

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

FORM 3

AMENDED REPORT   
(highlight changes)

001

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: 47063	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: The Houston Exploration Company			9. WELL NAME and NUMBER: Rockhouse 3-32-10-23	
3. ADDRESS OF OPERATOR: 1100 Louisiana Suite 20 CITY Houston STATE TX ZIP 77002		PHONE NUMBER: (713) 830-6800	10. FIELD AND POOL, OR WILDCAT: Natural Buttes	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 524' FNL & 2151' FWL AT PROPOSED PRODUCING ZONE: same as above			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 32 10S 23E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 77.25 miles South of Vernal, UT			12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 524'	16. NUMBER OF ACRES IN LEASE: 640	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 900'	19. PROPOSED DEPTH: 7,534	20. BOND DESCRIPTION: 104155044		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5180.7 GR	22. APPROXIMATE DATE WORK WILL START: 3/15/2005	23. ESTIMATED DURATION: 30 Days		

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
11"	8 5/8 J-55 36#	2,000	Primum 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 #	7,534	Primum Lite II	200 sks	3.3 CF	11.0 PPG
			Class G	400 sks	1.56 CF	14.3 PPG

RECEIVED  
FEB 16 2005

**ATTACHMENTS**

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

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

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) William A Ryan TITLE Agent  
SIGNATURE \_\_\_\_\_ DATE 2/9/2005

(This space for State use only)

API NUMBER ASSIGNED: 43-047-36307

Approved by the  
Utah Division of  
Oil, Gas and Mining

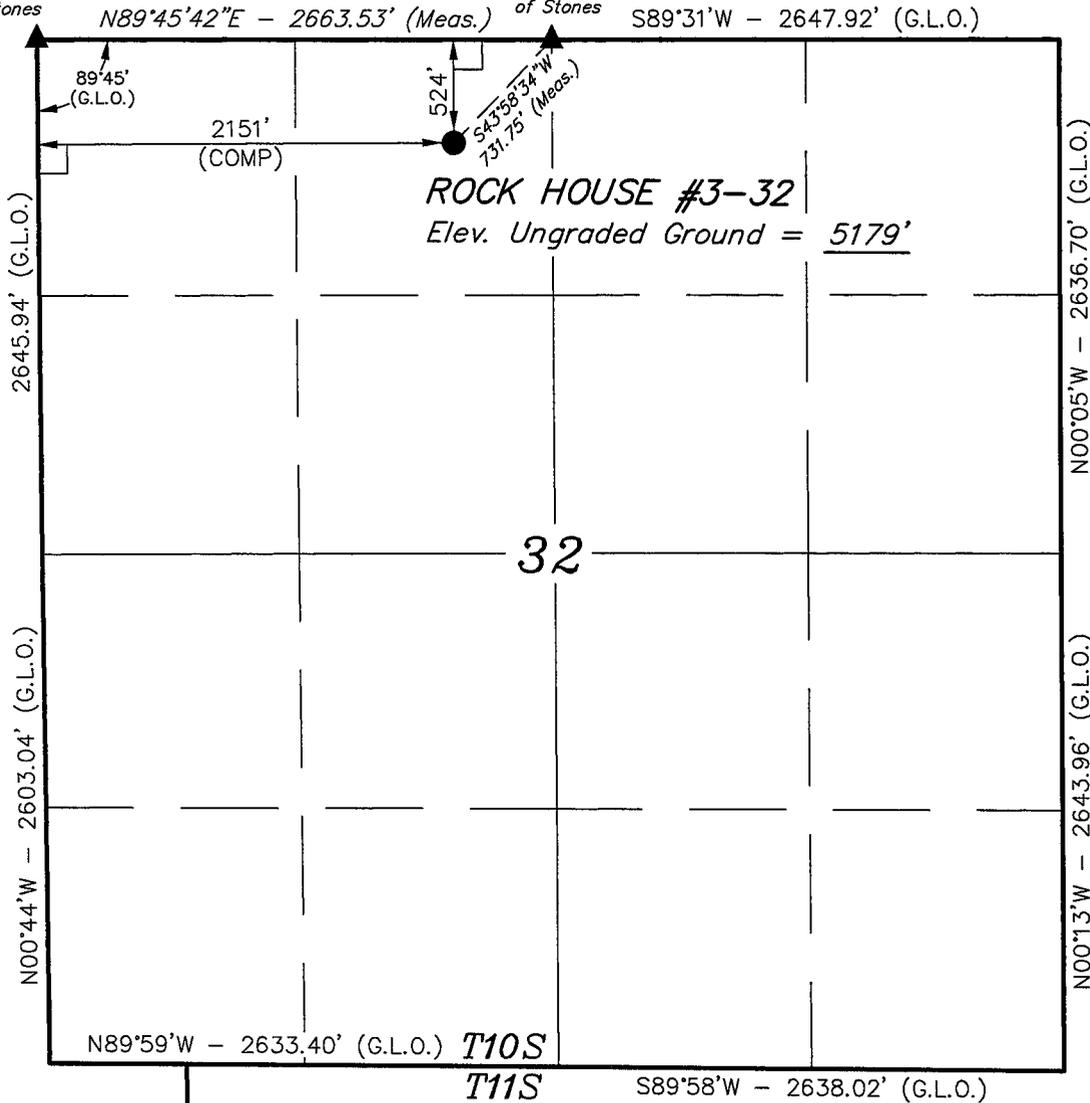
APPROVAL:  
Date: 02-21-05  
By: [Signature]

CONFIDENTIAL

# T10S, R23E, S.L.B.&M.

1994 Alum. Cap,  
0.5' High, Pile  
of Stones

1994 Alum. Cap,  
0.2' High, Pile  
of Stones



## THE HOUSTON EXPLORATION COMPANY

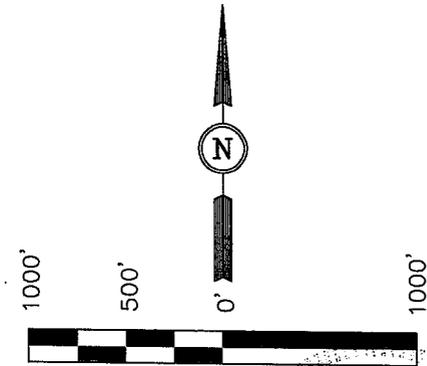
Well location, ROCK HOUSE #3-32, located as shown in the NE 1/4 NW 1/4 of Section 32, T10S, R23E, S.L.B.&M. Uintah County, Utah.

### BASIS OF BEARINGS

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

### 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.



SCALE  
CERTIFICATE

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

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

### LEGEND:

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

(AUTONOMOUS NAD 83)  
LATITUDE = 39°54'40.24" (39.911178)  
LONGITUDE = 109°21'09.37" (109.352603)  
(AUTONOMOUS NAD 27)  
LATITUDE = 39°54'40.36" (39.911211)  
LONGITUDE = 109°21'06.93" (109.351925)

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

SCALE 1" = 1000'	DATE SURVEYED: 1-5-05	DATE DRAWN: 1-11-05
PARTY B.B. J.M. E.C.O.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE THE HOUSTON EXPLORATION COMPANY	

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****Rockhouse 3-32-10-23****Surface Location NE ¼ NW ¼, Section 32, T. 10S., R. 23 E.****1. Surface Formation**

Green River

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

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Green River	Surface	+5,180' G.L.
Uteland Butte Limestone	3,204	+1,976'
Wasatch	3,286	+1,894'
Mesaverda	5,186	-6'
Buck Tounge	7,486	-2,306'
Castlegate	7,566	-2,386'
TD	7,534	-2,354'

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: Wells within a one-mile radius.

**Drilling/ Permitted Well:**

Rockhouse #7-32  
 Rockhouse #4-32  
 Rockhouse #5-32  
 Rockhouse #9-32  
 Rockhouse #13-32

Producing Well:

Rockhouse #2D-32  
Rockhouse #6D-32  
Rockhouse #10D-32  
Rockhouse #12D-32

Abandon Well:

None

Shut-in Well:

None

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	Primium 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	Primium 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 March.15, 2005. Duration of operations is expected to be 30 days.

**THE HOUSTON EXPLORATION COMPANY**

**13 POINT SURFACE USE PLAN**

**FOR WELL**

**ROCKHOUSE 3-32-10-23**

**LOCATED IN NE  $\frac{1}{4}$  NW  $\frac{1}{4}$**

**SECTION 32, T.10S, R23E, S.L.B.&M.**

**UINTAH COUNTY, UTAH**

**LEASE NUMBER: ML-47063**

**SURFACE OWNERSHIP: STATE**

1. Existing Roads:

To reach The Houston Exploration Co well Rock House #3-32-10-23 in Section 32, T10S, R 23E, 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, then northerly direction approximately 5.4 miles to the junction of this road and an existing road to the north; proceed in a northerly, then northwesterly,

then northeasterly direction approximately 3.1 miles to the beginning of the proposed access to the northwest; follow road flags in a northwesterly, then southerly direction approximately 0.15 miles to the proposed location.

Total distance from Vernal, Utah to the proposed well location is approximately 77.25 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 792' +/- of new construction on lease. The road will be graded once per year minimum and maintained.

- A) Approximate length 792 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**
  - Rock House #2D-32
  - Rock House #6D-32
  - Rock House #10D-32
  - Rock House #12D-32
- B) **Water well** None
- C) **Abandoned well** None
- D) **Temp. abandoned well** None
- E) **Disposal well** None
- F) **Drilling /Permitted well**
  - Rock House #4-32
  - Rock House #5-32
  - Rock House #7-32
  - Rock House #9-32
  - Rock House #13-32
- 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 842' +/- of 3" gathering line would be constructed on Federal Lands. The line would tie into the existing pipeline in Sec. 32, T10S, R23E. The line will be strung and boomed to the north 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 220 ft.
- C) Pit depth 12 ft.
- D) Pit length 175 ft.
- E) Pit width 60 ft.
- F) Max cut 36.1 ft.
- G) Max fill 29.0 ft
- H) Total cut yds. 40,210 cu yds.
- I) Pit location south side
- J) Top soil location southeast end
- K) Access road location northwest end
- L) Flare Pit corner B

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 2,960 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>

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 White River located 2 miles to the North.**

E) Chemicals:

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

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 B** 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.

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.

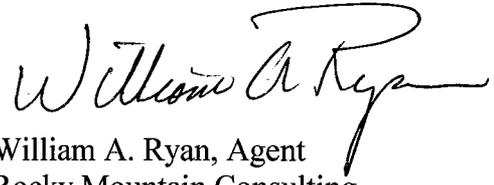
This drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

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.

Date \_\_\_\_\_



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 #3-32

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 32, T10S, R23E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

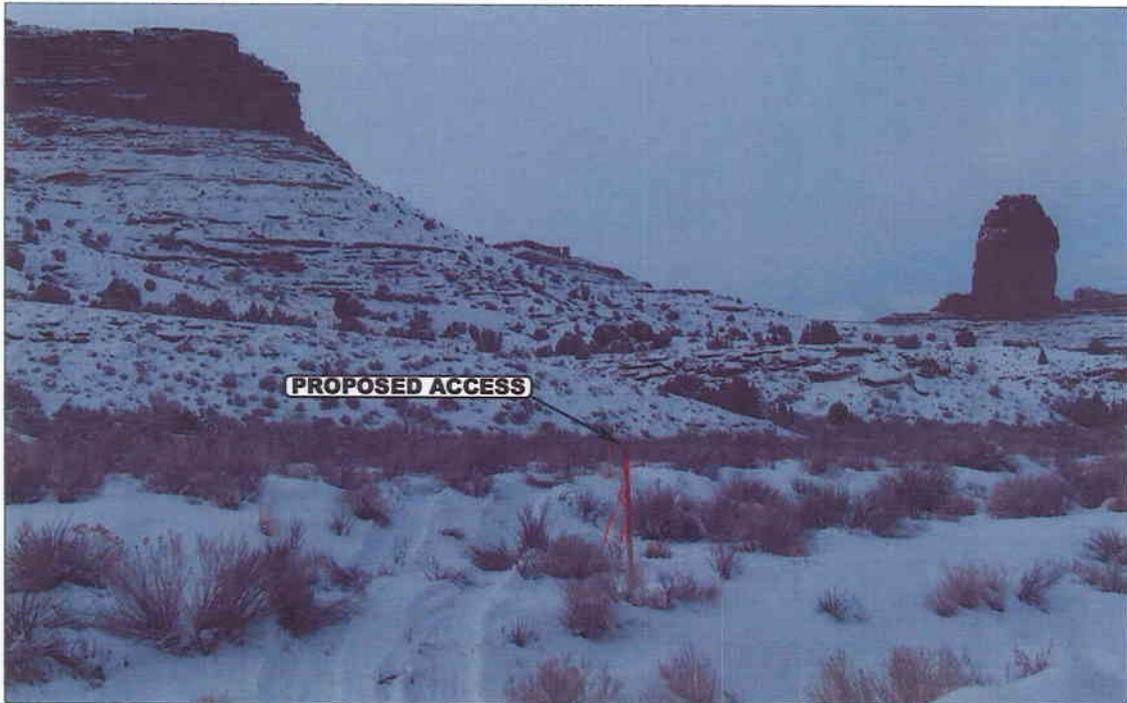


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

**U  
E  
L  
S** Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

01 06 05  
MONTH DAY YEAR

PHOTO

TAKEN BY: B.B

DRAWN BY: C.H

REVISED: 00-00-00

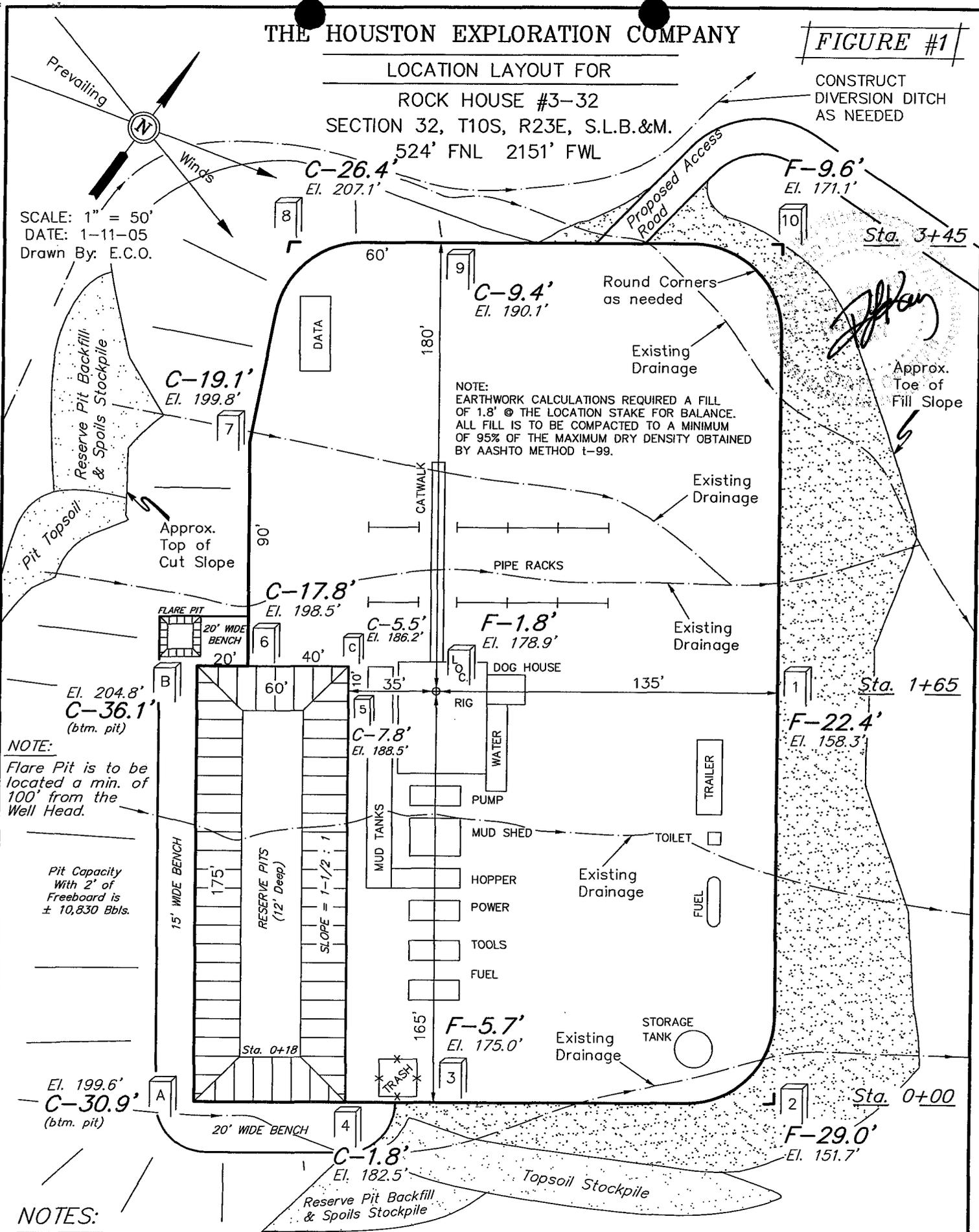
# THE HOUSTON EXPLORATION COMPANY

FIGURE #1

LOCATION LAYOUT FOR  
 ROCK HOUSE #3-32  
 SECTION 32, T10S, R23E, S.L.B.&M.  
 524' FNL 2151' FWL

CONSTRUCT  
 DIVERSION DITCH  
 AS NEEDED

SCALE: 1" = 50'  
 DATE: 1-11-05  
 Drawn By: E.C.O.



NOTE:  
 EARTHWORK CALCULATIONS REQUIRED A FILL  
 OF 1.8' @ 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.

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

Pit Capacity  
 With 2' of  
 Freeboard is  
 ± 10,830 Bbls.

**NOTES:**

Elev. Ungraded Ground At Loc. Stake = 5178.9'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5180.7'

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

# THE HOUSTON EXPLORATION COMPANY

## TYPICAL CROSS SECTIONS FOR

ROCK HOUSE #3-32

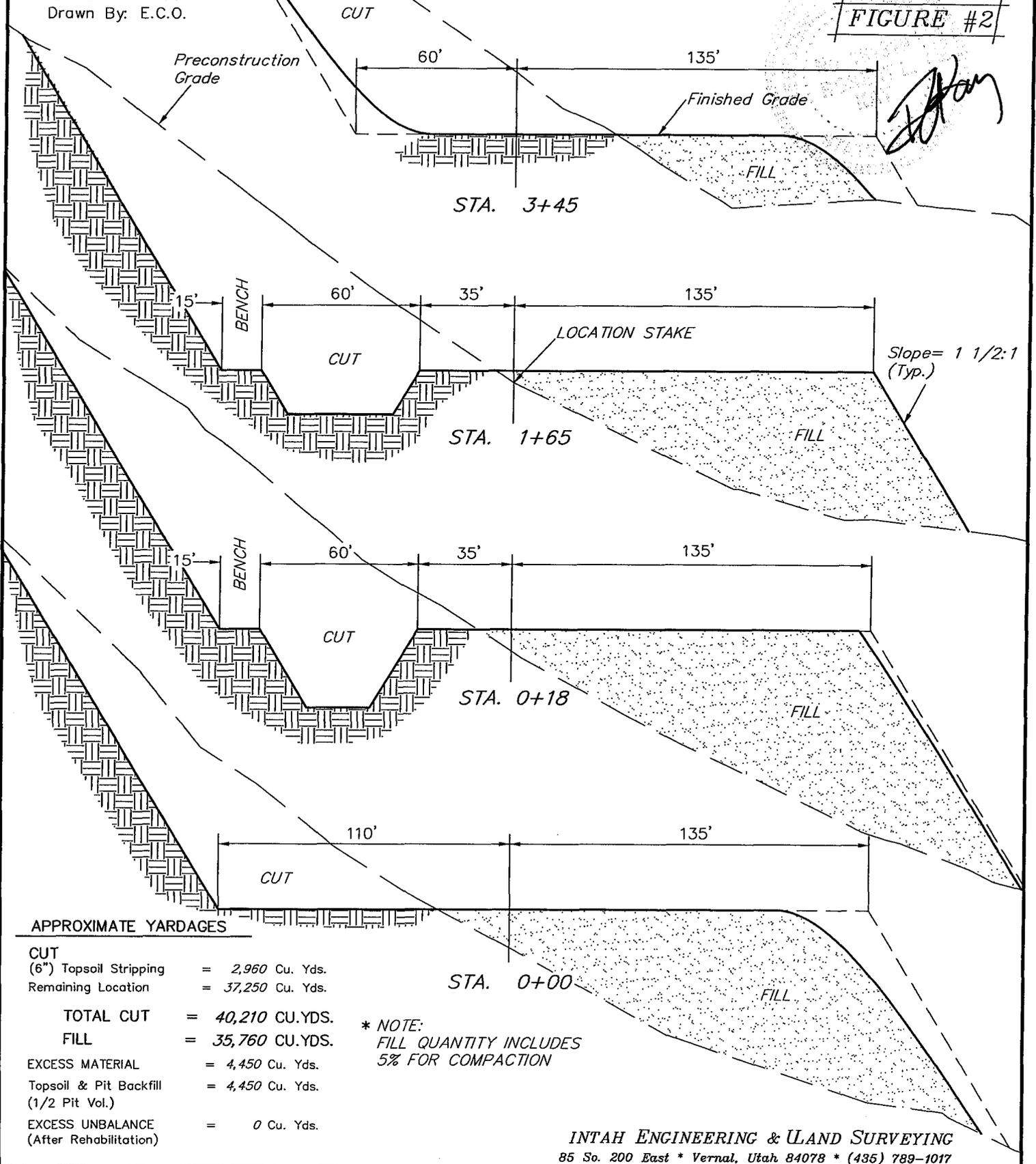
SECTION 32, T10S, R23E, S.L.B.&M.

524' FNL 2151' FWL

**FIGURE #2**

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

DATE: 1-11-05  
Drawn By: E.C.O.



### APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 2,960 Cu. Yds.
Remaining Location	= 37,250 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 40,210 CU.YDS.</b>
<b>FILL</b>	<b>= 35,760 CU.YDS.</b>
EXCESS MATERIAL	= 4,450 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,450 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

R  
22  
E

R  
23  
E

**PROPOSED LOCATION:  
ROCK HOUSE #3-32**

SEE TOPO "B"

T10S  
T11S

3.1 MI. +/-

5.4 MI. +/-

0.5 MI. +/-

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

7.8 MI. +/-

**LEGEND:**

⊙ PROPOSED LOCATION

**THE HOUSTON EXPLORATION COMPANY**

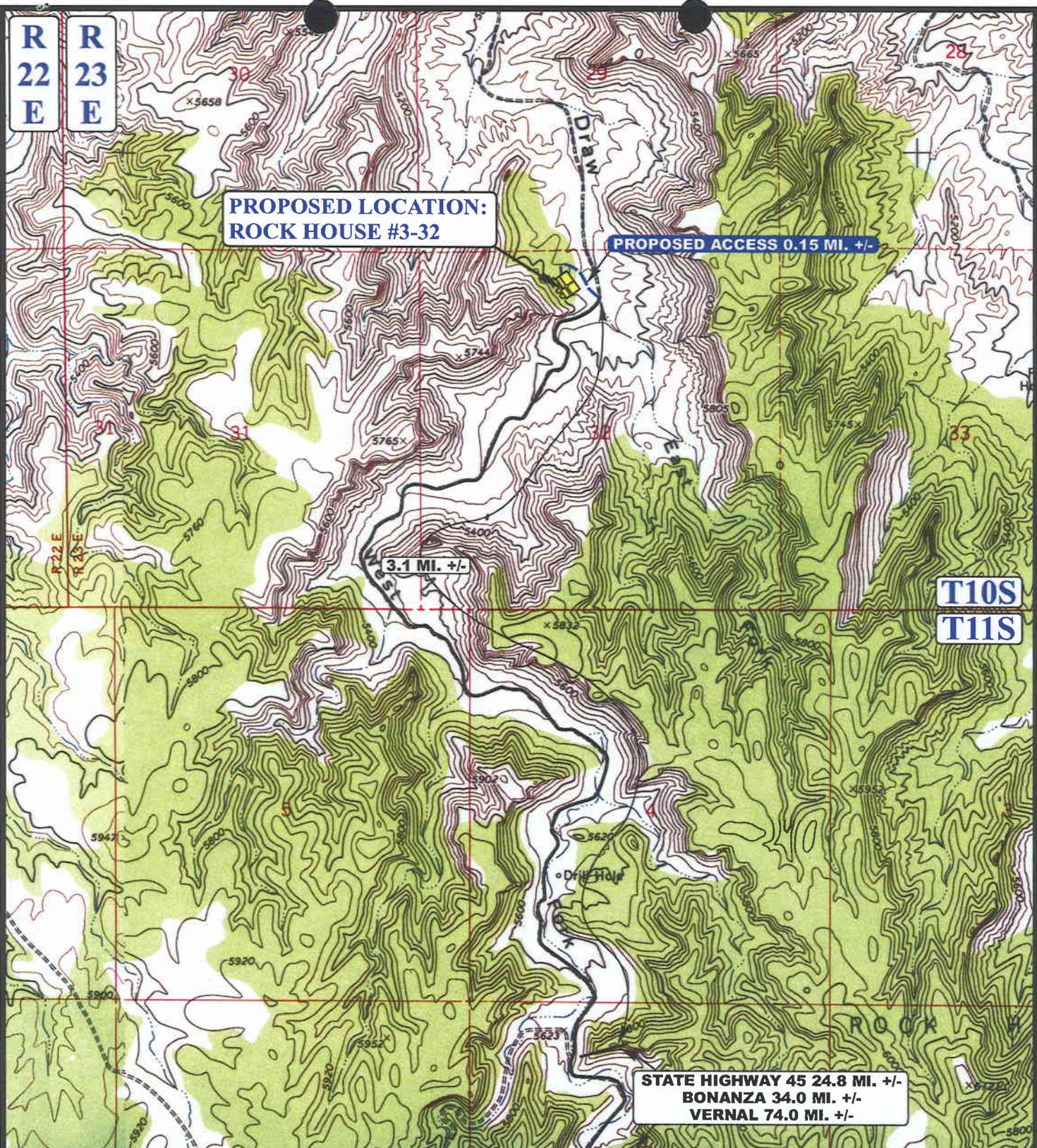
**ROCK HOUSE #3-32  
SECTION 32, T10S, R23E, S.L.B.&M.  
524' FNL 2151' FWL**



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

**TOPOGRAPHIC** 01 06 05  
**MAP** MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: C.H. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD



**THE HOUSTON EXPLORATION COMPANY**

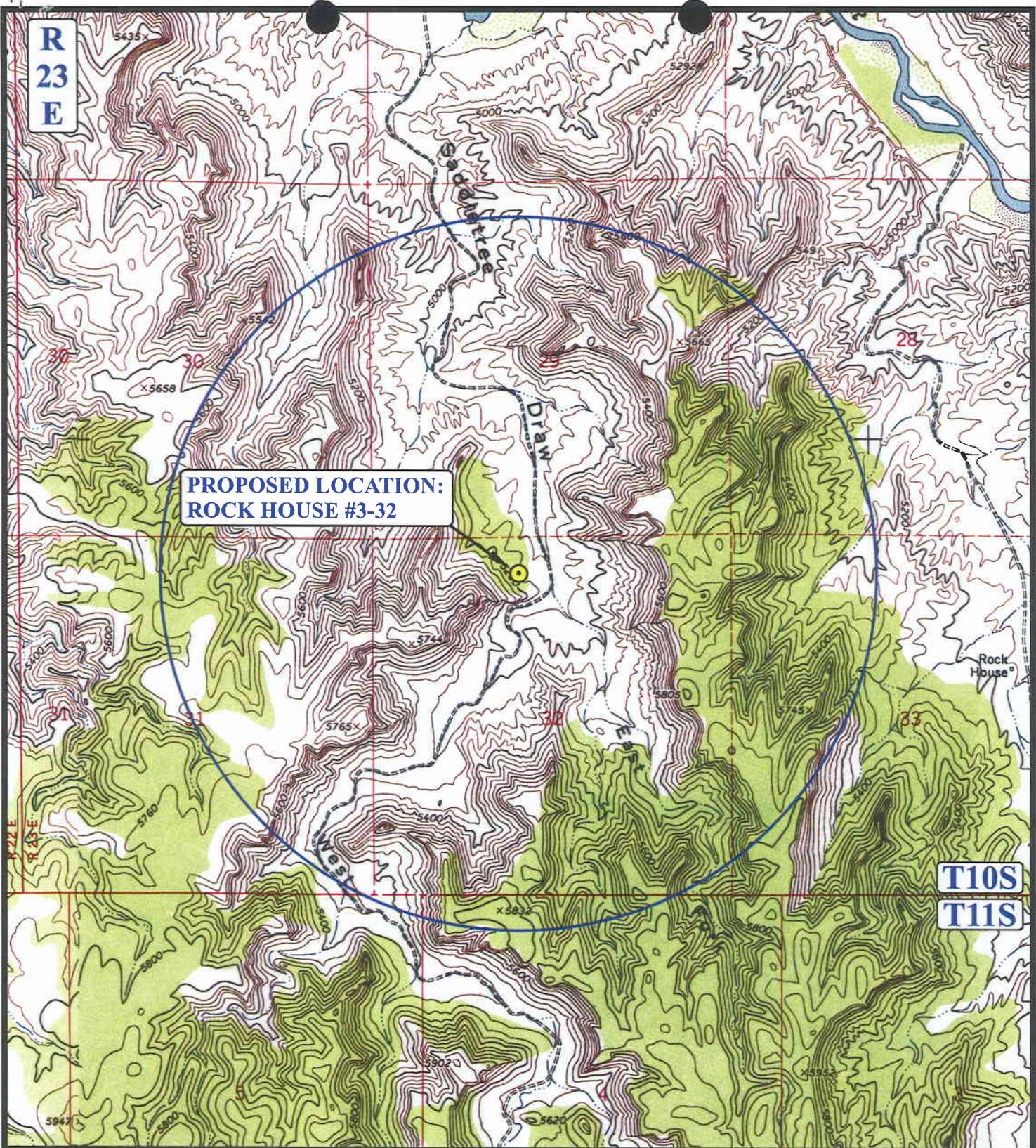
**ROCK HOUSE #3-32**  
**SECTION 32, T10S, R23E, S.L.B.&M.**  
**524' FNL 2151' FWL**



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

**TOPOGRAPHIC** 01 06 05  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00





**PROPOSED LOCATION:  
ROCK HOUSE #3-32**

**T10S  
T11S**

**LEGEND:**

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



**THE HOUSTON EXPLORATION COMPANY**

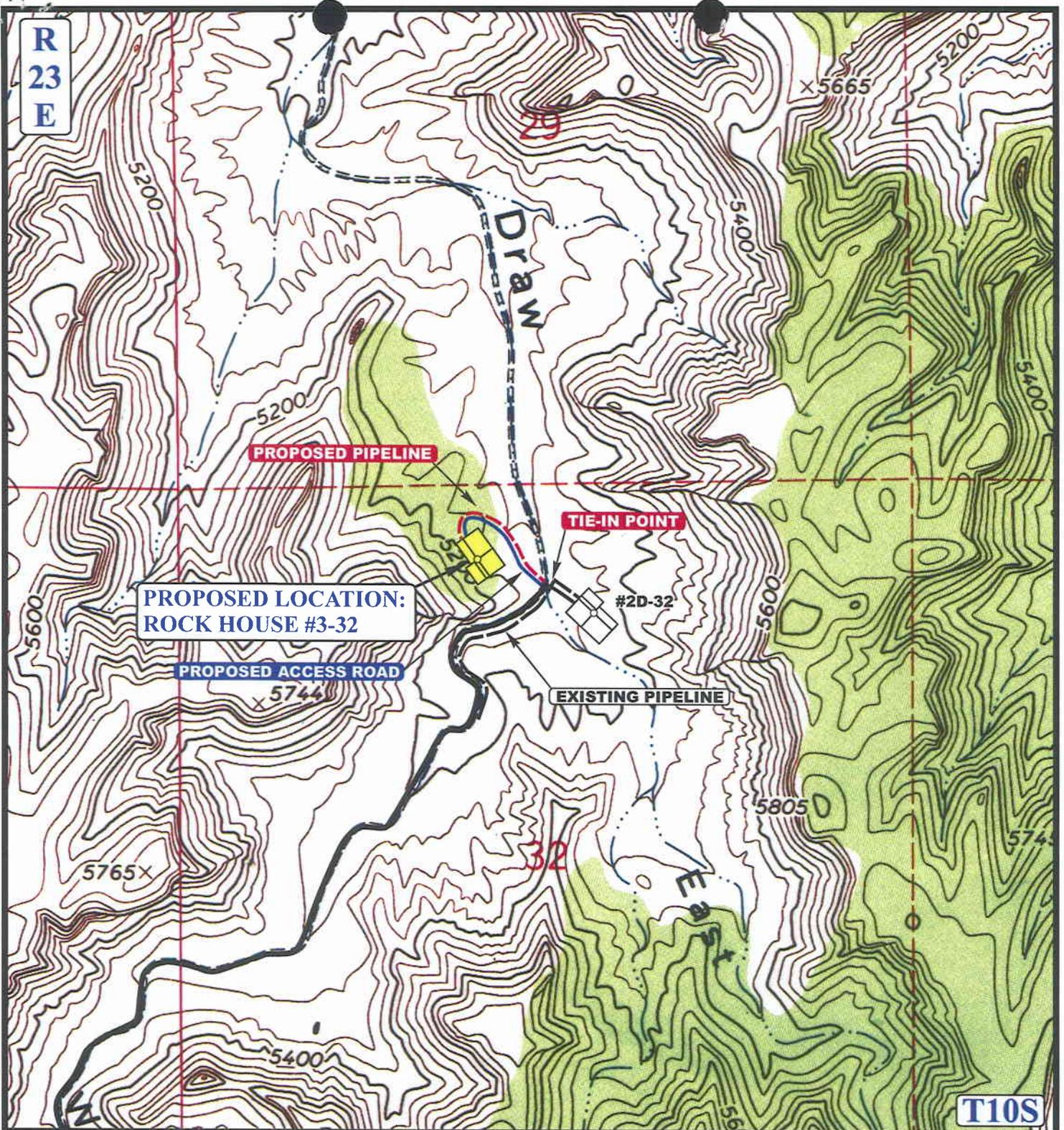
**ROCK HOUSE #3-32  
SECTION 32, T10S, R23E, S.L.B.&M.  
524' FNL 2151' FWL**



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

**TOPOGRAPHIC MAP** 01 06 05  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: C.H. REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 842' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE



**THE HOUSTON EXPLORATION COMPANY**

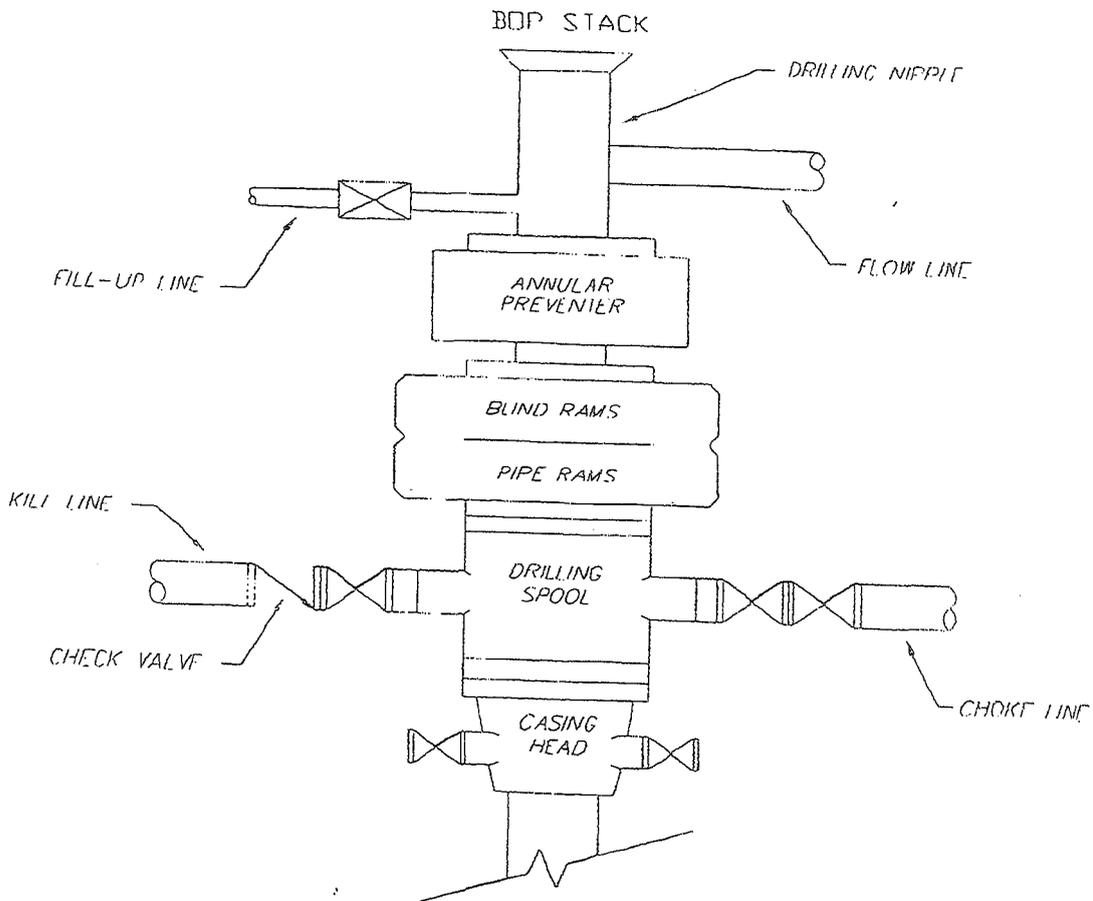
**ROCK HOUSE #3-32**  
**SECTION 32, T10S, R23E, S.L.B.&M.**  
**524' FNL 2151' FWL**

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

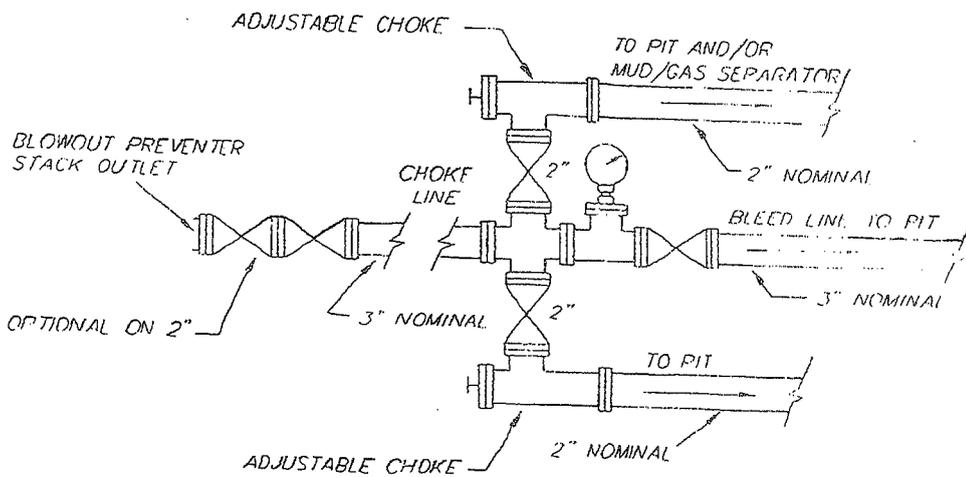
**TOPOGRAPHIC** 01 06 05  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.H. REVISED: 00-00-00 **D TOPO**

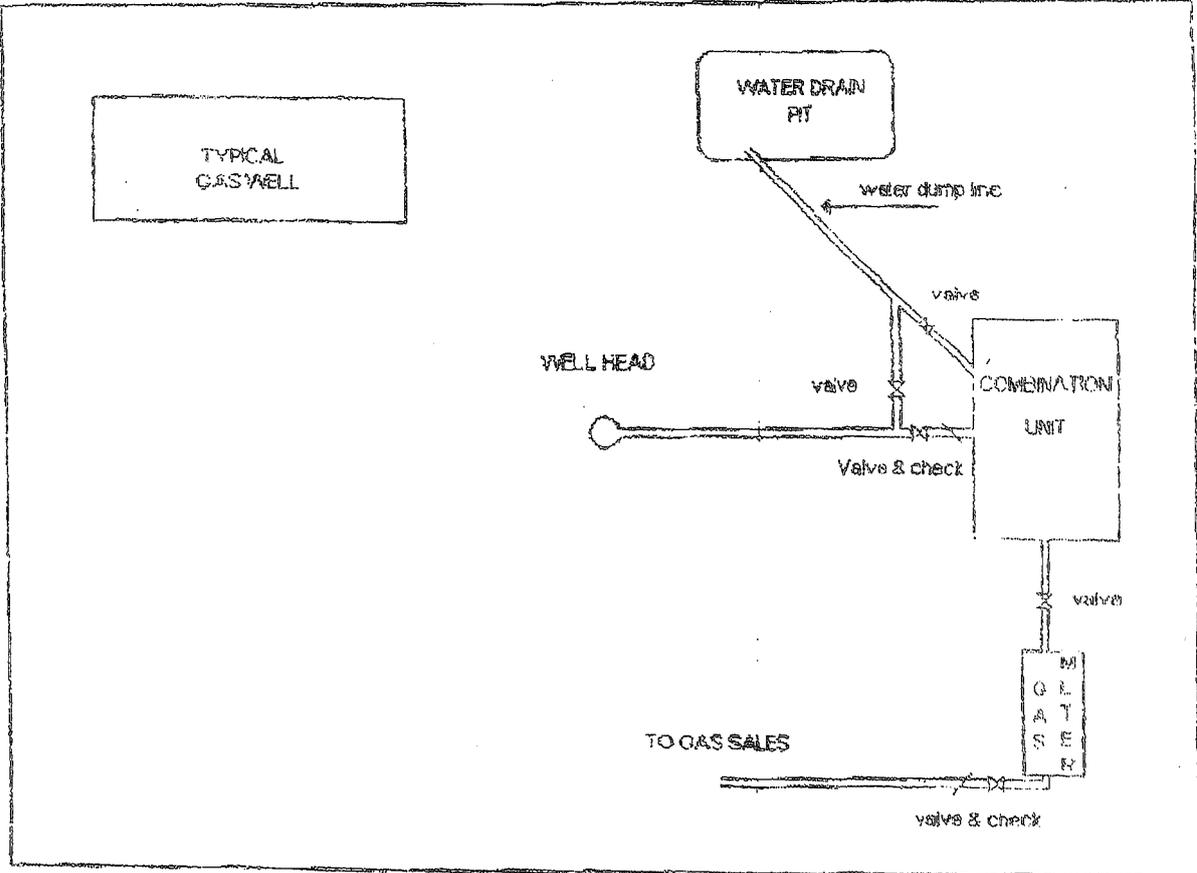
# THE HOUSTON EXPLORATION COMPANY

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



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





WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/16/2005

API NO. ASSIGNED: 43-047-36307

WELL NAME: ROCKHOUSE 3-32-10-23  
OPERATOR: HOUSTON EXPLORATION CO, ( N2525 )  
CONTACT: BILL RYAN

PHONE NUMBER: 435-789-0968

PROPOSED LOCATION:

NEW 32 100S 230E  
SURFACE: 0524 FNL 2151 FWL  
BOTTOM: 0524 FNL 2151 FWL  
UINTAH  
NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	3/15/05
Geology		
Surface		

LEASE TYPE: 3 - State  
LEASE NUMBER: ML-47063  
SURFACE OWNER: 3 - State  
PROPOSED FORMATION: CSLGT  
COALBED METHANE WELL? NO

LATITUDE: 39.91119  
LONGITUDE: -109.3517

RECEIVED AND/OR REVIEWED:

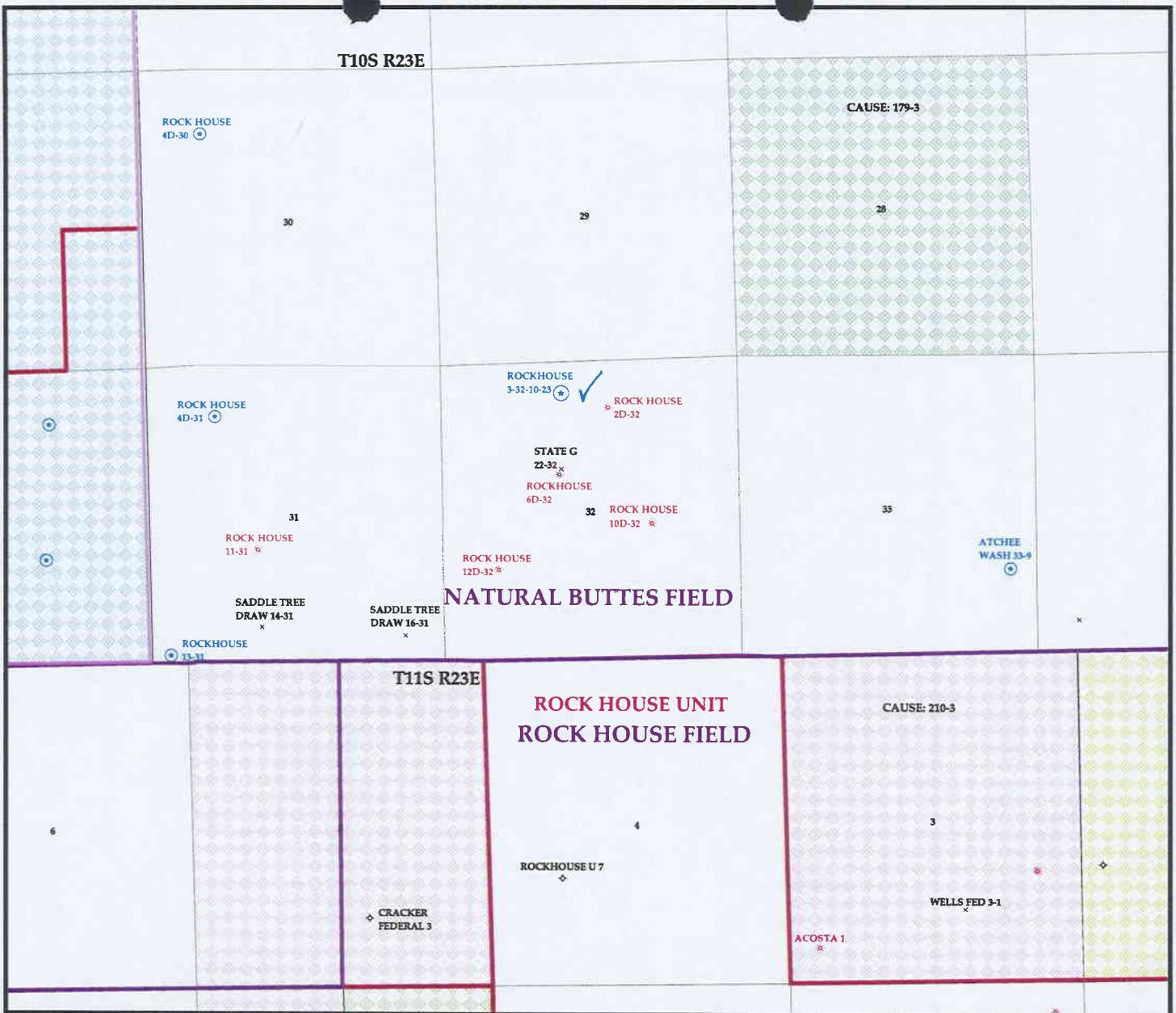
- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 104155044 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. T-75514 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

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 (03-01-05)

STIPULATIONS: 1-Spacing Strip  
2-STATEMENT OF BASIS



OPERATOR- THE HOUSTON EXPL CO (N2525)

SEC. 32 T.10S R.23E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING



PREPARED BY: DIANA WHITNEY  
DATE: 17-FEBRUARY-2005

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		

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

OPERATOR: THE HOUSTON EXPLORATION COMPANY

WELL NAME & NUMBER: ROCKHOUSE 3-32

API NUMBER: 43-047-36307

LEASE: ML-47063 FIELD/UNIT: NATURAL BUTTES

LOCATION: 1/4,1/4 NE/NW sec: 32 TWP: 10S RNG: 23E 2151' FWL 524' FNL

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

GPS COORD (UTM): 640873E 4418991N SURFACE OWNER: STATE OF UTAH

**PARTICIPANTS**

DAVID W. HACKFORD (DOGM), GINGER STRINGHAM (HOUSTON), ONE DIRT CONTRACTOR, FLOYD BARTLETT (DWR).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

SITE IS IN SADDLETREE DRAW, 300' WEST OF THE DRY WATERCOURSE WHICH IS IN THE BOTTOM OF THIS DRAW AND DRAINS TO THE NORTH TO THE WHITE RIVER 1.5 MILES AWAY. THE CANYON WALLS OF THIS DRAW ARE ROUGH AND STEEP WITH NUMEROUS SPIRES, CLIFFS AND SHEER ROCK FACES. THE BOTTOM OF THIS DRAW IS FAIRLY FLAT AND LEVEL, DRAINING SLIGHTLY TO THE CENTER WHERE THE DRY WATERCOURSE RUNS. VERNAL, UTAH IS 77.25 MILES TO THE NORTH.

**SURFACE USE PLAN**

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING, HUNTING.

PROPOSED SURFACE DISTURBANCE: LOCATION WILL BE 345' BY 260'. ACCESS ROAD WILL BE 0.15 MILES.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: SEE ATTACHED MAP FROM GIS DATABASE.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: ALL PRODUCTION FACILITIES WILL BE ON LOCATION AND ADDED AFTER DRILLING WELL. PIPELINE WILL FOLLOW ACCESS ROAD.

SOURCE OF CONSTRUCTION MATERIAL: ALL CONSTRUCTION MATERIAL WILL BE BORROWED FROM SITE DURING CONSTRUCTION OF LOCATION.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS?  
EXPLAIN: UNLIKELY.

**WASTE MANAGEMENT PLAN:**

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. LIQUIDS FROM PIT WILL

BE ALLOWED TO EVAPORATE. FORMATION WATER WILL BE CONFINED TO STORAGE TANKS. SEWAGE FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY COMMERCIAL CONTRACTOR. TRASH WILL BE CONTAINED IN TRASH BASKETS AND HAULED TO AN APPROVED LAND FILL.

**ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: SAGE, RABBITBRUSH, GREASEWOOD, PRICKLY PEAR, SHADSCALE, JUNIPER, SERVICEBERRY: PRONGHORN, RODENTS, SONGBIRDS, RAPTORS, COYOTE, RABBITS, DEER.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SANDY CLAY.

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE NATURAL EROSION. SEDIMENTATION AND STABILITY ARE NOT A PROBLEM AND LOCATION CONSTRUCTION SHOULDN'T CAUSE AN INCREASE IN STABILITY OR EROSION PROBLEMS.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED

**RESERVE PIT**

CHARACTERISTICS: 175' BY 60' AND 12' DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A 12 MIL LINER AND FELT SUB-LINER WILL BE REQUIRED FOR RESERVE PIT.

**SURFACE RESTORATION/RECLAMATION PLAN**

AS PER SITLA.

SURFACE AGREEMENT: AS PER SITLA.

CULTURAL RESOURCES/ARCHAEOLOGY: SITE WILL BE INSPECTED BY SAGEBRUSH ARCHEOLOGICAL CONSULTANTS. A REPORT OF THIS INVESTIGATION WILL BE PLACED ON FILE.

**OTHER OBSERVATIONS/COMMENTS**

THIS PREDRILL INVESTIGATION WAS CONDUCTED ON A COOL, SUNNY DAY WITH PARTIAL SNOW COVER.

**ATTACHMENTS**

PHOTOS OF SITE WILL BE TAKEN AND PLACED ON FILE.

DAVID W. HACKFORD  
DOGM REPRESENTATIVE

3/01/2005 11:45 AM  
DATE/TIME

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

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<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>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>20</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**      25      (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.

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

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





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

**OPERATOR:** THE HOUSTON EXPLORATION COMPANY  
**WELL NAME & NUMBER:** ROCKHOUSE 3-32  
**API NUMBER:** 43-047-36307  
**LOCATION:** 1/4,1/4 NE/NW Sec: 32 TWP: 10S RNG: 23E 2151' FWL 524' FNL

**Geology/Ground Water:**

Houston proposes to set 2,000' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,200'. 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 site is the Green River Formation. The Green River Formation is made up of interbedded limestones, shales and sandstones. The proposed casing and cementing program should adequately protect any underground sources of useable water.

**Reviewer:** Brad Hill **Date:** 03-09-04

**Surface:**

The predrill investigation of the surface was performed on 03/01/05. Floyd Bartlett with DWR and Ed Bonner with SITLA were invited to this investigation on 02/18/05. Mr. Bartlett was present. He had no concerns regarding the construction of this location or the drilling of this well. This site is on State surface, with State minerals, and appears to be the best site for a location in the immediate area. Mr. Bartlett presented Ms. Stringham a DWR prescribed seed mix to be used when reserve pit is reclaimed.. Existing shallow drainages crossing site will be re-routed around the north end of the location where a diversion ditch will be constructed.

**Reviewer:** David W. Hackford **Date:** 03/04/2005

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

1. A synthetic liner with a minimum thickness of 12 mils and a felt subliner shall be properly installed and maintained in the reserve pit.

Well name:	<b>03-05 Houston Rockhouse 3-32-10-23</b>	
Operator:	<b>The Houston Exploration Company</b>	
String type:	Surface	Project ID: 43-047-36307
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: 7,534 ft  
Next mud weight: 9,000 ppg  
Next setting BHP: 3,522 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: March 10, 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.

Well name:	<b>03-05 Houston Rockhouse 3-32-10-23</b>	
Operator:	<b>The Houston Exploration Company</b>	
String type:	Production	Project ID: 43-047-36307
Location:	Uintah County	

**Design parameters:**

**Collapse**  
Mud weight: 9.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 170 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

**Burst**

Max anticipated surface pressure: 2,618 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 3,522 psi  
  
No backup mud specified.

**Burst:**  
Design factor 1.00

Cement top: 3,723 ft

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

Non-directional string.

Tension is based on buoyed weight.  
Neutral point: 6,520 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7534	4.5	11.60	N-80	LT&C	7534	7534	3.875	174.6

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	3522	6350	1.803	3522	7780	2.21	76	223	2.95 J

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

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

Date: March 10, 2005  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 7534 ft, a mud weight of 9 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.

Casing Schematic

Green River

Surface

8-5/8"  
MW 8.4  
Frac 19.3

TOC @  
0.

TOC Tail  
1230

w/18% Washout

Surface  
2000. MD

BHP  
 $(.052)(9)(7534) = 3525$   
Anticipate - 3,000

Strip  
TOC ± 3200 To  
protect Washout

3246 Washout

Gas  
 $(.12)(7534) = 904$   
Masp (2621)

TOC @  
3723.

4208 Bmsal

BOP - 3,000 ✓

w/15% Washout  
TOC 3128' w/ 9% Washout

Surf esj - 4460  
70% = 3122

5186 Mexaverde

5682 TOC Tail

Mat pressure @ shoe = 2306

Test to 2300 # ✓

✓ Adequate DWD 3/15/05

4-1/2"  
MW 9.

Production  
7534. MD

**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**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

MARY ANN WRIGHT  
*Acting Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

April 21, 2005

The Houston Exploration Company  
1100 Louisiana, Suite 2000  
Houston, Texas 77002

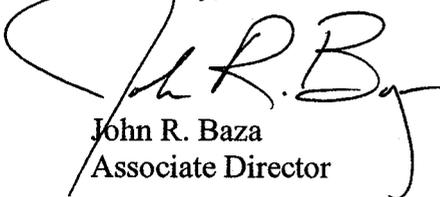
Re: Rock House 3-32-10-23 Well, 524' FNL, 2151' FWL, NE NW, Sec. 32,  
T. 10 South, R. 23 East, Uintah County, Utah

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 43-047-36307.

Sincerely,



John R. Baza  
Associate Director

jc  
Enclosures

cc: Uintah County Assessor  
SITLA

**Operator:** The Houston Exploration Company  
**Well Name & Number** Rock House 3-32-10-23  
**API Number:** 43-047-36307  
**Lease:** ML-47063

**Location:** NE NW      **Sec.** 32      **T.** 10 South      **R.** 23 East

### Conditions of Approval

1. **General**

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

2. **Notification Requirements**

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

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

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

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

3. **Reporting Requirements**

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

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

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

Page 2

API # 43-047-36307

April 21, 2005

6. 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.

CONFIDENTIAL

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: THE HOUSTON EXPL & PROD COMPANY

Well Name: ROCKHOUSE 3-32-10-23

Api No: 43-047-36307 Lease Type: STATE

Section 32 Township 10S Range 23E County UINTAH

Drilling Contractor PETE MARTIN'S RIG # BUCKET

**SPUDDED:**

Date 06/14/05

Time MIDNITE

How DRY

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

Reported by KENNETH NIELSON

Telephone # 1-435-828-2187

Date 06/14/2005 Signed CHD

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

FORM 6

ENTITY ACTION FORM

Operator: The Houston Exploration Company Operator Account Number: N 2525  
Address: 1100 Louisiana, Suite 2000  
city Houston  
state TX zip 77002 Phone Number: (713) 830-6800

Well 1

API Number	Well Name	OP	Sec	Twp	Rng	County
43-047-36307	Rock House 3-32-10-23	NENW	32	10S	23E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
A	99999	14781	6/14/05		6/29/05	
Comments: <u>CSLGT-MURD</u>						CONFIDENTIAL

Well 2

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

Well 3

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

ACTION CODES:

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

Theresa Overturf  
Name (Please Print)  
Theresa Overturf  
Signature  
Engineering Technician 6/23/05  
Date  
Title

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JUN 23 2005

DIVISION OF OIL,  
GAS + MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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 <u>CONFIDENTIAL</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: 47063
2. NAME OF OPERATOR: The Houston Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1100 Louisiana CITY Houston STATE TX ZIP 77002		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: 713-830-6800		8. WELL NAME and NUMBER: Rock House 3-32
		9. API NUMBER: 43-047-36307
		10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 524 FNL 2,151 FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: S32 T10S R23E

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

Drilled to TD of 7,503' on 7/1/03

Completed, perf'd & frac'd Perf Intervals 6,520' - 7,236'

Producing Went to Sales on 7/22/05

NAME (PLEASE PRINT) Debbie Snow TITLE Engineering Technician

SIGNATURE *Debbie Snow* DATE 8/4/05

(This space for State use only)

**RECEIVED**  
**AUG 08 2005**  
DIV. OF OIL, GAS & MINING

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

AMENDED REPORT  FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**ML47063**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
**Rock House 3-32-10-23**

9. API NUMBER:  
**4304736307**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**NENW 32 10S 23E**

12. COUNTY  
**Uintah**

13. STATE  
**UTAH**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

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

**CONFIDENTIAL**

2. NAME OF OPERATOR:  
**The Houston Exploration Company**

3. ADDRESS OF OPERATOR: **1100 Louisiana, Ste 2000 CITY Houston STATE TX ZIP 77002** PHONE NUMBER: **(713) 830-6938**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **524' FNL & 2151' FWL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
AT TOTAL DEPTH:

14. DATE SPUDDED: **6/14/2005** 15. DATE T.D. REACHED: **6/30/2005** 16. DATE COMPLETED: **7/18/2005** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5180.7' GL**

18. TOTAL DEPTH: MD **7,503** TVD **7,503** 19. PLUG BACK T.D.: MD **7,419** TVD **7,419** 20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD **7,503** TVD **7,503** PLUG SET: MD **7,503** TVD **7,503**

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**Platform Express / PE / DIT / COMBO / GR**

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

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

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
17 1/2"	13 3/8 H40	48	0	52				surface	
11"	8 5/8 J55	24#	0	2,047				surface	
7 7/8"	4 1/2 L80	11.6#	0	7,465		Prem 303		1800	
						50/50 765			

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7,921							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Mesaverde	5,061	7,347		
(B) Mesaverde	5,061	7,347		
(C) Mesaverde	5,061	7,347		
(D)				

**27. PERFORATION RECORD**

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
6,520 6,643		39	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
6,718 6,884		36	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
7,001 7,236		39	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6520'-6643'	171,000# 20/40 sd
6714'-6884'	62,939# 20/40 sd
7001'-7236'	151,200# 20/40 sd

**29. ENCLOSED ATTACHMENTS:**

- ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

**30. WELL STATUS:**

**Flowing**

**RECEIVED**

**AUG 24 2005**

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 7/19/2005		TEST DATE: 7/20/2005		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 0	GAS - MCF: 700	WATER - BBL: 30	PROD. METHOD: Flow
CHOKE SIZE: 20/64	TBG. PRESS.	CSG. PRESS. 1,900	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 700	WATER - BBL: 30	INTERVAL STATUS: PGW	

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:

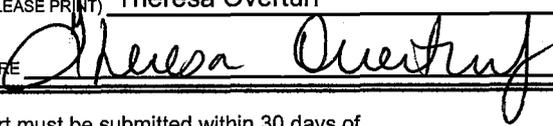
Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Uteland Buttes	3,204
				Wasatch	3,283
				Mesaverde	5,061
				Sego	7,348
				Buck Tongue	7,461

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) Theresa Overturf

TITLE Engineering Technician

SIGNATURE 

DATE 8/17/2005

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

			5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47063</b>
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
			7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			8. WELL NAME and NUMBER: <b>Rock House 3-32-10-23</b>
2. NAME OF OPERATOR: <b>The Houston Exploration Company</b>			9. API NUMBER: <b>4304736307</b>
3. ADDRESS OF OPERATOR: 1100 Louisiana, Suite 2000 CITY Houston		STATE TX ZIP 77002	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>524' FNL &amp; 2151' FWL</b>			COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NENW 32 10S 23E</b>			STATE: <b>UTAH</b>

CONFIDENTIAL

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input checked="" 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.

Operator proposes to dewater the reserve pit on the subject well. Application for Permit to Drill approved trucking and disposal of the produced fluids. Operator proposes to evaporate, instead of trucking, water in the reserve pit to facilitate closing and reclamation of the reserve pit. Operator proposes to use a pumping system for evaporation.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 08-31-05  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 9-1-05  
Initials: CHD

NAME (PLEASE PRINT) <u>William A Ryan</u>	TITLE <u>Agent</u>
SIGNATURE <u>William A Ryan</u>	DATE <u>8/23/2005</u>

(This space for State use only)

**RECEIVED**

**AUG 29 2005**

DIV. OF OIL, GAS & MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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:

47063

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

Rock House 3-32

9. API NUMBER:

43-047-36307

10. FIELD AND POOL, OR WILDCAT:

Wildcat

1. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

~~CONFIDENTIAL~~

2. NAME OF OPERATOR:

The Houston Exploration Company

3. ADDRESS OF OPERATOR:

1100 Louisiana CITY Houston

STATE TX ZIP 77002

PHONE NUMBER:

713-830-6800

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 524 FNL 2,151 FWL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: S32 T10S R23E

STATE:

UTAH

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

TYPE OF SUBMISSION

TYPE OF ACTION

NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

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:

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

Drilled to TD of 7,503' on 7/1/03

Completed, & perf'd & frac'd Perf Intervals 6,520' - 7,236'

Producing Went to Sales on 7/22/05

NAME (PLEASE PRINT)

Debbie Snow

TITLE

Engineering Technician

SIGNATURE

*Debbie Snow*

DATE

8/4/05

(This space for State use only)

RECEIVED

SEP 19 2005

475 17<sup>th</sup> Street, Suite 1500  
Denver, CO 80202  
Office (303) 573-1222  
Fax: (303) 573-0461

**Enduring Resources, LLC**

# Fax

**To:** Diana Whitney **From:** Al Arlian 303-350-5114  
**Fax:** 801-359-3940 **Pages:** 2 including this Page  
**Phone:** **Date:** 10/27/2005 10:17 AM  
**Re:** Correction of Sundry Notices **e-mail:** arlian@enduringresources.com

Urgent  For Review  Please Comment  Please Reply  Please Recycle

● **Comments**

Two hard copies are being sent overnight.

Please advise me if you have questions.

Thank you for your assistance.

Al Arlian

RECEIVED  
OCT 27 2005  
DIV. OF OIL, GAS & MINING

4/304736307

**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

October 27, 2005

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

**VIA FAX & OVERNIGHT DELIVERY**

**RE: Directional Drilling  
Rock House #9-32-10-23 Well  
Surface Location: 2,098' FSL – 1,042' FEL  
Bottom Hole Location: 1,750' FSL – 660' FEL  
NESE Sec. 32, T10S-R23E, SLB&M  
Uintah County, Utah**

Dear Ms. Whitney:

I am an employee of Enduring Resources, LLC but have been authorized to act as an Agent on behalf of The Houston Exploration Company pending the transfer of a few last wells.

The Houston Exploration Company and Enduring Resources, LLC (hereinafter collectively "lease owners") are the only two lease owners within 460 feet from all points along the intended well bore of the following well.

Rock House #9-32-10-23 Well  
Surface Location: 2,098' FSL – 1,042' FEL  
Bottom Hole Location: 1,750' FSL – 660' FEL  
NESE Sec. 32, T10S-R23E, SLB&M

Therefore, the lease owners grant themselves approval and respectfully request DOG&M approval to directionally drill this well.

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,

Very truly yours,

**ENDURING RESOURCES, LLC**

**THE HOUSTON EXPLORATION COMPANY**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

Alvin R. (Al) Arlian  
Agent

RECEIVED  
OCT 27 2005  
DIV. OF OIL, GAS & MINING

Well name:	03-05 Houston Rockhouse <sup>9</sup> 3-32-10-23	
Operator:	The Houston Exploration Company	
String type:	Surface	Project ID: 43-047- <del>36307</del> 36337
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

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 93 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 250 ft

**Burst**

Max anticipated surface pressure: 633 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 873 psi

**Burst:**  
Design factor 1.00

Cement top: Surface

No backup mud specified.

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

Non-directional string.

Tension is based on buoyed weight.  
Neutral point: 1,749 ft

**Re subsequent strings:**  
Next setting depth: 0 ft  
Next mud weight: 9.000 ppg  
Next setting BHP: 0 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	3.953	873	4460	5.11	63	434	6.89 J

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

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

Date: November 1, 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.

Well name:	03-05 Houston Rockhouse <sup>9</sup> 3-32-10-23	
Operator:	The Houston Exploration Company	
String type:	Production	Project ID: 43-047- <del>36307</del> 36337
Location:	Uintah County	

<b>Design parameters:</b>	<b>Minimum design factors:</b>	<b>Environment:</b>
<b>Collapse</b>	<b>Collapse:</b>	H2S considered? No
Mud weight: 9.000 ppg	Design factor 1.125	Surface temperature: 65 °F
Design is based on evacuated pipe.		Bottom hole temperature: 170 °F
		Temperature gradient: 1.40 °F/100ft
		Minimum section length: 1,500 ft
	<b>Burst:</b>	Cement top: 3,698 ft
	Design factor 1.00	
<b>Burst</b>		<b>Directional well information:</b>
Max anticipated surface pressure: 2,596 psi	<b>Tension:</b>	Kick-off point 0 ft
Internal gradient: 0.120 psi/ft	8 Round STC: 1.80 (J)	Departure at shoe: 264 ft
Calculated BHP 3,493 psi	8 Round LTC: 1.80 (J)	Maximum dogleg: 5 °/100ft
No backup mud specified.	Buttress: 1.60 (J)	Inclination at shoe: 0 °
	Premium: 1.50 (J)	
	Body yield: 1.50 (B)	
	Tension is based on buoyed weight.	
	Neutral point: 6,504 ft	

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7509	4.5	11.60	N-80	LT&C	7470	7509	3.875	174.1

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3493	6350	1.818	3493	7780	2.23	75	223	2.97 J

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

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

Date: November 1, 2005  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 7470 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.  
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

05 Houston Rock House 9-3-10-23

Casing Schematic

Green River

Surface

8-5/8"  
MW 8.4  
Frac 19.3

TOC @  
0.

Surface  
2000. MD

BHP  
 $(.052)(110)(7604) = 3954$   
 Anticipate < 3000

Gas  
 $(.12)(7604) = 912$   
 Masp = 3042

fluid  
 $(.22)(7604) = 1672$   
Masp = 2282

BOP - 3,000 ✓

Surf Csg - 4460  
 70% = 3122  
 Op. Max Press @ Shoe < 1767 PSI  
 Mat Press @ Surf Shoe = 2722  
 Propose test to 1500 #  
 Test to 700 # ✓

4-1/2"  
MW 10.

Production  
7604. MD

1231 TOC Tail w/ 18% Washout

3356 Wasatch

Stip  
 TOC +/- 3300'  
 protect Wasatch

5256 Mesaverde

w/ 15% Washout

5752 TOC Tail

✓ Adequate DWD 4/15/05

03-05 Houston Rockhouse <sup>9</sup> 3-32-10-23  
 Casing Schematic

Green River

Surface

8-5/8"  
 MW 8.4  
 Frac 19.3

TOC @  
 0.

1230  
 TOC Tail

w/18% Washout

Surface  
 2000. MD  
 2000. TVD

BHP  
 $(.052)(10)(\frac{7509}{1}) = 3740$   
 Anticipate < 3,000

G60  
 $(.12)(7509) = 901$   
 MASP = 2839

BOPE - 3,000 ✓

Surf csq - 4460  
 70% = ~~3122~~  
 3122

Max pressure @ Surf shoe = 1788

Test to 1700 #  
 propose Test to 1500# ✓ ok.

✓ Adequate

4-1/2"  
 MW 9.

Production  
 7509. MD  
 7470. TVD

3299 Wasatch

TOC @  
 3698.

✓ STIP TOC ~~is~~ above  
 Top of Wasatch  
 (± 3000')

5185 Mesaverde

5657 TOC Tail

w/15% Washout  
 TOC 3103' w/ 9% Washout

**Division of Oil, Gas and Mining  
OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ
2. CDW

Change of Operator (Well Sold)

**X - Operator Merger**

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

**6/1/2007**

<b>FROM:</b> (Old Operator): N2525 - The Houston Exploration Company 1100 Louisiana, Suite 2000 Houston, TX 77002 Phone: 1-(713) 830-6800	<b>TO:</b> ( New Operator): N6965-Forest Oil Corporation 707 17th St, Suite 3600 Denver, CO 80202 Phone: 1 (303) 812-1755
-------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------

**CA No.**

**Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

**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: 7/30/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/30/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 7/31/2007
- 4a. Is the new operator registered in the State of Utah: Business Number: 571171-0143
- 4b. If **NO**, the operator was contacted on: \_\_\_\_\_
- 5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete on: \_\_\_\_\_
- 5c. Reports current for Production/Disposition & Sundries on: YES
- 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
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communitization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- 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:**

- Changes entered in the **Oil and Gas Database** on: 7/31/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/31/2007
- Bond information entered in RBDMS on: 7/31/2007
- Fee/State wells attached to bond in RBDMS on: 7/31/2007
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: pending

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: 6236351
- Indian well(s) covered by Bond Number: n/a
- 3a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 6218963
- 3b. The **FORMER** operator has requested a release of liability from their bond on: not yet

**LEASE INTEREST OWNER NOTIFICATION:**

- (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: 8/1/2007

**COMMENTS:**

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**See Attached List**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

**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  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
**See Attached List**

2. NAME OF OPERATOR:  
**Forest Oil Corporation** *N6965*

9. API NUMBER:  
**various**

3. ADDRESS OF OPERATOR:  
**707 17th Street, #3600** CITY **Denver,** STATE **CO** ZIP **80202**

PHONE NUMBER:  
**(303) 812-1755**

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **See attached list**

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

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: _____	<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>Change of Operator</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. *N2525*

Effective 6/1/2007 please change the operator for the attached list of Utah wells from The Houston Exploration Company N-2525 to Forest Oil Corporation (N-6965). Forest merged with The Houston Exploration Company, a copy of the merger document is attached.. The contract operated wells will continue to be contract operated by Enduring.

Forest Oil Corporation as new operator, accepts all applicable terms, conditions, stipulations and restrictions concerning approved operations conducted on the lease or portion of the lease described.

Forest Oil Corporation meets the State of Utah bonding requirements under Safeco bond #6218963.

Please send all future correspondence to Forest Oil Corporation at the above listed address.

Forest Oil Corporation, 707 17th Street, Suite #3600, Denver, CO 80202

*J.C. Ridens*  
J. C. Ridens, Senior Vice President - Western Region

*7-5-07*  
Date

NAME (PLEASE PRINT) Joanne C. Hresko TITLE Vice President & General Mgr. - Northern Division  
SIGNATURE *Joanne C. Hresko* DATE 7-5-07

(This space for State use only)

**APPROVED** *7131107*  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

*No wells in APD status or  
at New status  
at this time*

**RECEIVED**  
JUL 30 2007

(5/2000)

(See Instructions on Reverse Side)

DIV OF OIL, GAS & MINING *WMP*

well_name	sec	twp	rng	api	entity	lease	well	stat	flag	unit	qtr_qtr	l_num	op no
FEDERAL 28-01	28	080S	250E	4304730098	10095	Federal	GW	S			SESE	UTU-016257	N2525
CONOCO STATE 32-2	32	080S	250E	4304730100	10096	State	GW	S			NENE	ML-11124	N2525
ROCK HOUSE 11-31	31	100S	230E	4304733312	13984	Federal	GW	P			NESW	UTU-76281	N2525
BONANZA 4B-12	12	090S	230E	4304733806	14593	Federal	D	PA			NWNW	UTU-74426	N2525
WALKER HOLLOW 13-31	31	060S	230E	4304735039		Federal	GW	LA			SESW	UTU-76280	N2525
ROCK HOUSE 6D-32	32	100S	230E	4304735409	14293	State	GW	S			SESW	ML-47063	N2525
BONANZA 2B-16	16	090S	240E	4304735694	14186	State	D	PA			NWNE	ML-46526	N2525
ROCK HOUSE 2D-36	36	100S	220E	4304735759	14357	State	GW	P			NWNE	ML-47061	N2525
ROCK HOUSE 2D-32	32	100S	230E	4304735760	14317	State	GW	S			NWNE	ML-47063	N2525
ROCK HOUSE 10D-32	32	100S	230E	4304735761	14318	State	GW	S			NWSE	ML-47063	N2525
ROCK HOUSE 12D-32	32	100S	230E	4304735762	14294	State	GW	P			NWSW	ML-47063	N2525
ROCK HOUSE 11-36	36	100S	220E	4304735900	14478	State	GW	P			NESW	ML-46907	N2525
ROCK HOUSE 4-36	36	100S	220E	4304735901	14449	State	GW	S			NWNW	ML42061	N2525
BONANZA 12A-22	22	090S	240E	4304735922	14520	Federal	D	PA			NWSW	UTU-78118	N2525
BONANZA 14-16	16	090S	240E	4304735941	14521	State	D	PA			SESW	ML-46526	N2525
ROCK HOUSE 11-2	02	110S	230E	4304736153	14695	State	GW	P	C		NESW	ML-47078	N2525
ROCK HOUSE 7-32-10-23	32	100S	230E	4304736306	14766	State	GW	S			SWNE	ML-47063	N2525
ROCK HOUSE 3-32-10-23	32	100S	230E	4304736307	14781	State	GW	P			NENW	ML-47063	N2525
ROCK HOUSE 5-32-10-23	32	100S	230E	4304736410	14727	State	GW	S			SWNW	ML-47063	N2525
GUSHER 6-2	02	060S	190E	4304736963		State	OW	LA			SESW	ML-49144	N2525
N HORSESHOE 3-16-6-21	16	060S	210E	4304737391	15716	State	GW	DRL	C		NENW	ML-49317	N2525
N HORSESHOE 12-7-6-22	07	060S	220E	4304737392		State	GW	LA			NWSW	ML-47969	N2525
N HORSESHOE 16-9-6-22	09	060S	220E	4304737393		State	GW	LA			SESE	ML-47969	N2525
N HORSESHOE 14-10-6-22	10	060S	220E	4304737394		State	GW	LA			SESW	ML-47969	N2525
N HORSESHOE 2-15-6-22	15	060S	220E	4304737395		State	GW	LA			NWNE	ML-47969	N2525
N HORSESHOE 4-15-6-22	15	060S	220E	4304737396		State	GW	LA			NWNW	ML-47969	N2525
N WALKER HOLLOW 12-32-6-23	32	060S	230E	4304737397		State	GW	LA			NWSW	ML-47777	N2525
N WALKER HOLLOW 16-32-6-23	32	060S	230E	4304737398		State	GW	LA			SESE	ML-47777	N2525
N WALKER HOLLOW 2-32-6-23	32	060S	230E	4304737399	15741	State	GW	DRL	C		NWNE	ML-47777	N2525
N WALKER HOLLOW 10-32-6-23	32	060S	230E	4304737400		State	GW	LA			NWSE	ML-47777	N2525
N WALKER HOLLOW 8-32-6-23	32	060S	230E	4304737401		State	GW	LA			SENE	ML-47777	N2525
N WALKER HOLLOW 11-36-6-23	36	060S	230E	4304737462		State	GW	LA			NESW	ML-47970	N2525
N WALKER HOLLOW 13-36-6-23	36	060S	230E	4304737463		State	GW	LA			SWSW	ML-47970	N2525
N WALKER HOLLOW 15-36-6-23	36	060S	230E	4304737464		State	GW	LA			SWSE	ML-47970	N2525
N WALKER HOLLOW 14-32-6-23	32	060S	230E	4304737478		State	GW	LA			SESW	ML-47777	N2525
HACKING RES 11-32-8-25	32	080S	250E	4304737479		State	GW	LA			NESW	ML-11124	N2525
HACKING RES 3-32-8-25	32	080S	250E	4304737480		State	GW	LA			NENW	ML-11124	N2525
HACKING RES 5-32-8-25	32	080S	250E	4304737481		State	GW	LA			SWNW	ML-11124	N2525
HACKING RES 15-32-8-25	32	080S	250E	4304737482		State	GW	LA			SWSE	ML-11124	N2525
HACKING RES 9-32-8-25	32	080S	250E	4304737483		State	GW	LA			NESE	ML-11124	N2525
HACKING RESERVOIR 7-32-8-25	32	080S	250E	4304737571	15885	State	GW	DRL	C		SWNE	ML-11124	N2525

**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-47063</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:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: <b>Rock House 3-32-10-23</b>	
2. NAME OF OPERATOR: <b>Forest Oil Corporation</b>		9. API NUMBER: <b>4304736307</b>
3. ADDRESS OF OPERATOR: 707 17th Street Suite 3600 CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>	PHONE NUMBER: <b>(303) 812-1676</b>	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>524' FNL &amp; 2151' FWL</b>		COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NENW 32 10S 23E</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: _____	<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: _____
	<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.

Install 1200' of 4" Flowline

NAME (PLEASE PRINT) <u>Kelly Harris</u>	TITLE <u>Regulatory Tech</u>
SIGNATURE	DATE <u>8/26/2009</u>

(This space for State use only)

**RECEIVED**

**AUG 31 2009**

**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-47063</b>
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		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: <b>Rock House 3-32-10-23</b>	
2. NAME OF OPERATOR: <b>Forest Oil Corporation</b>		9. API NUMBER: <b>4304736307</b>
3. ADDRESS OF OPERATOR: 707 17th St. Ste 3600      CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>	PHONE NUMBER: <b>(303) 812-1676</b>	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>524' FNL &amp; 2151' FWL</b>		COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NENW 32 10S 23E</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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <b>7/1/2009</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <b>Weed Control</b>

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

Forest Oil Corporation would respectfully like to let you know that Pride Weed Control came out on 7/1/2009 and applied 35 Gallons of weed control spray at 2:00. Please see attached invoice that covers all of the wells listed, along with a copy of the Pesticide Application Report.

NAME (PLEASE PRINT) <b>Kelly Harris</b>	TITLE <b>Regulatory Tech</b>
SIGNATURE	DATE <b>2/22/2010</b>

(This space for State use only)

**RECEIVED**  
**FEB 24 2010**

Pride Weed Control, Inc.

8100 Hwy 550  
Durango CO 81303

# Invoice

Date	Invoice #
7/8/2009	13710

<b>Bill To</b>
Forest Oil Corporation

<b>Service Location</b>
Bare Ground Weed Control

<b>P.O. No.</b>	<b>Terms</b>	<b>Due Date</b>
	2% 10 Net 30	8/7/2009

Item	Description	Quantity	Rate	Amount
4.3	Bare Ground Vegetation Management: By Production Unit		1,922.50	1,922.50T
Mojave 70 EG	EPA 74477-9-81927	22.4	5.00%	0.00
				96.13

Commercial applicators are licensed by the Colorado Department of Agriculture

<b>Phone #</b>	<b>Fax #</b>	<b>E-mail</b>	<b>Total</b>	<b>\$2,018.63</b>
(970) 247-9778	(970) 385-0967	pwc@animas.net		

RECEIVED  
FEB 24 2010  
DIV. OF OIL, GAS & MINING



BUREAU OF LAND MANAGEMENT  
PESTICIDE APPLICATION REPORT

BLM Field Office: VERNAL, UT

Date: SEPTEMBER 30, 2009

Applicator Information:

1. Office Address: Pride Weed Control, Inc. 8100 Hwy 550 Durango, CO 81303
  - a. Phone Number: 970-247-9778
  - b. Project Name: Various Oil and Gas Facilities for Forest Oil
  - c. Pesticide Use Proposal Number: \_\_\_\_\_
2. Name of Applicator or Employee(s) Applying the Pesticide: Pride Weed Control, Inc.
3. Date(s) of Application (month, day, year): Various
4. Time of Application: Various
5. Location of Application: Various (see attached)
6. Type of Equipment Used: Truck mounted sprayer – handgun
7. Pesticide(s) Used:
  - a. Company or Manufacturer Name: ALLIGARE LLC
  - b. Trade Name: MOJAVE
  - c. Type of Formula: DISPERSABLE GRANUAL
8. Rate of Application Used (active ingredient per acre): 10 LBS / ACRE

Total amount of pesticide used: 24 LBS

Total amount of active ingredient used: 1.8672 LBS of Imazapyr and 14.9328 lbs of diuron
9. Total Area Treated: 3 Acres
10. Primary Pest(s) Involved: ALL VEGETATION

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11. Stage of Pest Development: Various

12. Weather Conditions: Variable

13. Monitoring Record (if insufficient space-continue on back):

\*This record if required by law and must completed except for monitoring within  
24 hours after completion of application of pesticides. This record must be  
maintained for a minimum of 10 years.

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# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office  
170 South 500 East  
Vernal, UT 84078  
(435) 781-4400 Fax: (435) 781-4410

REFER TO: 9015 (UT-933)

TO: Mr. Clay W. Grant  
Forest Oil Corporation  
916 Upland Way  
Green River WY 82935

Mr. George Thompson  
Pride Weed Control  
8100 Hwy 550  
Durango CO 81303

FROM: Clayton Newberry, Minerals Dept Botanist  
USDI Bureau of Land Management, Vernal Field Office

SUBJECT: PUP No. 09-LLUTG01000-17

Dear Mr. Grant and Mr. Thompson:

Your Pesticide Use Proposal (09-LLUTG01000-17) has been approved, with modifications and clarifications, by State Office in Salt Lake City. I have included a copy of the letter from State Office.

I have also included a Pesticide Application Record Form (PARF). Please send a copy of the PARF to your pesticide applicator. Instruct him that he should fill out a separate PARF every time he applies pesticide, one PARF per general area of application; and to submit all completed PARFs to our office every year by 01 November. I have included a completed PARF as a sample, to show how it should be filled out.

In addition, when submitting Pesticide Use Proposals from now on, please use the most current form posted on the Vernal BLM web page at the following URL:  
[http://www.blm.gov/style/medialib/blm/ut/vernal\\_fo/energy.Par.91962.File.dat/BLANK%20PUP%20FORM.pdf](http://www.blm.gov/style/medialib/blm/ut/vernal_fo/energy.Par.91962.File.dat/BLANK%20PUP%20FORM.pdf).

If you have any questions or need clarification, contact me by office phone at 435-781-3404 or by e-mail at [Clayton\\_Newberry@blm.gov](mailto:Clayton_Newberry@blm.gov).

I wish you well in your operations in areas administered by Vernal Field Office.

Respectfully,

Clayton Newberry

Enclosures: PUP approval letter  
Pesticide Application Record Form  
sample completed Pesticide Application Record Form

*Rock House File*  
10 August 2009

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Services	<i>R</i>
Land Use & Minerals	<input checked="" type="checkbox"/>
NEPA	
Renewables	
IN REPLY REFER TO:	
9015	(UT-933)
BUREAU OF LAND MANAGEMENT VERNAL, UT	
ALL EMPLOYEES	

BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov/ut/st/en.html>

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BLM VERNAL, UTAH

Memorandum

To: Vernal Field Manager

From: Deputy State Director, Natural Resources

Subject: Pesticide Use Proposal Approvals

Your Pesticide Use Proposal (PUP) LLUTG01000 -17 with eleven herbicide formulations (eight active ingredients: Glyphosate, Dicamba, Triclopyr+Clopyralid, Metsulfuron Methyl, 2,4-D, Imazapyr+Diuron) and two adjuvants (surfactant and dye) is approved with one modification, shown below and on the PUP. The objective of these treatments is for bare ground control to improve worker safety and reduce fire hazards around oil and gas facilities and equipment. This PUP is approved for a period of one year from the date of approval, approximately July 31, 2010.

Modification: Items #10 and #11 Mojave 70EG and Sahara DG: The recommended use rate is  $\leq 10$  lbs/acre in a  $< 15''$  rainfall zone. The proposed intended use rate of 10-12 lbs/acre is slightly higher. UTSO requests that the operator adhere to the recommendation guidelines in the label and limit applications to 10 lbs/ac/yr. If for some unforeseen reason this rate does not provide adequate control, this may be negotiated with the FO weed specialist to a maximum of 12/lbs/ac/yr after the first year, and approved in writing (notated on the original PUP).

Also, for future PUP submissions, it is requested that the Field Office submit the information on a single form rather than duplicate information on multiple forms. Invariably data does not match and it creates extra work to correct both forms. Additionally, herbicide labels should be included in future PUP submissions.

The Green River District is in the process of updating its Weed Management Plan and associated environmental analysis. As part of that process, field office staff is consulting with US Fish and Wildlife Service (USFWS) with regard to Threatened and Endangered Species (TES) and identifying appropriate standard operating procedures and mitigation measures, including treatment buffers, for the use of herbicides in or near potential habitat for TES plant species. This process is expected to be completed in 2010. In the interim, as a result of communication with USFWS, PUP approvals will be for a period of one year and the current conservation measures and prescribed buffers for surface disturbing activities in TES habitat will be utilized.

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Treatments will be made in accordance with the pesticide label, this PUP and Approval Memo, the current Decision Notice and Environmental Documents (UT-08-03-73, Rev. 3/25/85 and applicable Environmental Assessments for related APD's and pipeline development) and the Vegetation Treatments Using Herbicides PEIS 2007 (as directed by IM-2008-030). Treatments are required to be made by or under the direct supervision of a certified licensed applicator.

Prior to treatments, all sites should obtain sensitive species clearances. Continue to work with Vernal Field Office staff and representatives from USFWS to address TES plant concerns and implement appropriate mitigations and conservation measures, including buffers for surface disturbance as provided in informal and formal consultation. Additionally, applicators are strongly encouraged to take extra precautions with respect to drift control: assessing wind conditions, following label directions, and adjusting equipment and droplet size as much as practical to minimize drift potential. EA No. UT-08-73/Rev 03/25/85 specifies that spray application should not be done when wind speeds exceed 6 miles per hour or heavy rainfall or other adverse weather conditions exist, in addition to other applicable mitigation measures.

Please follow the label and MSDS directions for personal protective equipment, which generally includes long sleeved shirt and pants, shoes and socks, chemical resistant gloves, and protective eyewear. BLM handbook 9011 – 1 also strongly recommends the use of coveralls.

It is the responsibility of Forest Oil, its contractors, and the Vernal Field Office to monitor herbicide application to be sure that the approved PUP is followed and that Pesticide Application Records are completed within 24 hours after application of the pesticide and maintained in the office records for 10 years. Please coordinate efforts to ensure this documentation is provided to the FO in a timely manner.

If you have questions, please contact Lisa Bryant at (801) 539-4069 or Verlin Smith at (801) 539-4055.

*Verlin Smith*

#### Attachments

PUP No. 09-LLUTG010000-17

Herbicide Labels: Round-up Pro, Rifle, Redeem R&P, Cruise Control, Prescott Herbicide, MSM 60, 2,4-D Low Vol 6, Escort XP, Glyphosate 4 Plus, Mojave, Sahara DG

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U.S. DEPARTMENT OF INTERIOR  
PESTICIDE USE PROPOSAL

EA NUMBER: UT - 08-73 / REV. 3/25/85

STATE: UT

COUNTY: Uintah

FIELD OFFICE: Vernal

DURATION OF PROPOSAL: <sup>One</sup> 3 Years

LOCATION: Various gas and oil well locations, compressor and pumping facilities, pipeline rights-of-way.

Attach map(s) and/or a list of sites \* (Sites Listed)

ORIGINATOR - NAME: Clay Grant

ORIGINATOR - COMPANY: Forest Oil Corporation

ORIGINATOR - CONTACT INFORMATION: 916 Upland Way Green River, WY 82935

Include address and phone number (307) 875-1964 off. (307) 875-1967 fax (303) 406-1627 cell

DATE:

PROPOSAL NUMBER:

EA REFERENCE NUMBER:

DECISION RECORD (DR) NUMBER:

**I. APPLICATION SITE DESCRIPTION:**

1. ESTIMATED NUMBER OF ACRES: 70
2. GENERAL DESCRIPTION (Describe land type or use, size, stage of growth of target species, soil characteristics, and any additional information that may be important in describing the area to be treated.)

Previously leveled areas for the construction of roads, gas and oil well locations, reclaimed pits and pipeline rights-of-way, access roads.

**II. DESIRED RESULTS OF APPLICATION:** (List the anticipated results of the treatment, species that will be controlled or removed, or enhanced, etc.):

Bare ground and control if noxious species.

**III. SENSITIVE ASPECTS AND PRECAUTIONS:** (Describe sensitive areas - marsh, endangered, threatened, candidate, and sensitive species habitat - and distance to application site. List measures to be taken to avoid impact to these areas):

Spraying will be halted when winds present a danger of drift and damage to off-target species.

**IV. NON-TARGET VEGETATION** (Describe potential immediate and cumulative impacts to non-target pests in project area as a result of the pesticide application. Identify any planned mitigation measures that will be employed - BE GENERAL, SPECIFICS DISCUSSED IN THE EA):

None

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**V. INTEGRATED PEST MANAGEMENT PRACTICES CONSIDERED IN THE OVERALL PROJECT:**

**Spraying only**

**VI.** Please submit the product labels (or copies of the product labels) and MSD Sheets along with this PUP.

Use the following tables to indicate which products will be used. The row number should be consistent throughout Tables 1, 2, 3 & 4 (i.e., row 1 in Table 1 should correspond to row 1 in Tables 2, 3 & 4). Add more rows if needed for additional products. Use Table 5 for adjuvants. You may fill this out electronically or print it, fill it out by hand and mail it in—but if your handwriting is illegible, this PUP will be returned without action.

1. PESTICIDES (row numbers in Table 1 should correspond to row numbers in Tables 2, 3 & 4)						
Row No.	TRADE NAME	COMMON NAME	EPA REG. No.	MANUFACTURER	FORMULATION (liquid or granule)	APPLICATION METHOD
1	Round-Up Pro	Glyphosate	524-475	Monsanto	liquid	backpack spray
2	Rifle	Dicamba	34704-861	Loveland Products	Liquid	Handgun, truck, tractor, ATV mounted booms
3	Redeem R&P	Triclopyr plus clopyralid	62719-337	Dow Agrosience	Liquid	Handgun, truck, tractor, ATV mounted booms
4	Cruise Control	Dicamba	42750-40-81927	Alligare	Liquid	Handgun, truck, tractor, ATV mounted booms
5	Prescott Herbicide	Triclopyr plus clopyralid	81927-30	Alligare	Liquid	Handgun, truck, tractor, ATV mounted booms
6	MSM 60	Metsulfuron Methyl	81927-7	Alligare	Granule	Handgun, truck, tractor, ATV mounted booms
7	2,4-D Low Vol 6	2,4-D	34704-125	Loveland Products	Liquid	Handgun, truck, ATV mounted booms
8	Escort XP	Metsulfuron Methyl	352-439	Dupont	Granular	Handgun, truck, tractor, ATV mounted booms
9	Glyphosate 4 plus	Glyphosate	81927-9	Alligare	Liquid	Handgun, truck, tractor, ATV mounted booms
10	Mojave 70 EG	Imazapyr plus Diuron	74477-9-81927	Alligare	Granular	Handgun, truck, tractor, ATV mounted booms
11	Sahara DG	Imazapyr plus Diuron	241-372	BASF	Granular	Handgun, truck, tractor, ATV mounted booms

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2. MAXIMUM APPLICATION RATE ACCORDING TO PRODUCT LABEL (row numbers correspond to Table 1)				
Row No.	TRADE NAME	APPLICATION RATE ON PRODUCT LABEL	POUNDS ACTIVE INGREDIENT PER ACRE	POUNDS ACID EQUIVALENT (AE) PER ACRE (IF GIVEN)
1	Round-Up Pro	10.6 qts / acre / yr	10.6 Lbs / acre / yr	7.95 Lbs / acre / yr
2	Rifle	2 qt / acre/yr	2 lbs / acre / yr	2 lbs / acre / yr
3	Redeem R&P	4 pts / acre / yr	1.125 Lbs ae triclopyr and .375 ae clopyralid / acre / yr	1.125 Lbs triclopyr .375 Lbs clopyralid / acre / yr
4	Cruise Control	2 qt / acre/yr	2 lbs / acre / yr	2 lbs / acre / yr
5	Prescott Herbicide	Up to 4 pts / acre / yr	1.125 Lbs ae triclopyr and .375 ae clopyralid / acre / yr	1.125 Lbs triclopyr .375 Lbs clopyralid / acre / yr
6	MSM 60	2 oz / acre / yr	1.2 oz / acre / yr	N/A
7	2,4-D Low Vol 6	5 1/3 pts / acre	3.73 Lbs ae / acre	3.73 Lbs / acre / yr
8	Escort XP	2 oz / acre / yr	1.2 oz / acre / yr	N/A
9	Glyphosate 4 plus	2 Gals / acre / yr	8 Lbs / acre / yr	6 Lbs / acre / yr
10	Mojave 70 EG	13 Lbs / acre / yr	Imazapyr 1.245 Lbs / acre / yr Diuron 8.09 Lbs / acre / yr	N/A
11	Sahara DG	13 Lbs / acre / yr	Imazapyr 1.245 Lbs / acre / yr Diuron 8.09 Lbs / acre / yr	N/A

2007 VELS  
 Max Rate  
 ae/acre/yr  
 7.0 lbs ae/ae  
 (9.3 qts prod)  
 2.0 lbs ae  
 10 lbs T ae  
 1 lb C ae  
 2.0 lbs ae  
 10 lbs T ae  
 1 lb C ae  
 .15 lbs ai  
 1.9 lbs ae  
 .15 lbs ai  
 7.0 lbs ae/ae  
 (9.3 qts prod)  
 1.5 lbs ai  
 20)  
 1.5 lbs ai  
 20)

3. INTENDED APPLICATION RATE (rows correspond to Table 1)				
Row No.	TRADE NAME	INTENDED APPLICATION RATE	INTENDED POUNDS ACTIVE INGREDIENT PER ACRE	INTENDED POUNDS ACID EQUIVALENT PER ACRE
1	Round-Up Pro	Up to 2 qts / acre / yr	Up to 2 Lbs	Up to 1.5 Lbs
2	Rifle	Up to 2 pts / acre / yr	Up to 1 lb	Up to 1 lb
3	Redeem R&P	Up to 4 pts / acre / yr	Up to 1.125 lb ae triclopyr; .375 lb ae clopyralid	Up to 1.125 lb ae triclopyr; .375 lb ae clopyralid
4	Cruise Control	Up to 2 pts / acre / yr	Up to 1 lb	Up to 1 lb
5	Prescott Herbicide	Up to 4 pts / acre / yr	Up to 1.125 lb ae triclopyr; .375 lb ae clopyralid	Up to 1.125 lb ae triclopyr; .375 lb ae clopyralid
6	MSM 60	Up to 1 oz / acre / yr	Up to .0375 Lbs / acre / yr	N/A
7	2,4-D Low Vol 6	Up to 2 2/3 pts./acre/yr	Up to 1.85 Lbs / acre / yr	Up to 1.85 Lbs
8	Escort XP	Up to 1 oz / acre / yr	Up to .0375 Lbs / acre / yr	N/A
9	Glyphosate 4 plus	Up to 1 Gal / acre / yr	Up to 4 Lbs / acre / yr	Up to 3 Lbs
10	Mojave 70 EG	Up to 12 Lbs / acre / yr	Up to 7.47 Lbs / acre / yr Diuron Imazapyr .93 Lbs / acre / yr	N/A * see mod.
11	Sahara DG	Up to 12 Lbs / acre / yr	Up to 7.47 Lbs / acre / yr Diuron Imazapyr .93 Lbs / acre / yr	N/A * see mod.

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4. PESTICIDE TIMING & TARGET (rows correspond to Table 1)				
Row No.	TRADE NAME	TREATMENT DATE	NUMBER OF TREATMENTS	TARGET WEED
1	Round-Up Pro	15 Apr - 30 Oct	1-2 per year, as needed	All Vegetation
2	Rifle	Various Dates	1 application / yr	Canada Thistle, Musk Thistle, Houndstongue, Black Henbane, Russian and Spotted Knapweed
3	Redeem R&P	Various Dated	1 application / yr	Canada Thistle, Musk Thistle, Houndstongue, Black Henbane, Russian and Spotted Knapweed
4	Cruise Control	Various Dates	1 application / yr	Canada Thistle, Musk Thistle, Houndstongue, Black Henbane, Russian and Spotted Knapweed
5	Prescott Herbicide	Various Dates	1 application / yr	Canada Thistle, Musk Thistle, Houndstongue, Black Henbane, Russian Knapweed, and Spotted Knapweed
6	MSM 60	Various Dates	1 application / yr	Halogeton, Whitetop, Perennial Pepperweed
7	2,4-D Low Vol 6	Various Dates	1 application / yr	Halogeton
8	Escort XP	Various Dates	1 application / yr	Whitetop, Halogeton, Black Henbane, Perennial Pepperweed, Russian Knapweed
9	Glyphosate 4 plus	Various Dates	1 application / yr	All Vegetation
10	Mojave 70 EG	Various Dates	1 application / yr	All vegetation
11	Sahara DG	Various Dates	1 application / yr	All vegetation

5. ADJUVANTS (COLORANTS, DILUENTS, MARKERS, SURFACTANTS, ETC)					
TRADE NAME	TYPE	MANUFACTURER	APPLICATION RATE ON PRODUCT LABEL	INTENDED APP. RATE	FOR USE WITH WHICH HERBICIDES?
Hi-Light	colorant	Becker Underwood	16 oz / 100 Gal solution	16 oz / 100 Gal	Mohave 70 EG, Sahara DG, Glyphosate 4 Plus, Round Up Pro
Activator 90	surfactant	Loveland Products	4 pts / 100 Gal solution	4 pts / 100 Gal	Rifle, Redeem, Cruise Control, Prescott Herbicide, MSM 60, 2,4-D low vol 6, Escort XP

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VII. The following must be filled out legibly and signed by the Applicator and Originator. If **DIVISION OF OIL, GAS & MINING** in any way illegible, this PUP will be returned to the Originator without action.

"Applicator" refers to the company which will apply the pesticide (e.g., Joe's Weed Killer s. LLC) "Originator" refers to the company which originates this herbicide use request (e.g., Gas R Us, Inc.)

Applicator company name: Pride Weed Control, Inc.

Applicator contact name: George Thompson

Applicator contact phone number: 970-247-9778

Applicator address: 8100 Hwy 550 Durango CO 81303

Pesticide applicator signature: *George Thompson*

Pesticide applicator printed name: George Thompson

Pesticide applicator license no.: 4001-14068 Exp. Date: 12/31/2011

I will ensure that the pesticide(s) and pesticide products will be applied in accordance with product label restrictions and according to the information presented above, and according to BLM modifications (if any). I will also ensure that Pesticide Use Application Records and Pesticide Use Reports will be submitted to the BLM Rawlins Field Office monthly for the duration of this PUP.

Originator signature: *[Signature]* Date: 5/6/2009  
Printed / typed name: Clay W. Grant SR. Production Foreman

To be signed and approved by BLM personnel:

FO Pesticide Coordinator signature: *[Signature]* Date: 4 Jun 2009

FO Manager approval: *William [Signature]* Date: 6/4/09

State Coordinator signature: *Lisa Bryant* Date: 7/28/09

Deputy State Director approval: *[Signature]* Date: 7/28/09

- APPROVED
- DISAPPROVED
- APPROVED WITH MODIFICATIONS (see below):

Modifications:

*Recommended use rates for Mojave 70E6 - Sahara DG in <15" prec zone is <10 lbs/acre/yr. Operator should adhere to label recommendations unless they can show inadequate control. In such an instance a rate of up to 12 lbs product/acre may be negotiated in writing on FO weed special. 3 attached to this PUP.*

Row No.	TRADE NAME	TREATMENT DATE	NUMBER OF TREATMENTS	TARGET WEED
1	Round-Up Pro	15 Apr - 30 Oct	1-2 applications per year, as needed	all vegetation
2	Rifle	various dates	1 application per year	Canada thistle, musk thistle, houndstongue, black henbane, Russian knapweed, spotted knapweed
3	Redeem R&P	various dates	1 application per year	Canada thistle, musk thistle, houndstongue, black henbane, Russian knapweed, spotted knapweed
4	Cruise Control	various dates	1 application per year	Canada thistle, musk thistle, houndstongue, black henbane, Russian knapweed, spotted knapweed
5	Prescott	various dates	1 application per year	Canada thistle, musk thistle, houndstongue, black henbane, Russian knapweed, spotted knapweed
6	MSM 60	various dates	1 application per year	halogeton, whitetop, perennial pepperweed
7	2,4-D Low Vol 6	various dates	1 application per year	halogeton
8	Escort XP	various dates	1 application per year	black henbane, perennial pepperweed, Russian knapweed, whitetop, halogeton
9	Glyphosate 4 Plus	various dates	1 application per year	all vegetation
10	Mojave 70 EG	various dates	1 application per year	all vegetation
11	Sahara DG	various dates	1 application per year	all vegetation

5. ADJUVANTS (COLORANTS, DILUENTS, MARKERS, SURFACTANTS, ETC)					
TRADE NAME	ADJUVANT TYPE	MANUFACTURER	APPLICATION RATE ON PRODUCT LABEL	INTENDED APPLICATION RATE	FOR USE WITH WHICH HERBICIDES?
Hi-Light	colorant	Becker Underwood	16 oz / 100 Gal solution	16 oz / 100 Gal	Mojave 70 EG, Sahara DG, Glyphosate 4 Plus, Round-Up Pro
Activator 90	surfactant	Loveland	4 pts / 100 Gal solution	4 pts / 100 Gal	Rifle, Redeem R&P, Cruise Control, Prescott, MSM 60, 2,4-D Low Vol 6, Escort XP

The following must be filled out legibly and signed. If your handwriting is in any way illegible, this PUP will be returned to the sender without action.

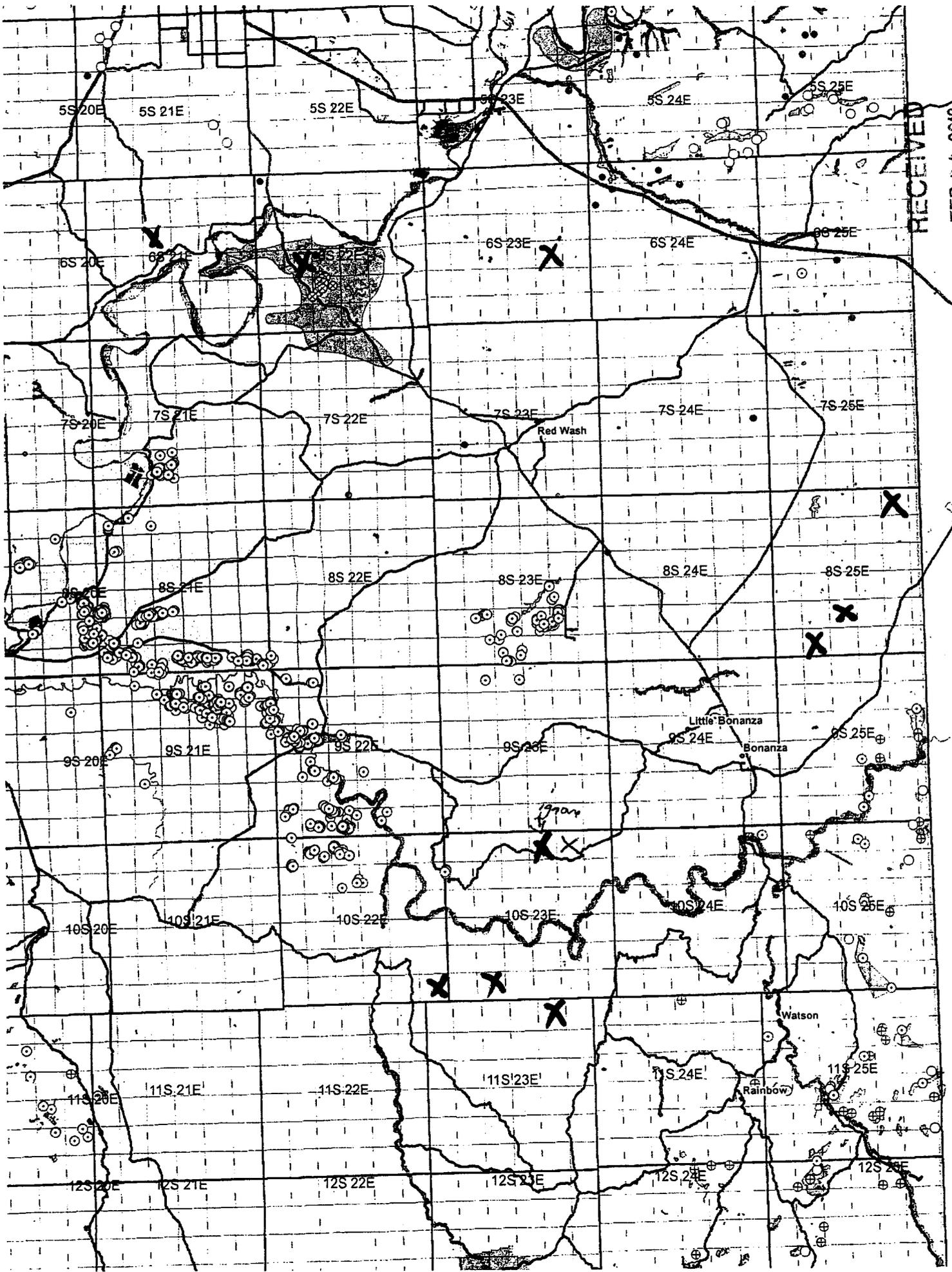
"Originator" refers to the company which needs herbicides applied—e.g., Basin Oil, Inc.  
 "Applicator" refers to the company which will apply the herbicide—e.g., Basin Annihilo-Weed, Inc.

Originator company: Forest Oil Corporation  
 Originator contact name: Clay Grant  
 Originator contact phone number(s): 307-875-1964 cell 303-406-1627 fax 307-875-1967  
 Originator mailing address: 916 Upland Way, Green River WY 82935  
 Applicator company name: Pride Weed Control, Inc.  
 Applicator name: George Thompson  
 Applicator license no.: 4001-14068 exp. 12/31/2011  
 Applicator phone & fax numbers: phone 970-247-9778  
 Applicator mailing address: 8100 Hwy 550, Durango, CO 81303

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09447601-17  
11-1054177-6

**PESTICIDE (WEED) APPLICATION RECORD FORM**  
**BLM-Vernal, 170 South 500 East Phone (435) 781-4400**

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Weed Management Area:  
 Vegetation/Community Type:  
     Complex %  
 Watershed  
 Allotment:  
 Quad Name(s):  
 Location T. , R. , Sec. , ¼ ¼  
 GPS Reading

Site Name:  
 Weed Site #      Quad # DIV OF OIL, GAS & MINING  
 Applicator:  
 Address:  
 License No.:      Phone #  
 County:  
 Aerial Photo #  
 Slide Photo

WEED SPECIES	P h e n o l o g y	C o v e r  C l a s s	P a t t e r n	I n f e s t.  S i z e	ECOLOGICAL SITE DESCRIPTION	APPLICATION DATA
					Name:	Rate/Ac. Volume:
					Condition:	Active/Acre:
					Soil Map Unit #	Total Volume:
					<b>WEATHER</b>	Acres treated:
					Wind speed:	Acres on site:
					Direction:	<b>MECHANICAL TREATMENT (circle one)</b>
					Temperature:	Hand pull, hand tool, clip seed heads
					<b>PEST TREATMENT (circle one)</b>	Plow, other
					crop, seeded, native, roadside, agriculture, reservoir bank, oil well, other	<b>BIOLOGICAL TREATMENT</b>
						Bio Agent:
					<b>WEED TREATMENT DATA</b>	Method applied:
					Date:	<b>Monitoring</b>
Recovery Species					Time:	Original treatment
					<b>EQUIPMENT TYPE (circle one)</b>	Original Acres
					Power Boom, Power hand	Follow-up
					Backpack, ATV	Photo point
					Aerial	Photo #
					<b>TREATMENT METHOD (circle one)</b>	<b>Veg Study</b>
					Pesticide, Mechanical, Biological	Frequency, Cover, Step point
					Trade Name:	<b>Site Recovery Needs</b>
Width Track:					Active Ingredient:	Grazing deferment yn
Weed Ac. Est.					Company Name:	Vegetative seed yn
Ac. Inventoried:					EPA Reg. No.:	Method seed
Site Characteristics					PUP No.:	Hand broadcast, Spreader ATV, Drill, Disc, Other
					<b>FORMULATION (circle one)</b>	
Elevation:					Liquid, Powder, Granular	Acres Rehabilitated:
Aspect (direction):						Species seeded:
Slope (%):						Date:
<b>TOPOGRAPHY (circle one)</b>						Species established:
Ridge, Upper Slope						Date:
Midslope, Lower slope						
Bench/Flat, Stream Bottom						
Meadow						
Comments						

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**PESTICIDE (WEED) APPLICATION RECORD FORM**  
**BLM-Vernal, 170 South 500 East Phone (435) 781-4400**

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Weed Management Area Clay Basin or Company Name

Site Name Clay Basin #12

Veg (Com.) Type Sagebrush

Weed Site SL045051

Quad # \_\_\_\_\_

Complex \_\_\_\_\_

% \_\_\_\_\_

Applicator John Smith

Watershed: Red Creek

Address \_\_\_\_\_

Allotment \_\_\_\_\_

License No. xyz123

Phone # 123.456.7891

Quad Name(s) \_\_\_\_\_

County: Daggett

Location T. 3N , R. 24E , Sec. 31 , SW ¼ NW ¼

Aerial Photo # \_\_\_\_\_

GPS Reading \_\_\_\_\_

Slide Photo \_\_\_\_\_

Weed Species	P h e n o l o g y	C o v e r  C l a s s	P a t t e r n	I n f e s t.  S i z e	Eco Site	APPLICATION DATA
					Name	Rate/Ac. Vol: 0.334 gallons/acre
					Condition	Active/Ac.: 1.8 lbs/acre
					Soil Map Unit #	Total Vol.: (1.8 lbs ac X 28.81 acres = 51.85 lbs ac/acre)  51.85 lbs ac/acre
Canada thistle	2	2	2	2	<b>WEATHER</b>	Ac. Treated: 28.81 acres
Musk thistle	3	1	3	1	Wind speed: 4 mph	Acre on site
					Direction: south	<b>MECHANICAL TREATMENT (circle one)</b>
					Temp: 85	Hand pull, hand tool
					<b>PEST TREATMENT (circle one)</b>	Plow, other
					Veg. site treated - crop, seeded, native, roadside, agriculture, reservoir bank, oil well, other	<b>Biological Treatment</b>
						Bio Agent
					<b>WEED TREATMENT DATA</b>	Method applied
					Date 8/15/07	<b>Monitoring</b>
Recovery Species					Time 3:22 p	
					<b>EQUIPMENT TYPE (circle one)</b>	Original Acres
					Power Boom, Power hand	Follow-up
					Backpack, ATV	Photo point
					Aerial	Photo #
					<b>TREATMENT METHOD (circle one)</b>	<b>Veg Study</b>
					Pesticide, Mechanical, Biological	Frequency, Cover, Step point
					Trade Name: 2,4-d 6# Low Vol	<b>Site Recovery Needs</b>
Width Track					Active Ingredient: 2,4-D	Grazing deferment yn
Weed Ac. Est.					Company Name: Platte Chemical Co	Vegetative seed yn
Ac. Inventoried					EPA Reg. No. 34704-125	Method seed
Site Characteristics					PUP No. 07-UT-080-12	Hand broadcast, Spreader ATV, Drill, Disc, Other
					FORMULATION (circle one)	
Elevation					Liquid, Powder, Granular	Acres Rehabed
Aspect (direction)						Species seeded
Slope (%)						Date
Topography						Species established
Ridge, Upper Slope						Date
Midslope, Lower slope						
Bench/Flat, Stream Bottom						
Meadow						
Comments						

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**PESTICIDE (WEED) APPLICATION RECORD FORM**  
**BLM-Vernal, 170 South 500 East Phone (435) 781-4400**

DIV. OF OIL, GAS & MINING

Weed Management Area Clay Basin or Company Name

Site Name Clay Basin #12

Veg (Com.) Type Sagebrush

Weed Site SL045051

Quad # \_\_\_\_\_

Complex \_\_\_\_\_

% \_\_\_\_\_

Applicator John Smith

Watershed: Red Creek

Address \_\_\_\_\_

Allotment \_\_\_\_\_

License No. xyz123

Phone # 123.456.7891

Quad Name(s) \_\_\_\_\_

County: Daggett

Location T. 3N , R. 24E , Sec. 31 , SW ¼ NW ¼

Aerial Photo # \_\_\_\_\_

GPS Reading \_\_\_\_\_

Slide Photo \_\_\_\_\_

Weed Species	Phenology	Cover Class	Pattern	Infest. Size	Eco Site	APPLICATION DATA
					Name	Rate/Ac. Vol: 0.334 gallons/acre
					Condition	Active/Ac.: 1.8 lbs/acre
					Soil Map Unit #	Total Vol.: (1.8 lbs ac X 28.81 acres = 51.85 lbs ac/acre)  51.85 lbs ac/acre
Canada thistle	2	2	2	2	<b>WEATHER</b>	Ac. Treated: 28.81 acres
Musk thistle	3	1	3	1	Wind speed: 4 mph	Acre on site
					Direction: south	<b>MECHANICAL TREATMENT (circle one)</b>
					Temp: 85	Hand pull, hand tool
					<b>PEST TREATMENT (circle one)</b>	Plow, other
					Veg. site treated - crop, seeded, native, roadside, agriculture, reservoir bank, oil well, other	<b>Biological Treatment</b>
						Bio Agent
					<b>WEED TREATMENT DATA</b>	Method applied
					Date 8/15/07	<b>Monitoring</b>
Recovery Species					Time 3:22 p	
					<b>EQUIPMENT TYPE (circle one)</b>	Original Acres
					Power Boom, Power hand	Follow-up
					Backpack, ATV	Photo point
					Aerial	Photo #
					<b>TREATMENT METHOD (circle one)</b>	<b>Veg Study</b>
					Pesticide, Mechanical, Biological	Frequency, Cover, Step point
					Trade Name: 2,4-d 6# Low Vol	<b>Site Recovery Needs</b>
Width Track					Active Ingredient: 2,4-D	Grazing deferment yn
Weed Ac. Est.					Company Name: Platte Chemical Co	Vegetative seed yn
Ac. Inventoried					EPA Reg. No. 34704-125	Method seed
Site Characteristics					PUP No. 07-UT-080-12	Hand broadcast, Spreader ATV, Drill, Disc, Other
					<b>FORMULATION (circle one)</b>	
Elevation					Liquid, Powder, Granular	Acres Rehabed
Aspect (direction)						Species seeded
Slope (%)						Date
<b>Topography</b>						Species established
Ridge, Upper Slope						Date
Midslope, Lower slope						
Bench/Flat, Stream Bottom						
Meadow						
<b>Comments</b>						

**COVER CLASS** - estimated percent cover, by species, of the infestation

- 0 No weeds found
- 1 Less than 1% (trace)
- 2 One to five percent (low - occasional plants)
- 3 Six to twenty-five percent (moderate - scattered plants)
- 4 Twenty-five to 100% (high - fairly dense)

**PATTERN** - pattern of the infestation

- 0 No weeds found
- 1 Single plant or small area of many plants
- 2 Linear
- 3 Patchy
- 4 Block

**INFESTATION SIZE** - number of estimated acres of the infestation

- 0 No weeds found
- 1 Less than one acre
- 2 One to five acres
- 3 Five or more acres

**PHENOLOGY** - development stage

- 1 Vegetative
- 2 Bud stage
- 3 Flower
- 4 Seeded
- 5 Mature
- 6 Dormant

**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.

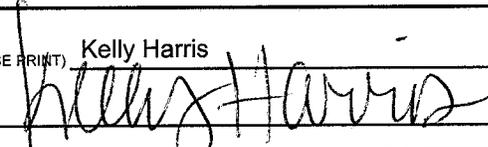
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47063</b>
2. NAME OF OPERATOR: <b>Forest Oil Corporation</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 707 17th Street, Ste 3600 CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>524' FNL &amp; 2151' FWL</b>		8. WELL NAME and NUMBER: <b>Rock House 3-32-10-23</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NENW 32 10S 23E</b>		9. API NUMBER: <b>4304736307</b>
COUNTY: <b>Uintah</b>		10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes</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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <b>7/1/2009</b>	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u><b>Weed Control</b></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.

Forest Oil Corporation would respectfully like to let you know that Pride Weed Control came out and applied Noxious weed control on 7/1/2009 at 1:50. Please see attached invoice that covers all of the wells that are listed on the attached spreadsheet, along with a copy of the Pesticide Application Report.

NAME (PLEASE PRINT) <b>Kelly Harris</b>	TITLE <b>Regulatory Tech</b>
SIGNATURE 	DATE <b>3/17/2010</b>

(This space for State use only)

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**MAR 23 2010**  
**DIV. OF OIL, GAS & MINING**

Pride Weed Control, Inc.

8100 Hwy 550  
Durango CO 81303

# Invoice

Date	Invoice #
7/8/2009	13709

<b>Bill To</b>
Forest Oil Corporation

<b>Service Location</b>
Noxious Weed Control

P.O. No.	Terms	Due Date
	2% 10 Net 30	8/7/2009

Item	Description	Quantity	Rate	Amount
2.3	Noxious Weed control by Acre	27.5	157.50	4,331.25
Rifle	Pints: EPA Reg #42750-40-34704	27.39		0.00
2, 4-D LV 6#	Gallons EPA Reg#34704-12	6.85		0.00
			5.00%	216.56
Commercial applicators are licensed by the Colorado Department of Agriculture				
Phone #	Fax #	E-mail		<b>Total</b> \$4,547.81
(970) 247-9778	(970) 385-0967	pwc@animas.net		

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Forest Oil Noxious Invoice #13709 July 8, 2009

PRIDE WEED CONTROL, INC.

BLOCK	NAME	NO	LOCATION	LEASE	DATE	TIME	ACRES	OZ	NET	TAXABLE	TAX EXEMPT	TAX EXEMPT CHG	TAX CHG	CHARGES	TAX	TOTAL
10-22	Rock House	4-36	NWNW 36, 10, 22	ML-42061	7/2/2009	4:15	3.94	157.7	3.94	3.94	0	\$0.00	\$620.55	\$620.55	\$31.03	\$651.58
10-23	Rock House	05-32-10-23	SWNE 32, 10, 23	ML-47063	7/1/2009	1:09	2.64	126.9	2.64	2.64	0	\$0.00	\$415.80	\$415.80	\$20.79	\$436.59
10-23	Rock House	7-32-10-23	SWNE 32, 10, 23	ML-47063	7/2/2009	1:45	1.42	63.5	1.42	1.42	0	\$0.00	\$223.65	\$223.65	\$11.18	\$234.83
10-23	Rock House	10D-32	NWSE 32, 10, 23	ML-47063	7/2/2009	12:58	1.82	87.5	1.82	1.82	0	\$0.00	\$286.65	\$286.65	\$14.33	\$300.98
11-23	Rock House (11-02)	11-23-23-02	NESW 2, 11, 23	ML-47078	7/2/2009	11:30	1.7	80.5	1.7	1.7	0	\$0.00	\$267.75	\$267.75	\$13.39	\$281.14
10-23	Rock House	<del>11-31</del>	NESW 31, 10, 23	UTU-76281	7/2/2009	2:18	2.23	107.2	2.23	2.23	0	\$0.00	\$351.23	\$351.23	\$17.56	\$368.79
10-23	Rock House	11-36	NESW 36, 10, 22	ML-42061	7/2/2009	3:30	1.44	108.5	1.44	1.44	0	\$0.00	\$226.80	\$226.80	\$11.34	\$238.14
10-23	Rock House	12D-32	NW/SW 32, 10, 23	ML-47063	7/1/2009	1:05	2.92	140	2.92	2.92	0	\$0.00	\$459.90	\$459.90	\$23.00	\$482.90
10-23	Rock House	2D-32	NWNE 32, 10, 23	ML-47063	7/2/2009	12:58	1.42	63.5	1.42	1.42	0	\$0.00	\$223.65	\$223.65	\$11.18	\$234.83
10-23	Rock House	2D-36	NWNE 36, 10, 22	ML-42061	7/2/2009	3:18	3.07	150.8	3.07	3.07	0	\$0.00	\$483.53	\$483.53	\$24.18	\$507.70
10-23	Rock House	3-32-10-23	NENW 32, 10, 23	ML-41063	7/1/2009	1:50	2.81	135.5	2.81	2.81	0	\$0.00	\$442.58	\$442.58	\$22.13	\$464.70
10-23	Rock House	6D-32	SE/W 32, 10, 23	ML-47063	7/1/2009	1:20	2.09	92.8	2.09	2.09	0	\$0.00	\$329.18	\$329.18	\$16.46	\$345.63
							27.5	1314.4	27.5	27.5	0	\$0.00	\$4,331.27	\$4,331.27	\$216.57	\$4,547.81

BUREAU OF LAND MANAGEMENT  
PESTICIDE APPLICATION REPORT

BLM Field Office: VERNAL, UT

Date: SEPTEMBER 30, 2009

Applicator Information:

1. Office Address: Pride Weed Control, Inc. 8100 Hwy 550 Durango, CO 81303

a. Phone Number: 970-247-9778

b. Project Name: Various Oil and Gas Facilities for Forest Oil

c. Pesticide Use Proposal Number: \_\_\_\_\_

2. Name of Applicator or Employee(s) Applying the Pesticide: Pride Weed Control, Inc.

3. Date(s) of Application (month, day, year): Various

4. Time of Application: Various

5. Location of Application: Various (see attached)

6. Type of Equipment Used: Truck mounted sprayer – handgun

7. Pesticide(s) Used:

a. Company or Manufacturer Name: ALLIGARE LLC

b. Trade Name: MOJAVE

c. Type of Formula: DISPERSABLE GRANUAL

8. Rate of Application Used (active ingredient per acre): 10 LBS / ACRE

Total amount of pesticide used: 24 LBS

Total amount of active ingredient used: 1.8672 LBS of Imazapyr and

14.9328 lbs of diuron

9. Total Area Treated: 3 Acres

10. Primary Pest(s) Involved: ALL VEGETATION

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11. Stage of Pest Development: Various

12. Weather Conditions: Variable

13. Monitoring Record (if insufficient space-continue on back):

\*This record if required by law and must completed except for monitoring within 24 hours after completion of application of pesticides. This record must be maintained for a minimum of 10 years.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410

REFER TO: 9015 (UT-933)

TO: Mr. Clay W. Grant  
Forest Oil Corporation  
916 Upland Way  
Green River WY 82935

Mr. George Thompson  
Pride Weed Control  
8100 Hwy 550  
Durango CO 81303

FROM: Clayton Newberry, Minerals Dept Botanist  
USDI Bureau of Land Management, Vernal Field Office

SUBJECT: PUP No. 09-LLUTG01000-17

*Rock House File*

10 August 2009

Dear Mr. Grant and Mr. Thompson:

Your Pesticide Use Proposal (09-LLUTG01000-17) has been approved, with modifications and clarifications, by State Office in Salt Lake City. I have included a copy of the letter from State Office.

I have also included a Pesticide Application Record Form (PARF). Please send a copy of the PARF to your pesticide applicator. Instruct him that he should fill out a separate PARF every time he applies pesticide, one PARF per general area of application; and to submit all completed PARFs to our office every year by 01 November. I have included a completed PARF as a sample, to show how it should be filled out.

In addition, when submitting Pesticide Use Proposals from now on, please use the most current form posted on the Vernal BLM web page at the following URL:  
[http://www.blm.gov/style/medialib/blm/ut/vernal\\_fo/energy.Par.91962.File.dat/BLANK%20PUP%20FORM.pdf](http://www.blm.gov/style/medialib/blm/ut/vernal_fo/energy.Par.91962.File.dat/BLANK%20PUP%20FORM.pdf).

If you have any questions or need clarification, contact me by office phone at 435-781-3404 or by e-mail at [Clayton\\_Newberry@blm.gov](mailto:Clayton_Newberry@blm.gov).

I wish you well in your operations in areas administered by Vernal Field Office.

Respectfully,

Clayton Newberry

Enclosures: PUP approval letter  
Pesticide Application Record Form  
sample completed Pesticide Application Record Form

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United States Department of the Interior



NAME	
Services	<i>R</i>
Land Use & Minerals	<input checked="" type="checkbox"/>
NEPA	
Renewables	
IN REPLY REFER TO:	
9015	(UT-933)
BUREAU OF LAND MANAGEMENT VERNAL UTAH	
ALL EMPLOYEES	

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

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

JUL 29 2009

Memorandum

To: Vernal Field Manager

From: Deputy State Director, Natural Resources

Subject: Pesticide Use Proposal Approvals

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JUL 29 2009  
BLM VERNAL, UTAH

Your Pesticide Use Proposal (PUP) LLUTG01000 -17 with eleven herbicide formulations (eight active ingredients: Glyphosate, Dicamba, Triclopyr+Clopyralid, Metsulfuron Methyl, 2,4-D, Imazapyr+Diuron) and two adjuvants (surfactant and dye) is approved with one modification, shown below and on the PUP. The objective of these treatments is for bare ground control to improve worker safety and reduce fire hazards around oil and gas facilities and equipment. This PUP is approved for a period of one year from the date of approval, approximately July 31, 2010.

Modification: Items #10 and #11 Mojave 70EG and Sahara DG: The recommended use rate is <= 10 lbs/acre in a < 15" rainfall zone. The proposed intended use rate of 10-12 lbs/acre is slightly higher. UTSO requests that the operator adhere to the recommendation guidelines in the label and limit applications to 10 lbs/ac/yr. If for some unforeseen reason this rate does not provide adequate control, this may be negotiated with the FO weed specialist to a maximum of 12/lbs/ac/yr after the first year, and approved in writing (notated on the original PUP).

Also, for future PUP submissions, it is requested that the Field Office submit the information on a single form rather than duplicate information on multiple forms. Invariably data does not match and it creates extra work to correct both forms. Additionally, herbicide labels should be included in future PUP submissions.

The Green River District is in the process of updating its Weed Management Plan and associated environmental analysis. As part of that process, field office staff is consulting with US Fish and Wildlife Service (USFWS) with regard to Threatened and Endangered Species (TES) and identifying appropriate standard operating procedures and mitigation measures, including treatment buffers, for the use of herbicides in or near potential habitat for TES plant species. This process is expected to be completed in 2010. In the interim, as a result of communication with USFWS, PUP approvals will be for a period of one year and the current conservation measures and prescribed buffers for surface disturbing activities in TES habitat will be utilized.

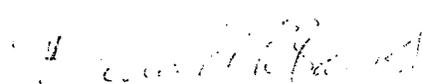
Treatments will be made in accordance with the pesticide label, this PUP and Approval Memo, the current Decision Notice and Environmental Documents (UT-08-03-73, Rev. 3/25/85 and applicable Environmental Assessments for related APD's and pipeline development) and the Vegetation Treatments Using Herbicides PEIS 2007 (as directed by IM-2008-030). Treatments are required to be made by or under the direct supervision of a certified licensed applicator.

Prior to treatments, all sites should obtain sensitive species clearances. Continue to work with Vernal Field Office staff and representatives from USFWS to address TES plant concerns and implement appropriate mitigations and conservation measures, including buffers for surface disturbance as provided in informal and formal consultation. Additionally, applicators are strongly encouraged to take extra precautions with respect to drift control: assessing wind conditions, following label directions, and adjusting equipment and droplet size as much as practical to minimize drift potential. EA No. UT-08-73/Rev 03/25/85 specifies that spray application should not be done when wind speeds exceed 6 miles per hour or heavy rainfall or other adverse weather conditions exist, in addition to other applicable mitigation measures.

Please follow the label and MSDS directions for personal protective equipment, which generally includes long sleeved shirt and pants, shoes and socks, chemical resistant gloves, and protective eyewear. BLM handbook 9011 – 1 also strongly recommends the use of coveralls.

It is the responsibility of Forest Oil, its contractors, and the Vernal Field Office to monitor herbicide application to be sure that the approved PUP is followed and that Pesticide Application Records are completed within 24 hours after application of the pesticide and maintained in the office records for 10 years. Please coordinate efforts to ensure this documentation is provided to the FO in a timely manner.

If you have questions, please contact Lisa Bryant at (801) 539-4069 or Verlin Smith at (801) 539-4055.

A handwritten signature in black ink, appearing to read "Verlin Smith", is located in the lower right quadrant of the page.

#### Attachments

PUP No. 09-LLUTG010000-17

Herbicide Labels: Round-up Pro, Rifle, Redeem R&P, Cruise Control, Prescott Herbicide, MSM 60, 2,4-D Low Vol 6, Escort XP, Glyphosate 4 Plus, Mojave, Sahara DG

U.S. DEPARTMENT OF INTERIOR  
PESTICIDE USE PROPOSAL  
EA NUMBER: UT-08-73 / REV. 3/25/85

STATE: UT

COUNTY: Uintah

FIELD OFFICE: Vernal

DURATION OF PROPOSAL: <sup>One</sup> 3 Years

LOCATION: Various gas and oil well locations, compressor and pumping facilities, pipeline rights-of-way.

DATE:
PROPOSAL NUMBER:
EA REFERENCE NUMBER:
DECISION RECORD (DR) NUMBER:

Attach map(s) and/or a list of sites \* (Sites Listed)

ORIGINATOR – NAME: Clay Grant

ORIGINATOR – COMPANY: Forest Oil Corporation

ORIGINATOR – CONTACT INFORMATION: 916 Upland Way Green River, WY 82935  
Include address and phone number (307) 875-1964 off. (307) 875-1967 fax (303) 406-1627 cell

**I. APPLICATION SITE DESCRIPTION:**

1. ESTIMATED NUMBER OF ACRES: 70
2. GENERAL DESCRIPTION (Describe land type or use, size, stage of growth of target species, soil characteristics, and any additional information that may be important in describing the area to be treated.)

Previously leveled areas for the construction of roads, gas and oil well locations, reclaimed pits and pipeline rights-of-way, access roads.

**II. DESIRED RESULTS OF APPLICATION:** (List the anticipated results of the treatment, species that will be controlled or removed, or enhanced, etc.):

Bare ground and control if noxious species.

**III. SENSITIVE ASPECTS AND PRECAUTIONS:** (Describe sensitive areas – marsh, endangered, threatened, candidate, and sensitive species habitat – and distance to application site. List measures to be taken to avoid impact to these areas):

Spraying will be halted when winds present a danger of drift and damage to off-target species.

**IV. NON-TARGET VEGETATION** (Describe potential immediate and cumulative impacts to non-target pests in project area as a result of the pesticide application. Identify any planned mitigation measures that will be employed – BE GENERAL, SPECIFICS DISCUSSED IN THE EA):

None

**V. INTEGRATED PEST MANAGEMENT PRACTICES CONSIDERED IN THE OVERALL PROJECT:**

**Spraying only**

**VI.** Please submit the product labels (or copies of the product labels) and MSD Sheets along with this PUP.

Use the following tables to indicate which products will be used. The row number should be consistent throughout Tables 1, 2, 3 & 4 (i.e., row 1 in Table 1 should correspond to row 1 in Tables 2, 3 & 4). Add more rows if needed for additional products. Use Table 5 for adjuvants. You may fill this out electronically or print it, fill it out by hand and mail it in—but if your handwriting is illegible, this PUP will be returned without action.

1. PESTICIDES (row numbers in Table 1 should correspond to row numbers in Tables 2, 3 & 4)						
Row No.	TRADE NAME	COMMON NAME	EPA REG. No.	MANUFACTURER	FORMULATION (liquid or granule)	APPLICATION METHOD
1	Round-Up Pro	Glyphosate	524-475	Monsanto	liquid	backpack spray
2	Rifle	Dicamba	34704-861	Loveland Products	Liquid	Handgun, truck, tractor, ATV mounted booms
3	Redeem R&P	Triclopyr plus clopyralid	62719-337	Dow Agrosience	Liquid	Handgun, truck, tractor, ATV mounted booms
4	Cruise Control	Dicamba	42750-40-81927	Alligare	Liquid	Handgun, truck, tractor, ATV mounted booms
5	Prescott Herbicide	Triclopyr plus clopyralid	81927-30	Alligare	Liquid	Handgun, truck, tractor, ATV mounted booms
6	MSM 60	Metsulfuron Methyl	81927-7	Alligare	Granule	Handgun, truck, tractor, ATV mounted booms
7	2,4-D Low Vol 6	2,4-D	34704-125	Loveland Products	Liquid	Handgun, truck, tractor, ATV mounted booms
8	Escort XP	Metsulfuron Methyl	352-439	Dupont	Granular	Handgun, truck, tractor, ATV mounted booms
9	Glyphosate 4 plus	Glyphosate	81927-9	Alligare	Liquid	Handgun, truck, tractor, ATV mounted booms
10	Mojave 70 EG	Imazapyr plus Diuron	74477-9-81927	Alligare	Granular	Handgun, truck, tractor, ATV mounted booms
11	Sahara DG	Imazapyr plus Diuron	241-372	BASF	Granular	Handgun, truck, tractor, ATV mounted booms

**2. MAXIMUM APPLICATION RATE ACCORDING TO PRODUCT LABEL**  
(row numbers correspond to Table 1)

Row No.	TRADE NAME	APPLICATION RATE ON PRODUCT LABEL	POUNDS ACTIVE INGREDIENT PER ACRE	POUNDS ACID EQUIVALENT (AE) PER ACRE (IF GIVEN)
1	Round-Up Pro	10.6 qts / acre / yr	10.6 Lbs / acre / yr	7.95 Lbs / acre / yr
2	Rifle	2 qt / acre/yr	2 lbs / acre / yr	2 lbs / acre / yr
3	Redeem R&P	4 pts / acre / yr	1.125 Lbs ae triclopyr and .375 ae clopyralid / acre / yr	1.125 Lbs triclopyr .375 Lbs clopyralid / acre / yr
4	Cruise Control	2 qt / acre/yr	2 lbs / acre / yr	2 lbs / acre / yr
5	Prescott Herbicide	Up to 4 pts / acre / yr	1.125 Lbs ae triclopyr and .375 ae clopyralid / acre / yr	1.125 Lbs triclopyr .375 Lbs clopyralid / acre / yr
6	MSM 60	2 oz / acre / yr	1.2 oz / acre / yr	N/A
7	2,4-D Low Vol 6	5 1/3 pts / acre	3.73 Lbs ae / acre	3.73 Lbs / acre / yr
8	Escort XP	2 oz / acre / yr	1.2 oz / acre / yr	N/A
9	Glyphosate 4 plus	2 Gals / acre / yr	8 Lbs / acre / yr	6 Lbs / acre / yr
10	Mojave 70 EG	13 Lbs / acre / yr	Imazapyr 1.245 Lbs / acre / yr Diuron 8.09 Lbs / acre / yr	N/A
11	Sahara DG	13 Lbs / acre / yr	Imazapyr 1.245 Lbs / acre / yr Diuron 8.09 Lbs / acre / yr	N/A

2007 UELS  
Max Rate  
ae/acre/yr  
7.0 lbs ae/ae  
(9.3 qts produ  
2.0 lbs ae  
10 lbs T ae  
1 lb C ae  
2.0 lbs ae  
10 lbs T ae  
1 lb C ae  
.15 lbs ai  
1.9 lbs ae  
.15 lbs ai  
7.0 lbs ae/ae  
(9.3 qts produ  
1.57  
20 lbs ai  
1.57 lbs ai  
20)

**3. INTENDED APPLICATION RATE (rows correspond to Table 1)**

Row No.	TRADE NAME	INTENDED APPLICATION RATE	INTENDED POUNDS ACTIVE INGREDIENT PER ACRE	INTENDED POUNDS ACID EQUIVALENT PER ACRE
1	Round-Up Pro	Up to 2 qts / acre / yr	Up to 2 Lbs	Up to 1.5 Lbs
2	Rifle	Up to 2 pts / acre / yr	Up to 1 lb	Up to 1 lb
3	Redeem R&P	Up to 4 pts / acre / yr	Up to 1.125 lb ae triclopyr; .375 lb ae clopyralid	Up to 1.125 lb ae triclopyr; .375 lb ae clopyralid
4	Cruise Control	Up to 2 pts / acre / yr	Up to 1 lb	Up to 1 lb
5	Prescott Herbicide	Up to 4 pts / acre / yr	Up to 1.125 lb ae triclopyr; .375 lb ae clopyralid	Up to 1.125 lb ae triclopyr; .375 lb ae clopyralid
6	MSM 60	Up to 1 oz / acre / yr	Up to .0375 Lbs / acre / yr	N/A
7	2,4-D Low Vol 6	Up to 2 2/3 pts./acre/yr	Up to 1.85 Lbs / acre / yr	Up to 1.85 Lbs
8	Escort XP	Up to 1 oz / acre / yr	Up to .0375 Lbs / acre / yr	N/A
9	Glyphosate 4 plus	Up to 1 Gal / acre / yr	Up to 4 Lbs / acre / yr	Up to 3 Lbs
10	Mojave 70 EG	Up to 12 Lbs / acre / yr	Up to 7.47 Lbs / acre / yr Diuron Imazapyr .93 Lbs / acre / yr	N/A * see mod.
11	Sahara DG	Up to 12 Lbs / acre / yr	Up to 7.47 Lbs / acre / yr Diuron Imazapyr .93 Lbs / acre / yr	N/A * see mod.

4. PESTICIDE TIMING & TARGET (rows correspond to Table 1)				
Row No.	TRADE NAME	TREATMENT DATE	NUMBER OF TREATMENTS	TARGET WEED
1	Round-Up Pro	15 Apr - 30 Oct	1-2 per year, as needed	All Vegetation
2	Rifle	Various Dates	1 application / yr	Canada Thistle, Musk Thistle, Houndstongue, Black Henbane, Russian and Spotted Knapweed
3	Redeem R&P	Various Dated	1 application / yr	Canada Thistle, Musk Thistle, Houndstongue, Black Henbane, Russian and Spotted Knapweed
4	Cruise Control	Various Dates	1 application / yr	Canada Thistle, Musk Thistle, Houndstongue, Black Henbane, Russian and Spotted Knapweed
5	Prescott Herbicide	Various Dates	1 application / yr	Canada Thistle, Musk Thistle, Houndstongue, Black Henbane, Russian Knapweed, and Spotted Knapweed
6	MSM 60	Various Dates	1 application / yr	Halogeton, Whitetop, Perennial Pepperweed
7	2,4-D Low Vol 6	Various Dates	1 application / yr	Halogeton
8	Escort XP	Various Dates	1 application / yr	Whitetop, Halogeton, Black Henbane, Perennial Pepperweed, Russian Knapweed
9	Glyphosate 4 plus	Various Dates	1 application / yr	All Vegetation
10	Mojave 70 EG	Various Dates	1 application / yr	All vegetation
11	Sahara DG	Various Dates	1 application / yr	All vegetation

5. ADJUVANTS (COLORANTS, DILUENTS, MARKERS, SURFACTANTS, ETC)					
TRADE NAME	TYPE	MANUFACTURER	APPLICATION RATE ON PRODUCT LABEL	INTENDED APP. RATE	FOR USE WITH WHICH HERBICIDES?
Hi-Light	colorant	Becker Underwood	16 oz / 100 Gal solution	16 oz / 100 Gal	Mohave 70 EG, Sahara DG, Glyphosate 4 Plus, Round Up Pro
Activator 90	surfactant	Loveland Products	4 pts / 100 Gal solution	4 pts / 100 Gal	Rifle, Redeem, Cruise Control, Prescott Herbicide, MSM 60, 2,4-D low vol 6, Escort XP

VII. The following must be filled out legibly and signed by the Applicator and Originator. If your handwriting is in any way illegible, this PUP will be returned to the Originator without action.

"Applicator" refers to the company which will apply the pesticide e.g., Joe's Weed Killers, LLC "Originator" refers to the company which originates this herbicide use request e.g., Gas R Us, Inc.

Applicator company name: Pride Weed Control, Inc.  
Applicator contact name: George Thompson  
Applicator contact phone number: 970-247-9778  
Applicator address: 8100 Hwy 550 Durango CO 81303  
Pesticide applicator signature: *George Thompson*  
Pesticide applicator printed name: George Thompson  
Pesticide applicator license no.: 4001-14068 Exp. Date: 12/31/2011

I will ensure that the pesticide(s) and pesticide products will be applied in accordance with product label restrictions and according to the information presented above, and according to BLM modifications (if any). I will also ensure that Pesticide Use Application Records and Pesticide Use Reports will be submitted to the BLM Rawlins Field Office monthly for the duration of this PUP.

Originator signature: *[Signature]* Date: 5/6/2009  
Printed / typed name: P. W. GRANT SR. Production Foreman

To be signed and approved by BLM personnel:

FO Pesticide Coordinator signature: *[Signature]* Date: 4 Jun 2009  
FO Manager approval: *William Hays* Date: 6/4/09  
State Coordinator signature: *Lisa Bryant* Date: 7/28/09  
Deputy State Director approval: *[Signature]* Date: 7/28/09

APPROVED  
 DISAPPROVED  
 APPROVED WITH MODIFICATIONS (see below):

Modifications:  
Recommended use rates for Mojave 70E6 = Sahara DG in <15" precy zone is <10 lbs/acre/yr. Operator should adhere to label recommendations, unless they can show inadequate control. In such an instance a rate of up to 12 lbs product/acre may be negotiated in writing app. FO weed specialist attached to this PUP.

**1. PESTICIDES** (row numbers in Table 1 should correspond to same row numbers in Tables 2, 3 & 4)

Row No.	TRADE NAME	COMMON NAME	EPA REG. No.	MANUFACTURER	FORMULATION (liquid or granule)	APPLICATION METHOD
1	Round-Up Pro	glyphosate	524-475	Monsanto	liquid	backpack spray
2	Rifle	dicamba	34704-861	Loveland	liquid	hndgn, trctr, trk, ATV
3	Redeem R&P	triclopyr + clopyralid	62719-337	Dow	liquid	hndgn, trctr, trk, ATV
4	Cruise Control	dicamba	42750-40-81927	Alligare	liquid	hndgn, trctr, trk, ATV
5	Prescott	triclopyr + clopyralid	81927-30	Alligare	liquid	hndgn, trctr, trk, ATV
6	MSM 60	metsulfuron methyl	81927-7	Alligare	dry granular	hndgn, trctr, trk, ATV
7	Low Vol 6	2,4-D	34704-125	Loveland	liquid	hndgn, trctr, trk, ATV
8	Escort XP	metsulfuron methyl	352-439	DuPont	dry granular	hndgn, trctr, trk, ATV
9	Glyphosate 4 Plus	glyphosate	81927-9	Alligare	liquid	hndgn, trctr, trk, ATV
10	Mojave 70 EG	imazapyr + diuron	34477-9-81927	Alligare	dry granular	hndgn, trctr, trk, ATV
11	Sahara DG	imazapyr + diuron	241-372	BASF	dry granular	hndgn, trctr, trk, ATV

**2. APPLICATION RATE ACCORDING TO PRODUCT LABEL** (rows correspond to rows in Table 1)

Row No.	TRADE NAME	MAXIMUM ALLOWABLE APPLICATION RATE ON PRODUCT LABEL	RATE PER ACRE RECOMMENDED ON PRODUCT LABEL	for liquid formulations only: POUNDS ACID EQUIVALENT (AE) PER ACRE
1	Round-Up Pro	(p.2) 10.6 qts / acre	(p. 8) 1 - 2 qts / acre	0.75 - 1.5 Lbs AE / acre
2	Rifle	(p.10) 2 qts / acre	(p.10-11) 1 - 2 qts / acre	1 - 2 Lbs AE / acre
3	Redeem R&P	(p.7) 4 pts / acre	(p.7) 3 - 4 pts / acre	0.844 - 1.125 Lbs AE / acre triclopyr 0.28 - 0.375 Lbs AE / acre clopyralid
4	Cruise Control	(p.7) 2 qts / acre	(p.8) 1 - 2 qts / acre	1 - 2 Lbs AE / acre
5	Prescott	(p.3) 4 pts / acre	(p.4) 3 - 4 pts / acre	0.844 - 1.125 Lbs AE / acre triclopyr 0.28 - 0.375 Lbs AE / acre clopyralid
6	MSM 60	(p.3) 2 oz / acre	1 - 2 oz / acre	NA
7	2,4-D Low Vol 6	(p.4) 5.33 pts / acre	(p.4) 2.67 - 5.33 pts / acre	1.87 - 3.73 Lbs AE / acre
8	Escort XP	(p.3) 4 oz / acre	(p. 5) 0.5 - 2.0 oz / acre	NA
9	Glyphosate 4 Plus	(p.14) 10 Gal / acre	(p.14) 3 - 10 Gal / acre	12 - 40 Lbs AE / acre
10	Mojave 70 EG	(p.5) 13 Lbs / acre	(p.4) 7 - 10 Lbs / acre	NA
11	Sahara DG	(p.4) 13 Lbs / acre	(p.4) 7 - 13 Lbs / acre	NA

**3. INTENDED APPLICATION RATE** (rows correspond to rows in Table 1)

Row No.	TRADE NAME	INTENDED APPLICATION RATE	for dry formulations only: INTENDED POUNDS ACTIVE INGREDIENT / ACRE	for liquid formulation only: INTENDED POUNDS ACID EQUIVALENT / ACRE	for office use only: VEIS RATE / ACRE (AE, AI, or formulated product)
1	Round-Up Pro	2 qts / acre	NA	1.5 Lbs AE / acre	7.0 Lbs AE / acre
2	Rifle	2 pts / acre	NA	1.0 Lbs AE / acre	2.0 Lbs AE / acre
3	Redeem R&P	4 pts / acre	NA	1.125 Lbs AE / acre triclopyr .375 Lbs AE / acre clopyralid	10.0 Lbs AE / acre triclopyr 1.0 lbs AE / acre clopyralid
4	Cruise Control	2 pts / acre	NA	1.0 Lbs AE / acre	2.0 Lbs AE / acre
5	Prescott	4 pts / acre	NA	1.125 Lbs AE / acre triclopyr .375 Lbs AE / acre clopyralid	10.0 Lbs AE / acre triclopyr 1.0 lbs AE / acre clopyralid
6	MSM 60	1 oz / acre	0.0375 Lbs AI / acre	NA	0.15 Lbs AI / acre
7	2,4-D Low Vol 6	2.67 pts / acre	NA	1.85 Lbs AE / acre	1.9 Lbs AE / acre
8	Escort XP	1 oz / acre	0.0375 Lbs AI / acre	NA	0.15 Lbs AI / acre
9	Glyphosate 4 Plus	1 Gal / acre	NA	3 Lbs AE / acre	7.0 Lbs AE / acre
10	Mojave 70 EG	12 Lbs / acre	7.47 Lbs AI / acre diuron 0.93 Lbs AI / acre imazapyr	NA	20.0 Lbs AI / acre diuron 1.5 Lbs AI / acre imazapyr
11	Sahara DG	12 Lbs / acre	7.47 Lbs AI / acre diuron 0.93 Lbs AI / acre imazapyr	NA	20.0 Lbs AI / acre diuron 1.5 Lbs AI / acre imazapyr

**4. PESTICIDE TIMING & TARGET** (rows correspond to rows in Table 1)

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Row No.	TRADE NAME	TREATMENT DATE	NUMBER OF TREATMENTS	TARGET WEED
1	Round-Up Pro	15 Apr – 30 Oct	1-2 applications per year, as needed	all vegetation
2	Rifle	various dates	1 application per year	Canada thistle, musk thistle, houndstongue, black henbane, Russian knapweed, spotted knapweed
3	Redeem R&P	various dates	1 application per year	Canada thistle, musk thistle, houndstongue, black henbane, Russian knapweed, spotted knapweed
4	Cruise Control	various dates	1 application per year	Canada thistle, musk thistle, houndstongue, black henbane, Russian knapweed, spotted knapweed
5	Prescott	various dates	1 application per year	Canada thistle, musk thistle, houndstongue, black henbane, Russian knapweed, spotted knapweed
6	MSM 60	various dates	1 application per year	halogeton, whitetop, perennial pepperweed
7	2,4-D Low Vol 6	various dates	1 application per year	halogeton
8	Escort XP	various dates	1 application per year	black henbane, perennial pepperweed, Russian knapweed, whitetop, halogeton
9	Glyphosate 4 Plus	various dates	1 application per year	all vegetation
10	Mojave 70 EG	various dates	1 application per year	all vegetation
11	Sahara DG	various dates	1 application per year	all vegetation

5. ADJUVANTS (COLORANTS, DILUENTS, MARKERS, SURFACTANTS, ETC)					
TRADE NAME	ADJUVANT TYPE	MANUFACTURER	APPLICATION RATE ON PRODUCT LABEL	INTENDED APPLICATION RATE	FOR USE WITH WHICH HERBICIDES?
Hi-Light	colorant	Becker Underwood	16 oz / 100 Gal solution	16 oz / 100 Gal	Mojave 70 EG, Sahara DG, Glyphosate 4 Plus, Round-Up Pro
Activator 90	surfactant	Loveland	4 pts / 100 Gal solution	4 pts / 100 Gal	Rifle, Redeem R&P, Cruise Control, Prescott, MSM 60, 2,4-D Low Vol 6, Escort XP

*The following must be filled out legibly and signed. If your handwriting is in any way illegible, this PUP will be returned to the sender without action.*

*"Originator" refers to the company which needs herbicides applied—e.g., Basin Oil, Inc.*

*"Applicator" refers to the company which will apply the herbicide—e.g., Basin Annihilo-Weed, Inc.*

Originator company: Forest Oil Corporation

Originator contact name: Clay Grant

Originator contact phone number(s): 307-875-1964 cell 303-406-1627 fax 307-875-1967

Originator mailing address: 916 Upland Way, Green River WY 82935

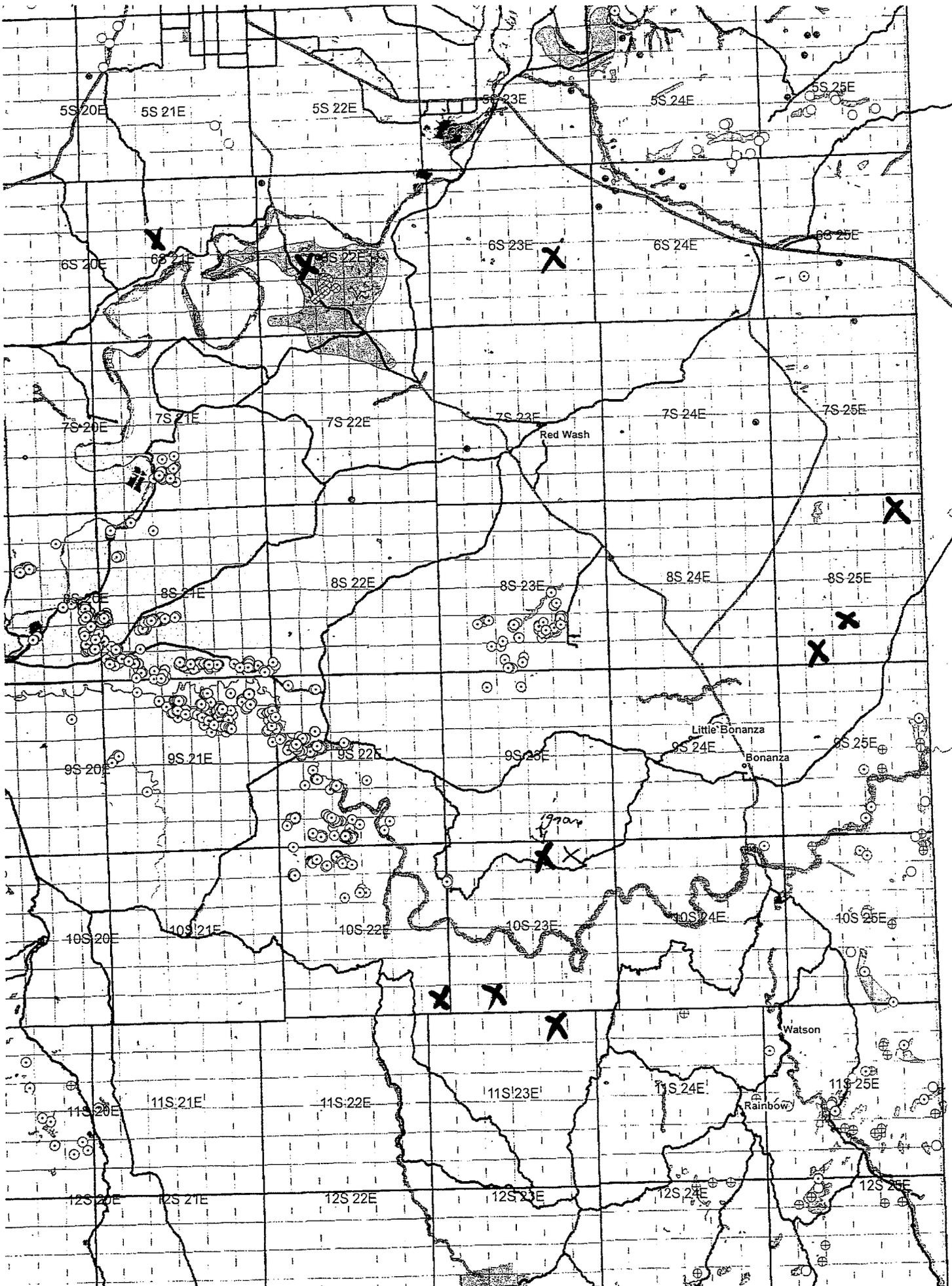
Applicator company name: Pride Weed Control, Inc.

Applicator name: George Thompson

Applicator license no.: 4001-14068 exp. 12/31/2011

Applicator phone & fax numbers: phone 970-247-9778

Applicator mailing address: 8100 Hwy 550, Durango, CO 81303



09-LUT-601-17

**PESTICIDE (WEED) APPLICATION RECORD FORM**  
**BLM-Vernal, 170 South 500 East Phone (435) 781-4400**

Weed Management Area:

Site Name:

Vegetation/Community Type:

Weed Site #

Quad # \_\_\_\_\_

Complex \_\_\_\_\_ %

Applicator:

Watershed

Address:

Allotment:

License No.:

Phone # \_\_\_\_\_

Quad Name(s):

County:

Location T. , R. , Sec. , ¼ ¼

Aerial Photo #

GPS Reading

Slide Photo

WEED SPECIES	P h e n o l o g y	C o v e r  C l a s s	P a t t e r n	I n f e s t.  S i z e	ECOLOGICAL SITE DESCRIPTION	APPLICATION DATA
					Name:	Rate/Ac. Volume:
					Condition:	Active/Acre:
					Soil Map Unit #	Total Volume:
					<b>WEATHER</b>	Acres treated:
					Wind speed:	Acres on site:
					Direction:	<b>MECHANICAL TREATMENT (circle one)</b>
					Temperature:	Hand pull, hand tool, clip seed heads
					<b>PEST TREATMENT (circle one)</b>	Plow, other
					crop, seeded, native, roadside, agriculture, reservoir bank, oil well, other	<b>BIOLOGICAL TREATMENT</b>
						Bio Agent:
					<b>WEED TREATMENT DATA</b>	Method applied:
					Date:	<b>Monitoring</b>
Recovery Species					Time:	Original treatment
					<b>EQUIPMENT TYPE (circle one)</b>	Original Acres
					Power Boom, Power hand	Follow-up
					Backpack, ATV	Photo point
					Aerial	Photo #
					<b>TREATMENT METHOD (circle one)</b>	<b>Veg Study</b>
					Pesticide, Mechanical, Biological	Frequency, Cover, Step point
					Trade Name:	<b>Site Recovery Needs</b>
Width Track:					Active Ingredient:	Grazing deferment yn
Weed Ac. Est.					Company Name:	Vegetative seed yn
Ac. Inventoried:					EPA Reg. No.:	Method seed
Site Characteristics					PUP No.:	Hand broadcast, Spreader ATV, Drill, Disc, Other
					<b>FORMULATION (circle one)</b>	
Elevation:					Liquid, Powder, Granular	Acres Rehabilitated:
Aspect (direction):						Species seeded:
Slope (%):						Date:
<b>TOPOGRAPHY (circle one)</b>						Species established:
Ridge, Upper Slope						Date:
Midslope, Lower slope						
Bench/Flat, Stream Bottom						
Meadow						
<b>Comments</b>						

**PESTICIDE (WEED) APPLICATION RECORD FORM**  
**BLM-Vernal, 170 South 500 East Phone (435) 781-4400**

Weed Management Area Clay Basin or Company Name

Site Name Clay Basin #12

Veg (Com.) Type Sagebrush

Weed Site SL045051

Quad # \_\_\_\_\_

Complex \_\_\_\_\_

% \_\_\_\_\_

Applicator John Smith

Watershed: Red Creek

Address \_\_\_\_\_

Allotment \_\_\_\_\_

License No. xyz123

Phone # 123.456.7891

Quad Name(s) \_\_\_\_\_

County: Daggett

Location T. 3N , R. 24E , Sec. 31 , SW ¼ NW ¼

Aerial Photo # \_\_\_\_\_

GPS Reading \_\_\_\_\_

Slide Photo \_\_\_\_\_

Weed Species	P h e n o l o g y	C o v e r  C l a s s	P a t t e r n	I n f e s t.  S i z e	Eco Site	APPLICATION DATA
					Name	Rate/Ac. Vol: 0.334 gallons/acre
					Condition	Active/Ac.: 1.8 lbs/acre
					Soil Map Unit #	Total Vol.: (1.8 lbs ac X 28.81 acres = 51.85 lbs ac/acre)  51.85 lbs ac/acre
Canada thistle	2	2	2	2	WEATHER	Ac. Treated: 28.81 acres
Musk thistle	3	1	3	1	Wind speed: 4 mph	Acre on site
					Direction: south	MECHANICAL TREATMENT (circle one)
					Temp: 85	Hand pull, hand tool
					PEST TREATMENT (circle one)	Plow, other
					Veg. site treated - crop, seeded, native, roadside, agriculture, reservoir bank, oil well, other	Biological Treatment
						Bio Agent
					WEED TREATMENT DATA	Method applied
					Date 8/15/07	Monitoring
Recovery Species					Time 3:22 p	
					EQUIPMENT TYPE (circle one)	Original Acres
					Power Boom, Power hand	Follow-up
					Backpack, ATV	Photo point
					Aerial	Photo #
					TREATMENT METHOD (circle one)	Veg Study
					Pesticide, Mechanical, Biological	Frequency, Cover, Step point
					Trade Name: 2,4-d 6# Low Vol	Site Recovery Needs
Width Track					Active Ingredient: 2,4-D	Grazing defement yn
Weed Ac. Est.					Company Name: Platte Chemical Co	Vegetative seed yn
Ac. Inventoried					EPA Reg. No. 34704-125	Method seed
Site Characteristics					PUP No. 07-UT-080-12	Hand broadcast, Spreader ATV, Drill, Disc, Other
					FORMULATION (circle one)	
Elevation					Liquid, Powder, Granular	Acres Rehabed
Aspect (direction)						Species seeded
Slope (%)						Date
Topography						Species established
Ridge, Upper Slope						Date
Midslope, Lower slope						
Bench/Flat, Stream Bottom						
Meadow						
Comments						

**PESTICIDE (WEED) APPLICATION RECORD FORM**  
**BLM-Vernal, 170 South 500 East Phone (435) 781-4400**

Weed Management Area Clay Basin or Company Name

Site Name Clay Basin #12

Veg (Com.) Type Sagebrush

Weed Site SL045051

Quad # \_\_\_\_\_

Complex \_\_\_\_\_

% \_\_\_\_\_

Applicator John Smith

Watershed: Red Creek

Address \_\_\_\_\_

Allotment \_\_\_\_\_

License No. xyz123

Phone # 123.456.7891

Quad Name(s) \_\_\_\_\_

County: Daggett

Location T. 3N , R. 24E , Sec. 31 , SW ¼ NW ¼

Aerial Photo # \_\_\_\_\_

GPS Reading \_\_\_\_\_

Slide Photo \_\_\_\_\_

Weed Species	P h e n o l o g y	C o v e r  C l a s s	P a t t e r n	I n f e s t.  S i z e	Eco Site	APPLICATION DATA
					Name	Rate/Ac. Vol: 0.334 gallons/acre
					Condition	Active/Ac.: 1.8 lbs/acre
					Soil Map Unit #	Total Vol.: (1.8 lbs ac X 28.81 acres = 51.85 lbs ac/acre)  51.85 lbs ac/acre
Canada thistle	2	2	2	2	<b>WEATHER</b>	Ac. Treated: 28.81 acres
Musk thistle	3	1	3	1	Wind speed: 4 mph	Acre on site
					Direction: south	<b>MECHANICAL TREATMENT (circle one)</b>
					Temp: 85	Hand pull, hand tool
					<b>PEST TREATMENT (circle one)</b>	Plow, other
					Veg. site treated - crop, seeded, native, roadside, agriculture, reservoir bank, oil well, other	<b>Biological Treatment</b>
						Bio Agent
					<b>WEED TREATMENT DATA</b>	Method applied
					Date 8/15/07	<b>Monitoring</b>
Recovery Species					Time 3:22 p	
					<b>EQUIPMENT TYPE (circle one)</b>	Original Acres
					Power Boom, Power hand	Follow-up
					Backpack, ATV	Photo point
					Aerial	Photo #
					<b>TREATMENT METHOD (circle one)</b>	<b>Veg Study</b>
					Pesticide, Mechanical, Biological	Frequency, Cover, Step point
					Trade Name: 2,4-d 6# Low Vol	<b>Site Recovery Needs</b>
Width Track					Active Ingredient: 2,4-D	Grazing deferment yn
Weed Ac. Est.					Company Name: Platte Chemical Co	Vegetative seed yn
Ac. Inventoried					EPA Reg. No. 34704-125	Method seed
Site Characteristics					PUP No. 07-UT-080-12	Hand broadcast, Spreader ATV, Drill, Disc, Other
					FORMULATION (circle one)	
Elevation					Liquid, Powder, Granular	Acres Rehabed
Aspect (direction)						Species seeded
Slope (%)						Date
<b>Topography</b>						Species established
Ridge, Upper Slope						Date
Midslope, Lower slope						
Bench/Flat, Stream Bottom						
Meadow						
<b>Comments</b>						

**COVER CLASS** - estimated percent cover, by species, of the infestation

- 0 No weeds found
- 1 Less than 1% (trace)
- 2 One to five percent (low - occasional plants)
- 3 Six to twenty-five percent (moderate - scattered plants)
- 4 Twenty-five to 100% (high - fairly dense)

**PATTERN** - pattern of the infestation

- 0 No weeds found
- 1 Single plant or small area of many plants
- 2 Linear
- 3 Patchy
- 4 Block

**INFESTATION SIZE** - number of estimated acres of the infestation

- 0 No weeds found
- 1 Less than one acre
- 2 One to five acres
- 3 Five or more acres

**PHENOLOGY** - development stage

- 1 Vegetative
- 2 Bud stage
- 3 Flower
- 4 Seeded
- 5 Mature
- 6 Dormant

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
 CDW

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

Operator Name Change/Merger

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

**5/31/2013**

**FROM:** (Old Operator):  
 N6965-Forest Oil Corporation  
 707 17th Street, Suite 3600  
 Denver, CO, 80202  
 Phone: 1 (303) 812-1676

**TO:** ( New Operator):  
 N2750-Enduring Resources, LLC  
 511 16th Street, Suite 700  
 Denver, CO, 80202  
 Phone: 1 (303) 573-1222

**CA No.**

**Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
FEDERAL 28-01	28	080S	250E	4304730098	10095	Federal	D	PA
N HORSESHOE 13-20-6-22	20	060S	220E	4304738020	16441	Federal	D	PA
ROCK HOUSE 11-31	31	100S	230E	4304733312	13984	Federal	GW	P
ROCK HOUSE 6D-32	32	100S	230E	4304735409	14293	State	GW	P
ROCK HOUSE 2D-36	36	100S	220E	4304735759	14357	State	GW	P
ROCK HOUSE 2D-32	32	100S	230E	4304735760	14317	State	GW	P
ROCK HOUSE 10D-32	32	100S	230E	4304735761	14318	State	GW	P
ROCK HOUSE 12D-32	32	100S	230E	4304735762	14294	State	GW	P
ROCK HOUSE 11-36	36	100S	220E	4304735900	14478	State	GW	P
ROCK HOUSE 4-36	36	100S	220E	4304735901	14449	State	GW	P
ROCK HOUSE 11-2	02	110S	230E	4304736153	14695	State	GW	P
ROCK HOUSE 7-32-10-23	32	100S	230E	4304736306	14766	State	GW	P
ROCK HOUSE 3-32-10-23	32	100S	230E	4304736307	14781	State	GW	P
ROCK HOUSE 5-32-10-23	32	100S	230E	4304736410	14727	State	GW	P
N WALKER HOLLOW 2-32-6-23	32	060S	230E	4304737399	15741	State	GW	S
N HORSESHOE 3-16-6-21	16	060S	210E	4304737391	15716	State	GW	TA

**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: 6/4/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/4/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/4/2013
- a. Is the new operator registered in the State of Utah: Y Business Number: 5771233-0161
- a. (R649-9-2) Waste Management Plan has been received on: Y
- b. Inspections of LA PA state/fee well sites complete on: N/A
- c. Reports current for Production/Disposition & Sundries on: 5/29/2013
- 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
- Federal and Indian Units:**  
 The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**  
 The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** 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:**

- Changes entered in the **Oil and Gas Database** on: 6/18/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/18/2013
- Bond information entered in RBDMS on: (Blanket Bond already established) 6/24/2013
- Fee/State wells attached to bond in RBDMS on: 6/24/2013
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

**BOND VERIFICATION:**

- 1. Federal well(s) covered by Bond Number: UTB000173
- 2. Indian well(s) covered by Bond Number: N/A
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number RLB0008031
- 3b. The **FORMER** operator has requested a release of liability from their bond on: 6/4/2013

**LEASE INTEREST OWNER NOTIFICATION:**

- 4. (R649-2-10) The **NEW** 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:**

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From Forest Oil Corporation (N6965) to Enduring Resources LLC (N2750)  
Effective 31-May-2013

Well Name	Sec	Township	Range	Well API Number	Utah Entity Number	Mineral Lease Type	Well Type	Well Status
FEDERAL 28-01	28	080S	250E	4304730098	10095	Federal	Dry Hole	Plugged & Abandoned
N HORSESHOE 13-20-6-22	20	060S	220E	4304738020	16441	Federal	Dry Hole	Plugged & Abandoned
ROCK HOUSE 11-31	31	100S	230E	4304733312	13984	Federal	Gas Well	Producing Well
ROCK HOUSE 6D-32	32	100S	230E	4304735409	14293	State	Gas Well	Producing Well
ROCK HOUSE 2D-36	36	100S	220E	4304735759	14357	State	Gas Well	Producing Well
ROCK HOUSE 2D-32	32	100S	230E	4304735760	14317	State	Gas Well	Producing Well
ROCK HOUSE 10D-32	32	100S	230E	4304735761	14318	State	Gas Well	Producing Well
ROCK HOUSE 12D-32	32	100S	230E	4304735762	14294	State	Gas Well	Producing Well
ROCK HOUSE 11-36	36	100S	220E	4304735900	14478	State	Gas Well	Producing Well
ROCK HOUSE 4-36	36	100S	220E	4304735901	14449	State	Gas Well	Producing Well
ROCK HOUSE 11-2	02	110S	230E	4304736153	14695	State	Gas Well	Producing Well
ROCK HOUSE 7-32-10-23	32	100S	230E	4304736306	14766	State	Gas Well	Producing Well
ROCK HOUSE 3-32-10-23	32	100S	230E	4304736307	14781	State	Gas Well	Producing Well
ROCK HOUSE 5-32-10-23	32	100S	230E	4304736410	14727	State	Gas Well	Producing Well
N WALKER HOLLOW 2-32-6-23	32	060S	230E	4304737399	15741	State	Gas Well	Shut-In well
N HORSESHOE 3-16-6-21	16	060S	210E	4304737391	15716	State	Gas Well	TA-Temporarily Abandoned

**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>SEE ATTACHED LIST</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:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: <b>Enduring Resources, LLC</b>		8. WELL NAME and NUMBER: <b>SEE ATTACHED LIST</b>
3. ADDRESS OF OPERATOR: 511 16th Street, Suite 700 CITY Denver STATE CO ZIP 80202		9. API NUMBER:
PHONE NUMBER: (303) 573-1222		10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: <u>5/31/2013</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input 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.

Utah State Bond #RLB0008031 - Operator No. N2750

Change of operator from Forest Oil Corporation to Enduring Resources, LLC effective 5/31/2013

Enduring Resources, LLC  
51116th Street, Suite 700  
Denver, Colorado 80202

Operator No. N2750  
Utah State Bond #RLB0008031

**RECEIVED**  
**JUN 04 2013**  
Div. of Oil, Gas & Mining

FOREST OIL CORPORATION

X *Scott Laverde*  
BY: Scott Laverde  
TITLE: Vice President **N6965**

DATE: 5/31/2013

NAME (PLEASE PRINT) Alex B. Campbell TITLE Vice President  
SIGNATURE *[Signature]* DATE 5/31/2013

(This space for State use only)

**APPROVED** \* Subject to Conditions of Approval.

(5/2000)

**JUN 18 2013**

(See Instructions on Reverse Side)

DIV. OIL GAS & MINING

BY: Zeke Clements for Rachel Medina.

\* Subject to Conditions of Approval

## CONDITIONS OF APPROVAL

## CONDITIONS OF APPROVAL

CONDITIONS OF APPROVAL for  
Change Of Operator  
from Forest Oil Corporation (N6965)  
to Enduring Resources, LLC (N2750)  
effective 31-May-2013

The Conditions Of Approval are applicable to the following 2 wells:

Well Name and No.	Well API Number	Section	Township	Range	Meridian
N WALKER HOLLOW 2-32-6-23	4304737399	32	6 South	23 East	SLB&M
N HORSESHOE 3-16-6-21	4304737391	16	6 South	21 East	SLB&M

The Conditions Of Approval are:

1. If the wells are not producing commercial quantities within 60 days, then an additional bond will be required from Enduring Resources LLC. This should be ongoing commercial production.
2. If the plan is to plug the well, then approved plugging sundries should be in place and the wells plugged by Enduring Resources LLC no later than September 15, 2013.
3. If Enduring Resources LLC plans to review the wells further, then the following is required by August 15, 2013:
  - a. Additional Bonding, and
  - b. Plan for Wells future, and
  - c. Completed MIT showing integrity

The plan for the wells future should be submitted on a sundry notice, with the MIT and a request for extended SI/TA (Shut-In/Temporarily Abandoned) status. Approval by the Division is required to keep wells in ongoing SI/TA status. These 2 wells have been in SI/TA status over 4 years, so good justification is needed for an extension.

Well Name	API Well Number	Lease Number	Well Status	Field Name	Surface Owners	Mineral Lease	County	Qtr/Qtr	Sec	Twn Rge	FNL/FSL	FEL/FWL
COYOTE BASIN 28-01	43-047-30098	UTU-16257	P & A	WILDCAT	Federal	Federal	UINTAH	SESE	28	8S-25E	851 S	1039 E
N HORSESHOE 13-20-6-22	43-047-38020	UTU-76768	DRY HOLE	WILDCAT	Federal	Federal	UINTAH	SWSW	20	6S-22E	984 S	760 W
ROCK HOUSE 11-31	43-047-33312	UTU-76281	Producing	NATURAL BUTTES	Federal	Federal	UINTAH	NESW	31	10S-23E	1980 S	1980 W
ROCK HOUSE 6D-32	43-047-35409	ML 47063	Producing	NATURAL BUTTES	State	State	UINTAH	SENE	32	10S-23E	1938 N	2121 W
ROCK HOUSE 2D-36	43-047-35759	ML 47061	Producing	NATURAL BUTTES	State	State	UINTAH	NWNE	36	10S-22E	1012 N	1654 E
ROCK HOUSE 2D-32	43-047-35760	ML 47063	Producing	NATURAL BUTTES	State	State	UINTAH	NWNE	32	10S-23E	932 N	2291 E
ROCK HOUSE 10D-32	43-047-35761	ML 47063	Producing	NATURAL BUTTES	State	State	UINTAH	NWSE	32	10S-23E	2367 S	1595 E
ROCK HOUSE 12D-32	43-047-35762	ML 47063	Producing	NATURAL BUTTES	State	State	UINTAH	NWSW	32	10S-23E	1611 S	951 W
ROCK HOUSE 11-36	43-047-35900	ML 46907	Producing	NATURAL BUTTES	State	State	UINTAH	NESW	36	10S-22E	2137 S	1801 W
ROCK HOUSE 4-36	43-047-35901	ML 47061	Producing	NATURAL BUTTES	State	State	UINTAH	NWNW	36	10S-22E	837 N	646 W
ROCK HOUSE 11-2	43-047-36153	ML 47078	Producing	ROCK HOUSE	State	State	UINTAH	NESW	2	11S-23E	2233 S	1863 W
ROCK HOUSE 7-32-10-23	43-047-36306	ML 47063	Producing	NATURAL BUTTES	State	State	UINTAH	SWNE	32	10S-23E	1866 N	2064 E
ROCK HOUSE 3-32-10-23	43-047-36307	ML 47063	Producing	NATURAL BUTTES	State	State	UINTAH	NENW	32	10S-23E	524 N	2151 W
ROCK HOUSE 5-32-10-23	43-047-36410	ML 47063	Producing	NATURAL BUTTES	State	State	UINTAH	SWNW	32	10S-23E	2405 N	852 W
N WALKER HOLLOW 2-32-6-23	43-047-37399	ML 47777	SHUT-IN	UNDESIGNATED	State	State	UINTAH	NWNE	32	6S-23E	581 N	1945 E
N HORSESHOE 3-16-6-21	43-047-37391	ML 49317	T/A	WILDCAT	State	State	UINTAH	NENW	16	6S-21E	825 N	2067 W

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JUN 04 2013  
Div. of Oil, Gas & Mining