE HOUSTON EXPLORATION COMPANY

FIGURE #2

TYPICAL CROSS SECTIONS FOR  
 ROCK HOUSE #7-36-10-22  
 SECTION 36, T10S, R22E, S.L.B.&M.  
 2209' FNL 2445' FEL

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

DATE: 03-01-05  
 Drawn By: P.M.

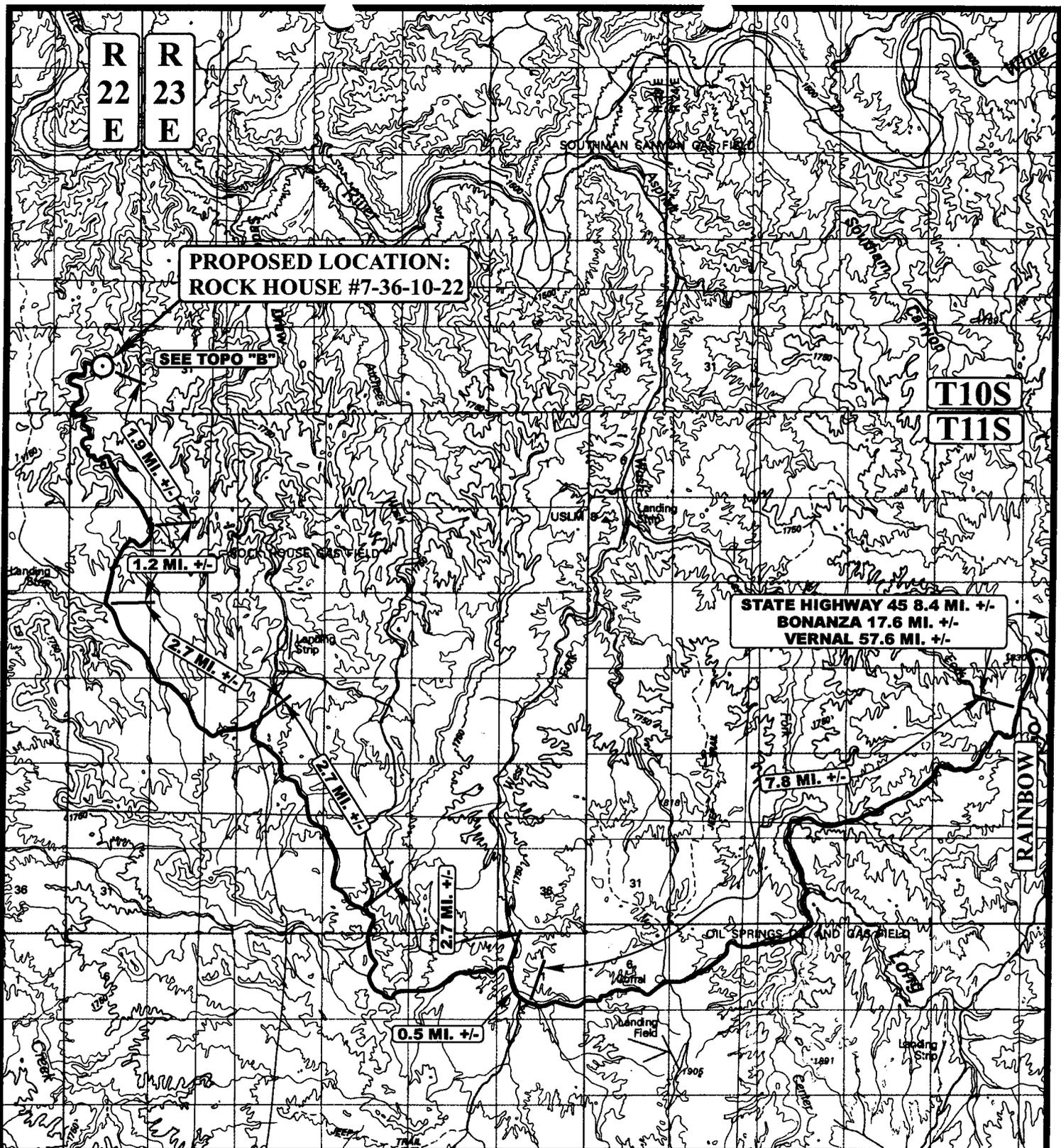


\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 2,030 Cu. Yds.
Remaining Location	= 15,660 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 17,690 CU.YDS.</b>
<b>FILL</b>	<b>= 13,960 CU.YDS.</b>

EXCESS MATERIAL	= 3,730 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,730 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.



**PROPOSED LOCATION:  
ROCK HOUSE #7-36-10-22**

**SEE TOPO "B"**

**T10S  
T11S**

**STATE HIGHWAY 45 8.4 MI. +/-  
BONANZA 17.6 MI. +/-  
VERNAL 57.6 MI. +/-**

**LEGEND:**

⊙ PROPOSED LOCATION



**THE HOUSTON EXPLORATION COMPANY**

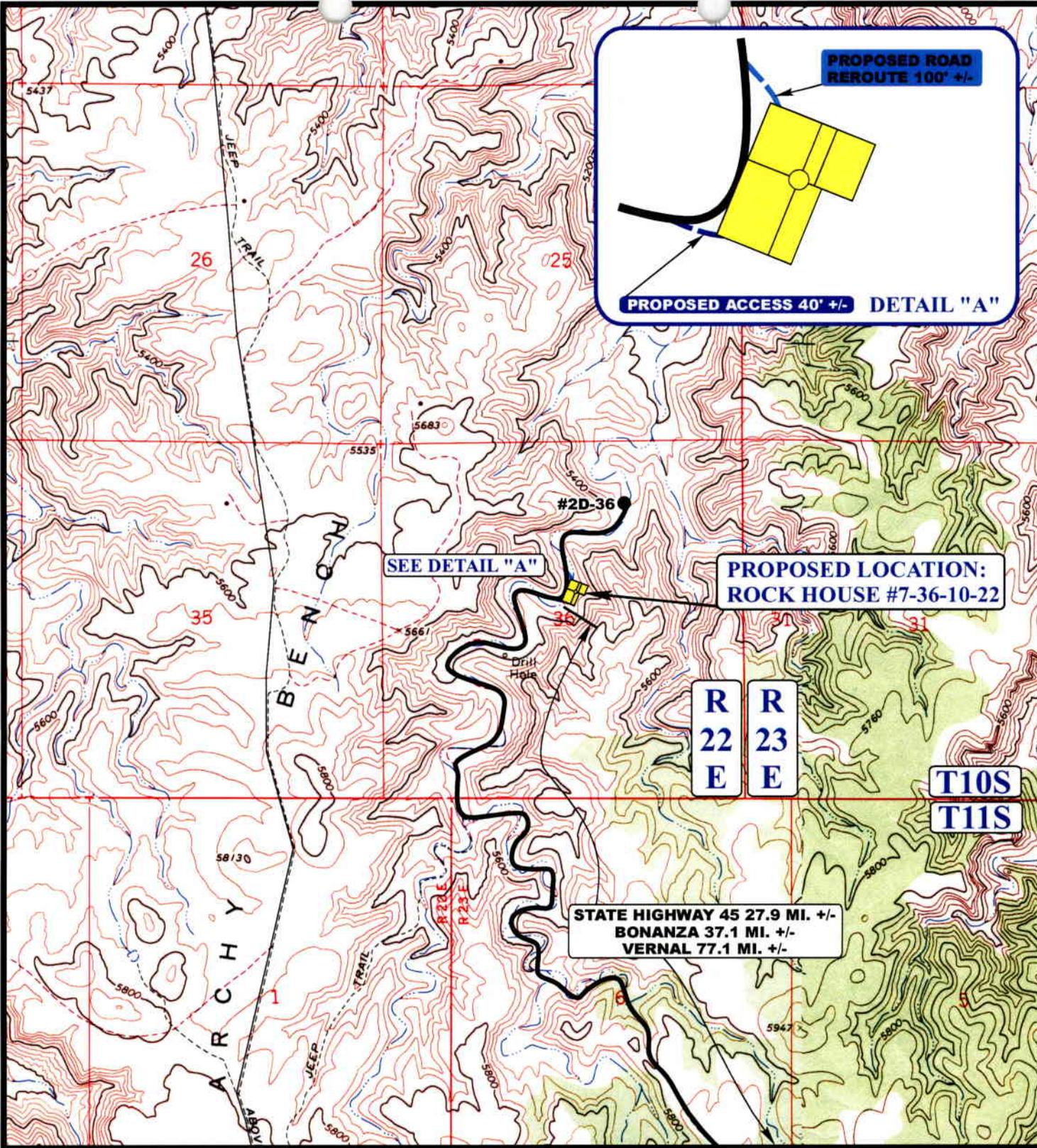
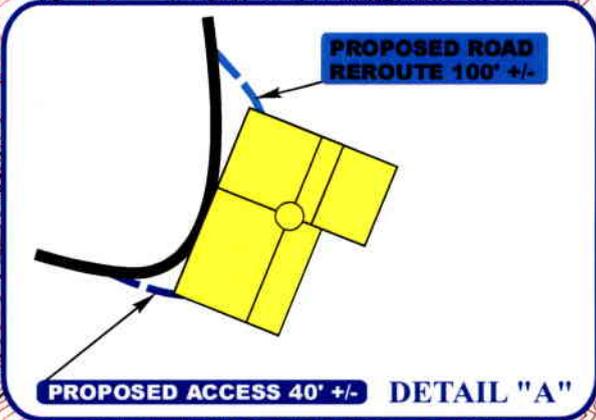
**ROCK HOUSE #7-36-10-22  
SECTION 36, T10S, R22E, S.L.B.&M.  
2209' FNL 2445' FEL**



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

**TOPOGRAPHIC MAP**  
02 28 05  
MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00





SEE DETAIL "A"

PROPOSED LOCATION:  
ROCK HOUSE #7-36-10-22

R  
22  
E

R  
23  
E

T10S  
T11S

STATE HIGHWAY 45 27.9 MI. +/-  
BONANZA 37.1 MI. +/-  
VERNAL 77.1 MI. +/-

**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- PROPOSED ROAD REROUTE



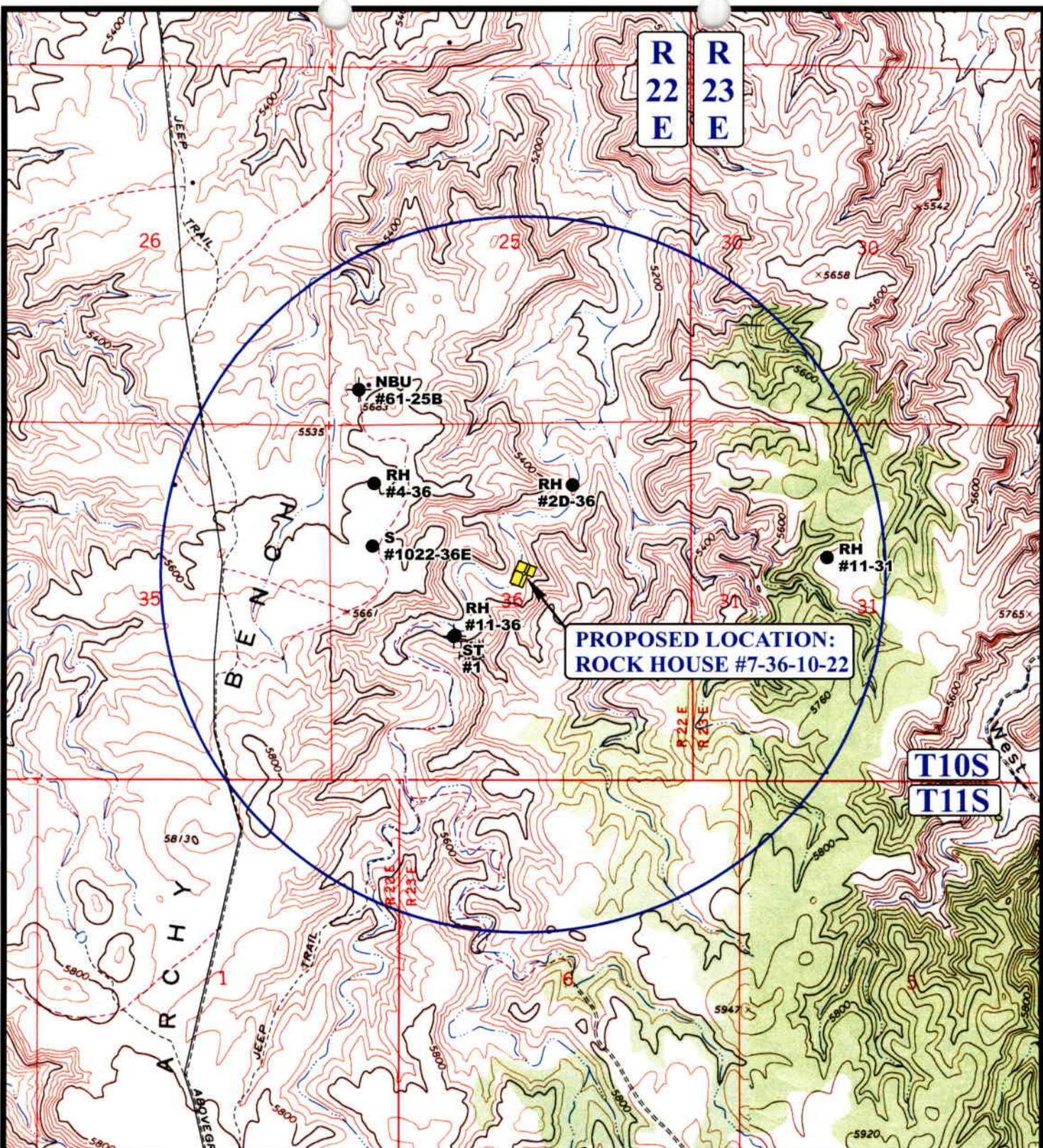
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**THE HOUSTON EXPLORATION COMPANY**

**ROCK HOUSE #7-36-10-22**  
**SECTION 36, T10S, R22E, S.L.B.&M.**  
**2209' FNL 2445' FEL**

<b>TOPOGRAPHIC MAP</b>	<b>02</b>	<b>28</b>	<b>05</b>	<b>B TOPO</b>
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: C.P.		REVISED: 00-00-00	



**PROPOSED LOCATION:  
ROCK HOUSE #7-36-10-22**

**T10S  
T11S**

**LEGEND:**

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



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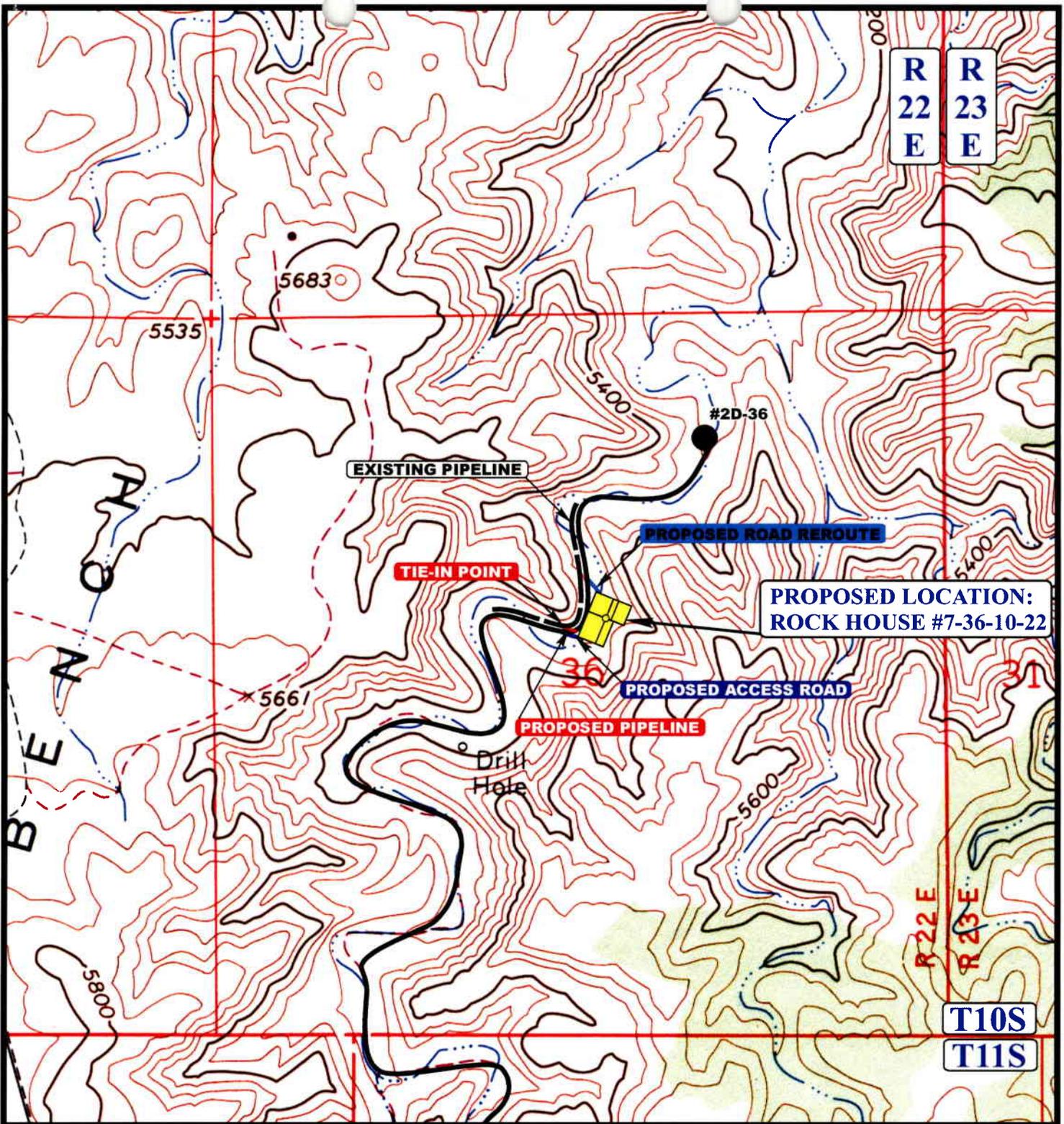
**ROCK HOUSE #7-36-10-22**  
**SECTION 36, T10S, R22E, S.L.B.&M.**  
**2209' FNL 2445' FEL**

**TOPOGRAPHIC  
MAP**

**02 28 05**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 40' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**THE HOUSTON EXPLORATION COMPANY**

**ROCK HOUSE #7-36-10-22**  
**SECTION 36, T10S, R22E, S.L.B.&M.**  
**2209' FNL 2445' FEL**



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 85 South 200 East Vernal, Utah 84078  
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**TOPOGRAPHIC** 02 28 05  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/18/2005

API NO. ASSIGNED: 43-047-36409

WELL NAME: ROCK HOUSE 7-36-10-22  
 OPERATOR: Enduring Res LLC ( N2750 )  
 CONTACT: BILL RYAN

PHONE NUMBER: 435-789-0968

PROPOSED LOCATION:

SWNE 36 100S 220E  
 SURFACE: 2209 FNL 2445 FEL  
 BOTTOM: 2209 FNL 2445 FEL  
 UINTAH  
 NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	4/21/05
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-47061  
 SURFACE OWNER: 3 - State  
 PROPOSED FORMATION: CSLGT  
 COALBED METHANE WELL? NO

LATITUDE: 39.90655  
 LONGITUDE: -109.3868

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 104155 044 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. T-75514 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

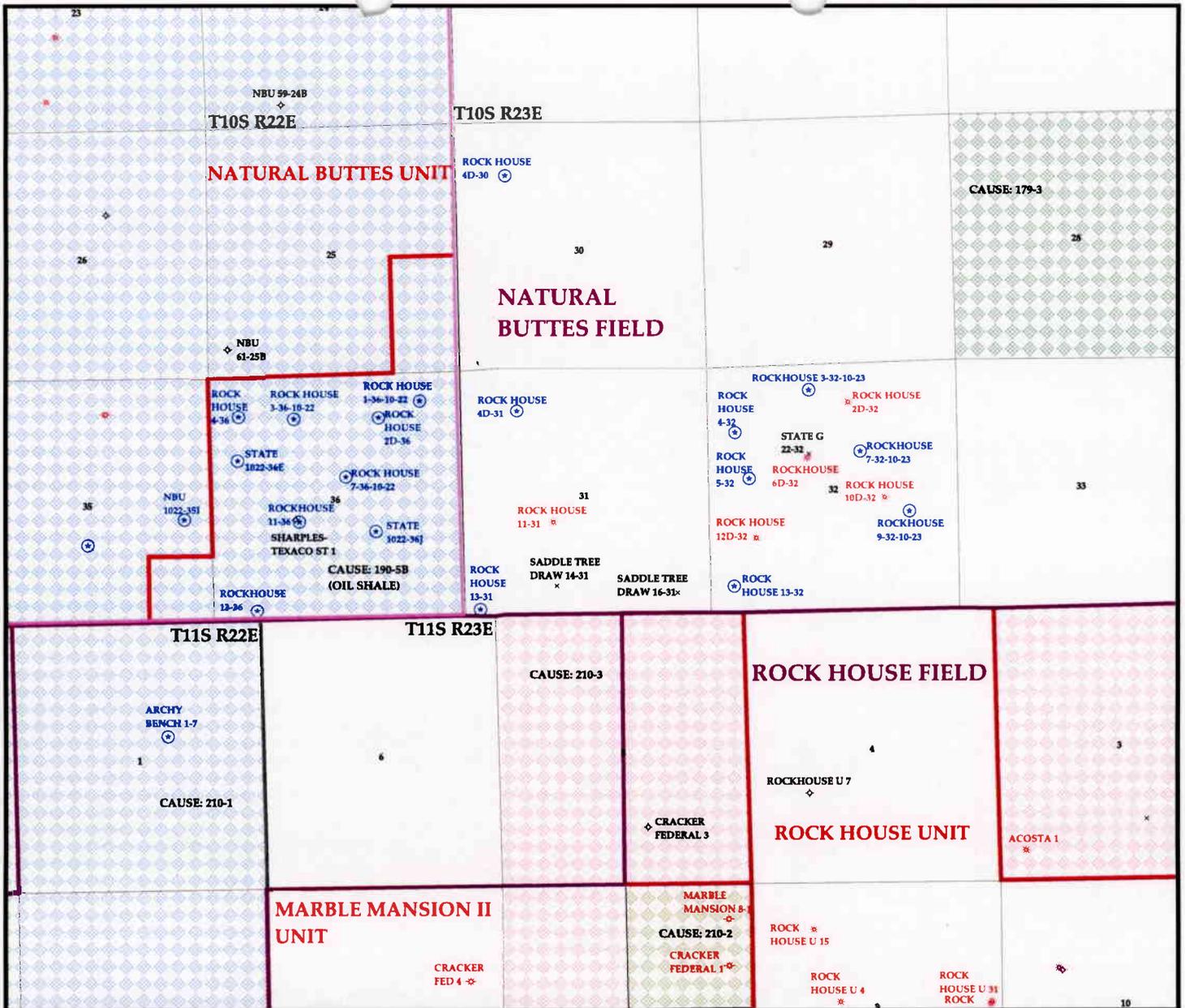
- \_\_\_ R649-2-3.  
Unit \_\_\_\_\_
- \_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- \_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- \_\_\_ R649-3-11. Directional Drill

COMMENTS:

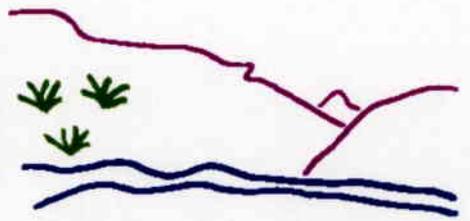
Needs Permit (Recd 4-11-05)

STIPULATIONS:

- 1- Spacing Strip
- 2- OIL SHALE
- 3- STATEMENT OF BASIS



**OPERATOR- THE HOUSTON EXPL CO (N2525)**  
 SEC. 36 T.10S R.22E  
 FIELD: NATURAL BUTTES (630)  
 COUNTY: UINTAH  
 SPACING: R649-3-3 / EXCEPTION LOCATION



Utah Oil Gas and Mining

Wells	Units.shp	Fields.shp
♣ GAS INJECTION	□ EXPLORATORY	□ ABANDONED
☆ GAS STORAGE	□ GAS STORAGE	□ ACTIVE
× LOCATION ABANDONED	□ NF PP OIL	□ COMBINED
⊕ NEW LOCATION	□ NF SECONDARY	□ INACTIVE
⊕ PLUGGED & ABANDONED	□ PENDING	□ PROPOSED
★ PRODUCING GAS	□ PI OIL	□ STORAGE
● PRODUCING OIL	□ PP GAS	□ TERMINATED
⊕ SHUT-IN GAS	□ PP GEOTHERML	
⊕ SHUT-IN OIL	□ PP OIL	
× TEMP. ABANDONED	□ SECONDARY	
○ TEST WELL	□ TERMINATED	
♣ WATER INJECTION		
♣ WATER SUPPLY		
♣ WATER DISPOSAL		



PREPARED BY: DIANA WHITNEY  
 DATE: 21-MARCH-2005

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

OPERATOR: The Houston Exploration Company  
WELL NAME & NUMBER: Rock House 7-36-10-22  
API NUMBER: 43-047-36409  
LEASE: State FIELD/UNIT: Natural Buttes  
LOCATION: 1/4,1/4 SWNE Sec: 36 TWP: 10S RNG: 22E 2209 FNL 2445 FEL  
LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.  
GPS COORD (UTM): X =637895 E; Y =4418421 N SURFACE OWNER: State

PARTICIPANTS

Bart Kettle (DOGM), Ginger Stringham (Agent), Cory Stubbs (Dirt Contractor) and Floyd Bartlett (DWR).

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is ~77 miles south of Vernal, Uintah County, Utah. The immediate area surrounding the proposed well is steep rocky canyons and dry washes, vegetation is dominated by salt scrub and big sage communities. The proposed location sits in a 6-8" zone, ground cover is sparse and soils are erosive in nature. Slopes are generally steep with shallow soils and large sandstone or shale outcrops. Access to this well will be along existing roads, diversion of the main drainage and one small side drainage will be required to build the location. Drainage is to the north entering the White River ~2 miles away. There are no observed perennial water sources in close proximity to the well and dry washes appear to only flow during extreme rain events.

SURFACE USE PLAN

CURRENT SURFACE USE: Seasonal sheep grazing, wildlife habitat.

PROPOSED SURFACE DISTURBANCE: 345' x 215', 40' of new access road.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: NBU #61-25B, Rockhouse #4-36, S #1022-36E, Rockhouse #2D-36, Rockhouse #11-36, ST #1, and Rockhouse 11-31.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Production facilities such as separators, dehydrators, flow meters and tanks will be located on-site. The Sales Gas line will be installed if the well is capable or economic production.

SOURCE OF CONSTRUCTION MATERIAL: On-site

ANCILLARY FACILITIES: None required

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? (EXPLAIN): Drilling at this location is not expected to generate public interest.

## WASTE MANAGEMENT PLAN:

Garbage and other trash will be contained in an acceptable trash container. Refuse will be transported to an approved sanitary landfill. Sewage will be handled in self-contained portable toilets and contents hauled off location to an authorized facility in accordance with State and local regulations.

Reserve pit will be fenced according to procedure in Application to Drill. A 12-mil liner will be place in pit, a felt liner may be required if sharp rocks threaten the integrity of the liner. Drill cuttings will be constrained in the reserve pit. Produced liquid hydrocarbons will be constrained in test tanks during completion and testing.

## ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: Construction of the well pad will require considerable alteration of the main wash. Proposed location is located over both sides of the wash. Riprap may be required at the upstream and downstream point of diversion to help diffuse energy of flows and protect location. Some increased sedimentation in the watershed will occur during the first flow event, however long term sediment loads caused by the building of this location should be minor when compared to the normal sediment load for the watershed.

FLORA/FAUNA: Mule Deer, Elk, rabbits, rodents, songbirds, raptors, lizards and snakes.

Grasses: Bottlebrush squirreltail, cheatgrass, Indian Ricegrass. Forbs: None noted. Shrubs: Wyoming sage, spiny hopsage, black greasewood, shadscale and Douglas rabbitbrush. Trees: None noted

SOIL TYPE AND CHARACTERISTICS: Gray alluvial deposits along wash, sandy clay loam and rock fragments outside of wash.

SURFACE FORMATION & CHARACTERISTICS: Mixture of Uinta and Green River Formations. Formations have been cut by water, creating steep canyon walls comprised mainly of rock outcrops.

EROSION/SEDIMENTATION/STABILITY: Fine soils prone to wind erosion. Soils are erosive in nature, with topsoil absent or a thin layer over most of the area. All soils are subject to significant erosion during rain events sufficient to create flows in washes.

PALEONTOLOGICAL POTENTIAL: None noted

## RESERVE PIT

CHARACTERISTICS: 75'x150'x12'

LINER REQUIREMENTS (Site Ranking Form attached): Liner is required.

## SURFACE RESTORATION/RECLAMATION PLAN

As per surface use agreement

SURFACE AGREEMENT: Per SITLA mineral lease.

CULTURAL RESOURCES/ARCHAEOLOGY: To be submitted.

**OTHER OBSERVATIONS/COMMENTS**

Rip rap along the upstream and downstream diversion points may be required to help dissipate energy of flows at diversion points. Site is classified as yearlong deer range of limited value, elk winter range limited in value, yearlong antelope limited in value. No raptor data available, no nests of whitewash observed during on-site. Additional raptor surveys should be done in the general area. No significant wildlife concerns. Diverting drainage on west side of location may be subject to failure.

**ATTACHMENTS**

Photos of this location were taken and placed on file.

Bart Kettle  
DOGM REPRESENTATIVE

April 11, 2005 11:50 A.M.  
DATE/TIME

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

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>15</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</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 I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required, consider criteria for excluding pit use.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.





APR 7 2005



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

**OPERATOR:** The Houston Exploration Company  
**WELL NAME & NUMBER:** Rockhouse #7-36-10-22  
**API NUMBER:** 43-047-36409  
**LOCATION:** 1/4,1/4 SWNE Sec:36 TWP:10S RNG:22E 2209 FNL 2445 FEL

**Geology/Ground Water:**

The Houston Ex. Co. proposes to set 2,000 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 4,400 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. 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:** 04-12-05

**Surface:**

On-site conducted April 7, 2005. In attendance: Bart Kettle (DOGM), Ginger Stringham (Agent), Cory Stubbs (Dirt Contractor) and Floyd Bartlett (DWR), invited but choosing not to attend Ed Bonner (SITLA).

Proposed location lies within arid steep canyon regions of Natural Butts field. Rain events are rare, but heavy rain events can cause significant flows in dry washes. Rip rap along the diversion points of main wash at both upstream and downstream locations will be needed to protect the integrity of the location. Per surface use proposal in Application for Permit to Drill reserve pit will be lined and fenced on three side while well is being drilled, with the fourth side being fenced immediately upon completion of drilling. No significant wildlife concerns exist, DWR is not asking for season restrictions on drilling activities. Access road into location is a RS2477, as such it will not be upgraded or significantly altered.

**Reviewer:** Bart Kettle **Date:** April 11, 2005

**Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner shall be installed in the reserve pit (12 mil. Minimum), felt liner will be required to prevent rock punctures of the liner.
2. Rocks from construction of location and reserve pit will be used as rip rap at diversion points of existing wash.

-05 Houston Rock House 7-10-22

Casing Schematic

Green River

Surface

8-5/8"  
MW 8.4  
Frac 19.3

TOC @  
0.

1220 TOC Tail

Surface  
2000. MD

w/18% Washout

BHD

$$(0.52)(10)(7893) = 4104$$

Anticipate < 3,000

✓ propose TOC ≥ 2500'

3651 Washout

Gas

$$(0.12)(7893) = 947$$

MMSF = 3157

TOC @  
4082.

4400 BMSW

Fluid

$$(0.22)(7893) = 1736$$

MMSF = 2368

w/15% Washout

TOC 2420 w/ 1% Washout

5551 Mesaverde

BOP - 3,000 ✓

6041 TOC Tail

Surf CSG - 4460

$$70\% = 3122$$

Mat pressure @ shoe = 1704

TEST TO 1700# ✓

4-1/2"  
MW 10.

Production  
7893. MD

✓ Adequate Dec 4/21/05

Well name:	<b>04-05 Houston Rock House 7-36-10-22</b>	
Operator:	<b>The Houston Exploration Company</b>	Project ID:
String type:	Surface	43-047-36409
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: 1,749 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 7,893 ft  
Next mud weight: 10.000 ppg  
Next setting BHP: 4,100 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	36.00	J-55	ST&C	2000	2000	7.7	143.5
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	3450	3.954	2000	4460	2.23	63	434	6.89 J

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

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

Date: April 18, 2005  
Salt Lake City, Utah

**Remarks:**

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

Burst strength is not adjusted for tension.

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

Well name:	<b>04-05 Houston Rock House 7-36-10-22</b>	
Operator:	<b>The Houston Exploration Company</b>	Project ID:
String type:	Production	43-047-36409
Location:	Uintah County	

**Design parameters:**

**Collapse**

Mud weight: 10.000 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 3,153 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP: 4,100 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: 6,713 ft

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 176 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 4,082 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	7893	4.5	11.60	N-80	LT&C	7893	7893	3.875	183
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	4100	6350	1.549	4100	7780	1.90	78	223	2.86 J

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

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

Date: April 18, 2005  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 7893 ft, a mud weight of 10 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:** 4/21/2005 2:34:20 PM  
**Subject:** Well Clearance

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

The Houston Exploration Company

- Buck Camp 2-2
- Buck Camp 4-36
- Hanging Rock 1-32
- Hanging Rock 16-32
- Rockhouse 3-32-10-23
- Rockhouse 7-32-10-23
- Rockhouse 9-32-10-23
- Rock House 4-32
- Rock House 5-32
- Rock House 13-32
- Rock House 1-36-10-22
- Rock House 3-36-10-22
- Rock House 7-36-10-22 ✓
- Rock House 12-36-10-22

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

**CC:** Garrison, LaVonne; ginger\_stringham@yahoo.com; Hill, Brad; Hunt, Gil

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: The Houston Exploration Company <i>N2525</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1100 Louisiana, Ste 2000    CITY Houston    STATE TX    ZIP 77002		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached List		8. WELL NAME and NUMBER: See Attached List
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER:
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT:
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"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate)  Approximate date work will start: <u>Effective 9/1/05</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"/> <b>SUBSEQUENT REPORT</b> (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 checked="" type="checkbox"/> OPERATOR CHANGE <u>9/1/05</u>	<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 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.**

Enduring Resources, LLC    Operator #N 2750    Utah State Bond #RLB0008031  
 475 17th Street, Ste 1500  
 Denver, CO 80202

Contact : Frank Hutto 303-350-5102

*Frank Hutto* VP. OPS  
 \_\_\_\_\_  
 Signature & Title  
 Date 9/19/05

NAME (PLEASE PRINT) <u>Joanne Hresko</u>	TITLE <u>Vice President/General Manager Onshore</u>
SIGNATURE <i>Joanne Hresko</i>	DATE <u>9/2/2005</u>

(This space for State use only) **APPROVED** 9/29/2005  
*Earlene Russell*  
**Earlene Russell, Engineering Technician**

**RECEIVED**  
**SEP 26 2005**  
 DIV. OF OIL, GAS & MINING

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

**Request to Transfer Application or Permit to Drill**

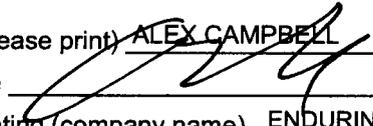
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	Rock House 7-36-10-22
<b>API number:</b>	4304736409
<b>Location:</b>	Qtr-Qtr: SWNE Section: 36 Township: 10S Range: 22E
<b>Company that filed original application:</b>	Houston Exploration Company
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	

Check one	Desired Action:
<input checked="" type="checkbox"/>	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?		<input checked="" type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?		<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?		<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>RLB0008031</u>	<input checked="" type="checkbox"/>	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) ALEX CAMPBELL Title VICE PRESIDENT OF LAND  
 Signature  Date 09/19/2005  
 Representing (company name) ENDURING RESOURCES, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

**SEP 26 2005**

DIV. OF OIL, GAS & MINING

## TRANSFER OF OPERATOR

NATURAL BUTTES FIELD, UINTAH COUNTY, UTAH  
DRILLED WELLS, TO BE OPERATED BY ENDURING RESOURCES, LLC

API Well Number	Well Name	Well Status	Qtr/Qtr	Section	Township-Range	FNL/FSL	FEL/FWL	Latitude	Longitude
43047355550000	Bonanza #10D-18	SI	NWSE	18	9S-24E	1437 S	1800 E	40.03340	-109.25282
43047355510000	Bonanza #12D-12	Producing	NWSW	12	9S-23E	1556 S	867 W	40.04788	-109.28055
43047356930000	Bonanza #2D-27	Producing	NWNE	27	9S-24E	1064 N	1824 E	40.01123	-109.19600
43047359080000	Bonanza 10-11	Producing	NWSE	11	9S-23E	1991 S	1755 E	40.04866	-109.29035
43047356920000	Bonanza 10D-8	SI	NWSE	8	9S-24E	1510 S	1768 E	40.04789	-109.23383
43047355520000	Bonanza 1-11	Producing	NWNW	11	9S-23E	990 N	990 E	40.05431	-109.29891
43047359290000	Bonanza 12-20	Drig	NWSW	20	9S-25E	1998 S	825 W	40.01947	-109.13150
43047-359210000	Bonanza 12A-18	Producing	NWSW	18	9S-24E	2067 S	813 W	40.03430	-109.26242
43047359090000	Bonanza 14-12	Evaluating	SESW	12	9S-23E	505 S	2001 W	40.04455	-109.27693
43047359940000	Bonanza 4-18	WOPL	NWNW	18	9S-24E	706 N	682 W	40.04119	-109.26288
43047-356220000	Bonanza 4D-16	Producing	NWNW	16	9S-24E	1152 N	1209 W	40.04000	-109.22349
43047358600000	Bonanza 6-36	Producing	SENW	36	9S-24E	2217 N	2009 W	39.99336	-109.16393
43047359120000	Bonanza 6B-8	Producing	SENW	8	9S-24E	2017 N	1878 W	40.05213	-109.24004
43047359200000	Bonanza 8D-7	Producing	SENE	7	9S-24E	1992 N	477 E	40.05220	-109.24845
43047359050000	Buck Canyon 15-24	P&A	SW/SE	24	12S-21E	700 S	2139 E	39.75386	-109.5134
43047348150000	Cartwright 2-35	TA	NWNE	35	9S-24E	858 N	2104 E	39.99733	-109.17882
43047332510000	East Bench 11-16	WOC	NESW	16	11S-22E	S S	1980 W	39.85889	-109.46172
43047347560000	Hoss 15	Producing	SWSE	20	9S-25E	1291 S	2088 E	40.01767	-109.12236
43047348140000	Little Joe 11-7	TA	NENE	7	9S-25E	710 N	644 E	40.05562	-109.13601
43047361500000	Rainbow 14-17	WOC	SESW	17	11S-24E	780 S	1726 W	39.85689	-109.25731
43047361840000	Rainbow 2-16	WOC	NWNE	16	11S-24E	837 N	2136 E	39.86708	-109.23348
43047353630000	Southman Canyon 10D-36	Producing	NWSE	36	9S-23E	1757 S	1650 E	39.98991	-109.27148
43047353640000	Southman Canyon 12D-36	Producing	NWSW	36	9S-23E	1518 S	1069 W	39.98977	-109.28040
43047357700000	Southman Canyon 14C-36	Producing	SESW	36	9S-23E	648 S	1717 W	39.98689	-109.27716
43047357720000	Southman Canyon 16C-36	Producing	SESE	36	9S-23E	542 S	736 E	39.98607	-109.26912
43047356910000	Southman Canyon 2D-30	Producing	NWNE	30	9S-24E	1171 N	1502 E	40.01111	-109.25269
43047353650000	Southman Canyon 2D-36	Producing	NWNE	36	9S-23E	960 N	1751 E	39.99711	-109.27228
43047353610000	Southman Canyon 4D-36	Producing	NWNW	36	9S-23E	1163 N	1137 W	39.99623	-109.28012
43047353620000	Southman Canyon 6D-36	Producing	SENW	36	9S-23E	2466 N	2271 W	39.99336	-109.27635
43047357710000	Southman Canyon 8C-36	Producing	SENE	36	9S-23E	2185 N	694 E	39.99358	-109.26783
43047355590000	Thurston Federal #12-1	Producing	SESW	12	12S-21E	692 S	1959 W	39.78280	-109.51768

# TRANSFER OF OPERATOR BLM APPROVED WELLS #2

**PREVIOUS OPERATOR:** Houston Exploration Company

**NEW OPERATOR:** Enduring Resources, LLC

**EFFECTIVE DATE:** September 1st, 2005

Well Name	Q/Q	Sec	T	R	Lease Number	Footages f/ Sec Lines - SL	API Number
<del>Asphalt Wash 15-7</del>	<del>SW/SW</del>	<del>7</del>	<del>11S</del>	<del>24E</del>	<del>UTU-73010</del>	<del>739' FSL &amp; 629' FWL</del>	<del>43-047-36234</del>
Bonanza 16-18	SE/SE	18	9S	24E	UTU-73457	861' FSL & 715' FEL	43-047-35992
Bonanza 4-11	NW/NW	11	9S	23E	UTU-74426	671' FNL & 729' FWL	43-047-35968
Bonanza 10D-12	NW/SE	12	9S	23E	UTU-74426	1,785' FSL & 1,855' FEL	43-047-35919
Bonanza 12-11	NW/SW	11	9S	23E	UTU-74426	1748' FSL & 420' FWL	43-047-35916
Bonanza 14-18	SE/SW	18	9S	24E	UTU-73457	472' FSL & 2,010' FWL	43-047-35993
Bonanza 14A-8	SE/SW	8	9S	24E	UTU-73457	907' FSL & 2,298' FWL	43-047-35952
Bonanza 16A-27	SE/SE	27	9S	24E	UTU-80571	862' FSL & 581' FEL	43-047-35923
Bonanza 2-21	NW/NE	21	8S	25E	UTU-73470	1,207' FNL & 1,541' FEL	43-047-35926
Bonanza 3-8	NW/NW	8	9S	24E	UTU-73457	573' FNL & 1,518' FWL	43-047-35966
Bonanza 6D-7	SE NW	7	9S	24E	UTU-73457	2,310' FNL & 2,310' FWL	43-047-35690
Bonanza 8-11	SE/NE	11	9S	23E	UTU-74426	2,163 FNL & 615' FEL	43-047-35907
Bonanza 8B-27	SE/NE	27	9S	24E	UTU-80571	1,830' FNL & 735' FEL	43-047-35923
Buck Camp 4-25	NW/NW	25	11S	22E	UTU-74424	804 FNL & 695 FWL	43-047-36276
Buck Camp 4-26	NW/NW	26	11S	22E	UTU-74974	660' FNL & 660' FWL	43-047-36274
Buck Canyon 1-24	NE/NE	24	12S	21E	UTU-73440	488' FNL & 833' FEL	43-047-35606
<del>Buck Canyon 15-24</del>	<del>SW/SE</del>	<del>24</del>	<del>12S</del>	<del>21E</del>	<del>UTU-73440</del>	<del>760' FSL &amp; 2,139' FEL</del>	<del>43-047-35905</del>
<del>Buck Canyon 7-24</del>	<del>SW/NE</del>	<del>24</del>	<del>12S</del>	<del>21E</del>	<del>UTU-73440</del>	<del>2,041' FNL &amp; 2,171' FEL</del>	<del>43-047-35904</del>
<del>Buck Canyon 9-24</del>	<del>NE/SE</del>	<del>24</del>	<del>12S</del>	<del>21E</del>	<del>UTU-73440</del>	<del>1784' FSL &amp; 855' FEL</del>	<del>43-047-35903</del>
Rainbow 1-17	NE/NE	17	11S	24E	UTU-73920	795' FNL & 586' FEL	43-047-36151
Southman Canyon #14-30	SE/SW	30	9S	24E	UTU-80571	740' FSL & 1,737' FWL	43-047-35914
Southman Canyon #4C-30	NW/NW	30	9S	24E	UTU-80571	676' FNL & 568' FWL	43-047-35913
Southman Canyon 12-30	NW/SW	30	9S	24E	UTU-80571	1,912' FSL & 513' FWL	43-047-36104
Southman Canyon 8-30	SE/NE	30	9S	24E	UTU-80571	1,875' FNL & 818' FEL	43-047-35994
Southman Canyon 9-30	NE/SE	30	9S	24E	UTU-80571	2,089' FSL & 831' FEL	43-047-36019

\* 43047-35906  
• 43047-35953

# TRANSFER OF OPERATOR STATE OF UTAH APPROVED AND PENDING

# 3

**PREVIOUS OPERATOR:** Houston Exploration Company

**NEW OPERATOR:** Enduring Resources, LLC

**EFFECTIVE DATE:** September 1st, 2005

Well Name	Q/Q	Sec	T	R	Lease Number	Footages #/ Sec Lines - SL	API Number	FIELD	Well Type
Asphalt Wash 11-16-11-24	NESW	16	11S	24E	ML-73921	2000 FSL & 1900 FWL	43-047-37088	Undesignated	Gas
Asphalt Wash 12-16-11-24	NWSW	16	11S	24E	ML-47080	2060 FSL & 839 FWL	43-047-36873	Undesignated	Gas
Asphalt Wash 14-16-11-24	SESW	16	11S	24E	ML-47080	537 FSL & 2140 FWL	43-047-36876	Undesignated	Gas
Asphalt Wash 3-16-11-24	NENW	16	11S	24E	ML-47080	825 FNL & 2116 FWL	43-047-36886	Undesignated	Gas
Asphalt Wash 4-16-11-24	NWNW	16	11S	24E	ML-47080	521 FNL & 766 FWL	43-047-36885	Undesignated	Gas
Asphalt Wash 5-16-11-24	SWNW	16	11S	24E	ML-47080	1880 FNL & 630 FWL	43-047-37089	Undesignated	Gas
Asphalt Wash 7-16-11-24	SWNE	16	11S	24E	ML-47080	1781 FNL & 1676 FEL	43-047-36874	Undesignated	Gas
Asphalt Wash 8-16-11-24	SENE	16	11S	24E	ML-47080	1905 FNL & 642 FEL	43-047-36875	Undesignated	Gas
Bonanza 14-20	SESW	20	9S	25E	ML-45558	838' FSL & 1,922' FWL	43-047-35930	Chapita Wells	Gas
Bonanza 4-20	NWNW	20	9S	25E	ML-45558	933' FNL & 583 FWL	43-047-35924	Chapita Wells	Gas
Bonanza 4-29	NWNW	29	9S	25E	ML-45559	600' FNL & 596' FWL	43-047-36010	Chapita Wells	Gas
Bonanza 4-36	NWNW	36	9S	24E	ML-46527	258' FNL & 862' FWL	43-047-35861	Natural Buttes	Gas
Bonanza 6-20	SESW	20	9S	25E	ML-45558	2,178' FNL & 1,839' FWL	43-047-35928	Chapita Wells	Gas
<del>Buck Canyon 9-16-12-21</del>	<del>NESE</del>	<del>16</del>	<del>12S</del>	<del>24E</del>	<del>ML-47085</del>	<del>1980' FSL &amp; 660' FEL</del>	<del>43-047-37091</del>	<del>Buck Canyon</del>	<del>Gas</del>
Buck Canyon 11-16-12-21	NESW	16	12S	21W	ML-47085	NA	43-047-37119	Undesignated	Gas
Buck Canyon 13-16-21-21	SWSW	16	21S	21W	ML-47085	NA	43-047-37118	Undesignated	Gas
Buck Canyon 15-16-12-21	SWSE	16	12S	21W	ML-47085	NA	43-047-37120	Buck Canyon	Gas
East Bench 1-16	NENE	16	11S	22E	ML-46911	660' FNL & 660' FEL	43-047-36126	Undesignated	Gas
East Bench 15-16	SWSE	16	11S	22E	ML-46911	545' FSL & 1,848' FEL	43-047-36128	Undesignated	Gas
East Bench 3-16	NENW	16	11S	22E	ML-46911	832' FNL & 1,978' FWL	43-047-36125	Undesignated	Gas
East Bench 7-16	SWNE	16	11S	22E	ML-46911	1,909' FNL & 1,643' FEL	43-047-36127	Undesignated	Gas
East Bench 12-16-11-22	NWSW	16	11S	22E	ML-46911	1862 FSL & 838 FEL	43-047-37128	Undesignated	Gas
East Bench 13-16-11-22	SWSW	16	11S	22E	ML-46911	880 FSL & 750 FWL	43-047-37130	Undesignated	Gas
East Bench 14-16-11-22	SESW	16	11S	22E	ML-46911	848 FSL & 1930 FWL	43-047-37122	Undesignated	Gas
East Bench 16-16-11-22	SESE	16	11S	22E	ML-46911	663 FSL & 1055 FEL	43-047-37121	Undesignated	Gas
East Bench 2-16-11-22	NWNE	16	11S	22E	ML-46911	705 FNL & 2077 FEL	43-047-37125	Undesignated	Gas
East Bench 4-16-11-22	NWNW	16	11S	22E	ML-46911	760 FNL & 860 FWL	43-047-37126	Undesignated	Gas
East Bench 5-16-11-22	SWNW	16	11S	22E	ML-46911	1980 FNL & 758 FWL	43-047-37129	Undesignated	Gas
East Bench 6-16-11-22	SESW	16	11S	22E	ML-46911	1887 FNL & 2138 FWL	43-047-37124	Undesignated	Gas
East Bench 8-16-11-22	SENE	16	11S	22E	ML-46911	1880 FNL & 780 FEL	43-047-37127	Undesignated	Gas
East Bench 9-16-11-22	NESE	16	11S	22E	ML-46911	2035 FSL & 1422 FEL	43-047-37123	Undesignated	Gas
<del>Gusher 6-2</del>	<del>SESW</del>	<del>2</del>	<del>6S</del>	<del>19E</del>	<del>ML-49144</del>	<del>1550 FNL &amp; 1825 FWL</del>	<del>43-047-36969</del>	<del>Moffit Canal</del>	<del>Oil</del>
Hanging Rock 1-32	NENE	32	11S	23E	ML-47079	542' FNL & 690' FEL	43-047-36309	Undesignated	Gas
Little Pack Mountain 1-16	NWNW	16	12S	20E	ML-47082	609 FNL & 688 FEL	43-047-36981	Wildcat	Gas
Little Pack Mountain 7-32	SWNE	32	12S	20E	ML-47083	1792 FNL & 1797 FEL	43-047-36980	Wildcat	Gas
Rock House 12-36-10-23	NWSW	36	10S	23E	ML-47907	1844 FSL & 755 FWL	43-047-36534	Natural Buttes	Gas
Rock House 13-32-10-23	SWSW	32	10S	23E	ML-47063	564 FSL & 471 FWL	43-047-36411	Natural Buttes	Gas
Rock House 1-36-10-22	NENE	36	10S	22E	ML-47061	620 FNL & 850 FEL	43-047-36408	Natural Buttes	Gas
Rock House 3-36-10-22	NENW	36	10S	22E	ML-47061	934 FNL & 1783 FWL	43-047-36407	Natural Buttes	Gas
Rock House 4-32-10-23	SWNW	32	10S	23E	ML-47063	1406 FNL & 562 FWL	43-047-36412	Natural Buttes	Gas
Rock House 7-36-10-22	SWNE	36	10S	22E	ML-47061	2209 FNL & 2445 FEL	43-047-36409	Natural Buttes	Gas
<del>Rock House 9-32-10-23</del>	<del>NESE</del>	<del>32</del>	<del>10S</del>	<del>23E</del>	<del>ML-47063</del>	<del>2008 FSL &amp; 1042 FEL</del>	<del>43-047-36337</del>	<del>Natural Buttes</del>	<del>Gas</del>
Rockhouse #13-36	SWSW	36	10S	22E	ML-46907	486 FSL & 844' FWL	43-047-35902	Natural Buttes	Gas
Rockhouse 16-2	SESE	2	11S	23E	ML-47078	909' FSL & 748' FEL	43-047-36152	Rockhouse	Gas
Seep Springs 10-13-12-24	NWSE	13	12S	24E	ML-49275	1950 FSL & 1802 FEL	43-047-36634	Undesignated	Gas
Seep Springs 1-13-12-24	NENE	13	12S	24E	ML-49275	753 FNL & 487 FEL	43-047-36628	Undesignated	Gas
Seep Springs 15-11-12-24	SWSE	11	12S	24E	ML-49274	829 FSL & 2178 FEL	43-047-36626	Undesignated	Gas
Seep Springs 15-13-12-24	SWSE	13	12S	24E	ML-49275	622 FSL & 1806 FEL	43-047-36630	Undesignated	Gas
Seep Springs 16-11-12-24	SESE	11	12S	24E	ML-49274	659 FSL & 466 FEL	43-047-36625	Undesignated	Gas
Seep Springs 16-13-12-24	SESE	13	12S	24E	ML-49275	686 FSL & 640 FEL	43-047-36629	Undesignated	Gas
Seep Springs 2-13-12-24	NWNE	13	12S	24E	ML-49275	465 FNL & 1807 FEL	43-047-36627	Undesignated	Gas
Seep Springs 7-13-12-24	SWNE	13	12S	24E	ML-49275	FNL & FEL	43-047-36631	Undesignated	Gas
Seep Springs 8-13-12-24	SENE	13	12S	24E	ML-49275	1969 FNL & 642 FEL	43-047-36632	Undesignated	Gas
Seep Springs 9-13-12-24	NESE	13	12S	24E	ML-49275	663 FSL & 1960 FEL	43-047-36633	Undesignated	Gas
<del>Southman Canyon 11-36-9-23</del>	<del>NESW</del>	<del>36</del>	<del>9S</del>	<del>23E</del>	<del>ML-47782</del>	<del>1965 FSL &amp; 1953 FWL</del>	<del>43-047-36535</del>	<del>Natural Buttes</del>	<del>Gas</del>
<del>Southman Canyon 13-36-9-23</del>	<del>SWSW</del>	<del>36</del>	<del>9S</del>	<del>23E</del>	<del>ML-47782</del>	<del>467 FSL &amp; 825 FWL</del>	<del>43-047-36532</del>	<del>Natural Buttes</del>	<del>Gas</del>

# TRANSFER OF OPERATOR STATE OF UTAH APPROVED AND PENDING

**PREVIOUS OPERATOR:** Houston Exploration Company

**NEW OPERATOR:** Enduring Resources, LLC

**EFFECTIVE DATE:** September 1st, 2005

Well Name	Q/Q	Sec	T	R	Lease Number	Footages f/ Sec Lines - SL	API Number	FIELD	Well Type
Southman Canyon 1-36-9-23	NENE	36	9S	23E	ML-47782	681 FNL & 496 FEL	43-047-36537	Natural Buttes	Gas
Southman Canyon 15-36-9-23	SWSE	36	9S	23E	ML-47782	529 FSL & 1784 FEL	43-047-36529	Natural Buttes	Gas
Southman Canyon 3-36-9-23	NENW	36	9S	23E	ML-47782	464 FNL & 1815 FWL	43-047-36530	Natural Buttes	Gas
Southman Canyon 5-36-9-23	SWNW	36	9S	23E	ML-47782	2028 FNL & 499 FWL	43-047-36531	Natural Buttes	Gas
Southman Canyon 7-36-9-23	SENE	36	9S	23E	ML-47782	2184 FNL & 1994 FEL	43-047-36536	Natural Buttes	Gas
Southman Canyon 9-36-9-23	NESE	36	9S	23E	ML-47782	1978 FNL & 657 FEL	43-047-36533	Natural Buttes	Gas

# TRANSFER OF OPERATOR BLM PENDING WELLS

**PREVIOUS OPERATOR:** Houston Exploration Company

**NEW OPERATOR:** Enduring Resources, LLC

**EFFECTIVE DATE:** September 1st, 2005

Well Name	Q/Q	Sec	T	R	Lease Number	Footages f/ Sec Lines - SL	API Number
<del>Asphalt Wash 13-6</del>	<del>SW/SW</del>	<del>6</del>	<del>11S</del>	<del>24E</del>	<del>UTU-73919</del>	<del>400' FSL &amp; 550' FWL</del>	
Asphalt Wash 10-9-11-24	NW SE	9	11S	24E	UTU-73920	1846 FSL & 1942 FEL	43-047-37071
Asphalt Wash 11-9-11-24	NE SW	9	11S	24E	UTU-73920	1799 FSL & 1782 FWL	43-047-37073
Asphalt Wash 12-6-11-24	NW SW	6	11S	24E	UTU-73919	1844 FSL & 683 FWL	43-047-37066
Asphalt Wash 14-6-11-24	SE SW	6	11S	24E	UTU-73919	704 FSL & 2123 FWL	43-047-37067
Asphalt Wash 14-9-11-24	SE SW	9	11S	24E	UTU-73920	460 FSL & 2115 FWL	43-047-37076
Asphalt Wash 15-9-11-24	SW SE	9	11S	24E	UTU-73920	804 FSL & 1990 FEL	43-047-37074
Asphalt Wash 16-9-11-24	SE SE	9	11S	24E	UTU-73920	826 FSL & 472 FEL	43-047-37075
Asphalt Wash 2-6-11-24	NW NE	6	11S	24E	UTU-73919	735 FNL & 1590 FEL	43-047-37061
Asphalt Wash 2-7-11-24	NW NE	7	11S	24E	UTU-73919	621 FNL & 2462 FEL	43-047-37068
Asphalt Wash 2-9-11-24	NW NE	9	11S	24E	UTU-73920	829 FNL & 1774 FEL	43-047-37070
Asphalt Wash 3-6-11-24	NE NW	6	11S	24E	UTU-73919	792 FNL & 1925 FWL	43-047-37062
Asphalt Wash 4-6-11-24	NW NW	6	11S	24E	UTU-73919	820 FNL & 1007 FWL	43-047-37063
Asphalt Wash 5-6-11-24	SW NW	6	11S	24E	UTU-73919	1738 FNL & 716 FWL	43-047-37064
Asphalt Wash 6-7-11-24	SE NW	7	11S	24E	UTU-73919	2013 FNL & 2241 FWL	43-047-37069
Asphalt Wash 7-6-11-24	SW NE	6	11S	24E	UTU-73919	1616 FNL & 1615 FEL	43-047-37065
Asphalt Wash 7-9-11-24	SE NE	9	11S	24E	UTU-73920	1883 FNL & 1854 FEL	43-047-37072
Asphalt Wash 1-7-11-24	NE NE	7	11S	24E	UTU-73919	426 FNL & 270 FEL	43-047-37084
Asphalt Wash 4-7-11-24	NW NW	7	11S	24E	UTU-73919	856 FNL & 860 FWL	43-047-37085
Asphalt Wash 7-7-11-24	SW NE	7	11S	24E	UTU-73919	1909 FNL & 1893 FEL	43-047-37087
Asphalt Wash 8-7-11-24	SE NE	7	11S	24E	UTU-73919	1998 FNL & 683 FEL	43-047-37086
Bonanza 4-7	NW/NW	7	9S	24E	UTU-73457	809' FNL & 670' FWL	43-047-36017
Bonanza 8-17	SW/NE	17	9S	24E	UTU-73457	1865' FNL & 584' FEL	43-047-36041
Bonanza 11-11-9-23	NE SW	11	9S	23E	UTU-74426	2036 FSL & 2043 FWL	43-047-36649
Bonanza 11-12-9-23	NE SW	12	9S	23E	UTU-74426	1799 FSL & 1948 FWL	43-047-36655
Bonanza 11-18-9-24	NE SW	18	9S	24E	UTU-73457	1785 FSL & 2133 FWL	43-047-36637
Bonanza 12-23-9-24	NW/SW	23	9S	24E	UTU-81311	1882 FSL & 699 FWL	43-047-36640
Bonanza 12-35	NW/SW	35	9S	24E	UTU 73459	1374' FSL & 858' FWL	43-047-36020
Bonanza 13-11-9-23	SW SW	11	9S	23E	UTU-74426	463 FSL & 773 FWL	43-047-36650
Bonanza 13-12-9-23	SW SW	12	9S	23E	UTU-74426	661 FSL & 656 FWL	43-047-36528
Bonanza 13-18-9-24	SW SW	18	9S	24E	UTU-73457	767 FSL & 583 FWL	43-047-36638
Bonanza 14-11-9-23	SE SW	11	9S	23E	UTU-74426	756 FSL & 1859 FWL	43-047-36651
Bonanza 14-23-9-24	SE/SW	23	9S	24E	UTU-81311	560 FSL & 1878 FWL	43-047-36641
Bonanza 15-11-9-23	SW SE	11	9S	23E	UTU-74426	660 FSL & 1980 FEL	43-047-36652
Bonanza 15-12-9-23	SW SE	12	9S	23E	UTU-74426	607 FSL & 1920 FEL	43-047-36656
Bonanza 15-18-9-24	SW SE	18	9S	24E'	UTU-73457	463 FSL & 2162 FEL	43-047-36639
Bonanza 16-12-9-23	SE SE	12	9S	23E	UTU-74426	855 FSL & 536 FEL	43-047-36657
Bonanza 16-8	SE/SE	8	9S	24E	UTU-73457	588' FSL & 524' FEL	43-047-36101
Bonanza 2-11-9-23	NW NE	11	9S	23E	UTU 74426	664 FNL & 1925 FEL	43-047-36643
Bonanza 2-12-9-23	NW NE	12	9S	23E	UTU-74426	743 FNL & 1962 FEL	43-047-36527
Bonanza 3-11-9-23	NE NW	11	9S	23E	UTU 74426	499 FNL & 1898 FWL	43-047-36644
Bonanza 3-12-9-23	NE NW	12	9S	23E	UTU-74426	734 FNL & 1866 FWL	43-047-36524
Bonanza 4-35	NW/NW	35	9S	24E	UTU 73459	789' FNL & 807' FWL	43-047-35925
Bonanza 5-11-9-23	SW NW	11	9S	23E	UTU 74426	1794 FNL & 609 FWL	43-047-36645

# TRANSFER OF OPERATOR BLM PENDING WELLS

**PREVIOUS OPERATOR:** Houston Exploration Company

**NEW OPERATOR:** Enduring Resources, LLC

**EFFECTIVE DATE:** September 1st, 2005

Well Name	Q/Q	Sec	T	R	Lease Number	Footages f/ Sec Lines - SL	API Number
Bonanza 5-12-9-23	SW NW	12	9S	23E	UTU-74426	1996 FNL & 558 FWL	43-047-36526
Bonanza 5-18-9-24	SW NW	18	9S	24E	UTU-73457	2147 FNL & 662 FWL	43-047-36635
Bonanza 5-22	SW/NW	22	8S	25E	UTU-73470	1,932' FNL & 415' FWL	43-047-35918
Bonanza 5-24-9-24	SW/NW	24	9S	24E	UTU-73458	2167 FNL & 714 FWL	43-047-36642
Bonanza 6-11-9-23	SE NW	11	9S	23E	UTU-74426	2069 FNL & 1801 FWL	43-047-36646
Bonanza 6-12-9-23	SE NW	12	9S	23E	UTU-74426	2114 FNL & 1871 FWL	43-047-36525
Bonanza 7-11-9-23	SW NE	11	9S	23E	UTU-74426	2060 FNL & 2134 FEL	43-047-36647
Bonanza 7-12-9-23	SW NE	12	9S	23E	UTU-74426	2065 FNL & 2159 FEL	43-047-36653
Bonanza 8-35	SENE	35	9S	24E	UTU-73459	1987' FNL & 909' FEL	43-047-36105
Bonanza 9-11-9-23	NE SE	11	9S	23E	UTU-74426	2008 FSL & 553 FEL	43-047-36648
Bonanza 9-12-9-23	NE SE	12	9S	23E	UTU-74426	1980 FSL & 660 FEL	43-047-36654
Bonanza 9-18-9-24	NE SE	18	9S	24E	UTU-73457	2009 FSL & 852 FEL	43-047-36636
Bonanza 9-22	NE/SE	22	9S	24E	UTU-75118	1,969' FSL & 495' FEL	43-047-36102
East Bench 9-20	NE/SE	20	11S	22E	UTU-73905	2,170' FSL & 472' FEL	43-047-36275
Rock House 12-30-10-23	NE SW	30	10S	23E	UTU-76281	2320 FSL & 1980 FWL	43-047-36548
Rock House 12-31-10-23	NW SW	31	10S	23E	UTU-76281	1900 FSL & 460 FWL	43-047-36552
Rock House 13-30-10-23	SW SW	30	10S	23E	UTU-76281	553 FSL & 573 FWL	43-047-36549
Rock House 14-31-10-23	SE SW	31	10S	23E	UTU-76281	860 FSL & 1890 FWL	43-047-36553
Rock House 3-31-10-23	NE NW	31	10S	23E	UTU-76281	854 FNL & 1940 FWL	43-047-36551
Rock House 5-30-10-23	SW NW	30	10S	23E	UTU-76281	1858 FNL & 703 FWL	43-047-36547
Rock House 5-31-10-23	SW NW	31	10S	23E	UTU-76281	2055 FNL & 2097 FWL	43-047-36550
Rock House 6-31-10-23	SE NW	31	10S	23E	UTU-76281	2059 FNL & 2111 FWL	43-047-36554
<del>Reckhouse #12-30</del>	<del>NW/SW</del>	<del>30</del>	<del>10S</del>	<del>23E</del>	<del>UTU-80571</del>	<del>1,980' FSL &amp; 660' FWL</del>	<del>43-047-36018</del> X
Rockhouse 13C-31	SW/SW	31	10S	23E	UTU-76281	135' FSL & 365' FWL	43-047-35911
Rockhouse 4D-30	NW NW	30	10S	23E	UTU-76281	1,116 FNL & 1,135' FWL	43-047-35882
Rockhouse 4D-31	NW NW	31	10S	23E	UTU-76281	990' FNL & 990' FWL	43-047-35807
Southman Canyon 12-3-11-24	NW/SW	3	11S	24E	UTU-73918	1,950' FSL & 514' FWL	43-047-36272
Southman Canyon 12-30-10-24	NW/SW	30	10S	24E	UTU-65371	2,118' FSL & 502' FWL	43-047-36238
Southman Canyon 13-30	SW/SW	30	9S	24E	UTU-80571	765' FSL & 303' FWL	43-047-36018
Southman Canyon 16-31-10-24	SE/SE	31	10S	24E	UTU-65371	621' FSL & 575' FEL	43-047-36270
Southman Canyon 4-30-10-24	NW/NW	30	10S	24E	UTU 65371	649' FNL & 607' FWL	43-047-36237
Southman Canyon 5-19-10-24	SW/NW	19	10S	24E	UTU-65371	1,978' FNL & 855' FWL	43-047-36236
Southman Canyon 6-30	SE/NW	30	9S	24E	UTU-80571	2,015' FNL & 2,581' FWL	43-047-36103

*X Duplicate API -  
Different well name*

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ
2. CDW

**X Change of Operator (Well Sold)**

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

**9/1/2005**

<b>FROM:</b> (Old Operator): N2525-The Houston Exploration Company 1100 Louisiana, Suite 2000 Houston, TX 77002 Phone: 1-(713) 830-6938	<b>TO:</b> ( New Operator): N2750-Enduring Resources, LLC 475 17th Street, Suite 1500 Denver, CO 80202 Phone: 1-(303) 350-5102
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**CA No.**

**Unit:**

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SOUTHMAN CYN 10D-36	36	090S	230E	4304735363	14093	State	GW	P
SOUTHMAN CYN 12D-36	36	090S	230E	4304735364	14063	State	GW	P
SOUTHMAN CYN 2D-36	36	090S	230E	4304735365	14079	State	GW	S
SOUTHMAN CYN 14C-36	36	090S	230E	4304735770	14320	State	GW	P
SOUTHMAN CYN 8C-36	36	090S	230E	4304735771	14292	State	GW	P
SOUTHMAN CYN 16C-36	36	090S	230E	4304735772	14265	State	GW	P
SOUTHMAN CYN 15-36-9-23	36	090S	230E	4304736529		State	GW	APD
SOUTHMAN CYN 3-36-9-23	36	090S	230E	4304736530		State	GW	APD
BONANZA 4D-16	16	090S	240E	4304735622	14319	State	GW	P
ROCK HOUSE 13-36	36	100S	220E	4304735902		State	GW	APD
ROCK HOUSE 3-36-10-22	36	100S	220E	4304736407		State	GW	NEW
ROCK HOUSE 1-36-10-22	36	100S	220E	4304736408		State	GW	APD
ROCK HOUSE 7-36-10-22	36	100S	220E	4304736409		State	GW	NEW
ROCK HOUSE 13-32-10-23	32	100S	230E	4304736411		State	GW	APD
ROCK HOUSE 4-32-10-23	32	100S	230E	4304736412		State	GW	APD
EAST BENCH 3-16	16	110S	220E	4304736125		State	GW	NEW
EAST BENCH 1-16	16	110S	220E	4304736126		State	GW	NEW
EAST BENCH 7-16	16	110S	220E	4304736127		State	GW	NEW
EAST BENCH 15-16	16	110S	220E	4304736128		State	GW	NEW
ROCK HOUSE 16-2	02	110S	230E	4304736152		State	GW	APD
HANGING ROCK 1-32	32	110S	230E	4304736309		State	GW	APD
RAINBOW 2-16	16	110S	240E	4304736184	14657	State	GW	DRL

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/26/2005
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/26/2005
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 9/29/2005
- Is the new operator registered in the State of Utah: YES Business Number: 5771233-0161
- If **NO**, the operator was contacted on:
- a. (R649-9-2)Waste Management Plan has been received on: Requested 9/29/05
- b. Inspections of LA PA state/fee well sites complete on: n/a

6c. Reports current for Production/Disposition & Sundries on: 9/29/2005

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA n/a

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: \_\_\_\_\_ not yet

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 9/29/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 9/29/2005
3. Bond information entered in RBDMS on: 9/30/2005
4. Fee/State wells attached to bond in RBDMS on: 9/30/2005
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 9/26/2005

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000173

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: n/a

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0008031

2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



ENDURING RESOURCES

475 Seventeenth Street Suite 1500 Denver Colorado 80202  
Telephone: 303 573 1222 Facsimile: 303 573 0461

October 28, 2005

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

RE: Pending APD's - Directional Drilling  
Uintah County, Utah

Dear Diana:

Enduring Resources, LLC ("ERLLC") has acquired the leasehold and below-referenced wells' APD's from The Houston Exploration Company. ERLLC plans to these well **directionally** to "standard" locations as follows:

- Rock House 3-36-10-22 Well
  - Surface: 934' FNL - 1,783' FWL
  - BHL: 660' FNL - 1,980' FWL
  - NENW Sec 36, T10S-R22E
- Rock House 7-36-10-22 Well
  - Surface: 2,209' FNL - 2,445' FEL
  - BHL: 1,980' FNL - 1,980' FEL
  - SENE Sec 36, T10S-R22E

In order for ERLLC to proceed with its plans, approval from lease owners within 460 feet from all points along the intended well bores is need. Therefore, ERLLC respectfully requests Kerr-McGee's approval to the subject wells being drilled directionally as setforth herein by signing one copy of this letter in the space provided below and returning it to this office.

Should you have any questions concerning this matter, please do not hesitate to call 303-350-5114 ([aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)).

Very truly yours,

ENDURING RESOURCES, LLC

Alvin R. (Al) Arlian  
Landman - Regulatory Specialist

AGREED TO AND APPROVED THIS 3rd DAY OF NOVEMBER, 2005.

KERR-MCGEE CORPORATION

Westport's approval is conditional upon Endurings ability to locate the bottom hole as depicted on the attached wellbore diagrams.

X:   
BY: W. Chris Latimer, CPL

**ENDURING RESOURCES**  
**Rock House 7-36-10-22**  
**Uintah County, Utah**



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	63.80	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	63.80	2000.00	0.00	0.00	0.00	63.80	0.00	
3	2600.00	15.00	63.80	2593.17	34.48	70.07	2.50	63.80	78.09	
4	3600.00	15.00	63.80	3559.10	148.75	302.30	0.00	0.00	336.91	
5	4349.50	0.01	63.80	4300.06	191.85	389.88	2.00	180.00	434.53	
6	7949.44	0.01	63.80	7900.00	192.12	390.45	0.00	0.00	435.15	

SITE DETAILS	
Rock House 7-36-10-22	
SW/NE Sec. 36, T10S, R22E, Uintah County, Utah	
2209' FNL & 2445' FEL	
Ground Level: 5341.00	
Positional Uncertainty: 0.00	
Convergence: 1.35	

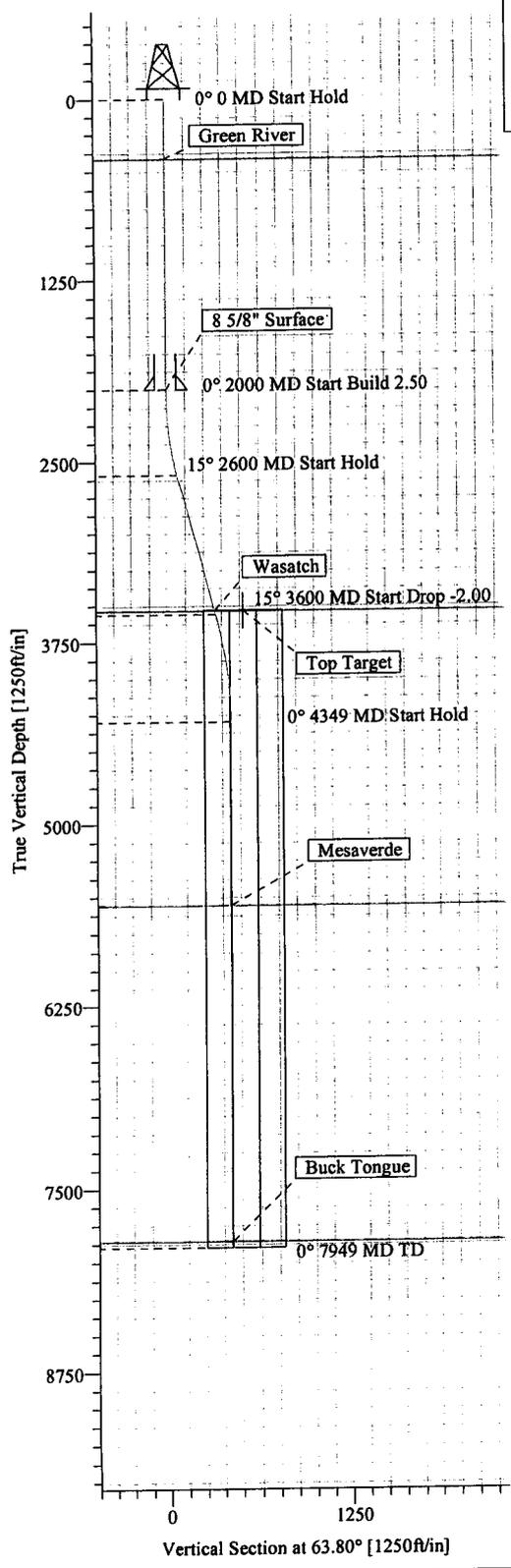
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rock House 7-36-10-22	0.00	0.00	7141683.94	2232931.49	39°54'23.460N	109°23'15.330W	N/A

TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
Top Target	3532.00	229.00	465.00	Rectangle (400x400)

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

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2000.00	2000.00	8 5/8" Surface	8.625

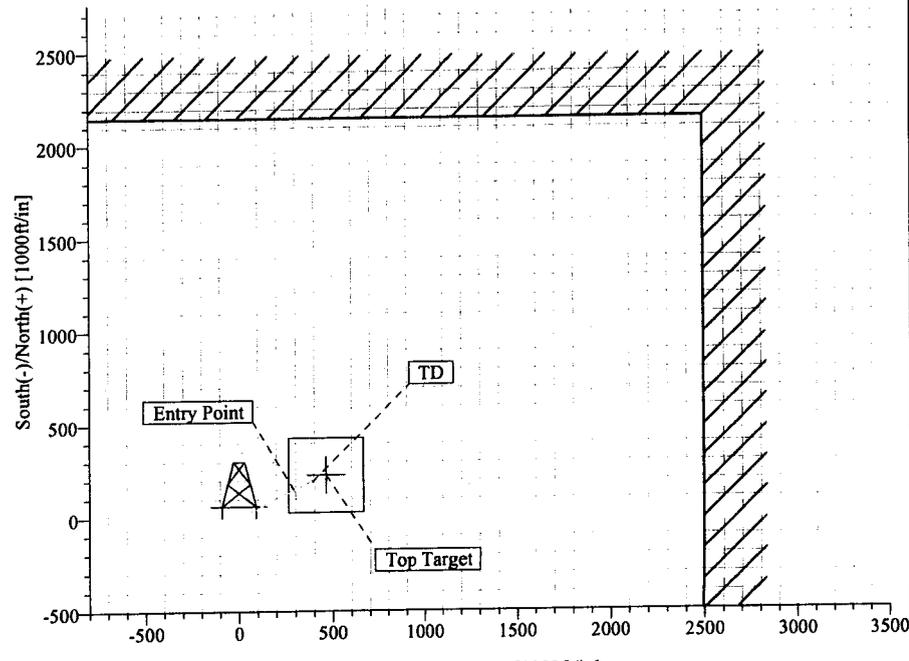
FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	412.00	412.00	Green River
2	3532.00	3571.95	Wasatch
3	5557.00	5606.44	Mesaverde
4	7852.00	7901.44	Buck Tongue



Azimuths to True North  
Magnetic North: 11.73°

Magnetic Field  
Strength: 52908nT  
Dip Angle: 65.96°  
Date: 10/31/2005  
Model: igrf2005

Total Correction: 11.73°





# Weatherford International

## Planning Report

**Company:** Enduring Resources  
**Field:** Natural Buttes  
**Site:** Rock House 7-36-10-22  
**Well:** Rock House 7-36-10-22  
**Wellpath:** 1

**Date:** 10/31/2005 **Time:** 12:49:10 **Page:** 2  
**Co-ordinate(NE) Reference:** Site: Rock House 7-36-10-22, True North  
**Vertical (TVD) Reference:** SITE 5357.0  
**Section (VS) Reference:** Site (0.00N,0.00E,63.80Azi)  
**Plan:** Plan #1

**Section 1 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1700.00	0.00	63.80	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	63.80
1800.00	0.00	63.80	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	63.80
1900.00	0.00	63.80	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	63.80
2000.00	0.00	63.80	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	63.80

**Section 2 : Start Build 2.50**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2100.00	2.50	63.80	2099.97	0.96	1.96	2.18	2.50	2.50	0.00	0.00
2200.00	5.00	63.80	2199.75	3.85	7.83	8.72	2.50	2.50	0.00	0.00
2300.00	7.50	63.80	2299.14	8.66	17.59	19.61	2.50	2.50	0.00	0.00
2400.00	10.00	63.80	2397.97	15.37	31.24	34.82	2.50	2.50	0.00	0.00
2500.00	12.50	63.80	2496.04	23.99	48.74	54.33	2.50	2.50	0.00	0.00
2600.00	15.00	63.80	2593.17	34.48	70.07	78.09	2.50	2.50	0.00	0.00

**Section 3 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2700.00	15.00	63.80	2689.76	45.91	93.29	103.97	0.00	0.00	0.00	0.00
2800.00	15.00	63.80	2786.35	57.33	116.51	129.86	0.00	0.00	0.00	0.00
2900.00	15.00	63.80	2882.95	68.76	139.74	155.74	0.00	0.00	0.00	0.00
3000.00	15.00	63.80	2979.54	80.19	162.96	181.62	0.00	0.00	0.00	0.00
3100.00	15.00	63.80	3076.13	91.61	186.18	207.50	0.00	0.00	0.00	0.00
3200.00	15.00	63.80	3172.73	103.04	209.41	233.38	0.00	0.00	0.00	0.00
3300.00	15.00	63.80	3269.32	114.47	232.63	259.27	0.00	0.00	0.00	0.00
3400.00	15.00	63.80	3365.91	125.89	255.85	285.15	0.00	0.00	0.00	0.00
3500.00	15.00	63.80	3462.50	137.32	279.07	311.03	0.00	0.00	0.00	0.00
3571.95	15.00	63.80	3532.00	145.54	295.78	329.65	0.00	0.00	0.00	0.00
3600.00	15.00	63.80	3559.10	148.75	302.30	336.91	0.00	0.00	0.00	0.00

**Section 4 : Start Drop -2.00**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3700.00	13.00	63.80	3656.12	159.43	324.00	361.10	2.00	-2.00	0.00	180.00
3800.00	11.00	63.80	3753.93	168.61	342.66	381.89	2.00	-2.00	0.00	180.00
3900.00	9.00	63.80	3852.41	176.27	358.24	399.26	2.00	-2.00	0.00	180.00
4000.00	7.00	63.80	3951.43	182.42	370.72	413.17	2.00	-2.00	0.00	180.00
4100.00	5.00	63.80	4050.87	187.03	380.10	423.63	2.00	-2.00	0.00	180.00
4200.00	3.00	63.80	4150.63	190.11	386.36	430.60	2.00	-2.00	0.00	180.00
4300.00	1.00	63.80	4250.56	191.65	389.49	434.09	2.00	-2.00	0.00	180.00
4349.50	0.01	63.80	4300.06	191.85	389.88	434.53	2.00	-2.00	0.00	-180.00

**Section 5 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4400.00	0.01	63.80	4350.56	191.85	389.89	434.54	0.00	0.00	0.00	0.00
4500.00	0.01	63.80	4450.56	191.86	389.91	434.55	0.00	0.00	0.00	0.00
4600.00	0.01	63.80	4550.56	191.87	389.92	434.57	0.00	0.00	0.00	0.00
4700.00	0.01	63.80	4650.56	191.87	389.94	434.59	0.00	0.00	0.00	0.00
4800.00	0.01	63.80	4750.56	191.88	389.95	434.61	0.00	0.00	0.00	0.00
4900.00	0.01	63.80	4850.56	191.89	389.97	434.62	0.00	0.00	0.00	0.00
5000.00	0.01	63.80	4950.56	191.90	389.98	434.64	0.00	0.00	0.00	0.00
5100.00	0.01	63.80	5050.56	191.90	390.00	434.66	0.00	0.00	0.00	0.00
5200.00	0.01	63.80	5150.56	191.91	390.02	434.68	0.00	0.00	0.00	0.00
5300.00	0.01	63.80	5250.56	191.92	390.03	434.69	0.00	0.00	0.00	0.00
5400.00	0.01	63.80	5350.56	191.93	390.05	434.71	0.00	0.00	0.00	0.00
5500.00	0.01	63.80	5450.56	191.93	390.06	434.73	0.00	0.00	0.00	0.00
5600.00	0.01	63.80	5550.56	191.94	390.08	434.74	0.00	0.00	0.00	0.00
5606.44	0.01	63.80	5557.00	191.94	390.08	434.75	0.00	0.00	0.00	0.00
5700.00	0.01	63.80	5650.56	191.95	390.09	434.76	0.00	0.00	0.00	0.00

# Weatherford International

## Planning Report

**Company:** Enduring Resources  
**Field:** Natural Buttes  
**Site:** Rock House 7-36-10-22  
**Well:** Rock House 7-36-10-22  
**Wellpath:** 1

**Date:** 10/31/2005 **Time:** 12:49:10 **Page:** 3  
**Co-ordinate(NE) Reference:** Site: Rock House 7-36-10-22, True North  
**Vertical (TVD) Reference:** SITE 5357.0  
**Section (VS) Reference:** Site (0.00N,0.00E,63.80Azi)  
**Plan:** Plan #1

**Section 5 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5800.00	0.01	63.80	5750.56	191.96	390.11	434.78	0.00	0.00	0.00	0.00
5900.00	0.01	63.80	5850.56	191.97	390.13	434.80	0.00	0.00	0.00	0.00
6000.00	0.01	63.80	5950.56	191.97	390.14	434.81	0.00	0.00	0.00	0.00
6100.00	0.01	63.80	6050.56	191.98	390.16	434.83	0.00	0.00	0.00	0.00
6200.00	0.01	63.80	6150.56	191.99	390.17	434.85	0.00	0.00	0.00	0.00
6300.00	0.01	63.80	6250.56	192.00	390.19	434.87	0.00	0.00	0.00	0.00
6400.00	0.01	63.80	6350.56	192.00	390.20	434.88	0.00	0.00	0.00	0.00
6500.00	0.01	63.80	6450.56	192.01	390.22	434.90	0.00	0.00	0.00	0.00
6600.00	0.01	63.80	6550.56	192.02	390.24	434.92	0.00	0.00	0.00	0.00
6700.00	0.01	63.80	6650.56	192.03	390.25	434.94	0.00	0.00	0.00	0.00
6800.00	0.01	63.80	6750.56	192.03	390.27	434.95	0.00	0.00	0.00	0.00
6900.00	0.01	63.80	6850.56	192.04	390.28	434.97	0.00	0.00	0.00	0.00
7000.00	0.01	63.80	6950.56	192.05	390.30	434.99	0.00	0.00	0.00	0.00
7100.00	0.01	63.80	7050.56	192.06	390.31	435.01	0.00	0.00	0.00	0.00
7200.00	0.01	63.80	7150.56	192.07	390.33	435.02	0.00	0.00	0.00	0.00
7300.00	0.01	63.80	7250.56	192.07	390.34	435.04	0.00	0.00	0.00	0.00
7400.00	0.01	63.80	7350.56	192.08	390.36	435.06	0.00	0.00	0.00	0.00
7500.00	0.01	63.80	7450.56	192.09	390.38	435.08	0.00	0.00	0.00	0.00
7600.00	0.01	63.80	7550.56	192.10	390.39	435.09	0.00	0.00	0.00	0.00
7700.00	0.01	63.80	7650.56	192.10	390.41	435.11	0.00	0.00	0.00	0.00
7800.00	0.01	63.80	7750.56	192.11	390.42	435.13	0.00	0.00	0.00	0.00
7900.00	0.01	63.80	7850.56	192.12	390.44	435.15	0.00	0.00	0.00	0.00
7901.44	0.01	63.80	7852.00	192.12	390.44	435.15	0.00	0.00	0.00	0.00
7949.44	0.01	63.80	7900.00	192.12	390.45	435.15	0.00	0.00	0.00	0.00

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	63.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	63.80	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	63.80	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	63.80	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	63.80	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
412.00	0.00	63.80	412.00	0.00	0.00	0.00	0.00	0.00	0.00	Green River
500.00	0.00	63.80	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	63.80	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	63.80	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	63.80	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	63.80	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	63.80	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	63.80	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	63.80	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	63.80	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	63.80	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	63.80	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	63.80	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	63.80	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	63.80	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	63.80	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	63.80	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	8 5/8" Surface
2100.00	2.50	63.80	2099.97	0.96	1.96	2.18	2.50	2.50	0.00	
2200.00	5.00	63.80	2199.75	3.85	7.83	8.72	2.50	2.50	0.00	
2300.00	7.50	63.80	2299.14	8.66	17.59	19.61	2.50	2.50	0.00	
2400.00	10.00	63.80	2397.97	15.37	31.24	34.82	2.50	2.50	0.00	
2500.00	12.50	63.80	2496.04	23.99	48.74	54.33	2.50	2.50	0.00	
2600.00	15.00	63.80	2593.17	34.48	70.07	78.09	2.50	2.50	0.00	
2700.00	15.00	63.80	2689.76	45.91	93.29	103.97	0.00	0.00	0.00	
2800.00	15.00	63.80	2786.35	57.33	116.51	129.86	0.00	0.00	0.00	

# Weatherford International

## Planning Report

**Company:** Enduring Resources  
**Field:** Natural Buttes  
**Site:** Rock House 7-36-10-22  
**Well:** Rock House 7-36-10-22  
**Wellpath:** 1

**Date:** 10/31/2005 **Time:** 12:49:10 **Page:** 4  
**Co-ordinate(NE) Reference:** Site: Rock House 7-36-10-22, True North  
**Vertical (TVD) Reference:** SITE 5357.0  
**Section (VS) Reference:** Site (0.00N,0.00E,63.80Az)  
**Plan:** Plan #1

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2900.00	15.00	63.80	2882.95	68.76	139.74	155.74	0.00	0.00	0.00	
3000.00	15.00	63.80	2979.54	80.19	162.96	181.62	0.00	0.00	0.00	
3100.00	15.00	63.80	3076.13	91.61	186.18	207.50	0.00	0.00	0.00	
3200.00	15.00	63.80	3172.73	103.04	209.41	233.38	0.00	0.00	0.00	
3300.00	15.00	63.80	3269.32	114.47	232.63	259.27	0.00	0.00	0.00	
3400.00	15.00	63.80	3365.91	125.89	255.85	285.15	0.00	0.00	0.00	
3500.00	15.00	63.80	3462.50	137.32	279.07	311.03	0.00	0.00	0.00	
3571.95	15.00	63.80	3532.00	145.54	295.78	329.65	0.00	0.00	0.00	Top Target
3600.00	15.00	63.80	3559.10	148.75	302.30	336.91	0.00	0.00	0.00	
3700.00	13.00	63.80	3656.12	159.43	324.00	361.10	2.00	-2.00	0.00	
3800.00	11.00	63.80	3753.93	168.61	342.66	381.89	2.00	-2.00	0.00	
3900.00	9.00	63.80	3852.41	176.27	358.24	399.26	2.00	-2.00	0.00	
4000.00	7.00	63.80	3951.43	182.42	370.72	413.17	2.00	-2.00	0.00	
4100.00	5.00	63.80	4050.87	187.03	380.10	423.63	2.00	-2.00	0.00	
4200.00	3.00	63.80	4150.63	190.11	386.36	430.60	2.00	-2.00	0.00	
4300.00	1.00	63.80	4250.56	191.65	389.49	434.09	2.00	-2.00	0.00	
4349.50	0.01	63.80	4300.06	191.85	389.88	434.53	2.00	-2.00	0.00	
4400.00	0.01	63.80	4350.56	191.85	389.89	434.54	0.00	0.00	0.00	
4500.00	0.01	63.80	4450.56	191.86	389.91	434.55	0.00	0.00	0.00	
4600.00	0.01	63.80	4550.56	191.87	389.92	434.57	0.00	0.00	0.00	
4700.00	0.01	63.80	4650.56	191.87	389.94	434.59	0.00	0.00	0.00	
4800.00	0.01	63.80	4750.56	191.88	389.95	434.61	0.00	0.00	0.00	
4900.00	0.01	63.80	4850.56	191.89	389.97	434.62	0.00	0.00	0.00	
5000.00	0.01	63.80	4950.56	191.90	389.98	434.64	0.00	0.00	0.00	
5100.00	0.01	63.80	5050.56	191.90	390.00	434.66	0.00	0.00	0.00	
5200.00	0.01	63.80	5150.56	191.91	390.02	434.68	0.00	0.00	0.00	
5300.00	0.01	63.80	5250.56	191.92	390.03	434.69	0.00	0.00	0.00	
5400.00	0.01	63.80	5350.56	191.93	390.05	434.71	0.00	0.00	0.00	
5500.00	0.01	63.80	5450.56	191.93	390.06	434.73	0.00	0.00	0.00	
5600.00	0.01	63.80	5550.56	191.94	390.08	434.74	0.00	0.00	0.00	
5606.44	0.01	63.80	5557.00	191.94	390.08	434.75	0.00	0.00	0.00	Mesaverde
5700.00	0.01	63.80	5650.56	191.95	390.09	434.76	0.00	0.00	0.00	
5800.00	0.01	63.80	5750.56	191.96	390.11	434.78	0.00	0.00	0.00	
5900.00	0.01	63.80	5850.56	191.97	390.13	434.80	0.00	0.00	0.00	
6000.00	0.01	63.80	5950.56	191.97	390.14	434.81	0.00	0.00	0.00	
6100.00	0.01	63.80	6050.56	191.98	390.16	434.83	0.00	0.00	0.00	
6200.00	0.01	63.80	6150.56	191.99	390.17	434.85	0.00	0.00	0.00	
6300.00	0.01	63.80	6250.56	192.00	390.19	434.87	0.00	0.00	0.00	
6400.00	0.01	63.80	6350.56	192.00	390.20	434.88	0.00	0.00	0.00	
6500.00	0.01	63.80	6450.56	192.01	390.22	434.90	0.00	0.00	0.00	
6600.00	0.01	63.80	6550.56	192.02	390.24	434.92	0.00	0.00	0.00	
6700.00	0.01	63.80	6650.56	192.03	390.25	434.94	0.00	0.00	0.00	
6800.00	0.01	63.80	6750.56	192.03	390.27	434.95	0.00	0.00	0.00	
6900.00	0.01	63.80	6850.56	192.04	390.28	434.97	0.00	0.00	0.00	
7000.00	0.01	63.80	6950.56	192.05	390.30	434.99	0.00	0.00	0.00	
7100.00	0.01	63.80	7050.56	192.06	390.31	435.01	0.00	0.00	0.00	
7200.00	0.01	63.80	7150.56	192.07	390.33	435.02	0.00	0.00	0.00	
7300.00	0.01	63.80	7250.56	192.07	390.34	435.04	0.00	0.00	0.00	
7400.00	0.01	63.80	7350.56	192.08	390.36	435.06	0.00	0.00	0.00	
7500.00	0.01	63.80	7450.56	192.09	390.38	435.08	0.00	0.00	0.00	
7600.00	0.01	63.80	7550.56	192.10	390.39	435.09	0.00	0.00	0.00	
7700.00	0.01	63.80	7650.56	192.10	390.41	435.11	0.00	0.00	0.00	
7800.00	0.01	63.80	7750.56	192.11	390.42	435.13	0.00	0.00	0.00	

# Weatherford International

## Planning Report

<b>Company:</b> Enduring Resources <b>Field:</b> Natural Buttes <b>Site:</b> Rock House 7-36-10-22 <b>Well:</b> Rock House 7-36-10-22 <b>Wellpath:</b> 1	<b>Date:</b> 10/31/2005 <b>Co-ordinate(NE) Reference:</b>	<b>Time:</b> 12:49:10 <b>Site:</b> Rock House 7-36-10-22, True North <b>Vertical (TVD) Reference:</b> SITE 5357.0 <b>Section (VS) Reference:</b> Site (0.00N,0.00E,63.80Azi) <b>Plan:</b> Plan #1	<b>Page:</b> 5
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Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7900.00	0.01	63.80	7850.56	192.12	390.44	435.15	0.00	0.00	0.00	Buck Tongue
7901.44	0.01	63.80	7852.00	192.12	390.44	435.15	0.00	0.00	0.00	
7949.44	0.01	63.80	7900.00	192.12	390.45	435.15	0.00	0.00	0.00	TD

Targets											
Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec		← Longitude → Deg Min Sec	
Top Target			3532.00	229.00	465.00	7141923.862233390.95		39	54	25.723	N 109 23 9.362 W
-Rectangle (400x400)											
-Plan out by 188.68 at			3532.00	145.54	295.78	7141836.432233223.75		39	54	24.898	N 109 23 11.534 W

Casing Points				
MD ft	TVD ft	Diameter in	Hole Size in	Name
2000.00	2000.00	8.625	8.625	8 5/8" Surface

Formations					
MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
412.00	412.00	Green River		0.00	0.00
3571.95	3532.00	Wasatch		0.00	0.00
5606.44	5557.00	Mesaverde		0.00	0.00
7901.44	7852.00	Buck Tongue		0.00	0.00

Annotation		
MD ft	TVD ft	
3571.95	3532.00	Entry Point
7949.44	7900.00	TD

**Enduring Resources, LLC**  
**Rock House 7-36-10-22**  
**SWNE Sec. 36, T10S-R22E**  
**Uintah County, Utah**  
**Lease # ML-47061**

**ONSHORE ORDER 1 - DRILLING PLAN**

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

<u>Formation</u>	<u>Depth (G.L.)</u>
Unita	Surface
Green River	396'
Wasatch	3,516'
Mesaverde	5,541'
Buck Tongue	7,836'
Total Depth	8,084'

**2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals: (5,357' estimated KB)**

Substance	Formation	Depth (K.B.)
	KB-Uinta Elevation: 5,357'	
	Unita	Surface
Oil /Gas	Green River	412'
Oil /Gas	Wasatch	3,532'
Oil /Gas	Mesaverde	5,557'
	Estimated TD	8,100'

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*.

The attached directional plan will be followed as closely as possible. This plan identifies the bottom hole location, target, and inclination. A measurement while drilling (MWD) system will be used to track and control the directional path of the wellbore.

**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'
11"	8-5/8"	24#	J-55	ST&C	0 – 2,000' est
7-7/8"	4-1/2"	11.6#	N-80	LT&C	0 – 8,100'

The surface casing will have guide shoe, 1 jt., 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'	16"			
2,016'	8-5/8", 24#/ft, J55, STC	1370/1.52(a)	2950/3.28(b)	244/5.81(c)
8,100'	4-1/2", 11.6#/ft, N-80, LTC	6350/1.51 (d)	7780/2.01 (e)	223/2.76 (f)

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

**PROPOSED CEMENTING PROGRAM**

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

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	1500	Premium cement + 16% gel + 0.25 pps celloflake	138	25%	11.1	3.50
8-5/8"	Tail	500	Premium cement +2% CaC <sub>2</sub> + 0.25 pps celloflake	138	25%	15.8	1.15

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

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

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

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

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
4-1/2"	Lead	1416	Class "G" + 5% NaCl + 12% Gel + 0.25 pps celloflake + 0.25% antifoam + 0.25% fluid loss	124	25	11.0	3.3
4-1/2"	Tail	4968	50/50 POZ Class G + 2% gel +1% CaCl <sub>2</sub> + 0.2% dispersant + 0.2% fluid loss + 0.1% antifoam	907	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	Mud Weight	Fluid Loss	Viscosity	Mud Type
0' - 2000'		No cntrl		Air/mist
2000'-3000'	8.4-8.6	No cntrl	28-36	Water
3000'-8,100'	8.8-10.2	8 - 10 ml	32-42	Water/Gel

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

**6. Evaluation Program:**

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: No sampling is currently planned.

Logging

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

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

**7. Abnormal Conditions:**

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

Maximum anticipated bottom hole pressure equals approximately 4,212 psi (calculated at 0.52psi/foot of hole) and maximum anticipated surface pressure equals approximately 2,430 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.

**THE HOUSTON EXPLORATION COMPANY**  
**ROCK HOUSE #7-36-10-22**  
**SECTION 36, T10S, R22E, S.L.B.&M.**

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 41.5 MILES ON PAVED STATE HIGHWAY 45 TO THE JUNCTION OF THIS ROAD AND GRAVEL STATE HIGHWAY 45 TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 207 TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 8.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 7.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 2.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 2.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 2.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 40' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 77.1 MILES.

**ENDURING RESOURCES**  
**Rock House 7-36-10-22**  
**Uintah County, Utah**



**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	63.80	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	63.80	2000.00	0.00	0.00	0.00	63.80	0.00	
3	2600.00	15.00	63.80	2593.17	34.48	70.07	2.50	63.80	78.09	
4	3600.00	15.00	63.80	3559.10	148.75	302.30	0.00	0.00	336.91	
5	4349.50	0.01	63.80	4300.06	191.85	389.88	2.00	180.00	434.53	
6	7949.44	0.01	63.80	7900.00	192.12	390.45	0.00	0.00	435.15	

**SITE DETAILS**

Rock House 7-36-10-22  
 SW/NE Sec. 36, T10S, R22E, Uintah County, Utah  
 2209' FNL & 2445' FEL

Ground Level: 5341.00  
 Positional Uncertainty: 0.00  
 Convergence: 1.35

**WELL DETAILS**

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rock House 7-36-10-22	0.00	0.00	7141683.94	2232931.49	39°54'23.460N	109°23'15.330W	N/A

**TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Shape
Top Target	3532.00	229.00	465.00	Rectangle (400x400)

**FIELD DETAILS**

Natural Buttes  
 Utah  
 U.S.A.

Geodetic System: US State Plane Coordinate System 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah, Central Zone  
 Magnetic Model: igr2005

System Datum: Mean Sea Level  
 Local North: True North

Azimuths to True North  
 Magnetic North: 11.73°

Magnetic Field  
 Strength: 52908nT  
 Dip Angle: 65.96°  
 Date: 10/31/2005  
 Model: igr2005

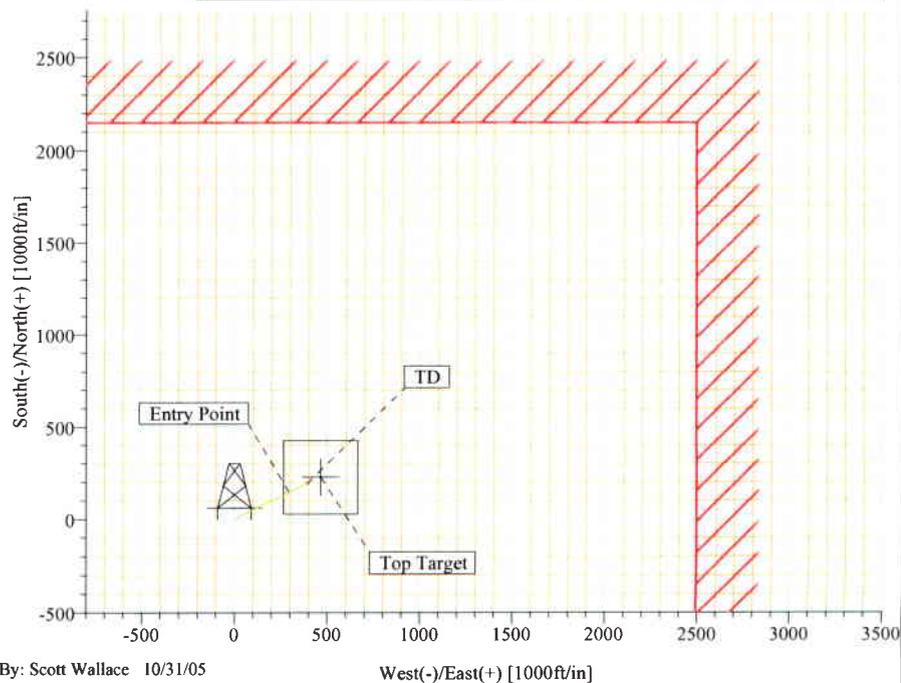
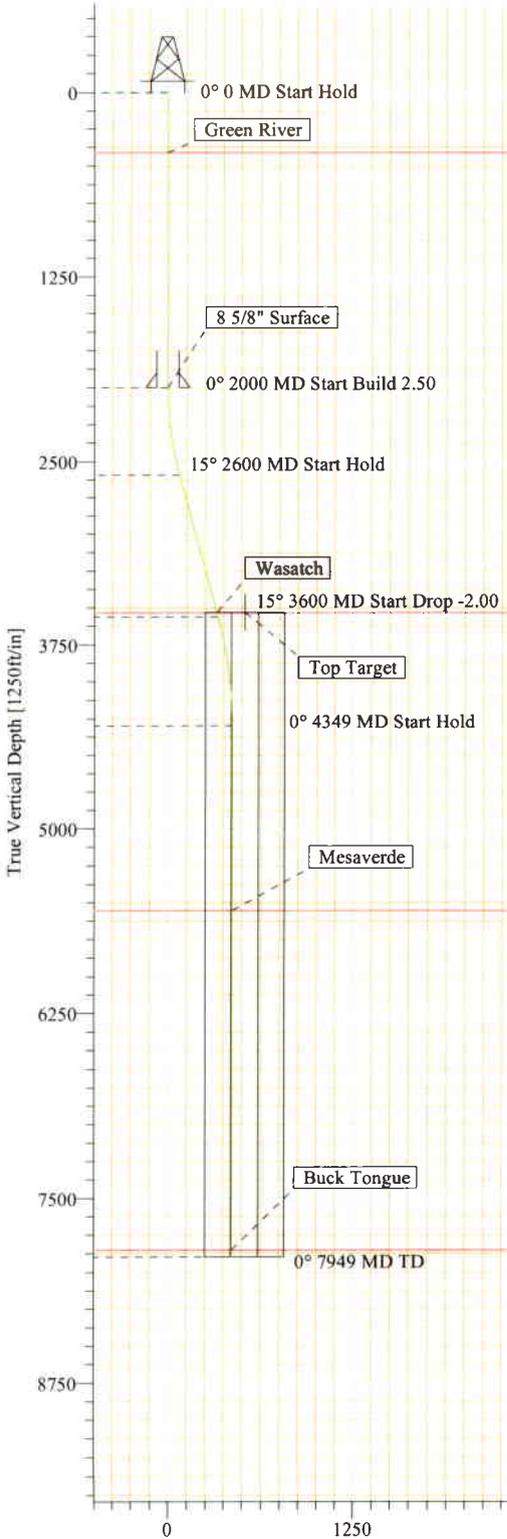
Total Correction: 11.73°

**CASING DETAILS**

No.	TVD	MD	Name	Size
1	2000.00	2000.00	8 5/8" Surface	8.625

**FORMATION TOP DETAILS**

No.	TVDPath	MDPath	Formation
1	412.00	412.00	Green River
2	3532.00	3571.95	Wasatch
3	5557.00	5606.44	Mesaverde
4	7852.00	7901.44	Buck Tongue



Created By: Scott Wallace 10/31/05

West(-)/East(+) [1000ft/in]



# Weatherford International Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 10/31/2005	<b>Time:</b> 12:49:10	<b>Page:</b> 2
<b>Field:</b> Natural Buttes	<b>Co-ordinate(N/E) Reference:</b> Site: Rock House 7-36-10-22, True North		
<b>Site:</b> Rock House 7-36-10-22	<b>Vertical (TVD) Reference:</b> SITE 5357.0		
<b>Well:</b> Rock House 7-36-10-22	<b>Section (VS) Reference:</b> Site (0.00N,0.00E,63.80Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b> Plan #1		

**Section 1 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1700.00	0.00	63.80	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	63.80
1800.00	0.00	63.80	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	63.80
1900.00	0.00	63.80	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	63.80
2000.00	0.00	63.80	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	63.80

**Section 2 : Start Build 2.50**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2100.00	2.50	63.80	2099.97	0.96	1.96	2.18	2.50	2.50	0.00	0.00
2200.00	5.00	63.80	2199.75	3.85	7.83	8.72	2.50	2.50	0.00	0.00
2300.00	7.50	63.80	2299.14	8.66	17.59	19.61	2.50	2.50	0.00	0.00
2400.00	10.00	63.80	2397.97	15.37	31.24	34.82	2.50	2.50	0.00	0.00
2500.00	12.50	63.80	2496.04	23.99	48.74	54.33	2.50	2.50	0.00	0.00
2600.00	15.00	63.80	2593.17	34.48	70.07	78.09	2.50	2.50	0.00	0.00

**Section 3 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2700.00	15.00	63.80	2689.76	45.91	93.29	103.97	0.00	0.00	0.00	0.00
2800.00	15.00	63.80	2786.35	57.33	116.51	129.86	0.00	0.00	0.00	0.00
2900.00	15.00	63.80	2882.95	68.76	139.74	155.74	0.00	0.00	0.00	0.00
3000.00	15.00	63.80	2979.54	80.19	162.96	181.62	0.00	0.00	0.00	0.00
3100.00	15.00	63.80	3076.13	91.61	186.18	207.50	0.00	0.00	0.00	0.00
3200.00	15.00	63.80	3172.73	103.04	209.41	233.38	0.00	0.00	0.00	0.00
3300.00	15.00	63.80	3269.32	114.47	232.63	259.27	0.00	0.00	0.00	0.00
3400.00	15.00	63.80	3365.91	125.89	255.85	285.15	0.00	0.00	0.00	0.00
3500.00	15.00	63.80	3462.50	137.32	279.07	311.03	0.00	0.00	0.00	0.00
3571.95	15.00	63.80	3532.00	145.54	295.78	329.65	0.00	0.00	0.00	0.00
3600.00	15.00	63.80	3559.10	148.75	302.30	336.91	0.00	0.00	0.00	0.00

**Section 4 : Start Drop -2.00**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3700.00	13.00	63.80	3656.12	159.43	324.00	361.10	2.00	-2.00	0.00	180.00
3800.00	11.00	63.80	3753.93	168.61	342.66	381.89	2.00	-2.00	0.00	180.00
3900.00	9.00	63.80	3852.41	176.27	358.24	399.26	2.00	-2.00	0.00	180.00
4000.00	7.00	63.80	3951.43	182.42	370.72	413.17	2.00	-2.00	0.00	180.00
4100.00	5.00	63.80	4050.87	187.03	380.10	423.63	2.00	-2.00	0.00	180.00
4200.00	3.00	63.80	4150.63	190.11	386.36	430.60	2.00	-2.00	0.00	180.00
4300.00	1.00	63.80	4250.56	191.65	389.49	434.09	2.00	-2.00	0.00	180.00
4349.50	0.01	63.80	4300.06	191.85	389.88	434.53	2.00	-2.00	0.00	-180.00

**Section 5 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4400.00	0.01	63.80	4350.56	191.85	389.89	434.54	0.00	0.00	0.00	0.00
4500.00	0.01	63.80	4450.56	191.86	389.91	434.55	0.00	0.00	0.00	0.00
4600.00	0.01	63.80	4550.56	191.87	389.92	434.57	0.00	0.00	0.00	0.00
4700.00	0.01	63.80	4650.56	191.87	389.94	434.59	0.00	0.00	0.00	0.00
4800.00	0.01	63.80	4750.56	191.88	389.95	434.61	0.00	0.00	0.00	0.00
4900.00	0.01	63.80	4850.56	191.89	389.97	434.62	0.00	0.00	0.00	0.00
5000.00	0.01	63.80	4950.56	191.90	389.98	434.64	0.00	0.00	0.00	0.00
5100.00	0.01	63.80	5050.56	191.90	390.00	434.66	0.00	0.00	0.00	0.00
5200.00	0.01	63.80	5150.56	191.91	390.02	434.68	0.00	0.00	0.00	0.00
5300.00	0.01	63.80	5250.56	191.92	390.03	434.69	0.00	0.00	0.00	0.00
5400.00	0.01	63.80	5350.56	191.93	390.05	434.71	0.00	0.00	0.00	0.00
5500.00	0.01	63.80	5450.56	191.93	390.06	434.73	0.00	0.00	0.00	0.00
5600.00	0.01	63.80	5550.56	191.94	390.08	434.74	0.00	0.00	0.00	0.00
5606.44	0.01	63.80	5557.00	191.94	390.08	434.75	0.00	0.00	0.00	0.00
5700.00	0.01	63.80	5650.56	191.95	390.09	434.76	0.00	0.00	0.00	0.00

# Weatherford International Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 10/31/2005	<b>Time:</b> 12:49:10	<b>Page:</b> 3
<b>Field:</b> Natural Buttes	<b>Co-ordinate(NE) Reference:</b> Site: Rock House 7-36-10-22, True North		
<b>Site:</b> Rock House 7-36-10-22	<b>Vertical (TVD) Reference:</b> SITE 5357.0		
<b>Well:</b> Rock House 7-36-10-22	<b>Section (VS) Reference:</b> Site (0.00N,0.00E,63.80Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b>	Plan #1	

**Section 5 : Start Hold**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5800.00	0.01	63.80	5750.56	191.96	390.11	434.78	0.00	0.00	0.00	0.00
5900.00	0.01	63.80	5850.56	191.97	390.13	434.80	0.00	0.00	0.00	0.00
6000.00	0.01	63.80	5950.56	191.97	390.14	434.81	0.00	0.00	0.00	0.00
6100.00	0.01	63.80	6050.56	191.98	390.16	434.83	0.00	0.00	0.00	0.00
6200.00	0.01	63.80	6150.56	191.99	390.17	434.85	0.00	0.00	0.00	0.00
6300.00	0.01	63.80	6250.56	192.00	390.19	434.87	0.00	0.00	0.00	0.00
6400.00	0.01	63.80	6350.56	192.00	390.20	434.88	0.00	0.00	0.00	0.00
6500.00	0.01	63.80	6450.56	192.01	390.22	434.90	0.00	0.00	0.00	0.00
6600.00	0.01	63.80	6550.56	192.02	390.24	434.92	0.00	0.00	0.00	0.00
6700.00	0.01	63.80	6650.56	192.03	390.25	434.94	0.00	0.00	0.00	0.00
6800.00	0.01	63.80	6750.56	192.03	390.27	434.95	0.00	0.00	0.00	0.00
6900.00	0.01	63.80	6850.56	192.04	390.28	434.97	0.00	0.00	0.00	0.00
7000.00	0.01	63.80	6950.56	192.05	390.30	434.99	0.00	0.00	0.00	0.00
7100.00	0.01	63.80	7050.56	192.06	390.31	435.01	0.00	0.00	0.00	0.00
7200.00	0.01	63.80	7150.56	192.07	390.33	435.02	0.00	0.00	0.00	0.00
7300.00	0.01	63.80	7250.56	192.07	390.34	435.04	0.00	0.00	0.00	0.00
7400.00	0.01	63.80	7350.56	192.08	390.36	435.06	0.00	0.00	0.00	0.00
7500.00	0.01	63.80	7450.56	192.09	390.38	435.08	0.00	0.00	0.00	0.00
7600.00	0.01	63.80	7550.56	192.10	390.39	435.09	0.00	0.00	0.00	0.00
7700.00	0.01	63.80	7650.56	192.10	390.41	435.11	0.00	0.00	0.00	0.00
7800.00	0.01	63.80	7750.56	192.11	390.42	435.13	0.00	0.00	0.00	0.00
7900.00	0.01	63.80	7850.56	192.12	390.44	435.15	0.00	0.00	0.00	0.00
7901.44	0.01	63.80	7852.00	192.12	390.44	435.15	0.00	0.00	0.00	0.00
7949.44	0.01	63.80	7900.00	192.12	390.45	435.15	0.00	0.00	0.00	0.00

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	63.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	63.80	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	63.80	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	63.80	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	63.80	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
412.00	0.00	63.80	412.00	0.00	0.00	0.00	0.00	0.00	0.00	Green River
500.00	0.00	63.80	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	63.80	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	63.80	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	63.80	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	63.80	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	63.80	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	63.80	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	63.80	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	63.80	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	63.80	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	63.80	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	63.80	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	63.80	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	63.80	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	63.80	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	63.80	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	8 5/8" Surface
2100.00	2.50	63.80	2099.97	0.96	1.96	2.18	2.50	2.50	0.00	
2200.00	5.00	63.80	2199.75	3.85	7.83	8.72	2.50	2.50	0.00	
2300.00	7.50	63.80	2299.14	8.66	17.59	19.61	2.50	2.50	0.00	
2400.00	10.00	63.80	2397.97	15.37	31.24	34.82	2.50	2.50	0.00	
2500.00	12.50	63.80	2496.04	23.99	48.74	54.33	2.50	2.50	0.00	
2600.00	15.00	63.80	2593.17	34.48	70.07	78.09	2.50	2.50	0.00	
2700.00	15.00	63.80	2689.76	45.91	93.29	103.97	0.00	0.00	0.00	
2800.00	15.00	63.80	2786.35	57.33	116.51	129.86	0.00	0.00	0.00	

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## Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 10/31/2005	<b>Time:</b> 12:49:10	<b>Page:</b> 4
<b>Field:</b> Natural Buttes	<b>Co-ordinate(NE) Reference:</b> Site: Rock House 7-36-10-22, True North		
<b>Site:</b> Rock House 7-36-10-22	<b>Vertical (TVD) Reference:</b> SITE 5357.0		
<b>Well:</b> Rock House 7-36-10-22	<b>Section (VS) Reference:</b> Site (0.00N,0.00E,63.80Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b>	Plan #1	

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2900.00	15.00	63.80	2882.95	68.76	139.74	155.74	0.00	0.00	0.00	
3000.00	15.00	63.80	2979.54	80.19	162.96	181.62	0.00	0.00	0.00	
3100.00	15.00	63.80	3076.13	91.61	186.18	207.50	0.00	0.00	0.00	
3200.00	15.00	63.80	3172.73	103.04	209.41	233.38	0.00	0.00	0.00	
3300.00	15.00	63.80	3269.32	114.47	232.63	259.27	0.00	0.00	0.00	
3400.00	15.00	63.80	3365.91	125.89	255.85	285.15	0.00	0.00	0.00	
3500.00	15.00	63.80	3462.50	137.32	279.07	311.03	0.00	0.00	0.00	
3571.95	15.00	63.80	3532.00	145.54	295.78	329.65	0.00	0.00	0.00	Top Target
3600.00	15.00	63.80	3559.10	148.75	302.30	336.91	0.00	0.00	0.00	
3700.00	13.00	63.80	3656.12	159.43	324.00	361.10	2.00	-2.00	0.00	
3800.00	11.00	63.80	3753.93	168.61	342.66	381.89	2.00	-2.00	0.00	
3900.00	9.00	63.80	3852.41	176.27	358.24	399.26	2.00	-2.00	0.00	
4000.00	7.00	63.80	3951.43	182.42	370.72	413.17	2.00	-2.00	0.00	
4100.00	5.00	63.80	4050.87	187.03	380.10	423.63	2.00	-2.00	0.00	
4200.00	3.00	63.80	4150.63	190.11	386.36	430.60	2.00	-2.00	0.00	
4300.00	1.00	63.80	4250.56	191.65	389.49	434.09	2.00	-2.00	0.00	
4349.50	0.01	63.80	4300.06	191.85	389.88	434.53	2.00	-2.00	0.00	
4400.00	0.01	63.80	4350.56	191.85	389.89	434.54	0.00	0.00	0.00	
4500.00	0.01	63.80	4450.56	191.86	389.91	434.55	0.00	0.00	0.00	
4600.00	0.01	63.80	4550.56	191.87	389.92	434.57	0.00	0.00	0.00	
4700.00	0.01	63.80	4650.56	191.87	389.94	434.59	0.00	0.00	0.00	
4800.00	0.01	63.80	4750.56	191.88	389.95	434.61	0.00	0.00	0.00	
4900.00	0.01	63.80	4850.56	191.89	389.97	434.62	0.00	0.00	0.00	
5000.00	0.01	63.80	4950.56	191.90	389.98	434.64	0.00	0.00	0.00	
5100.00	0.01	63.80	5050.56	191.90	390.00	434.66	0.00	0.00	0.00	
5200.00	0.01	63.80	5150.56	191.91	390.02	434.68	0.00	0.00	0.00	
5300.00	0.01	63.80	5250.56	191.92	390.03	434.69	0.00	0.00	0.00	
5400.00	0.01	63.80	5350.56	191.93	390.05	434.71	0.00	0.00	0.00	
5500.00	0.01	63.80	5450.56	191.93	390.06	434.73	0.00	0.00	0.00	
5600.00	0.01	63.80	5550.56	191.94	390.08	434.74	0.00	0.00	0.00	
5606.44	0.01	63.80	5557.00	191.94	390.08	434.75	0.00	0.00	0.00	Mesaverde
5700.00	0.01	63.80	5650.56	191.95	390.09	434.76	0.00	0.00	0.00	
5800.00	0.01	63.80	5750.56	191.96	390.11	434.78	0.00	0.00	0.00	
5900.00	0.01	63.80	5850.56	191.97	390.13	434.80	0.00	0.00	0.00	
6000.00	0.01	63.80	5950.56	191.97	390.14	434.81	0.00	0.00	0.00	
6100.00	0.01	63.80	6050.56	191.98	390.16	434.83	0.00	0.00	0.00	
6200.00	0.01	63.80	6150.56	191.99	390.17	434.85	0.00	0.00	0.00	
6300.00	0.01	63.80	6250.56	192.00	390.19	434.87	0.00	0.00	0.00	
6400.00	0.01	63.80	6350.56	192.00	390.20	434.88	0.00	0.00	0.00	
6500.00	0.01	63.80	6450.56	192.01	390.22	434.90	0.00	0.00	0.00	
6600.00	0.01	63.80	6550.56	192.02	390.24	434.92	0.00	0.00	0.00	
6700.00	0.01	63.80	6650.56	192.03	390.25	434.94	0.00	0.00	0.00	
6800.00	0.01	63.80	6750.56	192.03	390.27	434.95	0.00	0.00	0.00	
6900.00	0.01	63.80	6850.56	192.04	390.28	434.97	0.00	0.00	0.00	
7000.00	0.01	63.80	6950.56	192.05	390.30	434.99	0.00	0.00	0.00	
7100.00	0.01	63.80	7050.56	192.06	390.31	435.01	0.00	0.00	0.00	
7200.00	0.01	63.80	7150.56	192.07	390.33	435.02	0.00	0.00	0.00	
7300.00	0.01	63.80	7250.56	192.07	390.34	435.04	0.00	0.00	0.00	
7400.00	0.01	63.80	7350.56	192.08	390.36	435.06	0.00	0.00	0.00	
7500.00	0.01	63.80	7450.56	192.09	390.38	435.08	0.00	0.00	0.00	
7600.00	0.01	63.80	7550.56	192.10	390.39	435.09	0.00	0.00	0.00	
7700.00	0.01	63.80	7650.56	192.10	390.41	435.11	0.00	0.00	0.00	
7800.00	0.01	63.80	7750.56	192.11	390.42	435.13	0.00	0.00	0.00	

# Weatherford International

## Planning Report

<b>Company:</b> Enduring Resources	<b>Date:</b> 10/31/2005	<b>Time:</b> 12:49:10	<b>Page:</b> 5
<b>Field:</b> Natural Buttes	<b>Co-ordinate(NE) Reference:</b> Site: Rock House 7-36-10-22, True North		
<b>Site:</b> Rock House 7-36-10-22	<b>Vertical (TVD) Reference:</b> SITE 5357.0		
<b>Well:</b> Rock House 7-36-10-22	<b>Section (VS) Reference:</b> Site (0.00N,0.00E,63.80Azi)		
<b>Wellpath:</b> 1	<b>Plan:</b>	Plan #1	

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7900.00	0.01	63.80	7850.56	192.12	390.44	435.15	0.00	0.00	0.00	
7901.44	0.01	63.80	7852.00	192.12	390.44	435.15	0.00	0.00	0.00	Buck Tongue
7949.44	0.01	63.80	7900.00	192.12	390.45	435.15	0.00	0.00	0.00	TD

### Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →				
								Deg	Min	Sec	Deg	Min	Sec		
Top Target	-Rectangle (400x400)		3532.00	229.00	465.00	7141923.86	22333390.95	39	54	25.723	N	109	23	9.362	W
	-Plan out by 188.68 at		3532.00	145.54	295.78	7141836.43	22333223.75	39	54	24.898	N	109	23	11.534	W

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2000.00	2000.00	8.625	8.625	8 5/8" Surface

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
412.00	412.00	Green River		0.00	0.00
3571.95	3532.00	Wasatch		0.00	0.00
5606.44	5557.00	Mesaverde		0.00	0.00
7901.44	7852.00	Buck Tongue		0.00	0.00

### Annotation

MD ft	TVD ft	
3571.95	3532.00	Entry Point
7949.44	7900.00	TD

**Enduring Resources, LLC  
Rock House 7-36-10-22  
SWNE Sec. 36, T10S-R22E  
Uintah County, Utah  
Lease # ML-47061**

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

**1. Existing Roads:**

Directions to the proposed location are as follows:

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 41.5 MILES ON PAVED STATE HIGHWAY 45 TO THE JUNCTION OF THIS ROAD AND GRAVEL STATE HIGHWAY 45 TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 207 TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 8.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 7.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 2.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 2.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 2.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 40' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL APPROXIMATELY 77.1 MILES.

## 2. Planned Access Roads:

The proposed access road will be approximately 40 feet of new construction (ON-LEASE) and (the existing road will have to be rerouted for about 100'). No new access road construction or surface disturbance (OFF-LEASE) will be needed. Access to the proposed new access road will be by using existing roads. Please refer to Topo Map "B" for the takeoff point for the new ON-LEASE road construction.

The pad is located on State lands. The access roads and (proposed pipeline below) cross State lands, all ON-LEASE.

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 radius of the proposed location.

- |    |       |                                      |
|----|-------|--------------------------------------|
| a. | None: | Water Wells:                         |
| b. | None: | Injection Wells:                     |
| c. | (3):  | Producing Wells:                     |
|    |       | 1. Rock House 11-31                  |
|    |       | 2. Rock House 2D-36                  |
|    |       | 3. Rock House 4-36                   |
| d. | (3):  | Drilling/Permitted Wells:            |
|    |       | 1. Rock House 11-36-10-22            |
|    |       | 2. Rock House 13-36-10-22            |
|    |       | 3. Rock House 3-36-10-22             |
| e. | None: | Shut-in Wells:                       |
| f. | None: | Temporarily Abandoned Wells:         |
| g. | None: | Disposal Wells:                      |
| h. | None: | Abandoned Wells:                     |
| i. | (2):  | Dry Holes:                           |
|    |       | 1. NBU 61-25B                        |
|    |       | 2. State #1 aka Rock House 11-36     |
|    |       | 3. STATE 1022-36J (Abandon Location) |
| j. | None: | Observation Wells:                   |

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 Carlsbad Canyon (2.5Y 6/2). 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:

A.	ON-LEASE	40'	State of Utah (SITLA),
b.	OFF-LEASE	None	N/A

If the well is capable of economic production, a surface gas gathering line and related equipment shall be installed. The surface gas gathering line shall be in use year round. A total of approximately 463 feet of surface gas gathering pipeline shall be laid on the surface to minimize surface disturbance:

- a. ON-LEASE approximately 40 feet (4 inch or less diameter steel), and
- b. OFF-LEASE. None.

The proposed surface pipeline will begin at the well site; continue northwesterly along the access road to tie-in into a pipeline to the Rock House #4-36 Well. The line will be welded together and pulled from the well site location and tie-in point when practical; however, it may be necessary to utilize the access road for welding of the line. The line will then be boomed off to the side of the road. The gas meter run will be located within 500 feet of the wellhead. The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter.

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

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

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

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

No water well is to be drilled on this lease.

**6 Source of Construction Materials:**

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

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

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

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

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

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

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

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

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

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

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

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well.

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

**8. Ancillary Facilities:**

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

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

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

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

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

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

All pits shall be fence to the following minimum standards:

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

**10. Plans for Surface Reclamation:****Producing Location:**

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

**Dry Hole/Abandoned Location:**

- a. 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.
- b. 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:**

The appropriate surface management agency will be contacted for the required seed mixture and dates.

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

Wellsite: State of Utah School and Institutional Trust Lands Administration  
Access: State of Utah School and Institutional Trust Lands Administration  
Pipeline: State of Utah School and Institutional Trust Lands Administration

**12. Other Information****Wildlife Stipulations:**

Wildlife stipulations and possible activity restrictions will be detailed in the conditions of approval" received with an approved Permit to Drill. Operator will comply with these wildlife stipulations, if any.

**Archeology:**

A Cultural Resource Inventory Report was conducted by Sagebrush Consultants, LLC and submitted by the prior operator to the Division of Oil, Gas and Mining and the School and Institutional Trust Lands Administration upon its receipt.

**Paleontology:**

No Paleontology Reconnaissance Report was prepared by the prior operator.

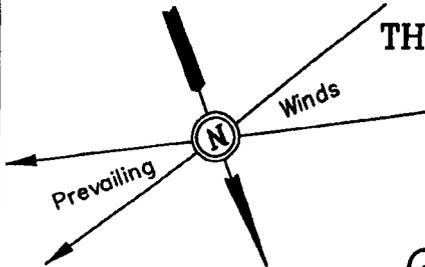
If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

All lease operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, and the approved Plan of Operations and all applicable Notice to Lessees. The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

THE HOUSTON EXPLORATION COMPANY

FIGURE #1

LOCATION LAYOUT FOR  
 ROCK HOUSE #7-36-10-22  
 SECTION 36, T10S, R22E, S.L.B.&M.  
 2209' FNL 2445' FEL



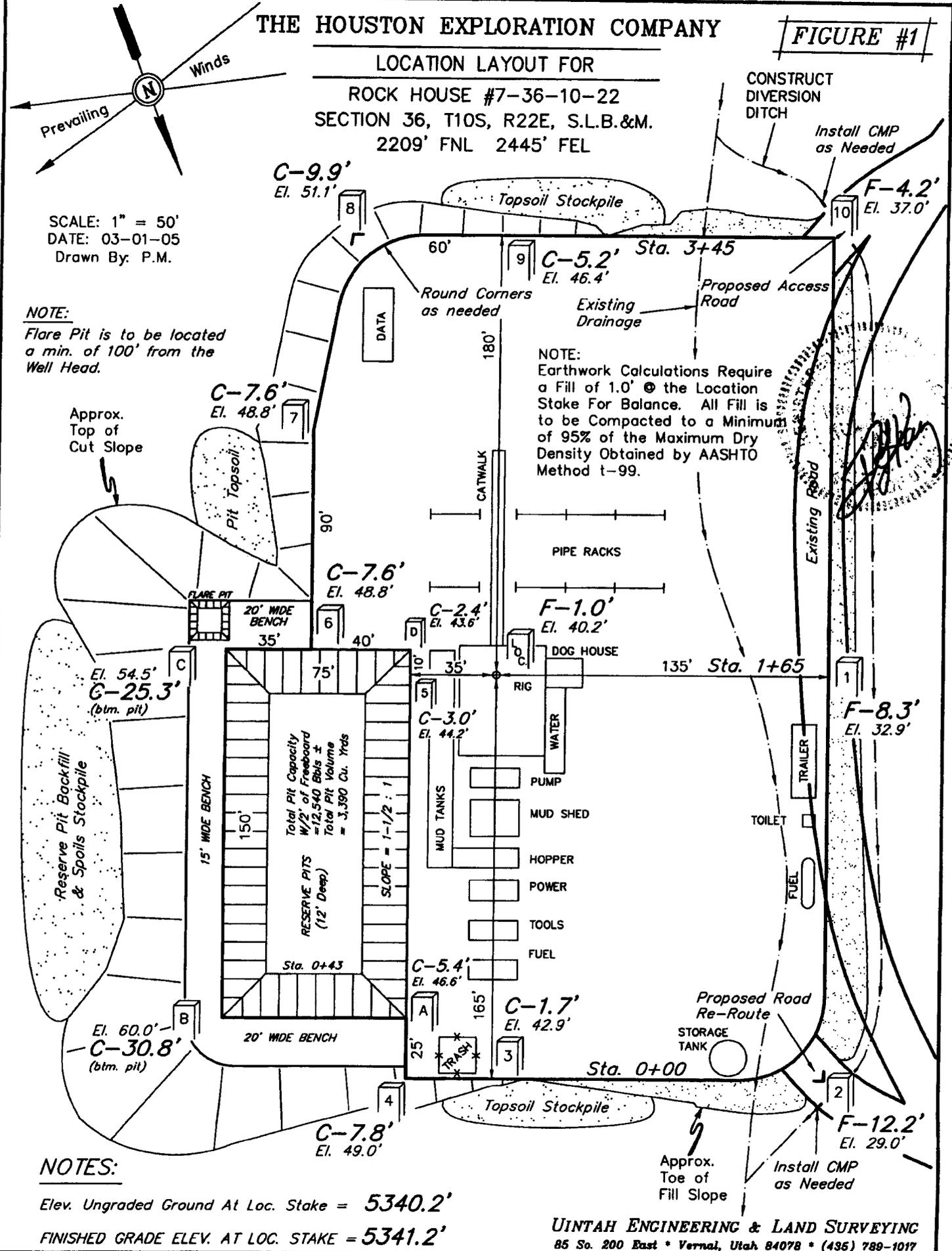
SCALE: 1" = 50'  
 DATE: 03-01-05  
 Drawn By: P.M.

NOTE:

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

NOTE:

Earthwork Calculations Require a Fill of 1.0' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.



NOTES:

Elev. Ungraded Ground At Loc. Stake = 5340.2'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5341.2'

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

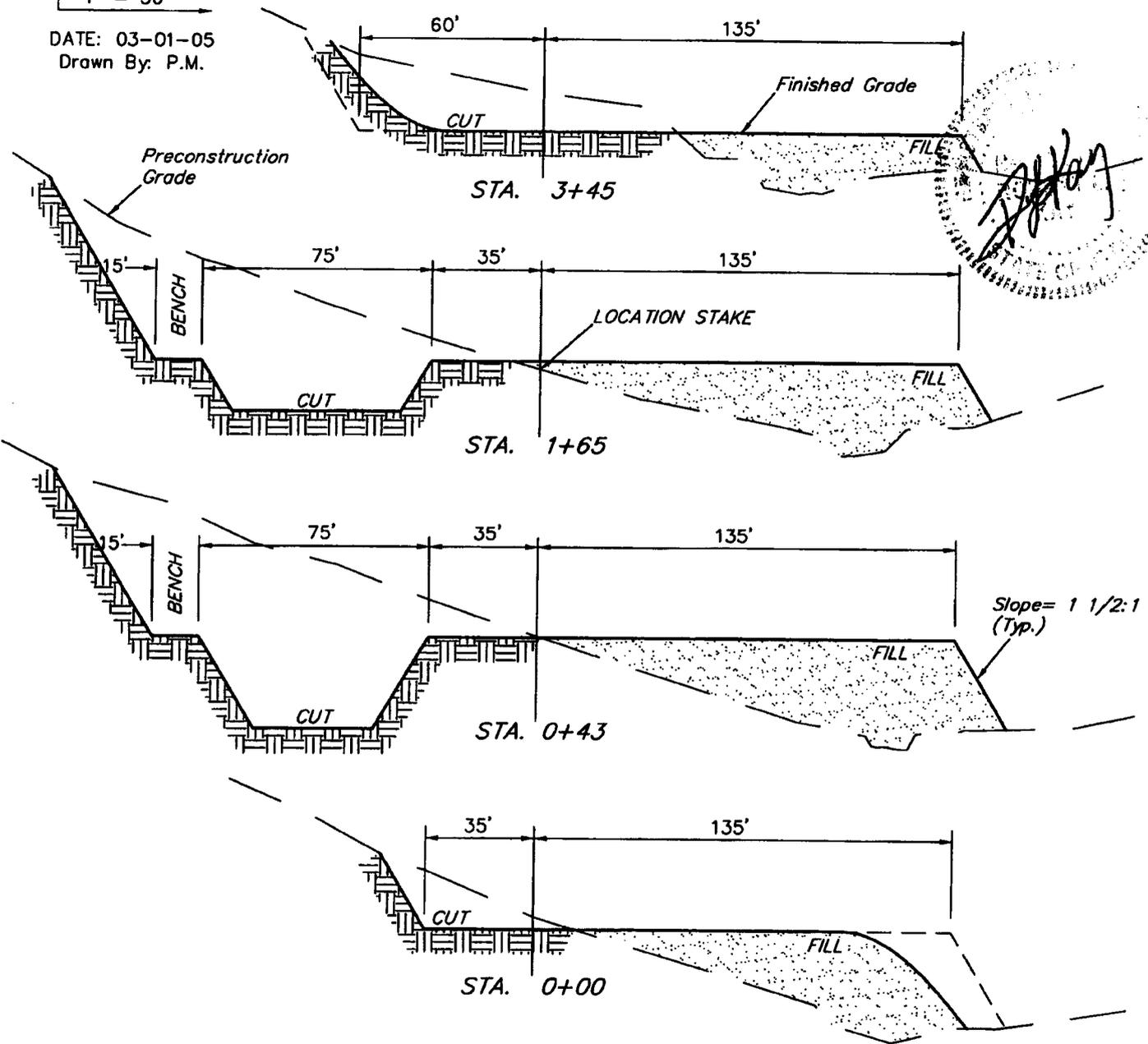
THE HOUSTON EXPLORATION COMPANY

FIGURE #2

TYPICAL CROSS SECTIONS FOR  
 ROCK HOUSE #7-36-10-22  
 SECTION 36, T10S, R22E, S.L.B.&M.  
 2209' FNL 2445' FEL

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

DATE: 03-01-05  
 Drawn By: P.M.



\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 2,030 Cu. Yds.
Remaining Location	= 15,660 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 17,690 CU.YDS.</b>
<b>FILL</b>	<b>= 13,960 CU.YDS.</b>

EXCESS MATERIAL	= 3,730 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,730 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

**THE HOUSTON EXPLORATION COMPANY**  
**ROCK HOUSE #7-36-10-22**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 36, T10S, R22E, S.L.B.&M.

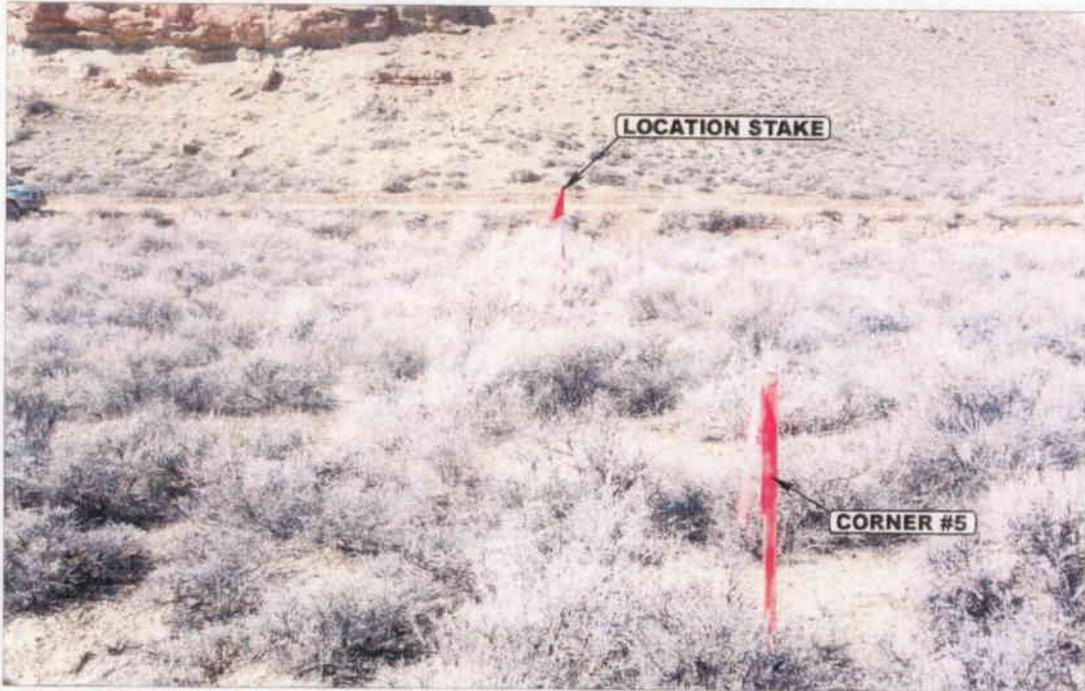


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

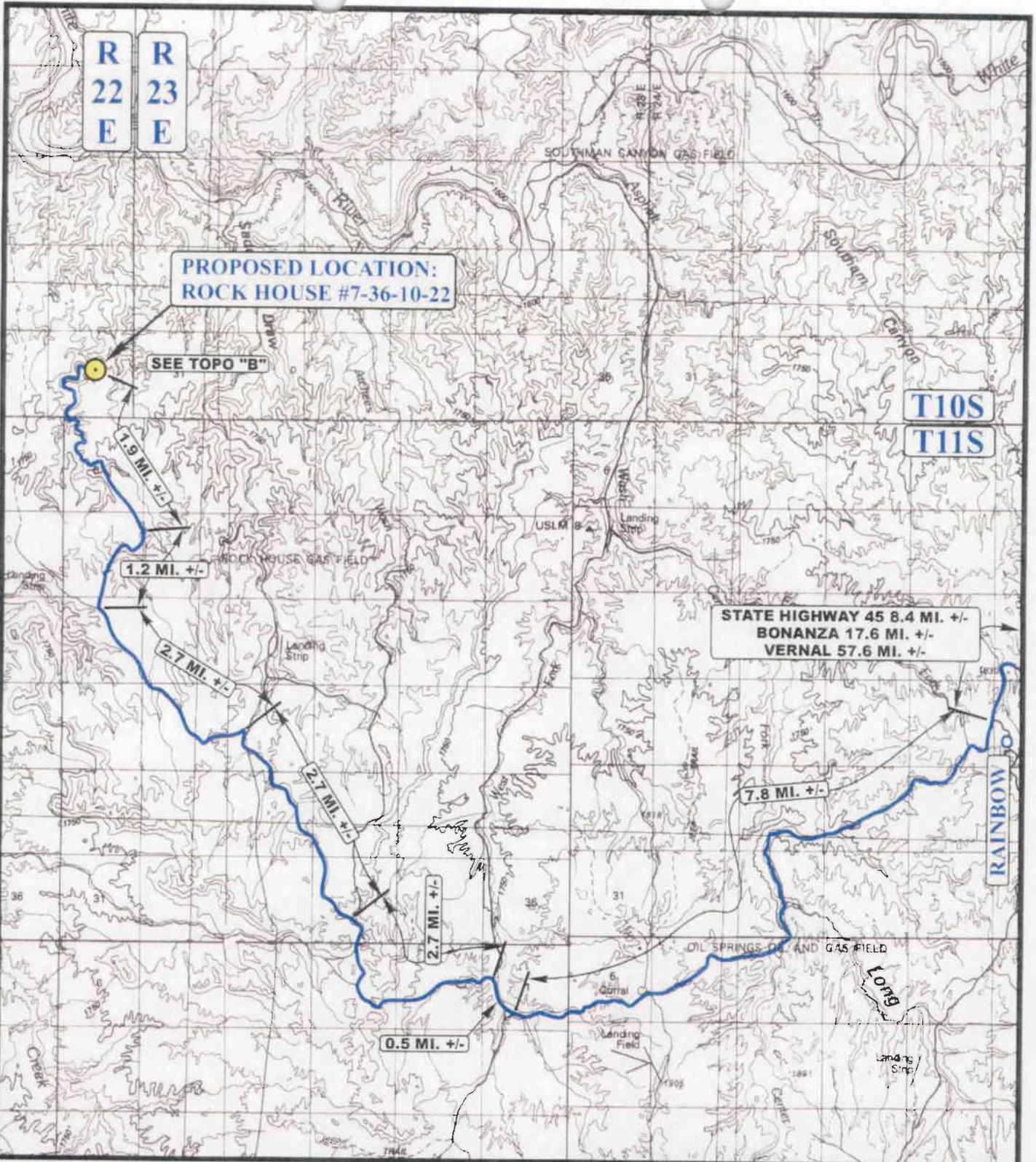
CAMERA ANGLE: EASTERLY



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

Since 1964

<b>LOCATION PHOTOS</b>	<b>02 28 05</b>			<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: A.F.	DRAWN BY: C.P.		REVISED: 00-00-00	



**LEGEND:**

 PROPOSED LOCATION



**THE HOUSTON EXPLORATION COMPANY**

**ROCK HOUSE #7-36-10-22**  
**SECTION 36, T10S, R22E, S.L.B.&M.**  
**2209' FNL 2445' FEL**

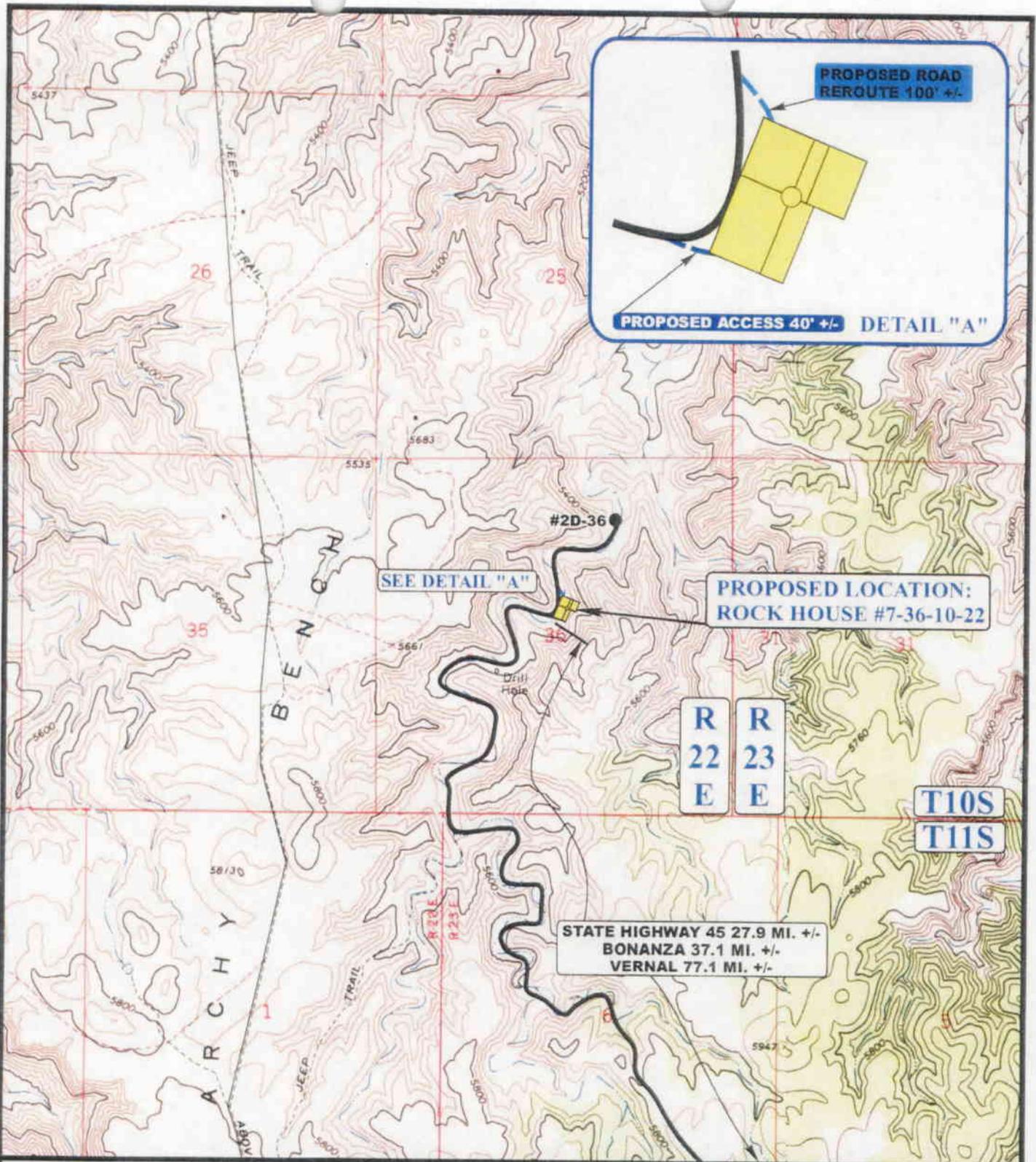


**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **02 28 05**  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- PROPOSED ROAD REROUTE



**THE HOUSTON EXPLORATION COMPANY**

**ROCK HOUSE #7-36-10-22**  
**SECTION 36, T10S, R22E, S.L.B.&M.**  
**2209' FNL 2445' FEL**

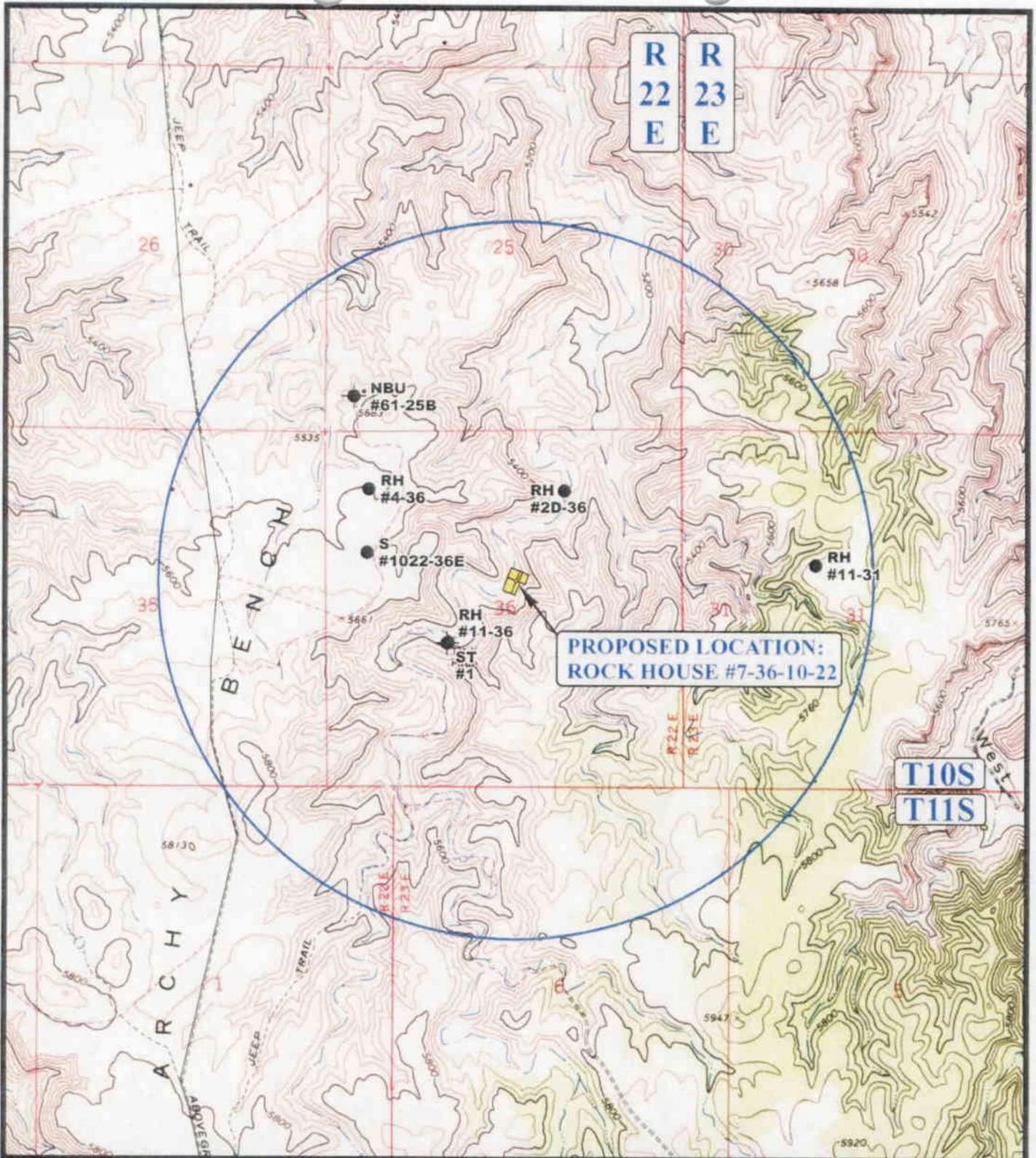


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **02 28 05**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





**PROPOSED LOCATION:  
ROCK HOUSE #7-36-10-22**

**T10S  
T11S**

**LEGEND:**

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

**THE HOUSTON EXPLORATION COMPANY**

**ROCK HOUSE #7-36-10-22  
SECTION 36, T10S, R22E, S.L.B.&M.  
2209' FNL 2445' FEL**



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

**TOPOGRAPHIC  
MAP**

**02 28 05**  
MONTH DAY YEAR

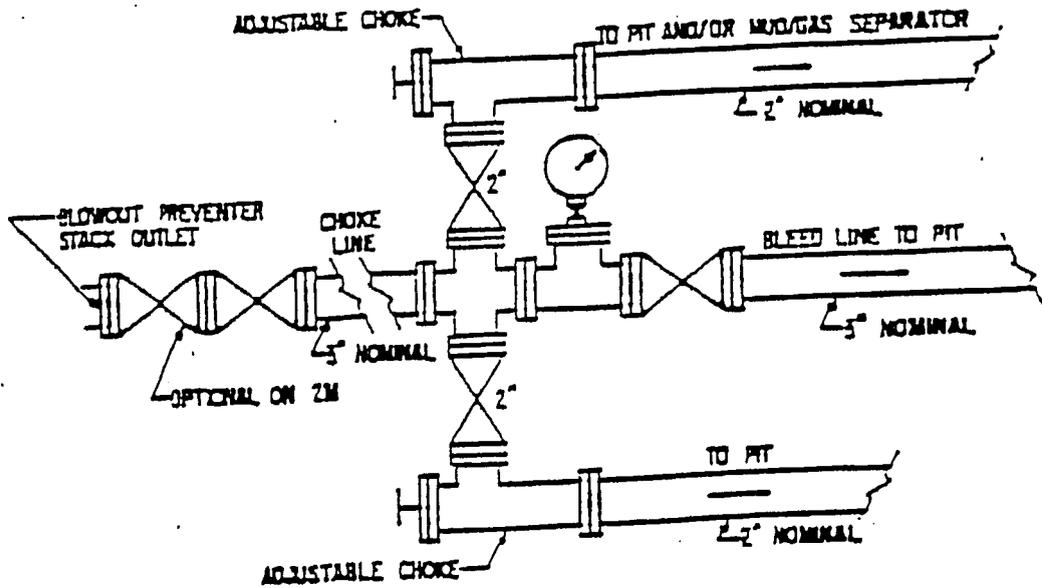
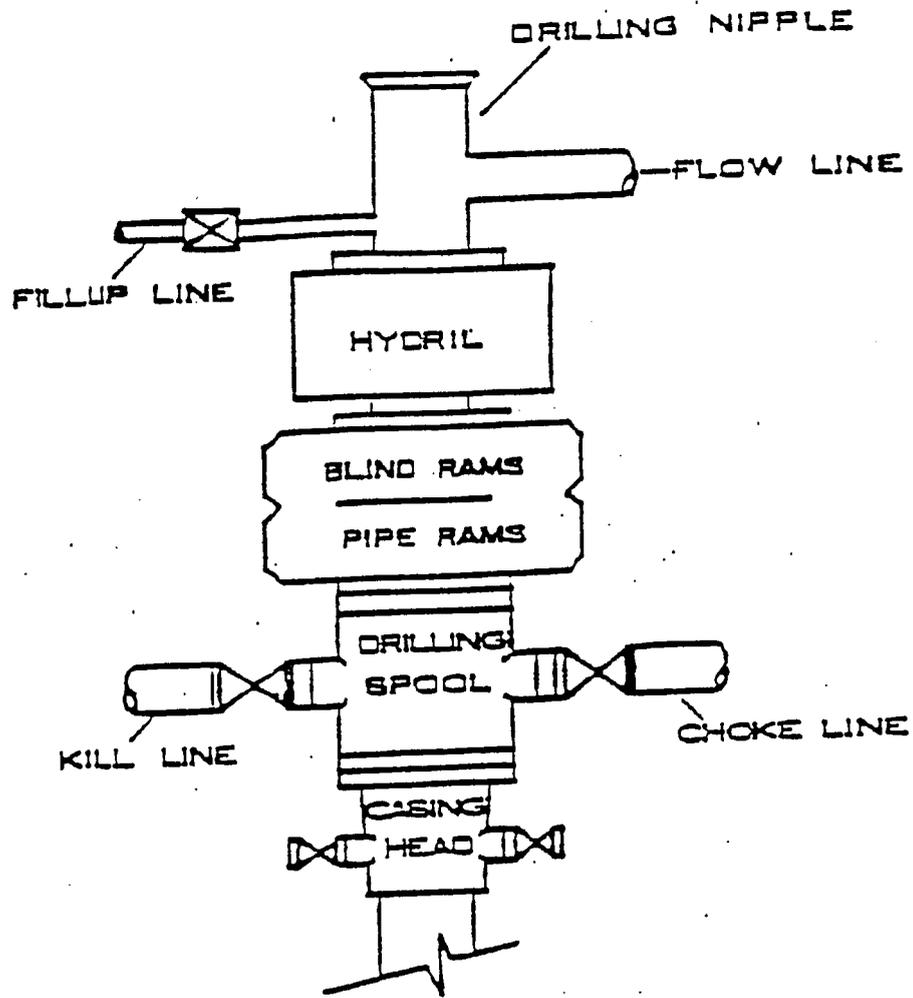
SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





3,000 PSI

# BOP STACK



**Enduring Resources, LLC**  
475 Seventeenth Street, Suite 1500  
Denver, Colorado 80202  
Office: 303-573-1222  
Facsimile: 303-573-0461

**VIA OVERNIGHT DELIVERY**

November 7, 2005

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

**RE: Pending APD's - Directional Drilling  
Uintah County, Utah**

Dear Ms. Whitney:

Enduring Resources, LLC ("ERLLC") has acquired the leasehold and the two wells listed below from The Houston Exploration Company ("THX").

1. Apparently, THX was unable to get exceptional location approval from the offsetting leasehold owner and the APD's have never been approved.
2. ERLLC plans to drill these wells **directionally** to "standard" locations as follows, and
3. ERLLC has been able to get approval from all the offsetting leasehold owner.

Rock House 3-36-10-22 Well

Surface: 934' FNL – 1,783' FWL  
BHL: 660' FNL – 1,980' FWL  
NENW Sec 36, T10S-R22E

Rock House 7-36-10-22 Well

Surface: 2,209' FNL – 2,445' FEL  
BHL: 1,980' FNL – 1,980' FEL  
SENE Sec 36, T10S-R22E

In order for ERLLC to proceed with its plans, approval from lease owners within 460 feet from all points along the intended well bores is needed.

The three leasehold owners within 460 feet of some part of the directional wellbore are Enduring Resources, LLD, The Houston Exploration Company, and Kerr-McGee Corporation (fka as Westport).

Pending APD's – Directional Drilling  
November 7, 2005  
Page No. 2

- A. Enduring Resources, LLC and The Houston Exploration Company (herein collectively) grant Enduring Resources, LLC permission to directionally drill these wells.
- B. Attached is Kerr-McGee Corporation's (Westport) approval to directionally drill these wells.

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

Very truly yours,

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

Very truly yours,

**THE HOUSTON EXPLORATION COMPANY**



Alvin R. (Al) Arlian  
Agent

ara

Attachment as stated:

**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

November 15, 2005

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

Attention: Diana Whitney

**RE: Application for Permit to Drill  
Enduring Resources, LLC  
Rock House 7-36-10-22  
SWNE Sec. 36, T10S-R22E  
Uintah County, Utah  
Lease # ML-47061**

Dear Ms. Whitney

Attached are two original applications to drill for the above-referenced proposed well. This information has also been submitted to the State of Utah, Institutional Trust Lands Administration.

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

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

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

ara/  
Attachments as stated:

cc: State of Utah – School and Institutional Trust Lands Administration w/ attach.

**RECEIVED**  
**NOV 15 2005**  
**DIV. OF OIL, GAS & MINING**

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: <b>ML-47061</b>	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: n/a	
2. NAME OF OPERATOR: Enduring Resources, LLC		9. WELL NAME and NUMBER: Rock House 7-36-10-22	
3. ADDRESS OF OPERATOR: 475 17th St., Ste 1500 CITY Denver STATE CO ZIP 80202		PHONE NUMBER: (303) 350-5114	10. FIELD AND POOL, OR WILDCAT: Wildcat
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2,209' FNL - 2,445' FEL <b>637895X 39.906551 44184214 - 109.386822</b> AT PROPOSED PRODUCING ZONE: <b>1,980' FNL - 1,980' FEL 638035X 39.907191 4418495Y - 109.385163</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 36 10S 22E S	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 78 miles south of Vernal, Utah		12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 660'	16. NUMBER OF ACRES IN LEASE: 200	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 1,500 +	19. PROPOSED DEPTH: 8,100	20. BOND DESCRIPTION: RLB0008031	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5357' KB-RT	22. APPROXIMATE DATE WORK WILL START: 11/25/2005	23. ESTIMATED DURATION: 20 days	

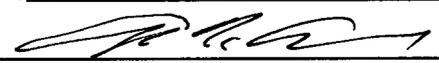
24. PROPOSED CASING AND CEMENTING PROGRAM						
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT	
20"	14"	line pipe		40	Ready Mix	3 yards
11"	8-5/8"	J-55	24#	2,000	Premium Lead	138 sxs 3.50 11.1
7-7/8"	4-1/2"				Premium Tail	138 sxs 1.15 15.8
7-7/8"	4-1/2"	N-80	11.6#	8,100	Premium Lead	124 sxs 3.91 11.0
					Premium Tail	907 sxs 1.56 14.3

25. ATTACHMENTS

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

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

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

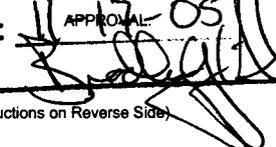
SIGNATURE  DATE 11/15/2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-36409

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

Date: 11/17/05 APPROVAL: 

By: 

(See Instructions on Reverse Side)

**RECEIVED**  
NOV 16 2005  
DIV. OF OIL, GAS & MINING

# T10S, R22E, S.L.B.&M.

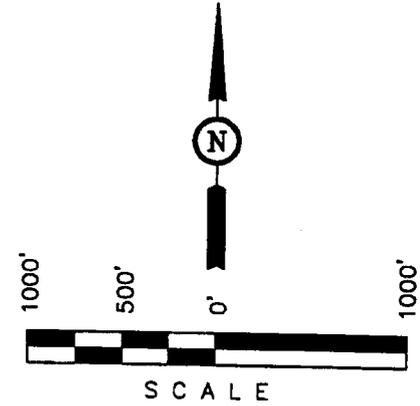
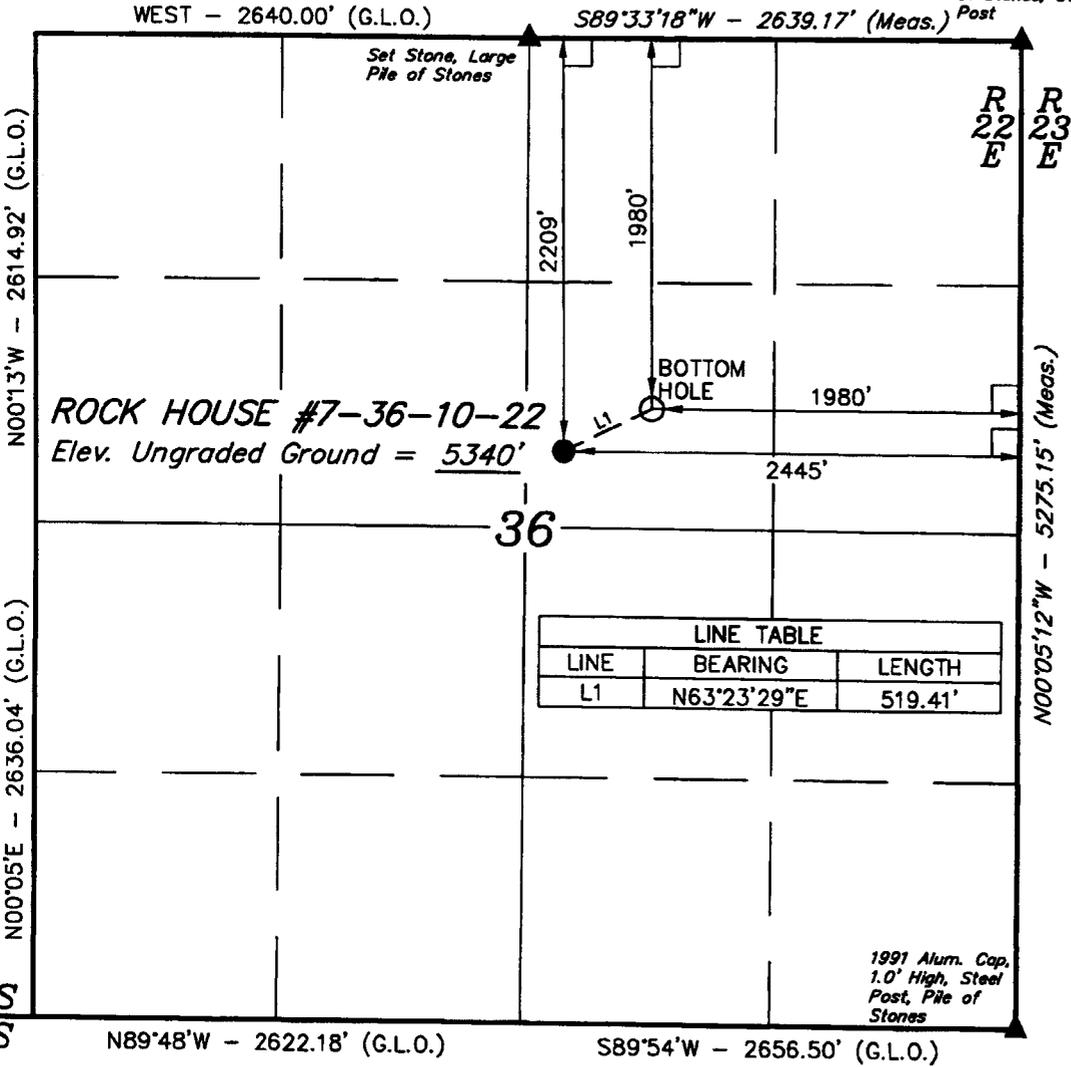
1991 Alum. Cap.  
0.2' High, Pile  
of Stones, Steel  
Post

## THE HOUSTON EXPLORATION COMPANY

Well location, ROCK HOUSE #7-36-10-22,  
located as shown in the SW 1/4 NE 1/4 of  
Section 36, T10S, R22E, S.L.B.&M. Uintah  
County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE  
NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN  
FROM THE BIG PACK MTN NE QUADRANGLE, UTAH,  
UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL  
MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT  
OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION  
IS MARKED AS BEING 5238 FEET.



### CERTIFICATE

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

*[Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161309  
STATE OF UTAH

REVISED: 11-09-05

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

SCALE 1" = 1000'	DATE SURVEYED: 02-24-05	DATE DRAWN: 03-01-05
PARTY A.F. B.G. P.M.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE THE HOUSTON EXPLORATION COMPANY	

### BASIS OF BEARINGS

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

(AUTONOMOUS NAD 83)  
LATITUDE = 39°54'23.46" (39.906517)  
LONGITUDE = 109°23'15.33" (109.387592)  
(AUTONOMOUS NAD 27)  
LATITUDE = 39°54'23.58" (39.906550)  
LONGITUDE = 109°23'12.88" (109.386911)

### LEGEND:

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

T10S  
T11S

N89°48'W - 2622.18' (G.L.O.)      S89°54'W - 2656.50' (G.L.O.)

N00°13'W - 2614.92' (G.L.O.)  
N00°05'E - 2636.04' (G.L.O.)

WEST - 2640.00' (G.L.O.)      S89°33'18"W - 2639.17' (Meas.)

N00°05'12"W - 5275.15' (Meas.)

R  
22  
E      R  
23  
E

Well name:

**04-05 Houston Rock House 7-36-10-22**Operator: **The Houston Exploration Company**String type: **Surface**

Project ID:

43-047-36409

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: 1,747 ft

Non-directional string.

**Re subsequent strings:**Next setting depth: 7,844 ft  
Next mud weight: 10.000 ppg  
Next setting BHP: 4,075 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 (ft <sup>3</sup> )
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 & MiningPhone: 801-538-5280  
FAX: 810-359-3940Date: November 17, 2005  
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 &amp; 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:

**04-05 Houston Rock House 7-36-10-22**Operator: **The Houston Exploration Company**String type: **Production**

Project ID:

43-047-36409

Location: **Uintah County****Design parameters:****Collapse**Mud weight: 10.000 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: 176 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 1,828 ft

**Burst**Max anticipated surface  
pressure: 3,156 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 4,104 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)**Directional well information:**Kick-off point 0 ft  
Departure at shoe: 434 ft  
Maximum dogleg: 2.5 °/100ft  
Inclination at shoe: 0 °

Tension is based on buoyed weight.

Neutral point: 6,768 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	7949	4.5	11.60	N-80	LT&C	7900	7949	3.875	184.3
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	4104	6350	1.547	4104	7780	1.90	78	223	2.86 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & MiningPhone: 801-538-5280  
FAX: 810-359-3940Date: November 17, 2005  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 7900 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

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

04-05 Houston Rock House 7-56-10-22

Casing Schematic

Surface

8-5/8"  
MW 8.4  
Frac 19.3

TOC @  
1828.  
Surface  
2000. MD  
2000. TVD

BHP

$(.052)(10)(7900) = 4108$   
Anticipate 4212

G<sub>00</sub>

$(.12)(7900) = 948$   
MASP = 3264

Fluid

$(.22)(7900) = 1738$   
MASP = 2474

BOPE - 3,000 ✓

Seef csg - 2950  
70% = 2065

Max pressure @ Seef shoe = 2914  
Test to 2,000 # ✓

4-1/2"  
MW 10.

Production  
7949. MD  
7900. TVD

TOC @  
0.  
442 Green River

1230  
TOC Tail

✓ w/118% Washout

3532 Washatch

3748 TOC Tail

4400 BMSW

5557 Mesaverde

✓ w/115% Washout

✓ Adequate Dec 11/17/05

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/18/2005

API NO. ASSIGNED: 43-047-36409

WELL NAME: ROCK HOUSE 7-36-10-22  
 OPERATOR: ENDURING RESOURCES, LLC ( N2750 )  
 CONTACT: AL ARLIAN

PHONE NUMBER: 303-350-5114

PROPOSED LOCATION:

SWNE 36 100S 220E  
 SURFACE: 2209 FNL 2445 FEL  
 BOTTOM: 1980 FNL 1980 FEL  
 Uintah  
 NATURAL BUTTES ( 630 )

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-47061  
 SURFACE OWNER: 3 - State  
 PROPOSED FORMATION: MVRD  
 COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	11/17/05
Geology		
Surface		

LATITUDE: 39.90655  
 LONGITUDE: -109.3868

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:

*(Pursue Road on 4-11-05)*

STIPULATIONS:

- 1- Spacing Strip
- 2- Oil Shale
- 3- Statement of Basis

# NATURAL BUTTES UNIT

NBU 6-25B

ROCK HOUSE 13-30-10-23

T10S R22E

ROCK HOUSE 4-36

BHL 3-36-10-22

ROCK HOUSE 10-22-41-36

ROCK HOUSE 3-36-10-22

ROCK HOUSE 20-36

STATE 1022-16J

BHL 7-36-10-22

ROCK HOUSE 7-36-10-22

36

SHARPLES-TEXACO ST 1

STATE 1023-36J

ROCK HOUSE 10-22-13-36

ROCK HOUSE 11-36

ROCK HOUSE 12-31-10-23

# NATURAL BUTTES FIELD

ROCK HOUSE 10-22-14-36

ROCK HOUSE 13-31

T11S R22E

T11S R23E

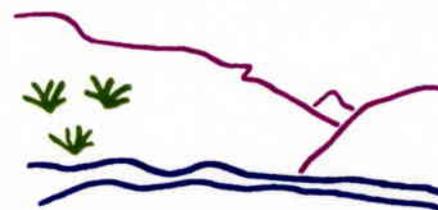
OPERATOR: ENDURING RES LLC (N2750)

SEC: 36 T. 10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

SPACING: R649-3-11 / DIRECTIONAL DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 16-NOVEMBER-2005

- 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



**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*

November 17, 2005

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

Re: Rock House 7-36-10-22 Well, 2209' FNL, 2445' FEL, SW NE, Sec. 36,  
T. 10 South, R. 22 East, Bottom Location 1980' FNL, 1980' FEL, SW NE,  
Sec. 36, T. 10 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 43-047-36409.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA

**Operator:** Enduring Resources, LLC  
**Well Name & Number** Rock House 7-36-10-22  
**API Number:** 43-047-36409  
**Lease:** ML-47061

**Location:** SW NE      **Sec.** 36      **T.** 10 South      **R.** 22 East  
**Bottom Location:** SW NE      **Sec.** 36      **T.** 10 South      **R.** 22 East

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

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

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

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

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

#### 3. Reporting Requirements

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

#### 4. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
7. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
8. 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.

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**ML-47061**

**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:  
**N/A**

7. UNIT or CA AGREEMENT NAME:  
**N/A**

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

8. WELL NAME and NUMBER:  
**Rock House 7-36-10-22**

2. NAME OF OPERATOR:  
**Enduring Resources, LLC**

9. API NUMBER:  
**43-047-36409**

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:  
**Wildcat**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **2,209' FNL - 2,445' FEL**

COUNTY: **Uintah**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENE 36 10S 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: <b>11/28/2005</b>	<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>Well Name/Number</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Change.</u>

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

Well name change from: **Rock House 7-36-10-22**

**Well Name Change to:      Rock House 10-22-32-36**

Utah State Bond #RLB0008031  
Operator No. N2750

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

TITLE **Landman - Regulatory Specialist**

SIGNATURE \_\_\_\_\_

DATE **11/28/2005**

(This space for State use only)

**RECEIVED  
DEC 01 2005**

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: ENDURING RESOURCES LLC

Well Name: ROCKHOUSE 10-22-32-36

Api No: 43-047-36409 Lease Type: STATE

Section 36 Township 10S Range 22E County UINTAH

Drilling Contractor PETE MARTIN'S RIG # BUCKET

**SPUDDED:**

Date 02/13/06

Time \_\_\_\_\_

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by DOUG HAMMOND

Telephone # 1-435-790-6996

Date 02/14/2006 Signed CHD

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

FORM 6

*COLLECTION*

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
4304736133	Cottonwood 12-21-14-10	SWSW	10	12S	21E	Utah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
A	99999	15209	2/7/2006		2/22/06	
Comments: <i>WSMVD</i> <span style="float: right;">- J</span>						

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304736151	Rainbow 11-24-41-17	NENE	17	11S	24E	Utah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
A	99999	15181	2/14/2006		2/16/06	
Comments: <i>CSLGT = MVRD</i> <span style="float: right;">- J</span>						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304736409	Rock House 10-22-32-36	SWNE	36	10S	22E	Utah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
A	99999	15182	2/14/2006		2/16/06	
Comments: <i>MVRD</i> <span style="float: right;">CONFIDENTIAL J</span>						

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

Title

2/14/2006

Date

RECEIVED

FEB 16 2006

DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47061</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>N/A</b>
2. NAME OF OPERATOR: <b>Enduring Resources, LLC</b>		8. WELL NAME and NUMBER: <b>Rock House 10-22-32-36</b>
3. ADDRESS OF OPERATOR: <b>475 17th Street, Suite 1500</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		9. API NUMBER: <b>43-047-36409</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2,209' FNL - 2,445' FEL</b>		10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENE 36 10S 22E S</b>		COUNTY: <b>Uintah</b>
		STATE: <b>UTAH</b>

**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: <b>2/20/2006</b>	<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>Conductor-Surface</u> <u>Pipe Cement Report</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.

2-14-2006 MI PETE MARTIN RATHOLE SERVICE AND DRILL 40 FT OF 20" HOLE. RUNV 40 FT OF 14" 0 40 NIH CONDUCTOR AND CEMENT IN PLACE WITH 3 YARDS OF READYMIX CEMENT.

2-20-2006 DRILL 12 1/4" HOLE TO 2030', HIT FRESH H2O @ 1500', POOH LAYING DOWN DRILL PIPE RIH w/CEMENT SHOE, 1 JNT CSG. FLOAT COLLAR, 47 JNTS CSG, 8 CENTRALIZERS. RAN 200' 1" PIPE DOWN BACK SIDE. RU BIG 4 CMNTRS AND & PUMP 120 BBLS H2O & 30 BBLS GEL DOWN CSG(LEAD)240 SKS CEMENT, 16% GEL, 10#/SK GILSONITE, 3% SALT, 3#/SK GR3, 1/4#/SK FLOCELE, 11PPG SLURRY WT, 3.82 CU/FT YIELD, 23 GAL/SK H2O, 163.28 BBLS SLURRY DOWN CSG. (TAIL) 200 SKS CEMENT, 2% CACL2, 1/4#/SK FLOCELE, 15.6 PPG SLURRY WT., 1.18 CU/ FT YIELD, 52 GAL/SK H2O, 42.03 BBLS SLURRY DOWN CSG, DROP PLUG ON FLY. DISPLACE TUBING SET PLUG. (1ST TOP JOB DOWN 1") 100 SKS CEMENT, MIX SAME AS TAIL, 21.02 BBLS SLURRY. CEMENT FELL BACK. (2ND TOP JOB DOWN BACK SIDE)100 SKS CEMENT, MIX SAME AS TAIL, 21.02 BBLS SLURRY. CEMENT TO SURFACE.  
HELD

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>2/20/2006</u>

(This space for State use only)

**RECEIVED**  
**FEB 23 2006**

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47061
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: N/A
		8. WELL NAME and NUMBER: Rock House 10-22-32-36
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	9. API NUMBER: 4304736534 36409	
2. NAME OF OPERATOR: Enduring Resources, LLC	10. FIELD AND POOL, OR WILDCAT: Wildcat	
3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80202	PHONE NUMBER: (303) 350-5114	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2,209' FNL - 2,445' FEL		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 36 10S 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: 7/20/2006	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input 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 checked="" type="checkbox"/> OTHER: <u>First Sales Notice.</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.

First sales on July 20, 2006. Sold 2,073 MCF on the 7-22-2006, 1,275# FCP and 320# LP.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>7/25/2006</u>

(This space for State use only)

JUL 28 2006

CONFIDENTIAL

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: 2,209' FNL - 2,445' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 1,980' FNL - 1,980' FEL AT TOTAL DEPTH: 1,949 FNL 1,947 FEL
5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47061
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
8. WELL NAME and NUMBER: Rock House 10-22-32-36
9. API NUMBER: 4304736409
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 36 10S 22E S
12. COUNTY: Uintah 13. STATE: UTAH

14. DATE SPUNNED: 4/12/2006 15. DATE T.D. REACHED: 4/21/2006 16. DATE COMPLETED: 7/16/2006 ABANDONED [ ] READY TO PRODUCE [x] 17. ELEVATIONS (DF, RKB, RT, GL): 5359' (RKB)
18. TOTAL DEPTH: MD 7.760 TVD 7.719 19. PLUG BACK T.D.: MD 7.710 TVD 7.670 20. IF MULTIPLE COMPLETIONS, HOW MANY? 6 21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each): Previously submitted.
23. WAS WELL CORED? NO [x] YES [ ] (Submit analysis) WAS DST RUN? NO [x] YES [ ] (Submit report) DIRECTIONAL SURVEY? NO [ ] YES [x] (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.
Rows include 20" 14" Line Pipe, 12.25" 8-5/8 J-55 32#, 7-7/8" 4-1/2 N-80 11.6#

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
Rows include (A) Wasatch, (B) Mesaverde

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.
Table with columns: DEPTH INTERVAL, AMOUNT AND TYPE OF MATERIAL
Rows include 4283' - 4284', 5508' - 7682'

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

(5/2000)

(CONTINUED ON BACK)

RECEIVED
SEP 05 2006

DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 7/22/2006		TEST DATE: 8/21/2006		HOURS TESTED: 720		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 884	WATER – BBL: 0	PROD. METHOD: 30 day avg
CHOKE SIZE: 16/64	TBG. PRESS.	CSG. PRESS. 1,305	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,120	WATER – BBL: 0	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):

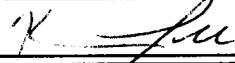
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Green River	804				
Wasatch	3,554				
Mesaverde	5,609				

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 Technician  
 SIGNATURE  DATE 8/31/2006

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 Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801

## PRECISION ENERGY RESOURCES



CLIENT: Enduring Resources  
WELL: Rock House 10-22-32-

WFT FILE #: 4E+06

KB=5359' / GL=5341

August 30th, 2006 (Definitive survey)

TRUE OR GRID: TRUE NORTH

AZ TO TARGET = 63.41 °

THIS SHEET HAS LOCKED  
CELLS, BUT THE FIRST  
ROW MUST BE EDITED  
FOR THE TIE ON POINT

STATION	SURVEY DEPTH	DRIFT	AZMTH	TVD	N/S	E/W	DLS	ClsDisp	ClsAz	VSectn
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2017.00	1.69	170.42	2016.71	-29.33	4.95	0.08	29.74	170.42	-8.70
3	2121.00	1.75	169.49	2120.66	-32.40	5.50	0.06	32.87	170.38	-9.59
4	2185.00	1.81	171.79	2184.63	-34.36	5.82	0.15	34.85	170.39	-10.18
5	2249.00	2.38	145.42	2248.59	-36.46	6.72	1.73	37.07	169.56	-10.31
6	2313.00	2.90	124.40	2312.52	-38.47	8.81	1.70	39.46	167.11	-9.34
7	2377.00	4.00	109.80	2376.41	-40.14	12.24	2.19	41.96	163.04	-7.02
8	2441.00	5.30	101.90	2440.19	-41.50	17.24	2.26	44.94	157.45	-3.17
9	2505.00	6.10	95.00	2503.88	-42.41	23.52	1.64	48.49	150.99	2.05
10	2569.00	6.50	85.20	2567.49	-42.40	30.51	1.79	52.24	144.26	8.31
11	2633.00	6.80	74.90	2631.07	-41.11	37.78	1.92	55.84	137.42	15.38
12	2697.00	7.50	69.00	2694.57	-38.63	45.34	1.58	59.56	130.43	23.25
13	2762.00	8.10	62.50	2758.97	-34.99	53.36	1.64	63.81	123.26	32.05
14	2826.00	8.60	58.90	2822.29	-30.44	61.46	1.13	68.58	116.35	41.33
15	2890.00	9.00	57.00	2885.54	-25.24	69.75	0.77	74.18	109.89	51.08
16	2954.00	8.90	55.50	2948.76	-19.71	78.03	0.40	80.48	104.18	60.96
17	3050.00	8.80	53.90	3043.61	-11.18	90.09	0.28	90.78	97.07	75.55
18	3147.00	8.80	52.30	3139.47	-2.27	101.95	0.25	101.98	91.28	90.15
19	3243.00	9.40	50.40	3234.26	7.22	113.80	0.70	114.03	86.37	105.00
20	3339.00	10.30	49.50	3328.85	17.79	126.37	0.95	127.62	81.99	120.97
21	3435.00	11.00	48.20	3423.19	29.47	139.72	0.77	142.80	78.09	138.14
22	3531.00	9.90	43.50	3517.60	41.56	152.23	1.45	157.80	74.73	154.73
23	3628.00	9.30	44.20	3613.24	53.23	163.44	0.63	171.89	71.96	169.97
24	3724.00	9.10	49.30	3708.01	63.74	174.60	0.87	185.87	69.95	184.66
25	3820.00	8.60	56.80	3802.87	72.62	186.36	1.31	200.01	68.71	199.16
26	3916.00	9.40	58.20	3897.69	80.68	199.03	0.86	214.76	67.93	214.09
27	4012.00	9.60	50.90	3992.37	89.86	211.91	1.27	230.17	67.02	229.72
28	4108.00	9.30	46.80	4087.07	100.22	223.77	0.77	245.19	65.87	244.96
29	4173.00	8.60	49.70	4151.28	106.96	231.31	1.28	254.84	65.18	254.72
30	4237.00	7.60	50.40	4214.64	112.75	238.22	1.57	263.56	64.67	263.49
31	4301.00	7.40	50.80	4278.09	118.05	244.67	0.32	271.67	64.24	271.64
32	4365.00	7.60	51.50	4341.55	123.29	251.18	0.34	279.81	63.86	279.80
33	4429.00	7.80	51.70	4404.97	128.62	257.90	0.32	288.19	63.49	288.19
34	4493.00	7.70	51.00	4468.38	134.01	264.64	0.21	296.64	63.14	296.63
35	4557.00	7.10	51.80	4531.85	139.15	271.08	0.95	304.71	62.83	304.70
36	4622.00	6.60	51.20	4596.39	143.98	277.15	0.78	312.32	62.55	312.28
37	4685.00	6.90	53.00	4658.95	148.52	282.99	0.58	319.60	62.31	319.54
38	4781.00	7.20	55.40	4754.22	155.41	292.55	0.44	331.27	62.02	331.17
39	4877.00	8.00	56.90	4849.38	162.48	303.10	0.86	343.90	61.81	343.77
40	4942.00	7.40	57.80	4913.79	167.18	310.43	0.94	352.58	61.70	352.43
41	5006.00	7.20	55.40	4977.28	171.65	317.22	0.57	360.68	61.58	360.50
42	5068.00	6.90	51.90	5038.81	176.15	323.35	0.84	368.22	61.42	368.00
43	5132.00	7.30	51.30	5102.32	181.07	329.55	0.64	376.01	61.21	375.74
44	5228.00	8.10	49.80	5197.45	189.25	339.47	0.86	388.66	60.86	388.28
45	5292.00	8.80	49.30	5260.75	195.35	346.63	1.10	397.89	60.60	397.41
46	5357.00	8.10	53.90	5325.05	201.29	354.10	1.50	407.31	60.38	406.74
47	5421.00	8.20	57.80	5388.40	206.38	361.60	0.88	416.35	60.29	415.73
48	5485.00	8.80	59.30	5451.70	211.31	369.67	1.00	425.81	60.25	425.16
49	5549.00	8.80	57.30	5514.95	216.46	378.00	0.48	435.59	60.20	434.91
50	5614.00	7.80	58.20	5579.27	221.47	385.94	1.55	444.97	60.15	444.25
51	5678.00	6.80	60.50	5642.75	225.62	392.93	1.63	453.10	60.14	452.36

DO NOT ENTER OR DELETE  
DATA TO RIGHT OF RED  
LINE

BASED UPON MINIMUM CURVATURE CALCULATIONS

**PRECISION ENERGY RESOURCES**



CLIENT: Enduring Resources  
 WELL: Rock House 10-22-32-

WFT FILE #: 4E+06

KB=5359' / GL=5341  
 August 30th, 2006 (Definitive survey)

THIS SHEET HAS LOCKED  
 CELLS, BUT THE FIRST  
 ROW MUST BE EDITED  
 FOR THE TIE ON POINT

TRUE OR GRID: TRUE NORTH

AZ TO TARGET = 63.41 °

STATION	SURVEY DEPTH	DRIFT	AZMTH	TVD	N/S	E/W	DLS	ClsDisp	ClsAz	VSectn		
52	5742.00	6.80	61.30	5706.30	229.31	399.55	0.15	460.67	60.15	459.93		
53	5806.00	6.80	59.40	5769.85	233.05	406.13	0.35	468.25	60.15	467.49		
54	5902.00	6.80	59.30	5865.17	238.85	415.91	0.01	479.61	60.13	478.83		
55	5998.00	7.10	61.00	5960.46	244.63	425.99	0.38	491.23	60.13	490.43		
56	6094.00	6.90	62.50	6055.75	250.17	436.29	0.28	502.92	60.17	502.12		
57	6190.00	5.40	66.20	6151.19	254.65	445.54	1.62	513.18	60.25	512.40		
58	6286.00	5.20	65.80	6246.78	258.26	453.64	0.21	522.00	60.35	521.26		
59	6382.00	4.10	77.80	6342.47	260.77	460.96	1.52	529.61	60.50	528.93		
60	6478.00	3.40	87.20	6438.26	261.63	467.16	0.97	535.43	60.75	534.86		
61	6574.00	3.10	87.90	6534.11	261.86	472.60	0.32	540.30	61.01	539.82		
62	6670.00	2.10	89.00	6630.01	261.99	476.95	1.04	544.17	61.22	543.77		
63	6820.00	2.10	89.00	6779.91	262.09	482.45	0.00	549.04	61.49	548.73		
64	6862.00	1.80	90.40	6821.88	262.10	483.88	0.72	550.30	61.56	550.01		
65	6958.00	0.80	48.50	6917.86	262.53	485.89	1.37	552.27	61.62	552.00		
66	7055.00	0.80	66.40	7014.85	263.25	487.01	0.26	553.61	61.61	553.33		
67	7151.00	0.80	91.80	7110.84	263.50	488.30	0.37	554.86	61.65	554.59		
68	7247.00	1.00	102.90	7206.83	263.29	489.78	0.28	556.07	61.74	555.83		
69	7341.00	0.80	102.50	7300.82	262.96	491.22	0.21	557.18	61.84	556.97		
70	7437.00	0.80	94.50	7396.81	262.77	492.55	0.12	558.25	61.92	558.07		
71	7533.00	0.80	102.80	7492.80	262.56	493.87	0.12	559.33	62.00	559.16		
72	7629.00	1.40	121.20	7588.78	261.81	495.52	0.72	560.44	62.15	560.30		
73	7706.00	1.40	127.00	7665.76	260.75	497.08	0.18	561.32	62.32	561.22		
74	7760.00	1.40	131.07	7719.74	259.92	498.10	0.18	561.84	62.44	561.76		
75												
76												
77				Bottom Hole closure calculated along an azimuth of XX.XX								
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 \*\* PROJECTION TO BIT

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

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47061

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

7. UNIT or CA AGREEMENT NAME: N/A

8. WELL NAME and NUMBER: Rock House 10-22-32-36

9. API NUMBER: 4304736409

10. FIELD AND POOL, OR WILDCAT: Wildcat

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 [x] OTHER [ ]

2. NAME OF OPERATOR: Enduring Resources, LLC

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

PHONE NUMBER: (303) 350-5114

4. LOCATION OF WELL FOOTAGES AT SURFACE: SHL = 2,209' FNL - 2,445' FEL (BHL = 1,980' FNL - 1,980' FEL)

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 36 10S 22E S

STATE: UTAH

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

Table with columns: TYPE OF SUBMISSION, TYPE OF ACTION. Includes checkboxes for NOTICE OF INTENT, SUBSEQUENT REPORT, ACIDIZE, ALTER CASING, CASING REPAIR, CHANGE TO PREVIOUS PLANS, CHANGE TUBING, CHANGE WELL NAME, CHANGE WELL STATUS, COMMINGLE PRODUCING FORMATIONS, CONVERT WELL TYPE, DEEPEN, FRACTURE TREAT, NEW CONSTRUCTION, OPERATOR CHANGE, PLUG AND ABANDON, PLUG BACK, PRODUCTION (START/RESUME), RECLAMATION OF WELL SITE, RECOMPLETE - DIFFERENT FORMATION, REPERFORATE CURRENT FORMATION, SIDETRACK TO REPAIR WELL, TEMPORARILY ABANDON, TUBING REPAIR, VENT OR FLARE, WATER DISPOSAL, WATER SHUT-OFF, OTHER: t

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

In order to prevent waste of gas, as defined by law; to protect the correlative rights of all parties concerned; to prevent the drilling of un-necessary wells; and to insure proper and efficient development and promote conservation of the gas resources of the State of Utah, Enduring Resources, LLC respectfully request approval to perforate and commingle the Wasatch and Mesaverde formations "pools" in the same well bore.

- 1. Ownership in both formations is the same. However, in the event allocation of production is necessary, that allocation will be based on proportionate net pay based on well logs.
2. These formations shall be commingled in the well bore and produced concurrently in a single string of 2-3/8" production tubing.
3. Attached is a map showing the location of wells on contiguous oil and gas leases and/or production units.
4. Also attached is an affidavit confirming that this application has been provided to leasehold interest owners in contiguous oil and gas lease or production units overlying the "pool."

6-11-07 km

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

TITLE Landman - Regulatory Specialist

SIGNATURE

DATE 5/1/2007

(This space for State use only)

APPROVED BY THE STATE
DIVISION OF OIL, GAS AND MINING
D.G. (Signature)

RECEIVED

MAY 04 2007

DIV. OF OIL, GAS & MINING

**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

May 1, 2007

The Houston Exploration Company  
1100 Louisiana, #2000  
Houston, TX 77002

**CERTIFIED MAIL**

**ARTICLE NO: 7006 2760 0001 4272 3909**

Attention: Land Department

**RE: Commingling Application  
Rock House 10-22-32-36  
SHL = 2209' FNL - 2445' FEL (BHL = 1980' FNL - 1980' FEL) Sec. 36-10S-22E  
Uintah County, Utah**

Dear Leasehold Interest Owner:

Enduring Resources, LLC ("Enduring") has filed an application with the State of Utah Division of Oil, Gas, and Mining requesting approval of the Wasatch and Mesaverde formations (pools) in the above-referenced well to be commingled.

Ownership in both formations is the same. However, in the event allocation of production is necessary, that allocation will be based on proportionate net pay based on well logs. These formations (pools) shall be commingled in the well's well bore.

Attached is a map showing the location of wells on contiguous oil and gas leases and/or production units. Also attached is an affidavit confirming that this application has been provided to leasehold interest owners in contiguous oil and gas leases or production units overlying the commingled pools (commingled formations).

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

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

ara/

Attachments as stated:

# AFFIDAVIT OF MAILING

State of Colorado )  
City and )ss.  
County of Denver )

Alvin R. Arlian (hereinafter sometimes referred to as "Affiant"), of lawful age, being first duly sworn upon oath, deposes and says:

1. Affiant is a Landman-Regulatory Specialist for Enduring Resources, LLC (hereinafter sometimes referred to as "Enduring") whose address is 475 17<sup>th</sup> Street, Denver, Colorado 80202,

2. Enduring is the operator of the following described oil and gas well:

**Rock House 10-22-32-36**

**SHL = 2209' FNL - 2445' FEL (BHL = 1980' FNL - 1980' FEL) Sec. 36-10S-22E  
Uintah County, Utah**

3. A cursory search of applicable records confirmed that the following parties are the only leasehold interest owners in the contiguous oil and gas wells, contiguous oil and gas leases, or contiguous oil and gas well production units overlying the "pool."

1. The Houston Exploration Company
- 2.
- 3.
- 4.

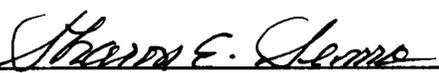
4. On Tuesday, May 01, 2007 Affiant mailed (or caused to be mailed) in U.S. Mail, with postage prepaid, a copy of the attached Application for Commingling two or more pools (formations) in one well bore of the well described in Paragraph No. 2 above which said Application for Commingling (Form 9) has/had concurrently been filed with the State of Utah Division of Oil, Gas, and Mining (and if applicable, copies sent to SITLA, and the Bureau of Land Management), and

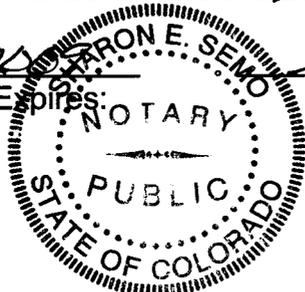
5. Attached is a map showing the location of wells' located on contiguous oil and gas leases and/or production units.

Affiant saith no more.

  
\_\_\_\_\_  
Alvin R. Arlian, Affiant

Scribed and sworn to before me this <sup>1st</sup> ~~27<sup>th</sup>~~ day of <sup>MAY</sup> ~~April~~, 2007 by Alvin R. Arlian.

<sup>9/23/20</sup> My Commission Expires: 9/23/20   
\_\_\_\_\_  
Notary Public.





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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		6. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47061</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
		7. UNIT or CA AGREEMENT NAME: <b>N/A</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>Rock House 10-22-32-36</b>
2. NAME OF OPERATOR: <b>Enduring Resources, LLC</b>		9. API NUMBER: <b>4304736409</b>
3. ADDRESS OF OPERATOR: <b>475 17th Street, Suite 1500</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2,209' FNL - 2,445' FEL</b> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENE 36 10S 22E S</b>		COUNTY: <b>Uintah</b> STATE: <b>UTAH</b>

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: <b>11/9/2007</b>	<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: <b>Pit Closed and Reseeded</b>
	<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.

**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>

(This space for State use only)

**RECEIVED**  
**NOV 14 2007**  
DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47061</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
1. TYPE OF WELL:    OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>N/A</b>
2. NAME OF OPERATOR: <b>Enduring Resources, LLC</b>		8. WELL NAME and NUMBER: <b>Rock House 10-22-32-36</b>
3. ADDRESS OF OPERATOR: <b>475 17th Street, Suite 1500</b> CITY: <b>Denver</b> STATE: <b>CO</b> ZIP: <b>80202</b>		9. API NUMBER: <b>4304736409</b>
PHONE NUMBER: <b>(303) 350-5114</b>		10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2,209' FNL - 2,445' FEL</b>		COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SENE 36 10S 22E S</b>		STATE: <b>UTAH</b>

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: <b>9/25/2008</b>	<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 checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Conformation of</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Commingling.</u>

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

First sales on July 20, 2006.

Conformation that well was commingled in the Wasatch and Mesaverde formations "pools" in the initial completion attempt.

NAME (PLEASE PRINT) <u>Alvin R. (Al) Arlian</u>	TITLE <u>Landman - Regulatory Specialist</u>
SIGNATURE	DATE <u>9/25/2008</u>

(This space for State use only)

**RECEIVED**  
**SEP 30 2008**



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

September 4, 2014

CERTIFIED MAIL NO.: 7011 2970 0001 8828 1610

43 047 36409  
Rock House 10-22-32-36  
36 105 22E

Mr. John Conley  
Enduring Resources, LLC  
511 16<sup>TH</sup> Street STE 700  
Denver, CO 80202

Subject: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases

Dear Mr. Conley:

As of April 2014, Enduring Resources, LLC (Enduring) has twenty (20) State Lease Wells and six (6) Fee Lease Wells (see attachment A) that are currently in non-compliance with the requirements for extended shut-in or temporarily abandoned (SI/TA) status. Four (4) wells in 2013 and seven (7) wells in 2014 were added to Enduring's SI/TA list.

Several of these wells (attachment A) have previously been issued notices of non-compliance and have remained in non-compliance. The Division has worked with Enduring to reduce the immense amount of wells that were in non-compliance. In 2010 Enduring provided the Division with a list of wells to be plugged (attachment A), and the Division recognizes that Enduring most recently plugged a number of wells in 2012. However in 2013 only two wells were plugged while four (4) additional wells were added, while nothing has been done in 2014 on any of the wells. Enduring never submitted plugging procedures for the remaining wells listed to be plugged and therefore has not followed through with these plans to bring these wells or any other wells into compliance.

Enduring shall immediately submit plans and timeframes for each well stating which wells will be plugged, placed back on production, or requesting SI/TA extension with proof of wellbore integrity and good cause for such request. All wells need an individual sundry filed and are required to meet the SI/TA rules as listed below.

Wells SI/TA beyond twelve (12) consecutive months requires filing a Sundry Notice (R649-3-36-1). Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (649-3-36-1.3.3). For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

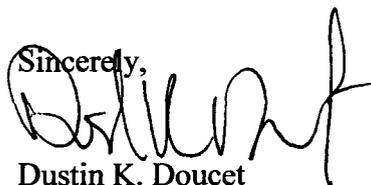
1. Reasons for SI/TA of the well (R649-3-36-1.1)
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

Please note that the Divisions preferred method for showing well integrity is by MIT

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,  
  
Dustin K. Doucet  
Petroleum Engineer

DKD/JP/js

cc: Compliance File  
Well File  
LaVonne Garrison, SITLA  
N:\O&G Reviewed Docs\ChronFile\PetroleumEngineer\SITA

# ATTACHMENT A

	Well Name	API	LEASE	Years Inactive	Prior Notice	Proposed PA
1	AGENCY DRAW 12-21-31-36	43-047-36424	ML 47086	7 years 10 months	1 <sup>ST</sup> NOTICE	12/31/2014
2	ASPHALT WASH 11-24-42-16	43-047-36875	ML 47080	7 years 11 months	1 <sup>ST</sup> NOTICE	12/31/2014
3	ARCHY BENCH 11-24-24-32	43-047-36819	ML 49762	7 years 1 month	1 <sup>ST</sup> NOTICE	12/31/2012
4	SOUTHAM CYN 10-25-11-6	43-047-36933	FEE	7 years	1 <sup>ST</sup> NOTICE	12/31/2012
5	N HORSESHOE 3-13-6-21	43-047-37391	ML 49317	5 years 6 months	2 <sup>ND</sup> NOTICE	Extension valid to 9/1/2014
6	BUCK CAMP 12-22-21-2	43-047-37656	ML 47087	6 years 8 months	1 <sup>ST</sup> NOTICE	12/31/2014
7	DWR 12-23-13-21	43-047-33344	FEE	6 years		12/31/2014
8	DWR 12-23-31-21	43-047-33484	FEE	5 years 4 months	1 <sup>ST</sup> NOTICE	12/31/2013
9	ARCHY BENCH 12-23-42-16	43-047-36802	ML 48957	6 years 1 month		12/31/2014
10	ARCHY BENCH 11-24-12-32	43-047-36822	ML 49762	5 years 5 months		12/31/2013
11	ROCK HOUSE 10-22-33-36	43-047-37789	ML 49959	5 years 5 months		12/31/2014
12	HANGING ROCK 11-23-24-36	43-047-38278	ML 50085	5 years 3 months		5/18/2012
13	N WALKER HOLLOW 2-32-6-23	43-047-37399	ML 47777	4 years 7 months	1 <sup>ST</sup> NOTICE	
14	BUCK CAMP 12-22-31-2	43-047-36273	ML-47087	3 years 6 months		
15	SOUTHAM CYN 9-24-13-36	43-047-38910	FEE	3 years 9 months		
16	DWR 12-23-12-28	43-047-33343	FEE	2 years 6 months		
17	BONANZA 9-24-11-16	43-047-35622	ML-46526	2 years 6 months		
18	ROCK HOUSE 10-22-32-36	43-047-36409	ML-47061	2 years 5 months		
19	BUCK CYN 12-21-43-16	43-047-37091	ML-47085	2 years 6 months		
20	BUCK CAMP 11-22-11-36	43-047-36277	ML-47077	2 years 1 month		
21	HANGING ROCK 11-23-42-36	43-047-38280	ML-50085	2 years 2 months		
22	HANGING ROCK 11-23-43-36	43-047-38282	ML-50085	1 years 5 months		
23	ROCK HOUSE 10-22-21-36	43-047-36407	ML-47061	2 years 2 months		
24	ROCK HOUSE 10-23-21-30	43-047-37832	FEE	2 years 3 months		
25	SOUTHMAN CYN 9-23-21-36	43-047-36530	ML-47782	2 years		
26	SOUTHMAN CYN 9-23-33-36	43-047-35363	ML-47782	1 year 9 months		

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47061
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: Enduring Resources, LLC	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 511-16th Street, Suite 700 , Denver, CO, 80202	8. WELL NAME and NUMBER: ROCK HOUSE 10-22-32-36
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2209 FNL 2445 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 36 Township: 10.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047364090000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	COUNTY: UINTAH
9. API NUMBER: 43047364090000	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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 2/23/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> <b>PLUG AND ABANDON</b>	<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.  
 Plan to plug well upon approval of proposed plugging plan.

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

**Date:** March 04, 2015

**By:**

**Please Review Attached Conditions of Approval**

<b>NAME (PLEASE PRINT)</b> Travis Whitham	<b>PHONE NUMBER</b> 303 350-5716	<b>TITLE</b> Landman
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/17/2015	



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Sundry Conditions of Approval Well Number 43047364090000**

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. All balanced plugs shall be tagged to ensure they are at the depths specified in the procedure.**
  - 3. All annuli shall be cemented from a minimum depth of 100' to the surface.**
  - 4. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
  - 5. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 6. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 7. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**



# Wellbore Diagram

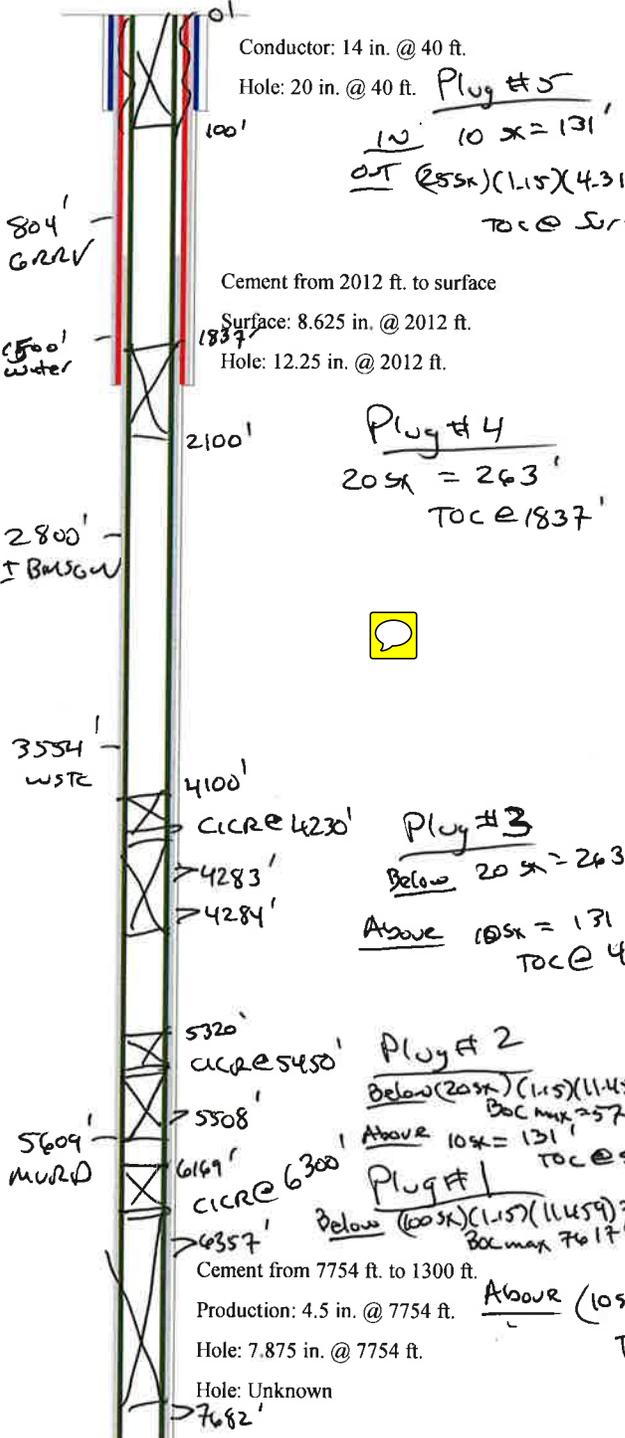
**API Well No:** 43-047-36409-00-00 **Permit No:**  
**Company Name:** ENDURING RESOURCES, LLC  
**Location:** Sec: 36 T: 10S R: 22E Spot: SWNE  
**Coordinates:** X: 637833 Y: 4418626  
**Field Name:** NATURAL BUTTES  
**County Name:** Uintah

**Well Name/No:** ROCK HOUSE 10-22-32-36

### String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (f/cf)
HOL1	40	20			
COND	40	14			
HOL2	2012	12.25			
SURF	2012	8.625	32	2012	
HOL3	7754	7.875			
PROD	7754	4.5	11.6	7754	11.459

*Handwritten:* 8 5/8" x 4 1/2" → 4.315



*Handwritten calculations:*  
 $10 \times 10 \times 1.15 = 131'$   
 $10 \times (25 \times 1.15) \times 4.315 = 124'$   
 TOC @ Surf ✓

*Handwritten calculations:*  
**Plug #4**  
 $20 \times 12.25 = 245'$   
 TOC @ 1837'

*Handwritten calculations:*  
**Plug #3**  
 Below  $20 \times 12.25 = 245'$   
 Above  $10 \times 12.25 = 122.5'$   
 TOC @ 4100'

*Handwritten calculations:*  
**Plug #2**  
 Below  $(20 \times 11.6) \times 1.15 = 263'$   
 BOC max = 5713'  
 Above  $10 \times 11.6 = 116'$   
 TOC @ 5320'

*Handwritten calculations:*  
**Plug #1**  
 Below  $(10 \times 11.6) \times 1.15 = 131'$   
 BOC max = 7617'  
 Above  $(10 \times 11.6) \times 1.15 = 131'$   
 TOC @ 6169'

### Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	7754	1300	G	1405
SURF	2012	0	LT	240
SURF	2012	0	G	400

### Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
4283	4284			
5508	7682			

### Formation Information

Formation	Depth
GRRV	804
BMSW	2800
WSTC	3554
MVRD	5609

**TD:** 7760 **TVD:** 7719 **PBTD:** 7710



## Recommended Procedure

## Plug and Abandonment

**Operator:** Enduring Resources

**Well Name:** Rock House 10-22-32-36

**Legal:** SENE Section: 36, Township: 10 South, Range: 22 East

**Location:** Uintah County, Utah

**Surface Casing:** 8-5/8" 32#@ 2,012' Hole: 12-1/4" TOC: Surface

**Production Casing:** 4-1/2" 11.6# @ 7,760' Hole: 7-7/8" TOC: 450'

**Tubing:** 2 3/8" J at about 4,061' (131 jts.)

**Perforations:** Wasatch 4,283'; 5,508' Mesa Verde 6,357'; 6,467'; 7,093'; 7,682'

**PBTD:** 5,650' (CIBP)

**TD:** 7,740'

1. Conduct pre-job safety meeting and complete daily JSA
  2. Prior to MIRU, check rig anchors and blow down well if necessary
  3. Dig out around wellhead and check surface annulus for pressure, if present call for orders
  4. MIRU P&A Equipment, ND wellhead, NU BOP
  5. POH with tubing, visual inspect
  6. RIH with bit, tag and drill out CIBP at 5,650'
  7. RIH to 6,300'
  8. POH, RIH with CICR and set at 6,300'
  9. Pressure test tubing, establish injection rate
  10. Pump 100 sacks under the CICR, sting out and spot 10 sacks on top of the CICR
  11. (100 sxs is 1,317' in the 4 1/2" and 10 sxs is 131')
  12. POH 300', reverse out, and roll the hole with corrosion inhibitor treated water  
Note: Wasatch perms are open, and may drink fluid.  
If circulation is not established, circulate 40 bbl. of water and inhibitor to Wasatch perms.
  13. POH, RIH with CICR and set at 5,450'
  14. Pressure test tubing, establish injection rate
  15. Pump 20 sacks under the CICR, sting out and spot 10 sacks on top of the CICR
  16. (20 sxs is 262' in the 4 1/2" and 10 sxs is 131')
  17. POH 300', reverse out, POH, RIH with CICR and set at 4,230'
  18. Pressure test tubing, establish injection rate
  19. Pump 20 sacks under the CICR, sting out and spot 10 sacks on top of the CICR
  20. (20 sxs is 262' in the 4 1/2" and 10 sxs is 131')
  21. POH 300', reverse out, POH to 2,100' spot 20 sxs across surface casing shoe
  22. Pressure test 4 1/2" x 9 5/8" annulus to 500#, if it fails, call for orders
  23. (Note: TOC is above the shoe)
  24. POH to 100' and circulate 10 sacks of cement to surface (10 sxs is 131' inside 4-1/2")
  25. NDBOP, cut off wellhead
  26. RIH with 1" tubing to 100' and circulate 25 sacks of cement to surface  
(25 sxs is 124' inside annulus)
  27. Weld a plate, and backfill the hole
- RDMO P&A Complete



Don Staley &lt;donstaley@utah.gov&gt;

---

**Sundry For API Well Number 43047364090000**

1 message

---

**dustindoucet@utah.gov** <dustindoucet@utah.gov>

Wed, Mar 4, 2015 at 3:31 PM

To: twhitham@enduringresources.com

Cc: davidhackford@utah.gov, danjarvis@utah.gov

Notice of Intent: PLUG\_AND\_ABANDON API Number: 43047364090000 Operator: Enduring Resources, LLC  
Approved: 3/4/2015 See Conditions Attached I neglected to include a necessary plug in my original approval.  
Please add this required plug to your conditions and plugging plan: Add Plug #4B: A 200' plug ( $\pm 20$  sx) shall be  
balanced from  $\pm 900'$  to 700'. This will isolate the top of Parachute Creek Member of the Green River formation  
as required by R649-3-31-9 and Board Cause No. 190-5(B). Thanks, Dustin Doucet

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