

## HEITZMAN DRILL-SITE SERVICES

DALE HEITZMAN (1925-2002)

ROBERT M. ANDERSON

May 24, 2004

STATE OF UTAH  
 Department of Natural Resources  
 Division of Oil, Gas and Mining  
 P.O. Box 145801  
 Salt Lake City, Utah 84114-5801

RE: Request for Location Exception

Rock House #2D-32  
 932' FNL, 2291' FEL (NW¼NE¼)  
 Section 32, T10S, R23E, S.L.B.&M.  
 Uintah County, Utah  
 State of Utah Lease #ML-47063

Gentlemen;

Pursuant to Rule R649-3-3 (Exception to Location and Siting of Wells) of the Utah Administrative Code (UAC), The Houston Exploration Company (THEC) hereby requests administrative approval for a location exception for the Rock House #2D-32 well location. As indicated above, THEC proposes to drill the Rock House #2D-32 from a surface hole location of 932' FNL and 2291' FEL of Section 32 in Township 10 South, Range 23 East in Uintah County, Utah in order to test the productive potential of the Castlegate Formation at a total depth of 8050'.

Due to a combination of subsurface geologic considerations and surface topographic constraints, the proposed Rock House #2D-32 could not be staked within 200 feet of the center of the selected forty-acre tract as required under UAC R649-3-2. THEC owns or controls all of the mineral acreage within a 460 foot radius of the proposed Rock House #2D-32 and there are no producing wells within a 920 foot radius thereof.

Should you have any questions or require any additional information in this regard, please do not hesitate to give me a call at (307) 473-1268.

Sincerely,



Robert M. Anderson  
 Authorized Agent

RMA/ibm  
 Attachment

cc: Mr. Lloyd Bruce  
 The Houston Exploration Company  
 1100 Louisiana, Suite 2000  
 Houston, Texas 77002

RECEIVED

MAY 28 2004

DIV. OF OIL, GAS &amp; MINING

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

FORM 3

001

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: <b>ML-47063</b>	6. SURFACE: <b>State</b>
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Not Applicable</b>	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: <b>Not Applicable</b>	
2. NAME OF OPERATOR: <b>THE HOUSTON EXPLORATION COMPANY 1100 Louisiana, Suite 2000</b>		9. WELL NAME and NUMBER: <b>Rock House #2D-32</b>	
3. ADDRESS OF OPERATOR: CITY <b>Houston</b> STATE <b>TX</b> ZIP <b>77002</b> PHONE NUMBER: <b>713-830-6973</b>		10. FIELD AND POOL, OR WILDCAT: <del>Wildcat</del> <b>Natural Buttes</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>932' FNL, 2291' FEL (SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>) of Section 32</b> AT PROPOSED PRODUCING ZONE: <b>Same as above 4418911Y -109.34881</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> of Section 32 T10S, R23E, SLB&amp;M</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>Approximately thirty (30) miles southwest of Dinosaur, CO</b>		12. COUNTY: <b>Uintah</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>932'</b>	16. NUMBER OF ACRES IN LEASE: <b>640 acres</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40 acres</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>2100.33' +/-</b>	19. PROPOSED DEPTH: <b>8050'</b>	20. BOND DESCRIPTION: <b>Bond Number 104155043</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5161' GR</b>	22. APPROXIMATE DATE WORK WILL START: <b>September 1, 2004</b>	23. ESTIMATED DURATION: <b>30 days</b>	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12.250"	9.625" K-55 36.0#	0-2000'	Circulated to Surface
7.875"	5.500" N-80 17.0#	0-8050'	615 sx cement

25. **ATTACHMENTS**

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

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

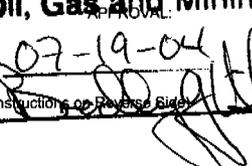
NAME (PLEASE PRINT) Robert M. Anderson TITLE Authorized Agent

SIGNATURE  DATE May 22, 2004

(This space for State use only)

API NUMBER ASSIGNED: 43-047-35760

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

Date: 07-19-04  
By: 

**RECEIVED**  
**MAY 28 2004**  
DIV OF OIL, GAS & MINING

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

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

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

N89°45'42"E - 2663.53' (Meas.)

2647.92' (G.L.O.)

N00°29'W - 2645.94' (G.L.O.)

N00°44'W - 2603.04' (G.L.O.)

2636.70' (G.L.O.)

N00°13'W - 2643.96' (G.L.O.)

**ROCKHOUSE #2D-32**

Elev. Ungraded Ground = 5161'

NOTE:  
THE PROPOSED WELL HEAD BEARS  
S21°03'10"E 996.38' FROM THE NORTH  
1/4 CORNER OF SECTION 32, T10S,  
R23E, S.L.B.&M.

32

T10S

N89°59'W - 2633.40' (G.L.O.) T11S

S89°58'W - 2638.02' (G.L.O.)

## LEGEND:

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

## BASIS OF BEARINGS

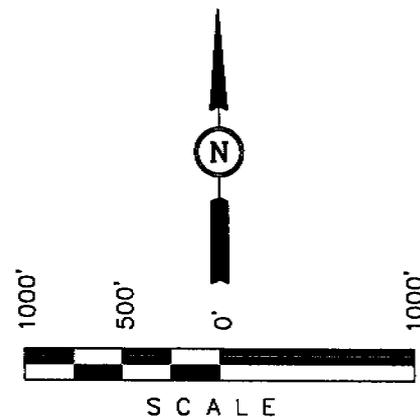
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.  
(AUTONOMOUS NAD 83)  
LATITUDE = 39°54'36.25" (39.910069)  
LONGITUDE = 109°20'58.26" (109.349517)

## THE HOUSTON EXPLORATION COMPANY

Well location, ROCKHOUSE #2D-32, located as shown in the NW 1/4 NE 1/4 of Section 32, T10S, R23E, S.L.B.&M. Uintah County, Utah.

## BASIS OF ELEVATION

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



## CERTIFICATE

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

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

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

SCALE 1" = 1000'	DATE SURVEYED: 12-9-03	DATE DRAWN: 12-16-03
PARTY J.F. A.F. C.G.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE THE HOUSTON EXPLORATION COMPANY	

THE HOUSTON EXPLORATION COMPANY  
 State of Utah Lease #ML-47063, Rock House #2D-32  
 SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ , Section 32, T10S, R23E  
 Uintah County, Utah

<b>DRILLING PROGNOSIS</b>
---------------------------

**1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS**

Uintah	Surface	Buck Tongue	7684'
Uteland Buttes	3384'	Castlegate	7748'
Wasatch	3465'	Mancos Shale	7964'
Mesaverde	5242'	Total Depth	8050'

**2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS**

Wasatch	3465'	Gas - Possible
Mesaverde	5242'	Gas - Possible
Castlegate	7748'	Gas - Primary Objective

Any shallow water zones encountered will be adequately protected and reported. All potentially productive hydrocarbon zones will be cemented off.

**3. PRESSURE CONTROL EQUIPMENT**

**A. Type:** Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The Blow-Out Preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. Kill line (2-inch minimum).
5. Two (2) kill line valves, one of which will be a check valve (2-inch minimum).
6. One 3-inch (minimum) choke line.
7. Two (2) choke line valves (3-inch minimum).
8. Two (2) adjustable chokes.
9. Pressure gauge on choke manifold.
10. Upper kelly cock valve with handle available.
11. Safety valve & subs to fit all drill strings in use.
12. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 3,000 psi

**C. Testing Procedure:**

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug).

### 3. PRESSURE CONTROL EQUIPMENT

#### C. Testing Procedure: Continued

Pressure will be maintained for a period of at least 10 minutes or until the requirements of the test are met, whichever is longer. At a minimum, the above pressure test will be performed:

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

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

#### D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

#### E. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with recommendations contained in API RP 53.

The choke manifold and BOP extension rods with hand wheels will be located outside the rig sub-structure. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

### 4. THE PROPOSED CASING AND CEMENTING PROGRAM

#### A. Casing Program: All New

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set
12.250"	9.625"	36.0#	K-55	ST&C	0 - 2000'
7.875"	5.500"	17.0#	N-80	LT&C	0 - 8050'

#### B. Cementing Program:

Surface Casing - *Lead* with approximately 218 sx Premium Lite II cement + additives mixed at 11.0 ppg (yield = 3.38 ft<sup>3</sup>/sx).

**4. THE PROPOSED CASING AND CEMENTING PROGRAM**

**B. Cementing Program: Continued**

Surface Casing - *Tail* with approximately 212 sx Class G cement + additives mixed at 15.6 ppg (yield = 1.20 ft<sup>3</sup>/sx). Cement will be circulated back to surface with 100% excess.

Production Casing - *Lead* with approximately 115 sx Premium Lite II cement + additives mixed at 11.0 ppg (yield = 3.38 ft<sup>3</sup>/sx).

*Tail* with approximately 500 sx 50/50 Poz Class G cement + additives mixed at 14.3 ppg (yield = 1.31 ft<sup>3</sup>/sx).

The above cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole gauge and will be determined by running a caliper log on the drilled hole.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

**5. MUD PROGRAM - Visual Monitoring**

Interval	Mud Type	Weight	Viscosity	Fluid Loss
0 - 2000'	Fresh Water	-----	-----	-----
2000 - 8050'	LSND	8.5 - 9.3	28 - 32	< 12 cc's

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

**6. EVALUATION PROGRAM**

Logs : DIL-FDC-BHC - from 8050' to 2000'  
 CNL-SP-CAL-GR \* - from 8050' to 2000'

\* Pull Gamma Ray Log Back to Surface

DST's : DST's will be run as warranted by logs and/or shows - none are scheduled at this time.

Cores : None anticipated.

The evaluation program may change at the discretion of the well site geologist.

## 7. ABNORMAL CONDITIONS

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

Maximum anticipated bottom hole pressure equals approximately 4,025 psi (calculated at 0.50 psi/foot) and maximum anticipated surface pressure equals approximately 2,254 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

## 8. ANTICIPATED STARTING DATE

Anticipated Commencement Date : September 1, 2004  
Drilling Days : Approximately 30 Days  
Completion Days : Approximately 15 Days

## 9. OTHER INFORMATION

1. A comprehensive cultural resources inventory has been conducted on the proposed Rock House #2D-32 well location and access road route. The subject inventory was conducted by John M. Scott/Metcalf Archaeological Consultants, Inc. (MAC) of Eagle, Colorado on April 13 and 14, 2004 and cultural clearance has been recommended for the subject proposal by Mr. Scott. A copy of the MAC report will be forwarded to your office upon immediately upon receipt thereof. Copies of the report have been forwarded directly to both Jim Dykman/UDSH Compliance Coordinator and Kenny Wintch/SITLA Archaeologist by MAC via regular mail.
2. Fresh water for use in drilling operations will be furnished by Target Trucking, Inc. of Vernal, Utah under existing Water Right Number 49-2169, Temporary Application Number T75184. Drilling water will be diverted from the White River at a point located approximately in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 31, T10S, R23E as approved in the subject *Application to Appropriate Water*.

Water will be transported over existing roads via tank truck from the point of diversion to the proposed Rock House #2D-32 well location. No new road construction will be required on/along the proposed water haul route.

## 10. PLANS FOR RECLAMATION OF THE SURFACE

### A. Producing Operations:

1. Backfilling, leveling and re-contouring are planned as soon as possible after cessation of drilling and completion operations. Waste and spoil materials will be disposed of immediately upon cessation of drilling and completion activities.
2. For production, the fill slopes will be reduced from a 1.5:1 slope to a 3:1 slope and the cut slopes will be reduced from a 2:1 slope to a 3:1 slope by pushing the fill material back up into the cut.

## 10. PLANS FOR RECLAMATION OF THE SURFACE

### A. Producing Operations: Continued

3. Upon completion of backfilling, leveling and recontouring, all disturbed surfaces (access road and well pad areas) will be scarified to a depth of one (1) foot and the stockpiled topsoil will be evenly redistributed to a depth of six (6) inches over the reclaimed area(s).
4. Prior to commencement of seeding operations, the seedbed will be prepared by disking on the contour to a depth of four (4) to six (6) inches. The entire disturbed area will be uniformly covered with depressions constructed perpendicular to the natural flow of water to facilitate the capture of moisture and subsequent promotion of revegetation success.
5. All disturbed surfaces (including the access road and well pad areas) will be reseeded using the following seed mixture (or a different mixture to be recommended by the Authorized Officer, Utah Division of Oil, Gas and Mining:

Species		Pounds Pure Live Seed (PLS) per Acre
Common Name	Scientific Name	
Siberian wheatgrass	<i>Agropyron frailie</i>	3.00
Russian wildrye	<i>Psathyrostachys juneca</i>	2.00
Indian ricegrass	<i>Stypia hymenoides</i>	1.00
Crested wheatgrass	<i>Agropyron cristatum</i>	2.00
Needleandthread grass	<i>Hesperostipia commata</i>	0.50
Thickspike wheatgrass	<i>Elymus lanceolauts</i>	2.50
Globe mallow	<i>Sphaeralcea coccinea</i>	0.25
Fourwing saltbush	<i>Atriples cansence</i>	2.00
Forage kochia	<i>Kochia postrata</i>	0.50
Winterfat	<i>Eurotia lanata</i>	1.00
Wyoming big sagebrush	<i>Artemesia tridentata</i>	0.50

6. Seed will be drilled on the contour with a seed drill equipped with a depth regulator in order to ensure even depths of planting. Seed will be planted between one-quarter (1/4) to one-half (1/2) inches deep.
7. Fall seeding will be completed after September 15<sup>th</sup> and prior to ground frost. If applicable, spring seeding will be completed after the frost has left the ground and prior to May 1<sup>st</sup>. The seeding will be repeated until a satisfactory stand, as determined by the UDOGM, is achieved. The first evaluation of growth will be made following the completion of the first growing season.
8. Re-seeding activities are considered best in the fall of 2005, unless otherwise requested by the Authorized Officer, UDOGM.

**10. PLANS FOR RECLAMATION OF THE SURFACE - Continued**

**B. Abandoned Well Location:**

1. Upon final abandonment of the well location, gravel will be removed from the access road surface and well location (as directed by the Authorized Officer), water diversion installed as needed, and both the access road and well location restored to approximately the original ground contour(s) by pushing the fill material back into the cut and up over the backslope.
2. Prior to commencement of seeding operations, the seedbed will be prepared by disking on the contour to a depth of four (4) to six (6) inches. All disturbed surfaces (including the access road and well pad areas) will be reclaimed and reseeded as recommended in Item #'s 10C3-7, above.

# UTAH DIVISION OF WATER RIGHTS

Select Related Information

**(WARNING: Water Rights makes NO claims as to the accuracy**

WRNUM: 49-2169 APPLICATION/CLAIM NO.: T75184 CERT. NO.:

OWNERSHIP\*\*\*\*\*

NAME: Target Trucking Inc.  
ADDR: 2960 North 500 East  
Vernal UT 84078  
LAND OWNED BY APPLICANT? No

DATES, ETC.\*\*\*\*\*

FILED: 11/20/2003 | PRIORITY: 11/20/2003 | PUB BEGAN: | PUB ENDED:  
ProtestEnd: | PROTESTED: [No ] | HEARNG HLD: | SE ACTION: [Approv  
EXTENSION: | ELEC/PROOF: [ ] | ELEC/PROOF: | CERT/WUC:  
RENOVATE: | RECON REQ: | TYPE: [ ]  
PD Book No. Map:  
Type of Right: Temporary Application Source of Info: Application to Appropri  
Related Distribution System: Not part of any Distribution System

LOCATION OF WATER RIGHT\*\*\*\*\*

FLOW: 4.0 acre-feet SOURCE: White River  
COUNTY: Uintah COMMON DESCRIPTION: 9 miles southwest of Bonanza

POINT OF DIVERSION -- SURFACE:  
(1) N 2750 ft E 800 ft from SW cor, Sec 31, T 10S, R 23E, SLBM  
Diverting Works: Pump into tank trucks for transport Source:

PLACE OF USE OF WATER RIGHT\*\*\*\*\*

	NORTH-WEST <sup>1</sup> / <sub>4</sub>	NORTH-EAST <sup>1</sup> / <sub>4</sub>	SOUTH-WEST <sup>1</sup> / <sub>4</sub>
	NW NE SW SE	NW NE SW SE	NW NE SW SE
ALL T 9S R 20E SLBM	*		
ALL T 9S R 21E SLBM	*		
ALL T 9S R 22E SLBM	*		
ALL T 9S R 23E SLBM	*		
ALL T 9S R 24E SLBM	*		
ALL T 9S R 25E SLBM	*		
ALL T 10S R 20E SLBM	*		
ALL T 10S R 21E SLBM	*		
ALL T 10S R 22E SLBM	*		
ALL T 10S R 23E SLBM	*		
ALL T 10S R 24E SLBM	*		
ALL T 10S R 25E SLBM	*		
ALL T 11S R 20E SLBM	*		
ALL T 11S R 21E SLBM	*		

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**USES OF WATER RIGHT**\*\*\*\*\*  
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CLAIMS USED FOR PURPOSE DESCRIBED: 2169

Referenced To:	Claims Groups: 1	Type of Referen
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###OIL EXPLORATION Drilling and completion of oil and gas wells

This is a temporary application to be used from November 21, 2003 til November 20, 2

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\*\*\*\*\*E N D O F D A T A\*\*\*\*\*

\*\*\*\*\*

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# THE HOUSTON EXPLORATION COMPANY

## ROCKHOUSE #2D-32

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

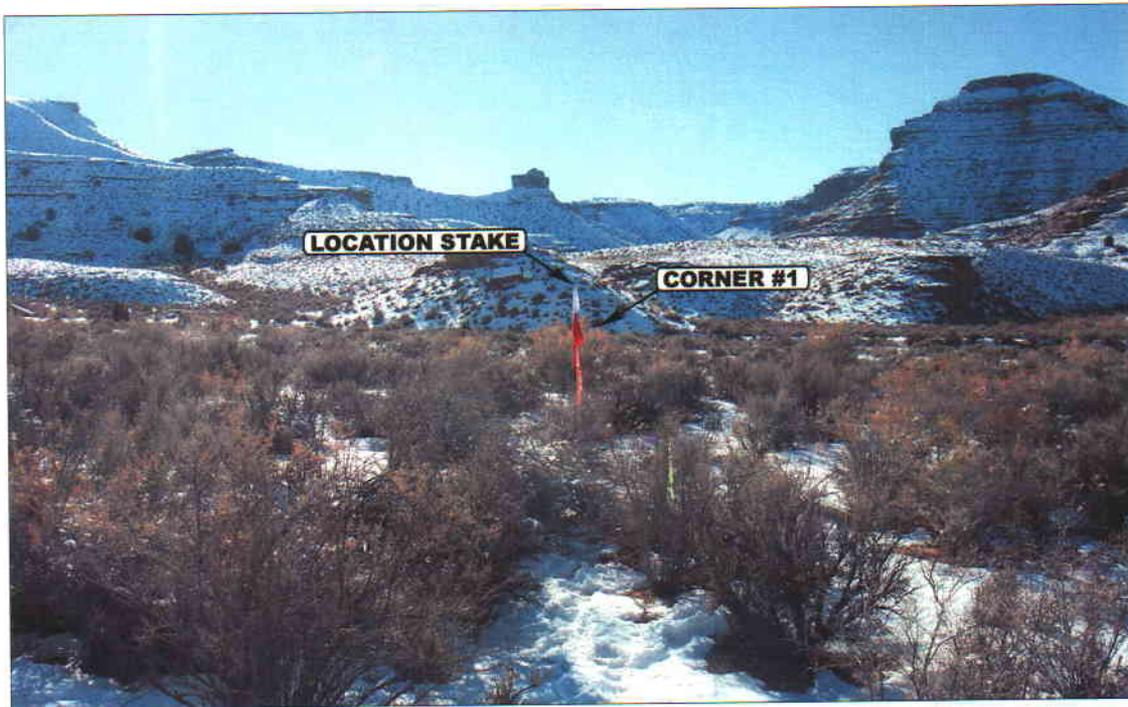


PHOTO: VIEW FROM LOCATION STAKE TO CORNER #1

CAMERA ANGLE: SOUTHWESTERLY

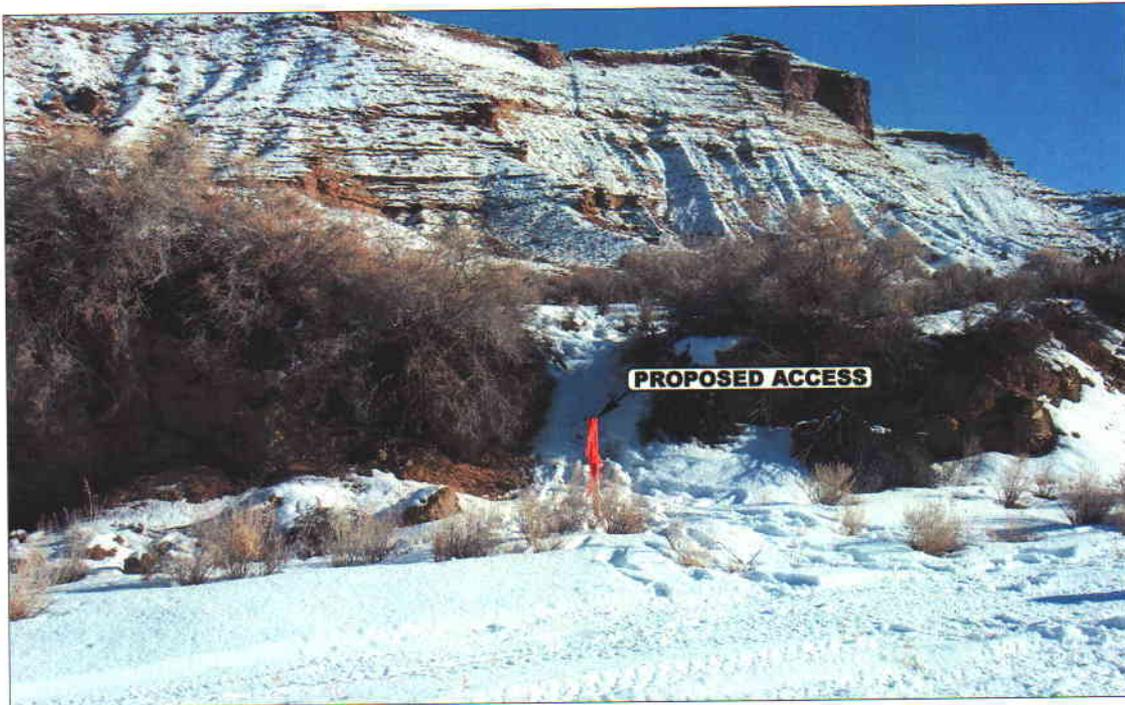


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

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

LOCATION PHOTOS

12 17 03  
MONTH DAY YEAR

PHOTO

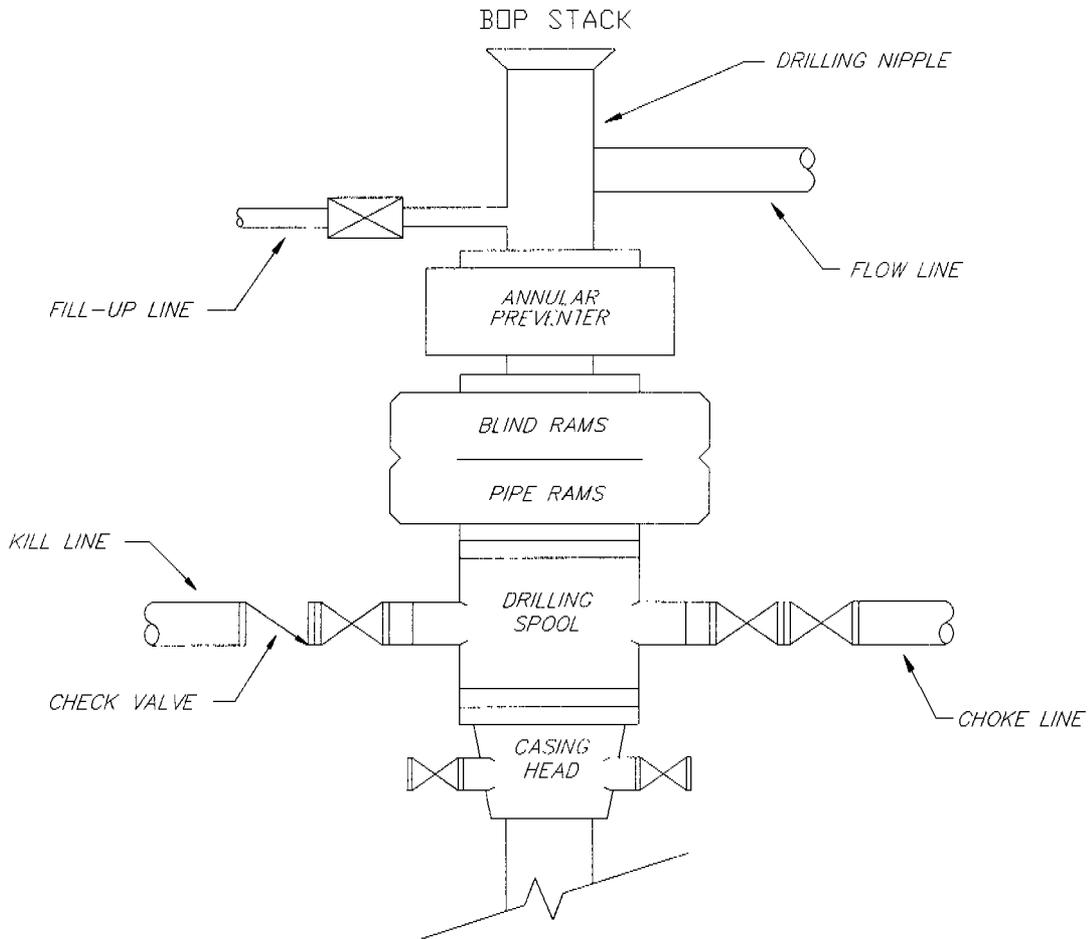
TAKEN BY: J.F.

DRAWN BY: P.M.

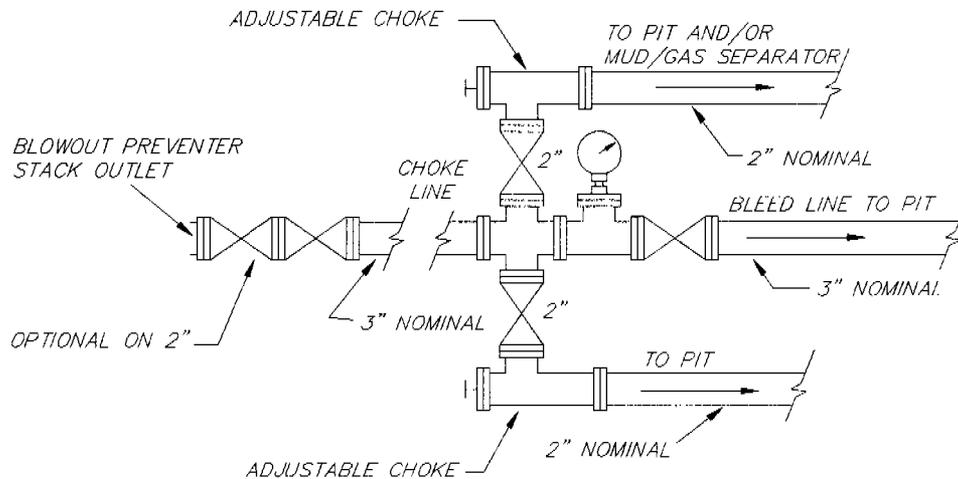
REVISED: 00-00-00

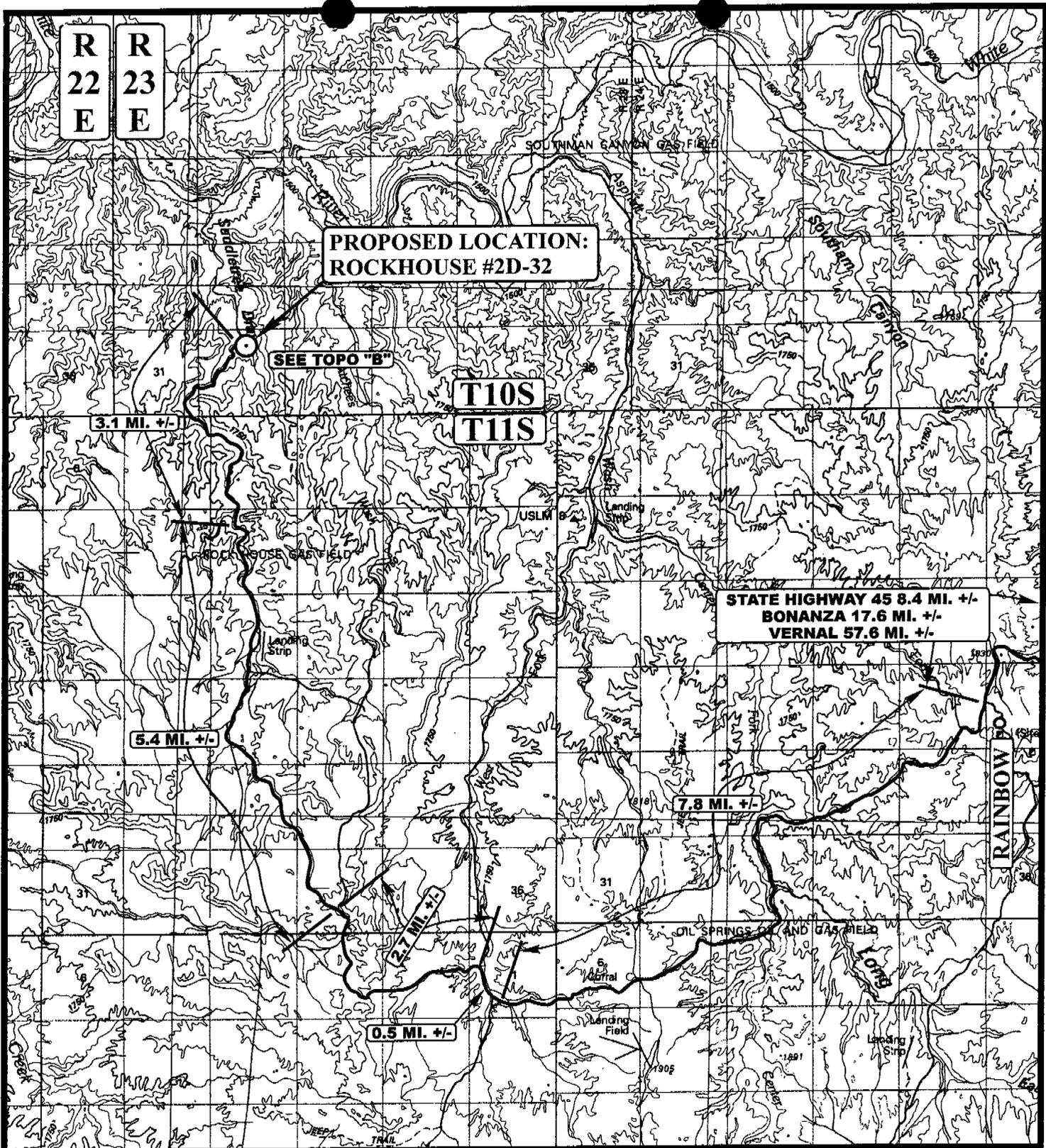
# THE HOUSTON EXPLORATION COMPANY

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



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





**PROPOSED LOCATION:  
ROCKHOUSE #2D-32**

**SEE TOPO "B"**

**T10S**

**T11S**

**3.1 MI. +/-**

**5.4 MI. +/-**

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

**7.8 MI. +/-**

**0.5 MI. +/-**

**2.2 MI. +/-**

**LEGEND:**

⊙ PROPOSED LOCATION

**THE HOUSTON EXPLORATION COMPANY**

**ROCKHOUSE #2D-32**

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

**932' FNL 2291' FEL**

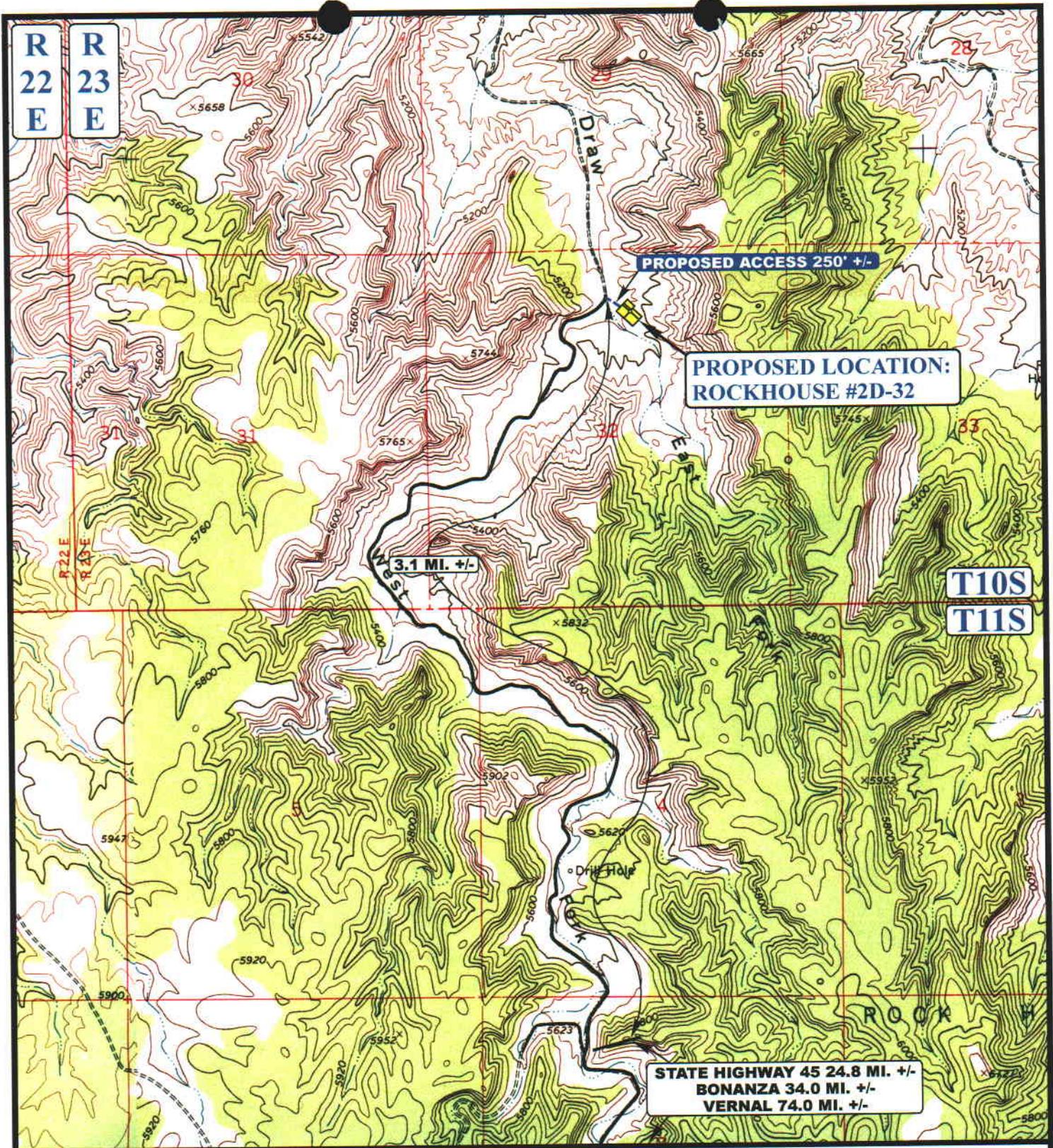


**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC** 12 17 03  
**MAP** MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: P.M. REVISED: 00-00-00





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



**THE HOUSTON EXPLORATION COMPANY**

**ROCKHOUSE #2D-32**  
 SECTION 32, T10S, R23E, S.L.B.&M.  
 932' FNL 2291' FEL



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

**TOPOGRAPHIC**  
**MAP**

<b>12</b>	<b>17</b>	<b>03</b>
MONTH	DAY	YEAR



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

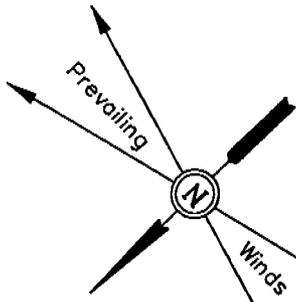
# THE HOUSTON EXPLORATION COMPANY

## LOCATION LAYOUT FOR

ROCKHOUSE #2D-32  
SECTION 32, T10S, R23E, S.L.B.&M.

932' FNL 2291' FEL

CONSTRUCT  
DIVERSION  
DITCH



C-18.8'  
El. 78.8'

C-12.1'  
El. 72.1'

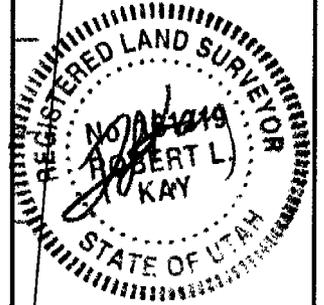
Sta. 3+30

SCALE: 1" = 50'  
DATE: 12-16-03  
Drawn By: C.G.

**NOTE:**

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

Approx. Top of Cut Slope



Pit T.S.  
GRADE  
El. 60.0'

C-0.7'  
El. 60.7'

Sta. 1+50

El. 61.1'  
C-13.1'  
(btm. pit)

C-1.5'  
El. 61.5'

Reserve Pit Backfill & Spoils Stockpile

15' WIDE BENCH / DIKE

Pit Capacity With 2' of Freeboard is ± 12,250 Bbls.

RESERVE PITS (12' Deep)

Sta. 0+18

SLOPE = 1-1/2 : 1

MUD TANKS

PUMP  
MUD SHED  
HOPPER  
POWER  
TOOLS  
FUEL

TRAILER  
TOILET  
FUEL

STORAGE TANK

Approx. Toe of Fill Slope

Sta. 0+00

El. 55.3'  
C-7.3'  
(btm. pit)

F-6.5'  
El. 53.5'

F-6.8'  
El. 53.2'

F-8.0'  
El. 52.0'

Proposed Access Road

**NOTES:**

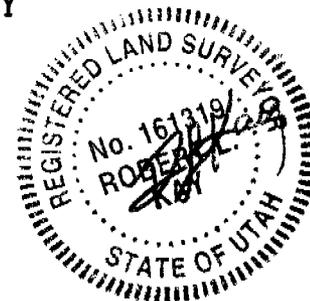
Elev. Ungraded Ground At Loc. Stake = 5160.7'

FINISHED GRADE ELEV. AT LOC. STAKE = 5160.0'

FIGURE #1

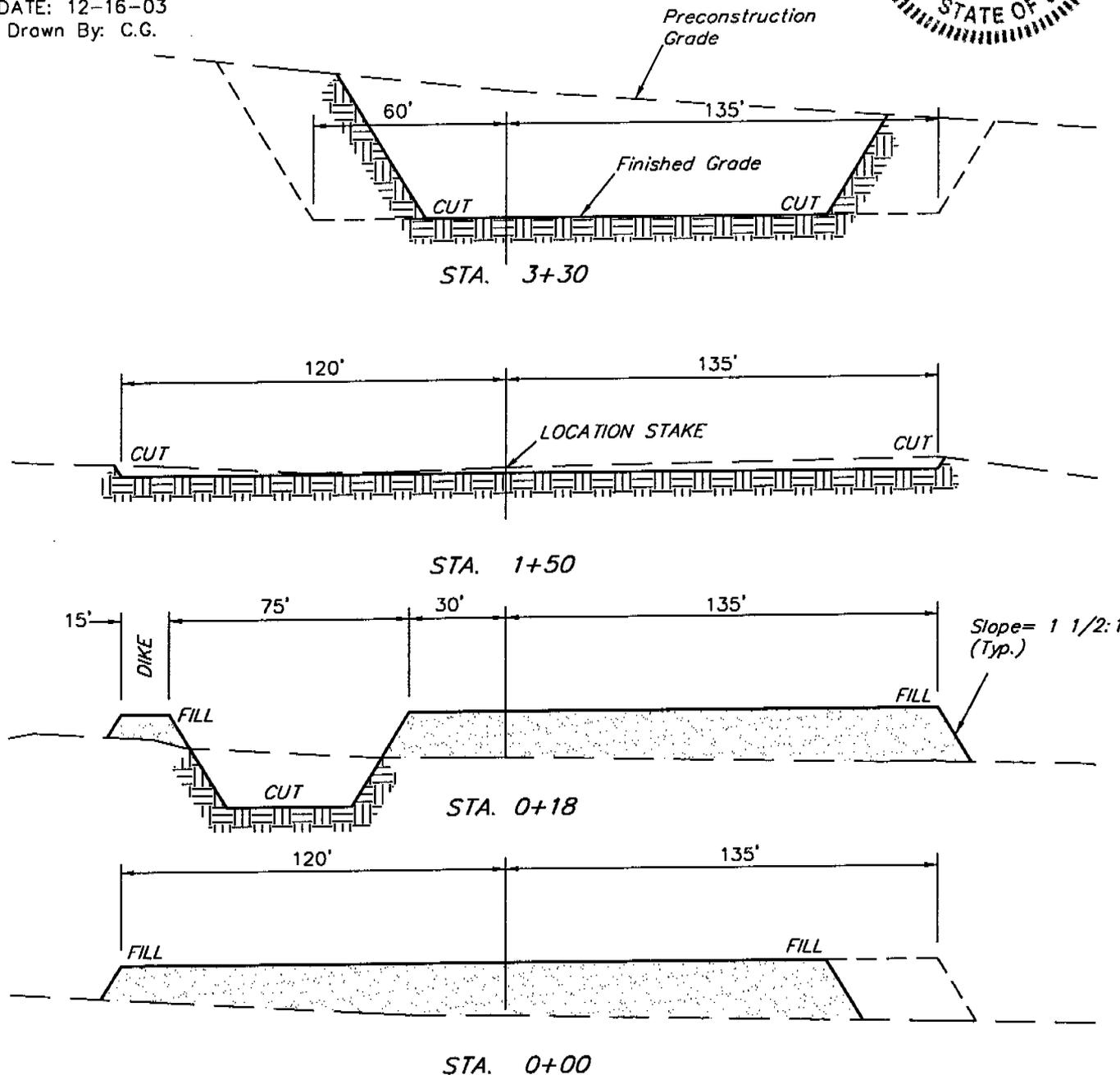
# THE HOUSTON EXPLORATION COMPANY

TYPICAL CROSS SECTIONS FOR  
 ROCKHOUSE #2D-32  
 SECTION 32, T10S, R23E, S.L.B.&M.  
 932' FNL 2291' FEL



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

DATE: 12-16-03  
 Drawn By: C.G.



**FIGURE #2**

**APPROXIMATE YARDAGES**

CUT		
(6") Topsoil Stripping	=	1,420 Cu. Yds.
Remaining Location	=	13,460 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>14,880 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>4,230 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	10,430 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,080 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	7,350 Cu. Yds.

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/28/2004

API NO. ASSIGNED: 43-047-35760

WELL NAME: ROCK HOUSE 2D-32

OPERATOR: HOUSTON EXPLORATION CO, ( N2525 )

CONTACT: ROBERT ANDERSON

PHONE NUMBER: 713-830-6973

PROPOSED LOCATION:

NWNE 32 100S 230E  
SURFACE: 0932 FNL 2291 FEL  
BOTTOM: 0932 FNL 2291 FEL  
UINTAH  
NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKED	7/16/04
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-47063 *nl*

SURFACE OWNER: 3 - State

PROPOSED FORMATION: CSLGT

COALBED METHANE WELL? NO

LATITUDE: 39.91043

LONGITUDE: 109.34881

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. 104155043 *nl* )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-2169 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- NA* Fee Surf Agreement (Y/N)

LOCATION AND SITING:

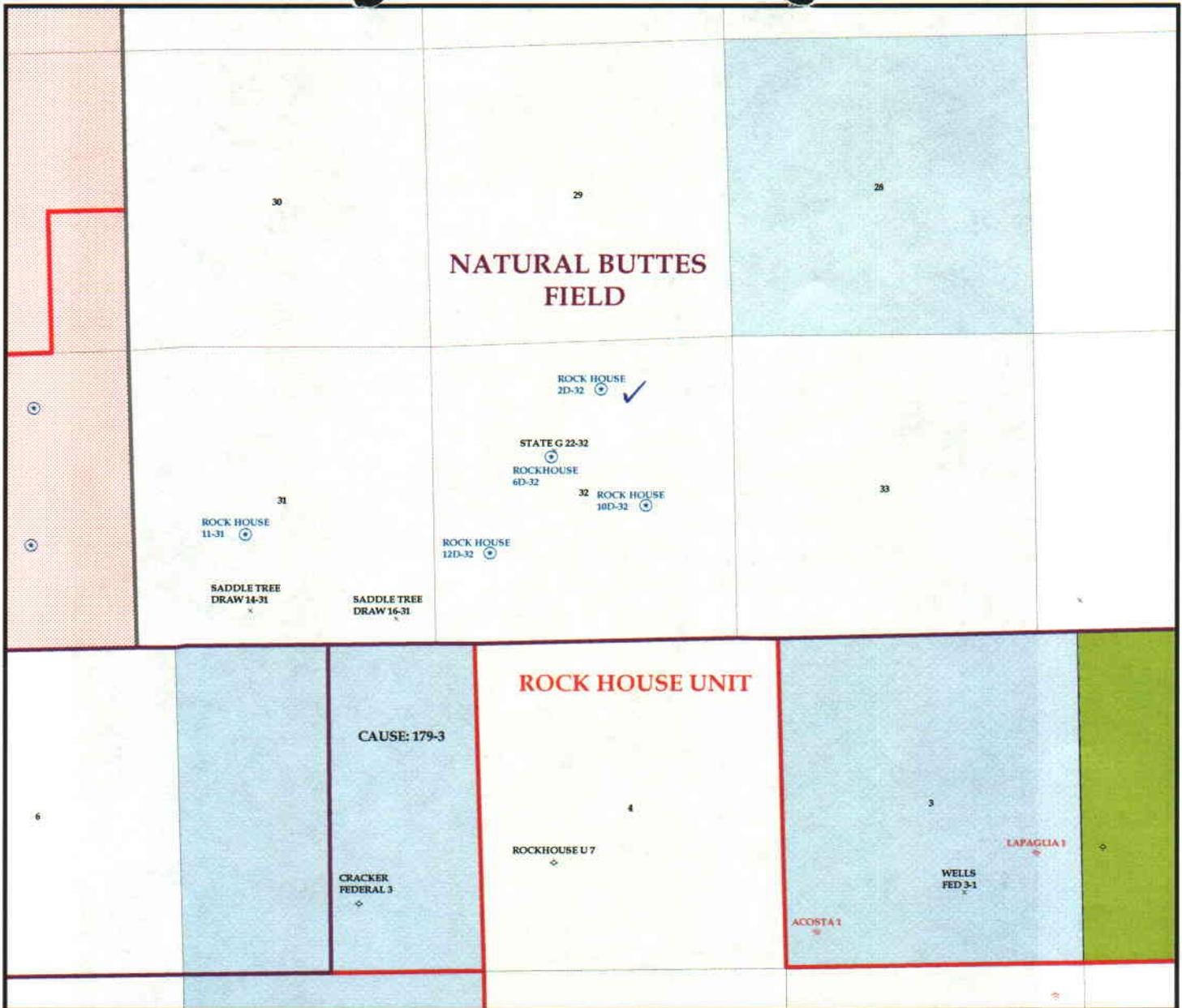
- R649-2-3.
- Unit \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS:

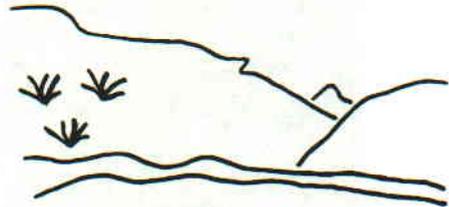
Needs Review (07-01-04)

STIPULATIONS:

- 1- Spacing Strip
- 2- Surface Csg Cmt Strip
- 3- 5 1/2" production csg Cmt should be brought up to 3300' min. to isolate watch fm.
- 4- STATEMENT OF BASIS



OPERATOR: HOUSTON EXPL CO (N2525)  
 SEC. 32 T.10S, R23E  
 FIELD: NATURAL BUTTES (630)  
 COUNTY: UINTAH  
 SPACING: R649-3-3 / EXCEPTION LOCATION



Utah Oil Gas and Mining

- Well Status**
- ⊕ GAS INJECTION
  - ⊙ GAS STORAGE
  - ✕ LOCATION ABANDONED
  - ⊕ NEW LOCATION
  - ⋄ PLUGGED & ABANDONED
  - ⋄ PRODUCING GAS
  - PRODUCING OIL
  - ⊖ SHUT-IN GAS
  - ⊖ SHUT-IN OIL
  - ✕ TEMP. ABANDONED
  - TEST WELL
  - △ WATER INJECTION
  - ⊕ WATER SUPPLY
  - ⊖ WATER DISPOSAL



PREPARED BY: DIANA WHITNEY  
 DATE: 8-JUNE-2004

**From:** Ed Bonner  
**To:** Whitney, Diana  
**Date:** 6/21/2004 11:06:45 AM  
**Subject:** Well Clearance

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

National Fuel Corporation  
Horse Point State 43-32

ChevronTexaco  
State of Utah "SS" 22-165

Westport Oil & Gas Company  
State 1022-32I (alternate location)  
State 1022-32M

The Houston Exploration Company  
Rock House 2D-36  
Rock House 2D-32  
Rock House 10D-32  
Rock House 12D-32  
Southman Canyon 8C-36  
Southman Canyon 14C-36  
Southman Canyon 16C-36

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

**CC:** Garrison, LaVonne; Hill, Brad; Hunt, Gil

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

**OPERATOR:** HOUSTON EXPLORATION COMPANY  
**WELL NAME & NUMBER:** ROCKHOUSE 2D-32  
**API NUMBER:** 43-047-35760  
**LOCATION:** 1/4,1/4 NW/NE Sec: 32 TWP: 10S RNG: 23E 2291' FEL 932' 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:** 07-07-04

**Surface:**

The predrill investigation of the surface was performed on 07/01/04. Floyd Bartlett with DWR and Ed Bonner with SITLA were invited to this investigation on 06/14/04. Mr. Bartlett was present. He had no concerns regarding the construction of this location or the drilling of the well. Mr. Bartlett gave Mr. Anderson a DWR approved seed mix to be used during pit reclamation and to re-seed access road shoulders. SITLA did not have a representative present, but Ed Bonner arrived after the investigation was finished. He said he would inspect the site in the afternoon. This site is on State surface, with State minerals, and appears to be the best site for a location in the immediate area. The northwest side of the reserve pit will have a 20' wide bench, and the top four to five feet of this bench will be fill. As this is the downhill side of the reserve pit, a felt sub-liner will be required in addition to the 12 mil plastic liner.

**Reviewer:** David W. Hackford **Date:** 07/06/2004

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

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

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

OPERATOR: THE HOUSTON EXPLORATION COMPANY  
WELL NAME & NUMBER: ROCKHOUSE 2D-32  
API NUMBER: 43-047-35760  
LEASE: ML-47063 FIELD/UNIT: NATURAL BUTTES  
LOCATION: 1/4,1/4 NW/NE Sec: 32 TWP: 10S RNG: 23E 2291' FEL 932' FNL  
LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.  
GPS COORD (UTM): 641139E 4418876N SURFACE OWNER: STATE OF UTAH

**PARTICIPANTS**

DAVID W. HACKFORD (DOGM). FLOYD BARTLETT (DWR). ROBERT ANDERSON (HOUSTON), ROBERT KAY (UELS).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

SITE IS IN THE BOTTOM OF THE WEST FORK OF SADDLETREE DRAW, 250' EAST OF THE DRY WATERCOURSE WHICH RUNS DOWN THIS DRAW. THIS DRAW RUNS TO THE NORTH AND ENTERS THE WHITE RIVER 1.4 MILES AWAY. AT THIS POINT, SADDLETREE DRAW HAS A RELATIVELY FLAT BOTTOM APPROX. 600' WIDE WITH STEEP AND RUGGED RIDGES TO THE EAST AND WEST. THE SLOPES OF THESE RIDGES HAVE NUMEROUS SANDSTONE OUTCROPPINGS AND SHEER CLIFFS AND LEDGES.

**SURFACE USE PLAN**

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING, HUNTING.

PROPOSED SURFACE DISTURBANCE: LOCATION WILL BE 330' BY 240'. ACCESS ROAD WILL BE 250 FEET.

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 BE SURVEYED AND PERMITTED AT A LATER DATE IF NEEDED.

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

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

**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, GREASEWOOD, HORSEBRUSH, PRICKLY PEAR, SHADSCALE, SPINEY HOPSAGE, JUNIPER, CHEATGRASS, SALTBRUSH: RABBITS, COYOTE, DEER, ANTELOPE, RODENTS, RAPTORS, SONGBIRDS, BOBCAT.

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: 147' BY 75' AND 12' DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A 12 MIL LINER AND A 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 WAS INSPECTED BY METCALF ARCHEOLOGICAL CONSULTANTS. A REPORT OF THIS INVESTIGATION WILL BE PLACED ON FILE.

OTHER OBSERVATIONS/COMMENTS

THIS PREDRILL INVESTIGATION WAS CONDUCTED ON A HOT, SUNNY DAY.

ATTACHMENTS:

PHOTOS OF THIS SITE WERE TAKEN AND PLACED ON FILE.

DAVID W. HACKFORD  
DOGM REPRESENTATIVE

7/01/04, 12:15 PM  
DATE/TIME

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

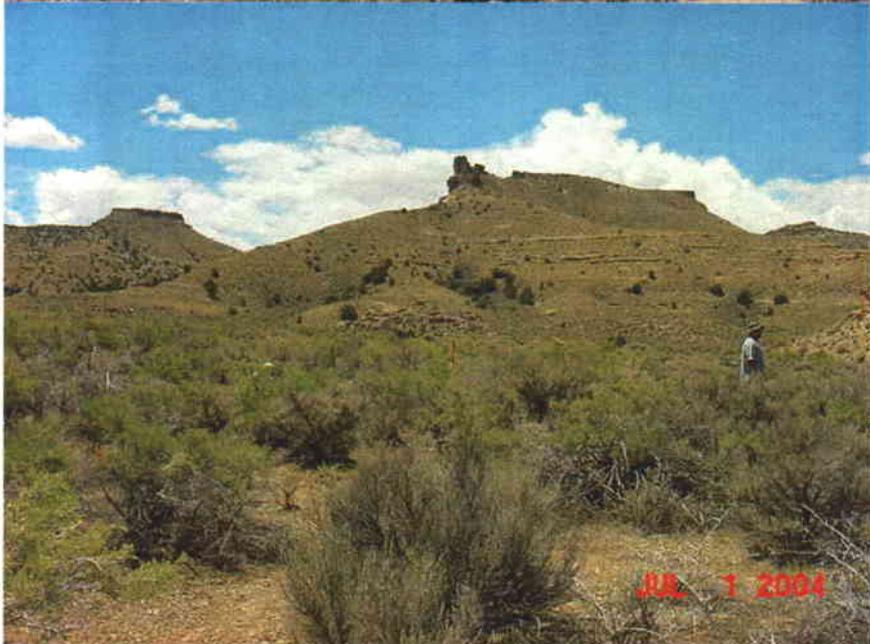
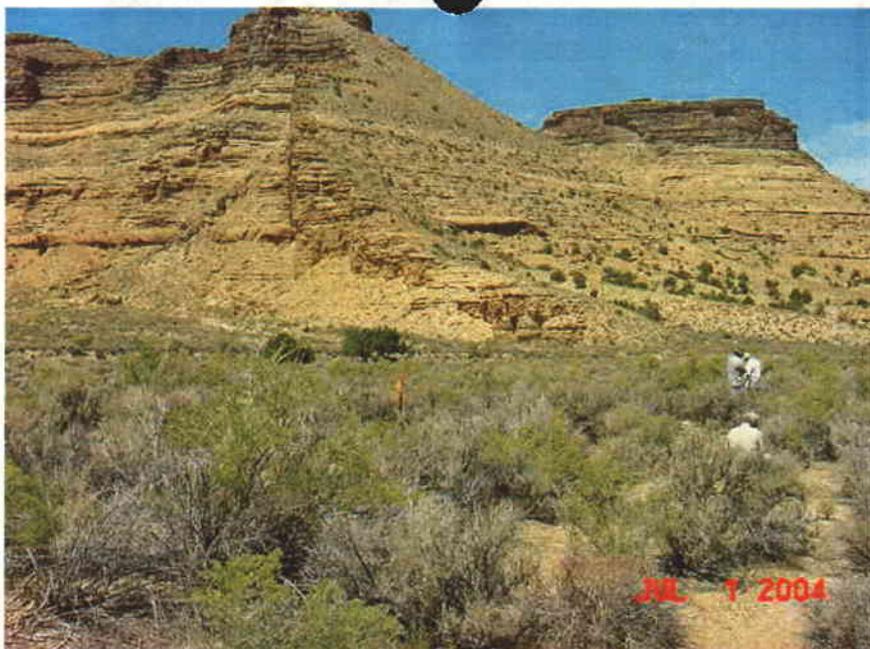
<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>5</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest 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>10</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>0</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>

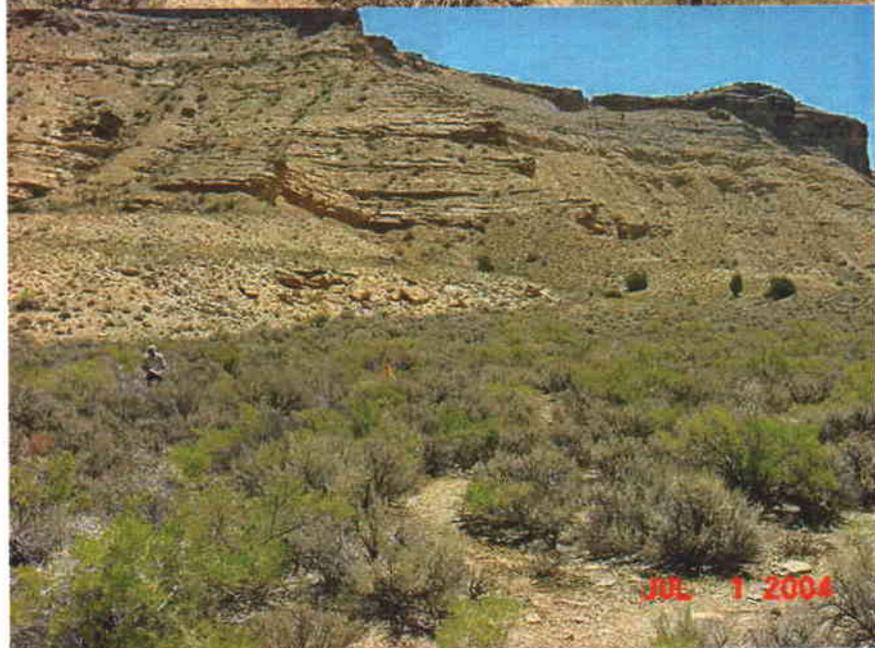
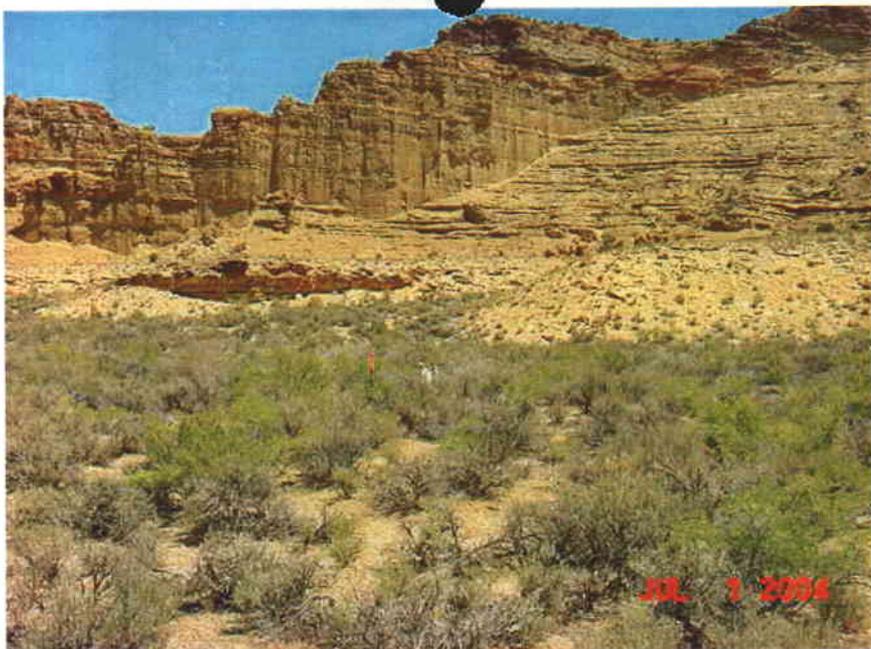
**Final Score**      20      (Level I Sensitivity)

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.





# 07-04 Houston Rock House 2D-32

## Casing Schematic

Green River

Surface

Surface STIP

9-5/8"  
MW 8.4  
Frac 19.3

BHP

$$(.052)(8050)(9.3) = 3892$$

Anticipate 4025 (max)

Gas

$$(.12)(8050) = 966$$

$$MASP = 2926$$

BOPE - 3,000 ✓

Surf csg - 3520  
70% = 2464

Test to 2400 psi ✓

Adequate DWD  
7/16/04

5-1/2"  
MW 9.3

Production  
8050. MD

TOC @  
437.

w/ 18% Washout  
108 → Surface

1599  
TOC Tail

Surface  
2000. MD

TOC STIP ≈ 3300  
protect absatch

3465 Wasatch

4200 Bmsw

TOC @  
4353.

5242 Mesaverde

w/ 15% Washout  
78 → TOC 3354'

5730 TOC Tail

7748 Castlegate

Well name:	<b>07-04 Houston Rock House 2D-32</b>	
Operator:	<b>The Houston Exploration Company</b>	
String type:	Surface	Project ID: 43-047-35760
Location:	Uintah County	

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 1,760 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP: 2,000 psi  
  
No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

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

Tension is based on buoyed weight.  
Neutral point: 1,751 ft

**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: 437 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 8,050 ft  
Next mud weight: 9.300 ppg  
Next setting BHP: 3,889 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	9.625	36.00	K-55	ST&C	2000	2000	8.765	142.4

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	2020	2.315	2000	3520	1.76	63	423	6.71 J

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

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

Date: July 9,2004  
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>07-04 Houston Rock House 2D-32</b>		Project ID:
Operator:	<b>The Houston Exploration Company</b>		43-047-35760
String type:	Production		
Location:	Uintah County		

**Design parameters:**

**Collapse**

Mud weight: 9.300 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 2,923 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP: 3,889 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

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

Tension is based on buoyed weight.  
 Neutral point: 6,915 ft

**Environment:**

H2S considered? No  
 Surface temperature: 65 °F  
 Bottom hole temperature: 178 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: 4,353 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8050	5.5	17.00	N-80	LT&C	8050	8050	4.767	277.4

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	3889	6290	1.617	3889	7740	1.99	118	348	2.96 J

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

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

Date: July 9,2004  
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8050 ft, a mud weight of 9.3 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.



State of Utah

Department of  
Natural Resources

ROBERT L. MORGAN  
*Executive Director*

Division of  
Oil, Gas & Mining

LOWELL P. BRAXTON  
*Division Director*

OLENE S. WALKER  
*Governor*

GAYLE F. McKEACHNIE  
*Lieutenant Governor*

July 19, 2004

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

Re: Rock House #2D-32 Well, 932' FNL, 2291' FEL, NW NE, 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-047-35760.

Sincerely,

John R. Baza  
Associate Director

jc  
Enclosures

cc: Uintah County Assessor  
SITLA

**Operator:** The Houston Exploration Company

**Well Name & Number** Rock House #2D-32

**API Number:** 43-047-35760

**Lease:** ML-47063

**Location:** NW NE      **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)

6. Surface casing shall be cemented to the surface.

7. 5½" production casing cement should be brought up to 3300' min. to isolate Wasatch Formation.

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

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

FORM 6

007

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) 830-6890

Well 1

API Number	Well Name	QC	Sec	Twp	Rng	County
43-047-35760	Rock House 2D-32	NWNE	32	10S	23E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
A	99999	14317	8/28/04		10/6/04	
Comments: <u>CSLGT</u>						

Well 2

API Number	Well Name	QC	Sec	Twp	Rng	County
43-047-35761	Rock House 10D-32	NWSE	32	10S	23E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
A	99999	14318	9/20/04		10/06/04	
Comments: <u>CSLGT</u>						

Well 3

API Number	Well Name	QC	Sec	Twp	Rng	County
43-047-35622	Bonanza 4D-16	NWNW	16	9S	24E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
A	99999	14319	9/12/04		10/6/04	
Comments: <u>CSLGT</u>						

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 9/27/04  
 Title Date

RECEIVED  
SEP 27 2004

DIV. OF OIL, GAS & MINING

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: THE HOUSTON EXPLORATION COMPANY

Well Name: ROCK HOUSE 2D-32

Api No: 43-047-35760 Lease Type: STATE

Section 32 Township 10S Range 23E County UINTAH

Drilling Contractor PETE MARTIN'S RIG # BUCKET

**SPUDDED:**

Date 08/28/04

Time \_\_\_\_\_

How DRY

**Drilling will commence:** \_\_\_\_\_

Reported by KENNETH NIELSON

Telephone # 1

Date 09/13/2004 Signed CHD

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

FORM 9

008

**SUNDRY NOTICES AND REPORTS ON WELLS**

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML 47063

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
Rock House 2D-32

9. API NUMBER:  
4304735760

10. FIELD AND POOL, OR WILDCAT:  
Wildcat

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

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

2. NAME OF OPERATOR:  
The Houston Exploration Company

3. ADDRESS OF OPERATOR:  
1100 Louisiana, Ste 2000 Houston TX 77002

PHONE NUMBER:  
(713) 830-6938

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 932' FNL & 2291' FEL  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 32 10S 23E

COUNTY: Uintah

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> 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.

11/1/04 - 11/30/04 Spud & drld to 2070'. Ran 8 5/8" csg, set @ 2044' & cmt. Drld to 7290'. Ran 4 1/2" csg, set @ 7269' & cmt. Log. Perf 7010'-7178' & frac w/ 170000# 20/40 sd. Perf 6510'-6730' & frac w/ 213500# 20/40 sd. Flow back on 10/64"-20/64" ck, 1.3-2.7 MMCF, 15-33 BW. Perf 4993'-5162'.

NAME (PLEASE PRINT) Theresa Overturf

TITLE Engineering Technician

SIGNATURE 

DATE 12/2/2004

(This space for State use only)

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DEC 06 2004

DIV. OF OIL, GAS & MINING

009

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

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

5. LEASE DESIGNATION AND SERIAL NUMBER: ML 47063

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER: Rock House 2D-32

9. API NUMBER: 4304735760

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 932' FNL & 2291' FEL COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 32 10S 23E 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 checked="" type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	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.

12/1/04-12/31/04 Perf correction 4993'-5062'. Flwd on 14/64"-16/64" Ck, 1000-1150 psi, 1.5-1.7 MMVD, 0 BW. Install surface equipment. Well producing 12/11/04.

NAME (PLEASE PRINT) Theresa Overturf TITLE Engineering Technician

SIGNATURE *Theresa Overturf* DATE 1/5/05

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

010

**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 \_\_\_\_\_

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
7. UNIT or GA AGREEMENT NAME:  
8. WELL NAME and NUMBER:  
9. API NUMBER:  
10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL COUNTY: Uintah STATE: UTAH

FOOTAGES AT SURFACE:  
TRACT, SECTION, TOWNSHIP, RANGE, MERIDIAN:

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"/> COMINGLE 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.

Please hold all information on the following wells confidential:  
Rock House 2D-32 - T10S, R23E S-32, 43-049-35760  
Rock House 2D-36  
Rock House 6D-32  
Rock House 10D-32  
Rock House 12D-32  
Bonanza 4D-16

RECEIVED  
JAN 11 2005  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Theresa Overturf TITLE Engineering Technician

SIGNATURE *Theresa Overturf* DATE 1/11/2005

(This space for State use only)

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

AMENDED REPORT  FORM 8  
(highlight changes)

011

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**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML 47063

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
Rock House 2D-32

2. NAME OF OPERATOR:  
The Houston Exploration Company

9. API NUMBER:  
43-047-35760

3. ADDRESS OF OPERATOR:  
1100 Louisiana, Ste 2000 CITY Houston STATE TX ZIP 77002

PHONE NUMBER:  
713-830-6938

10 FIELD AND POOL, OR WILDCAT  
Wildcat

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 932' FNL & 2291' FEL  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
AT TOTAL DEPTH:

11. QTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
NWNE Sec 32, T10S, R23E

12. COUNTY: Uintah 13. STATE: UTAH

14. DATE SPURRED: 11/7/04 15. DATE T.D. REACHED: 11/13/04 16. DATE COMPLETED: 12/1/04  
ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
5160.3' GL

18. TOTAL DEPTH: MD 7289' TVD

19. PLUG BACK T.D.: MD 7224' TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
CALICV  
Platform Express AZ/RC/GR  
PE/TRIPLE COMBO

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 (#/L)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
16"	13 3/8"	48#	Surface	75'				Surface	
11"	8 5/8"	24#	Surface	2044'		505 sx		Surface	
7 7/8"	4 1/2"	11.60#	Surface	7269'		220 sx Prem Lt		250'	
						1264 sx C. G			

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"	7143'							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Mesaverde	4993'	5162'		
(B) Mesaverde	6510'	6730'		
(c) Mesaverde	7010'	7178'		
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
4993'/5162'		93	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
6510'/6730'		132	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
7010'/7178'		72	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
6510'-6730'	213,500# 20/40 sd
7010'-7178'	170,000# 20/40 sd

**RECEIVED**  
**JAN 28 2005**

29. ENCLOSED ATTACHMENTS:  
 ELECTRICAL/MECHANICAL LOGS  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  
 GEOLOGIC REPORT  
 CORE ANALYSIS  
 DST REPORT  
 OTHER: \_\_\_\_\_

30. WELL STATUS:  
Producing

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 12/11/04		TEST DATE: 11/27/04		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 0	GAS - MCF: 3400	WATER - BBL: 22	PROD. METHOD: Flow
CHOKE SIZE: 20/64"	TBG. PRESS.	CSG. PRESS. 1375	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 3400	WATER - BBL: 22	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 Butte	3154'
				Wasatch	3236'
				Mesaverde	5042'

35. ADDITIONAL REMARKS (Include plugging procedure)

PLEASE KEEP WELL INFORMATION CONFIDENTIAL

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

NAME (PLEASE PRINT) Lloyd Bruce TITLE Senior Operations Engineer  
 SIGNATURE *Lloyd Bruce* DATE 1/17/05

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

5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47063</b>
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
8. WELL NAME and NUMBER: <b>Rock House 2D-32</b>
9. API NUMBER: <b>4304735760</b>
10. FIELD AND POOL, OR WILDCAT:

**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 _____	
2. NAME OF OPERATOR: <b>The Houston Exploration Company</b>	
3. ADDRESS OF OPERATOR: 1100 Louisiana Suite 2000 CITY: <b>Houston</b> STATE: <b>TX</b> ZIP: <b>77002</b>	PHONE NUMBER: <b>(713) 830-6800</b>

4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>932' FNL &amp; 2291' FEL</b>	COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 32 10S 23E</b>	STATE: <b>UTAH</b>

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

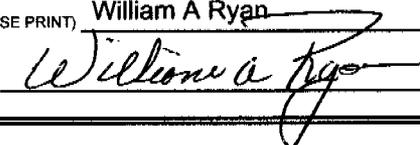
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate) Approximate date work will start: _____  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE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

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

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

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

**RECEIVED**  
**MAY 24 2005**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>William A Ryan</u>	TITLE <u>Agent</u>
SIGNATURE 	DATE <u>5/19/2005</u>

(This space for State use only)

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**

**FROM: (Old Operator):**

N2525 - The Houston Exploration Company  
 1100 Louisiana, Suite 2000  
 Houston, TX 77002

Phone: 1-(713) 830-6800

**TO: (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
- a. Is the new operator registered in the State of Utah: Business Number: 571171-0143
- b. If **NO**, the operator was contacted on: \_\_\_\_\_
- a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: \_\_\_\_\_
- c. 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 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")** 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
- a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 6218963
- b. 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:

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

9. API NUMBER:  
**various**

10. FIELD AND POOL, OR WILDCAT:

**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 \_\_\_\_\_

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

3. ADDRESS OF OPERATOR:  
707 17th Street, #3600 CITY **Denver,** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 812-1755**

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"/> DEEPEEN	<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

*JCR*  
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**  
DIV OF OIL, GAS & MINING *WMP*

(5/2000)

(See Instructions on Reverse Side)

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:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: <b>Forest Oil Corporation</b>		8. WELL NAME and NUMBER: <b>Rock House 2D-32</b>
3. ADDRESS OF OPERATOR: 707 17th St. Ste 3600      CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		9. API NUMBER: <b>4304735760</b>
		10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>932' FNL &amp; 2291' FEL</b>		COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 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"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>Weed Control</u>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <b>6/30/2009</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 6/30/2009 and applied 20 Gallons of weed control spray at 1:30. Please see attached invoice that covers all of the wells listed, along with a copy of the Pesticide Application Report.

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

(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>	\$2,018.63
(970) 247-9778	(970) 385-0967	pwc@animas.net		

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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

*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



Services	<i>R</i>
Land & Minerals	<input checked="" type="checkbox"/>
NEPA	
Renewables	
IN REPLY TO: 9015	REFER TO: (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>

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  $\leq 10$  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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DIV. OF OIL, GAS & MINING

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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FEB 24 2010

DIV. OF OIL, GAS & MINING

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

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FEB 24 2010

**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 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  
1.5 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 **DIV. 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 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.: 4001-1-4068 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: Craig 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" 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 w/ 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.

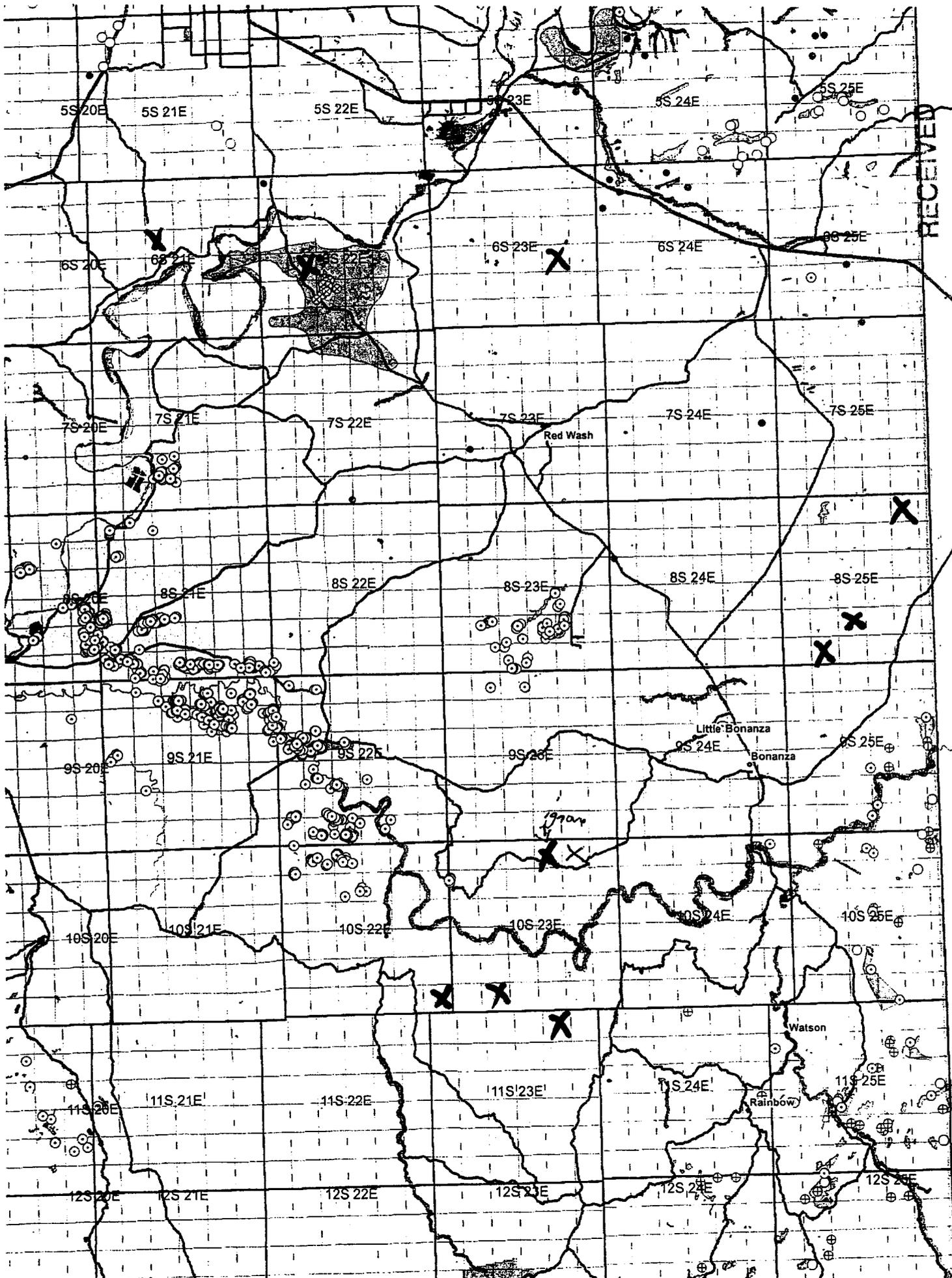
"Originator" refers to the company which needs herbicides applied—e.g., Basin Oil, Inc.  
 "Applicator" refers to the company which will apply the herbicide—e.g., Basin Annihilo-Weed, Inc.

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  
11-1051177-6

**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:

Site Name:  
 Weed Site #  
 Applicator:

Quad #                       
 DIV. OF OIL, GAS & MINING

Complex                      %

Address:  
 License No.:

Phone #                     

Watershed                     

County:

Allotment:                     

Aerial Photo #

Quad Name(s):                     

Slide Photo

Location T.    , R.    , Sec.    ,  $\frac{1}{4}$       $\frac{1}{4}$     

GPS Reading

WEED SPECIES	P h e n o l o g y	C o v e r  C l a s s e	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:					
	Acres treated:					
<b>WEATHER</b>	Acres on site:					
Wind speed:	<b>MECHANICAL TREATMENT (circle one)</b>					
Direction:	Hand pull, hand tool, clip seed heads					
Temperature:	Plow, other					
<b>PEST TREATMENT (circle one)</b>	<b>BIOLOGICAL TREATMENT</b>					
crop, seeded, native, roadside, agriculture, reservoir bank, oil well, other	Bio Agent:					
<b>WEED TREATMENT DATA</b>	Method applied:					
Date:	<b>Monitoring</b>					
Recovery Species	Original treatment					
	Original Acres					
<b>EQUIPMENT TYPE (circle one)</b>	Follow-up					
Power Boom, Power hand	Photo point					
Backpack, ATV	Photo #					
Aerial	<b>Veg Study</b>					
<b>TREATMENT METHOD (circle one)</b>	Frequency, Cover, Step point					
Pesticide, Mechanical, Biological	<b>Site Recovery Needs</b>					
Trade Name:	Grazing deferment yn					
Width Track:	Vegetative seed yn					
Weed Ac. Est.	Method seed					
Ac. Inventoried:	Hand broadcast, Spreader ATV, Drill, Disc, Other					
<b>Site Characteristics</b>	<b>FORMULATION (circle one)</b>					
	Liquid, Powder, Granular					
Elevation:	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>						

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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
					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	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 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						

**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

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DIV. OF OIL, GAS & MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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.

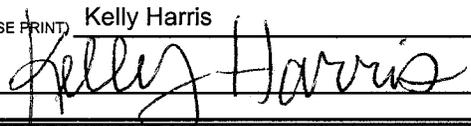
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47063</b>
2. NAME OF OPERATOR: <b>Forest Oil Corporation</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 707 17th Street, Ste 3600 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 932' FNL & 2291' FEL COUNTY: Uintah		8. WELL NAME and NUMBER: <b>Rock House 2D-32</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 32 10S 23E STATE: UTAH		9. API NUMBER: <b>4304735760</b>
		10. FIELD AND POOL, OR WILDCAT:

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>7/2/2009</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>Weed Control</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 7/2/2009 at 12:58. 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) <u>Kelly Harris</u>	TITLE <u>Regulatory Tech</u>
SIGNATURE 	DATE <u>3/17/2010</u>

(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	4,331.25T
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				
<b>Phone #</b>	<b>Fax #</b>	<b>E-mail</b>		<b>Total</b> \$4,547.81
(970) 247-9778	(970) 385-0967	pwc@animas.net		

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

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	11-31	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	NWSW 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	SEnw 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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MAR 23 2010

DIV. OF OIL, GAS & MINING

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

RECEIVED

MAR 23 2010

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United States Department of the Interior



Services	R
Land Use & Minerals	✓
NEPA	
Recreation	
Wildlife	
Public Lands	
Other	
BUREAU OF LAND MANAGEMENT VERNAL UT-4	
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>

IN REPLY REFER TO:

9015 (UT-933)

JUL 29 2009

Memorandum

To: Vernal Field Manager

From: Deputy State Director, Natural Resources

Subject: Pesticide Use Proposal Approvals

RECEIVED  
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  $\leq 10$  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.

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

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

**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 VELS  
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., Cus 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 H...* Date: 6/4/09  
State Coordinator signature: *Sue 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 70EG > 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)

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



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

Weed Management Area:  
 Vegetation/Community Type:

Complex

%

Watershed

Allotment:

Quad Name(s):

Location T. , R. , Sec. , ¼ ¼

GPS Reading

Site Name:

Weed Site #

Applicator:

Address:

License No.:

County:

Aerial Photo #

Slide Photo

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

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

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	
					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	<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
<b>Site Characteristics</b>					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>						

**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
<b>Site Characteristics</b>					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

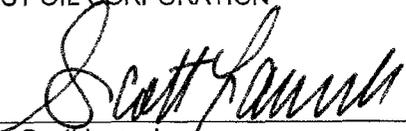
Change of operator from Forest Oil Corporation to Enduring Resources, LLC effective 5/31/2013

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

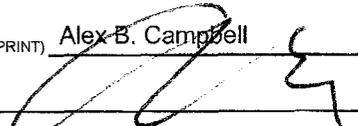
Operator No. N2750  
Utah State Bond #RLB0008031

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

FOREST OIL CORPORATION

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

DATE: 5/31/2013

NAME (PLEASE PRINT) Alex B. Campbell TITLE Vice President  
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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