

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE  WATER SANDS \_\_\_\_\_ LOCATION INSPECT \_\_\_\_\_ SUB. REPORT/abd. \_\_\_\_\_

DATE FILED JANUARY 18, 1995

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. U-0140740 INDIAN \_\_\_\_\_

DRILLING APPROVED: FEBRUARY 10, 1995

SPUDDED IN: 3-21-95

COMPLETED: 5-25-95 (POW) PUT TO PRODUCING: 6-3-95

INITIAL PRODUCTION: 120 BOPD; 50 MCF; 10 BWPD

GRAVITY A.P.I. 29

GOR: 416 SCF/BBL

PRODUCING ZONES: 5236-5251 (GRRV)

TOTAL DEPTH: 537'

WELL ELEVATION: 4198 KB

DATE ABANDONED:

FIELD: GYPSUM HILLS FIELD

UNIT: GYPSUM HILLS UNIT

COUNTY: UINTAH

WELL NO. GYPSUM HILL #15 API NO. 43-047-32648

LOCATION 669' FSL FT. FROM (N) (S) LINE. 667' FWL FT. FROM (E) (W) LINE. SW SW 1/4 - 1/4 SEC. 20

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				8S	21E	20	CHEVRON USA PROD CO

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
	Dakota	Park City	McCracken
	Burro Canyon	Rico (Goodridge)	Aneth
	Cedar Mountain	Supai	Simonson Dolomite
	Buckhorn	Wolfcamp	Sevy Dolomite
	JURASSIC	CARBON I FEROUS	North Point
Wasatch	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIAS		

Surface  
2136'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN COMPLETE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires December 31, 1991

JAN 18 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

DIV OF OIL, GAS & MINING

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		7. UNIT AGREEMENT NAME GYPSUM HILLS	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS-WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. FARM OR LEASE NAME, WELL NO. #15	
2. NAME OF OPERATOR CHEVRON USA PRODUCTION CO., INC.		9. API WELL NO.	
3. ADDRESS AND TELEPHONE NO. 11002 EAST, 17500 SOUTH, VERNAL, UT 84078-8526 (801) 781-3400		10. FIELD AND POOL, OR WILDCAT GYPSUM HILLS GREEN RIVER	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 669' FSL, 667' FWL, SWSW At proposed prod. zone SAME		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 20-T8S-R21E, SLB&M	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6.1 MILES FROM OURAY, UTAH		12. COUNTY OR PARISH UINTAH	13. STATE UTAH
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 669'	16. NO. OF ACRES IN LEASE 800	17. NO. OF ACRES ASSIGNED TO THIS WELL NA	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1327'	19. PROPOSED DEPTH 5400'	20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4682' GL		22. APPROX. DATE WORK WILL START* 2/15/95	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" K-55	24#	360	190 SX.
7-7/8"	5-1/2" K-55	15.5#	5400	520 SX.

We propose to develop oil reserves in the Green River Formation at the specified location. Enclosures:

- Certified Plat
- Self Certification Statement
- Thirteen Point Surface Use Plan With Attachments
- Eight Point Drilling Plan With Attachments

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE TEAM LEADER DATE 1-12-95

(This space for Federal or State office use)

PERMIT NO. 43-047-32648 APPROVAL DATE 2/10/95

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE DATE

\*See Instructions On Reverse Side

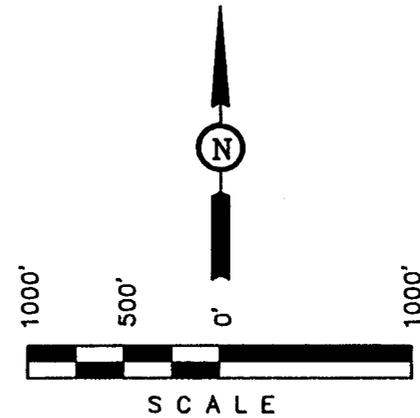
WELL SPACING R649-2-3

T8S, R21E, S.L.B.&M.

Well location, GYPSUM HILLS UNIT #15, located as shown in the SW 1/4 SW 1/4 of Section 20, T8S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 20, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4754 FEET.

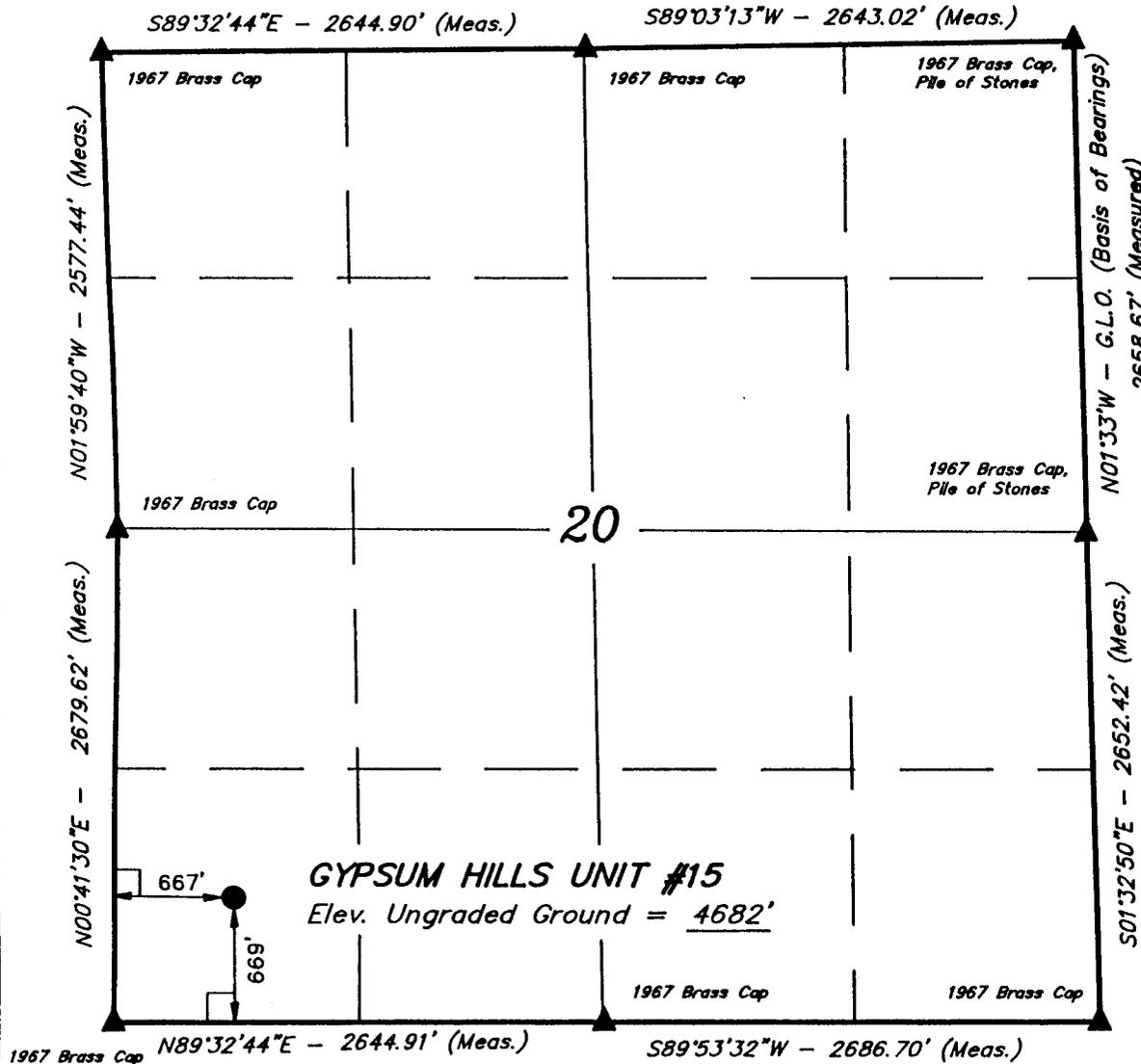


CERTIFICATE

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

*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 10-23-94	DATE DRAWN: 12-7-94
PARTY B.B. R.C. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE CHEVRON U.S.A., INC.	



LEGEND:

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

CHEVRON USA PRODUCTION CO.

GYPSUM HILLS UNIT #15  
669' FSL, 667' FWL  
SWSW-S20-T8S-R21E  
UINTAH COUNTY, UTAH

EIGHT POINT DRILLING PLAN

1. ESTIMATED FORMATION TOPS:

Uinta	Surface
Green River	~2133' to 5400' TD
Oil Shale	~3291-3575'
G1 Lime (objective)	~5236-5247'

2. ESTIMATED DEPTHS OF TOP AND BOTTOM OF WATER, OIL, GAS, OR OTHER MINERAL BEARING FORMATIONS AND PLAN FOR PROTECTION:

**Deepest Fresh Water:** ~700', Uinta Formation.

**Oil Shale:** Oil shale is expected between depths of ~3291-3575'.

**Oil:** Oil is expected in the G1 Lime of the Green River Formation.

**Gas:** None expected, although minor shows may be encountered below ~2100'.

**Protection of oil, gas, water, or other mineral bearing formations:**  
Protection shall be accomplished by cementing surface casing and production casing back to the surface or to depths sufficient to isolate required formations. Please refer to casing and cement information for protection plans.

3. PRESSURE CONTROL EQUIPMENT:

**For drilling 12-1/4" surface hole to 360':** No BOP equipment required.

**For drilling through 8.625" surface casing to TD:**

Maximum anticipated surface pressure <1200 psi.

Pressure control equipment shall be in accordance with BLM minimum standards for 2000 psi equipment.

## **GHU #15 - EIGHT POINT DRILLING PLAN**

A casing head with an 11", 3000 psi flange will be screwed or welded onto the 8.625" surface casing.

BOP stack will consist of a double gate and annular preventor. The double gate will be equipped with pipe rams on bottom and blind rams on top. The choke and kill lines will be connected to outlets between the bottom and top rams, utilizing either the ram body outlets or a drilling spool with side outlets. The BOP stack will be 9" or 11" bore, 2000 or 3000 psi working pressure. The choke and kill lines will be 2" or 3" bore, 2000 or 3000 psi working pressure. Please refer to attached schematics.

Test procedure and frequency shall be in accordance with BLM minimum standards for 2000 psi equipment.

### **4. SUPPLEMENTAL DRILLING EQUIPMENT AND CASING INFORMATION:**

#### **Casing Information:**

<b>Casing</b>	<b>Conn.</b>	<b>New/ Used</b>	<b>Stage Tool</b>	<b>Centralizers</b>
8.625"	STC	New	None	10' above shoe, on 1st and 3rd collars
5.5"	STC	New	None	10' above shoe, every other collar to top of pay (~5236')

#### **Cement Information:**

**8.625" Casing:** Oilfield type cement circulated in. Class A single slurry mixed to 15.6 ppg, yield = 1.19 cf/sx. Fill to surface with 225 cf (190 sx). Tail plug used. Allowed to set under pressure.

**5.5" Casing:** Lead/tail oilfield type cement circulated in.

Tail slurry - 50/50 Class H/pozzolan + 2% gel + additives as required mixed to 14.1 ppg, yield = 1.23 cf/sx; or Class G + 12.5 lb/sx. gilsonite + additives as required mixed to 14.8 ppg, yield = 1.34 cf/sx. Fill to ~4930' (~300' above top of pay) with 110 cf (90 sx. or 82 sx.).

## **GHU #15 - EIGHT POINT DRILLING PLAN**

Lead slurry - Class A + extender + additives mixed to 11.0 ppg, yield = 3.82 cf/sx. Fill to surface using ~1640 cf (~430 sx.).

Tail plug used. Allowed to set under pressure.

### **Drilling Equipment:**

Surface hole will be drilled and surface casing set with a small rotary surface hole rig.

A rotating head may be used while drilling below surface casing for control of gas cut mud.

### **5. CIRCULATING MEDIUM, MUD TYPE, MINIMUM QUANTITIES OF WEIGHT MATERIAL, AND MONITORING EQUIPMENT:**

Surface hole will be drilled with air, air/mist, foam or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash, and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is ~9.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from base of surface casing to TD.

### **6. ANTICIPATED TYPE AND AMOUNT OF TESTING, LOGGING, AND CORING:**

#### **Logging:**

Mud logging	~360' to TD
Gamma Ray	TD to ~360'
Spontaneous Potential	TD to ~360'
Induction	TD to ~360'
Density/Neutron	TD-3500'
Sonic	TD-360'

## **GHU #15 - EIGHT POINT DRILLING PLAN**

**Coring:** None planned.

**Testing:** None planned.

### **7. EXPECTED BOTTOM HOLE PRESSURE AND ANY ANTICIPATED ABNORMAL PRESSURE, TEMPERATURES, OR OTHER HAZARDS (H<sub>2</sub>S, STEAM, ETC.) AND ASSOCIATED CONTINGENCY PLANS:**

Normal pressure gradient to TD, although target interval may be slightly pressure depleted. Drill with water or unweighted mud.

Maximum expected BHP @ 5400': ~2340 psi (~0.433 psi/ft.).

Maximum expected BHT @ 5400': ~135° F.

No abnormal hazards are anticipated and no contingency plans are required.

### **8. OTHER:**

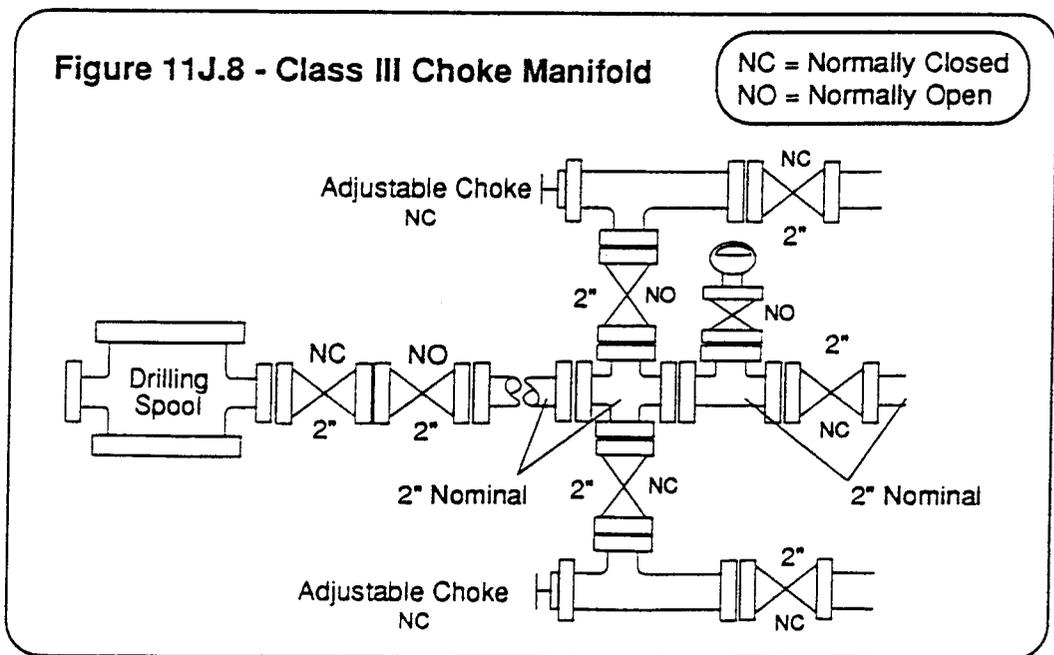
None.

CHEVRON DRILLING REFERENCE SERIES  
 VOLUME ELEVEN  
 WELL CONTROL AND BLOWOUT PREVENTION

**D. CLASS III CHOKE MANIFOLD**

The Class III choke manifold is suitable for Class III workovers and drilling operations. The Standard Class III choke manifold is shown in Figure 11J.8 below. Specific design features of the Class III manifold include:

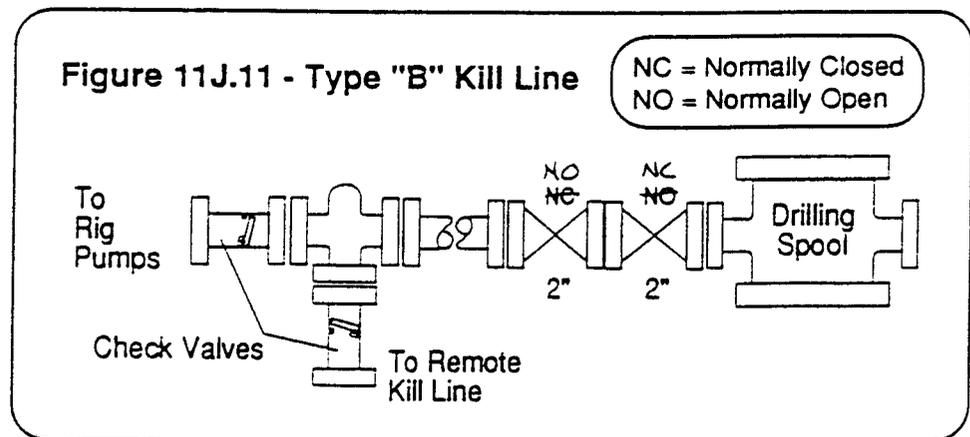
1. The manifold is attached to a drilling spool or the top ram preventer side outlet.
2. The minimum internal diameter is 2" (nominal) for outlets, flanges, valves and lines.
3. Includes two steel gate valves in the choke line at the drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).
4. Includes two manually adjustable chokes which are installed on both side of the manifold cross. Steel isolation gate valves are installed between both chokes and the cross, and also downstream of both chokes.
5. Includes a bleed line which runs straight through the cross and is isolated by a steel gate valve.
6. Includes a valve isolated pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.
7. Returns through the choke manifold must be divertible through a mud-gas separator and then be routed to either the shale shaker or the reserve pit through a buffer tank or manifold arrangement.
8. If the choke manifold is remote from the wellhead, a third master valve should be installed immediately upstream of the manifold cross.



D. TYPE "B" KILL LINE — CLASS III, IV , AND V WELLS

The type B kill line described below in Figure 11J.11 is the minimum recommended hookup for installation on all Class III, Class IV and Class V wells. Specific design features of the type B kill line include:

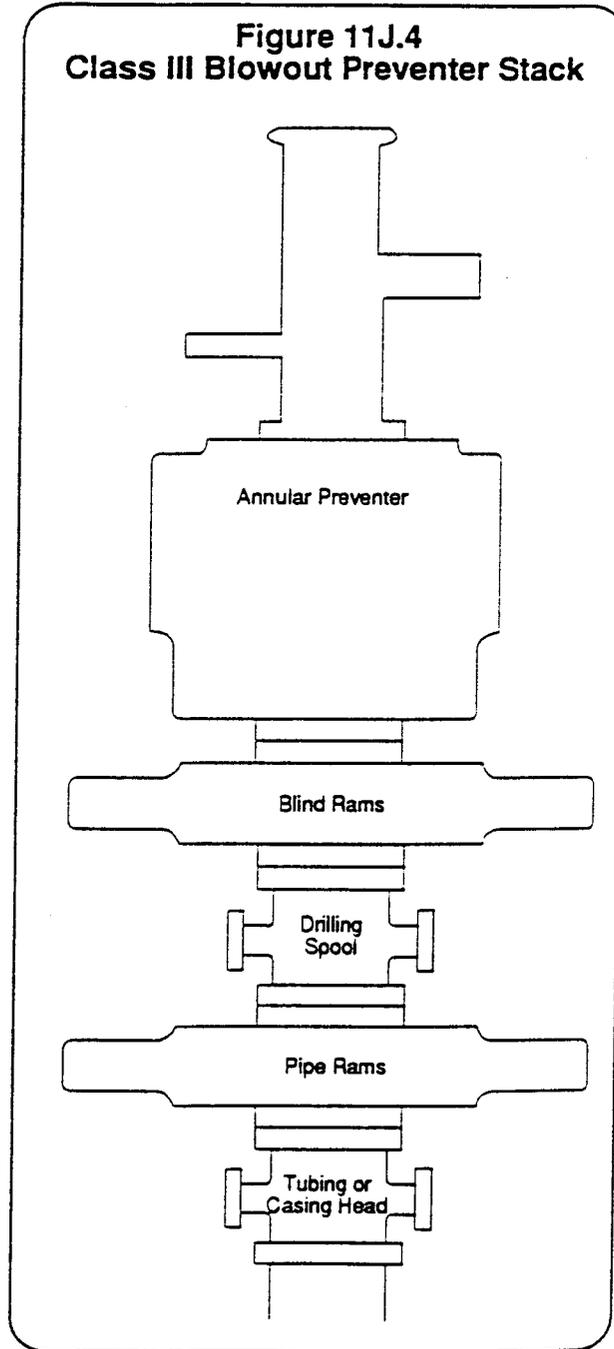
1. The preferred kill line connection to the well is at the drilling spool, however, a preventer side outlet may be used when space restrictions exclude the use of a drilling spool. In all cases, the kill line must be installed below the uppermost blind rams so the well can be pumped into with no pipe in the hole.
2. The arrangement includes two - 2" (nominal) gate valves installed at the drilling spool and an upstream fluid cross. The outside valve may be hydraulically remote controlled.
3. Two pump-in lines should be attached to the fluid cross. The **primary kill line** should be routed to the rig standpipe where it can be manifolded to the rig pumps. The **remote kill line** should be run to a safe location away from the rig or to the rig cementing unit. The remote kill line should have a loose end connection for rigging-up a high pressure pumping unit.
4. Both the primary kill line and the remote kill line must include a 2" check valve which is in working condition while drilling. If a check valve is crippled for testing purposes, the flapper or ball must be re-installed and tested before drilling resumes.
5. The primary kill line must include a pressure gauge which can display the pump-in pressure on the rig floor.
6. Any lines which are installed at the wellhead are designated as "**emergency kill lines**" and should only be used if the primary and remote kill lines are inoperable.



E. CLASS III BLOWOUT PREVENTER STACK:

The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". All side outlets on the preventers or drilling spool must be flanged, studded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams only. In this hookup, the pipe rams are considered master rams only, and cannot be used to routinely circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.

**Figure 11J.4**  
**Class III Blowout Preventer Stack**



CHEVRON USA PRODUCTION CO.

GYPSUM HILLS UNIT #15  
669' FSL & 667' FWL  
SWSW-S20-T8S-R21E, SLB&M  
UINTAH COUNTY, UTAH

THIRTEEN POINT SURFACE USE PLAN

1. EXISTING ROADS:

A. See Topographic Map A. There are no plans to change, alter or improve upon any existing state or county road.

B. See Topographic Map A. Travel south from Ouray 0.3 miles on State Hwy. 88. Turn left and travel 5.6 miles on the Wonsits Valley oil field road to the proposed access road.

2. ACCESS ROADS TO BE CONSTRUCTED OR RECONSTRUCTED:

See Topographic Maps A and B. The access road and location site are on Ute Tribal lands. A new road of approximately 0.2 miles is proposed for access to location.

3. LOCATION OF EXISTING WELLS WITHIN ONE MILE:

See Topographic Map B.

4. LOCATION OF EXISTING OR PROPOSED FACILITIES IF WELL IS PRODUCTIVE:

A. See Topographic Map C.

B. Rod pumping equipment, a line heater and cathodic protection system will be installed on the location.

C. The permitting process to construct a central gathering system for Gypsum Hills Unit is underway. A heat-traced surface pipeline is planned to connect the proposed well with the gathering system. If appropriate permits for the gathering system have not been obtained prior to completion of the well, production tankage will be installed on location until the gathering system is built.

## **GHU #15 - THIRTEEN POINT SURFACE USE PLAN**

D. Disturbed areas no longer needed for operations will be graded back to as near original state as possible. Drainage channels will be returned to original state and the areas will be reseeded as prescribed by the BIA.

### **5. LOCATION AND TYPE OF WATER SUPPLY:**

Water from the following sources will be used:

A. Wonsits Valley Federal Unit water supply wells, 1965 Application #36125.

B. Water well in Ouray operated by A-1 Tank and Brine, Permit #43-8496.

C. City water from Ouray provided by and via Ouray Brine's facility in Ouray. No permit.

Transportation of water shall be by tank truck.

### **6. CONSTRUCTION MATERIALS:**

Native dirt and gravel will be used as construction materials.

### **7. METHODS FOR HANDLING WASTE DISPOSAL:**

A. A closed mud system is planned, requiring a trench for the reserve tank.

B. Excess reserve pit fluid will be disposed of via haul-off to a commercial disposal facility.

C. Drill cuttings will be caught and settled in the reserve tank and buried when the trench is backfilled.

D. Commercial service will provide portable toilets and haul-off to a commercial disposal facility.

E. Trash will be stored in trash containers and hauled to commercial or municipal facility for disposal.

F. It is not anticipated that any salt or chemicals will need to be disposed of. If required, disposal will be by commercial disposal facility.

## **GHU #15 - THIRTEEN POINT SURFACE USE PLAN**

G. In the event fluids are produced, any oil will be transferred to existing facilities within Gypsum Hills Unit and sold. Any water will be transferred to WVFU Battery 6 to be injected through the waterflood system.

H. Hazardous chemicals 10,000 lb. of which will most likely be used, produced, stored, transported or disposed of in association with the proposed action of drilling, completing and producing this well: We anticipate that none of the hazardous chemicals in quantities of 10,000 lb. or more will be associated with these operations.

I. Extremely hazardous substances threshold quantities of which will be used, produced, stored, transported or disposed of in association with the proposed action of drilling, completing and producing this well: We anticipate that none of the extremely hazardous substances in threshold quantities per 40 CFR 355 will be associated with these operations.

### **8. ANCILLARY FACILITIES:**

None.

### **9. WELLSITE LAYOUT:**

A. See Figures 1 and 2. A closed mud system is planned

B. Burn pit will not be lined.

C. Access to the well pad will be as shown on Topographic Map B.

### **10. PLAN FOR RESTORATION OF SURFACE:**

A. All surface areas not required for production operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum. Any rock encountered in excavation will be disposed of beneath backfill to return surface to its present appearance and provide soil for seed growth.

B. The topsoil will be evenly distributed over the disturbed areas. Reseeding will be performed as directed by the BIA.

## **GHU #15 - THIRTEEN POINT SURFACE USE PLAN**

C. Pits that would present a hazard to wildlife or livestock will be backfilled when the rig is released and removed.

D. Completion of the well is planned during 1995. Rehabilitation will commence following completion of the well. If the wellsite is to be abandoned, all disturbed areas will be recontoured to the natural contour as soon as possible.

### **11. SURFACE OWNERSHIP:**

The wellsite, access roads and flowlines are constructed on Ute Tribal land. The operator shall contact the BLM office at (801) 789-1362 and the BIA office at (801) 722-2406 between 24 and 48 hours prior to construction activities.

### **12. OTHER INFORMATION:**

A. The well is located in hilly and sandy terrain. Vegetation consists of sagebrush and natural grasses around the location. The soil is a poorly developed, semi-arid, thin topsoil layer over the Uintah Formation.

B. Surface use activities other than the oil and gas well facilities consist of grazing.

C. There are no occupied dwellings near the wellsite.

**GHU #15 - THIRTEEN POINT SURFACE USE PLAN**

**13. COMPANY REPRESENTATIVE:**

Mr. J. T. Conley  
11002 East 17500 South  
Vernal, UT 84078  
(801) 781-4301

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Chevron USA Production Co., Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

1-12-95  
Date

J. T. Conley  
J. T. Conley  
Red Wash Area Team Leader

United States Department of the Interior  
Bureau of Land Management  
Vernal District Office  
170 South 500 West  
Vernal, UT 84078

**SELF-CERTIFICATION STATEMENT**

Be advised that Chevron USA Production Company is considered to be the operator of Gypsum Hills Unit #15, SWSW-Sec.20-T8S-R21E, Uintah County, Utah, and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by Nationwide Bond #U-89-75-81-34 (Standard Oil Co. of California and its wholly owned subsidiary Chevron USA Production Co., as co-principals) via surety consent as provided for in 43 CFR 3104.2.

Sincerely,



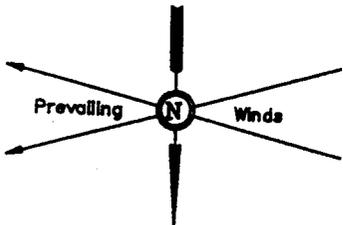
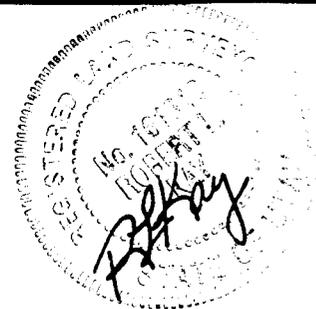
\_\_\_\_\_  
J. T. Conley  
Red Wash Area Team Leader

DATE: 1-12-95

CHEVRON USA., INC.

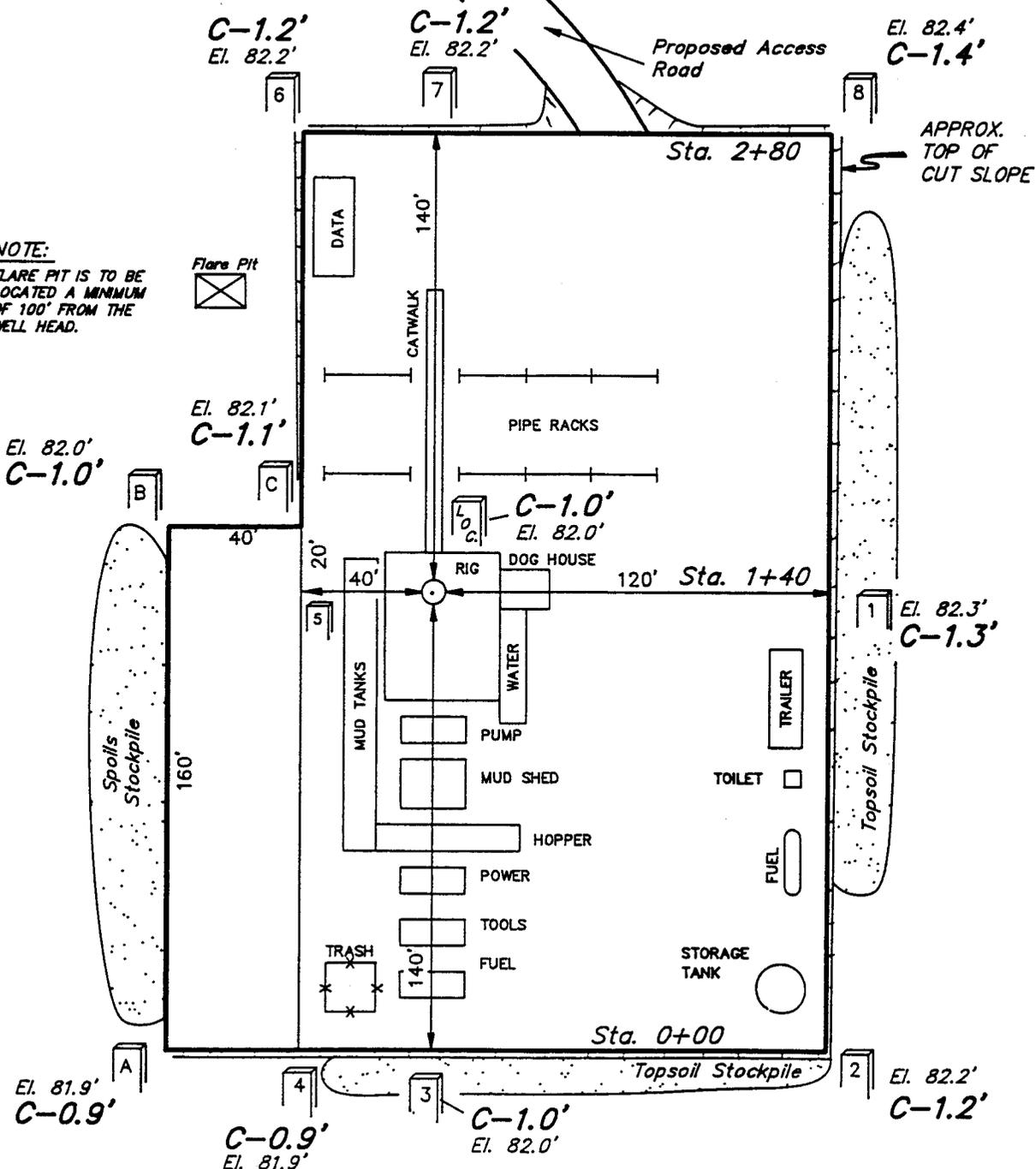
LOCATION LAYOUT FOR

GYPSUM HILLS UNIT #15  
SECTION 20, T8S, R21E, S.L.B.&M.  
669' FSL 667' FWL



SCALE: 1" = 50'  
DATE: 12-8-94  
Drawn By: C.B.T.

**NOTE:**  
FLARE PIT IS TO BE LOCATED A MINIMUM OF 100' FROM THE WELL HEAD.



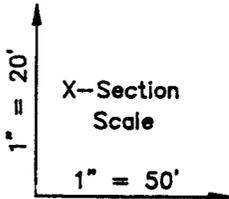
Elev. Ungraded Ground at Location Stake = 4682.0'  
Elev. Graded Ground at Location Stake = 4681.0'

**FIGURE #1**  
UNTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

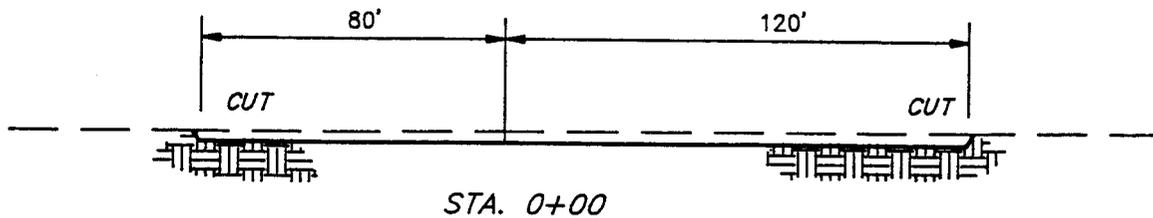
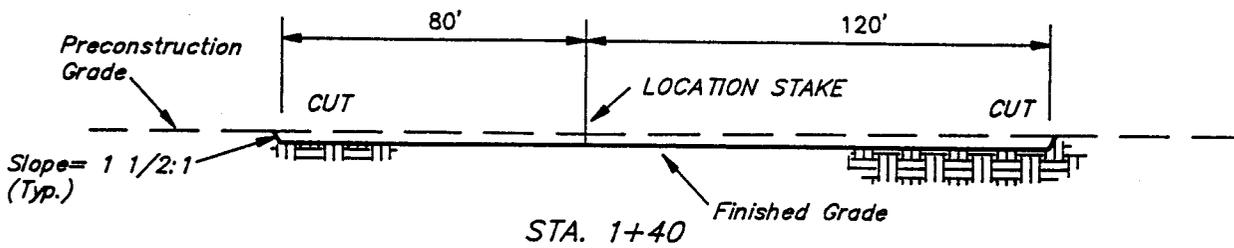
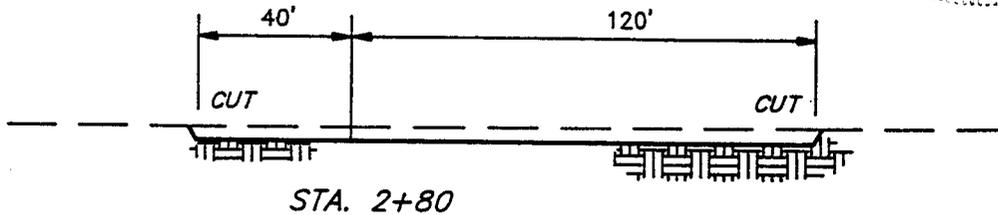
CHEVRON USA., INC.

TYPICAL CROSS SECTIONS FOR

GYP SUM HILLS UNIT #15  
SECTION 20, T8S, R21E, S.L.B.&M.  
669' FSL 667' FWL



DATE: 12-8-94  
Drawn By: C.B.T.



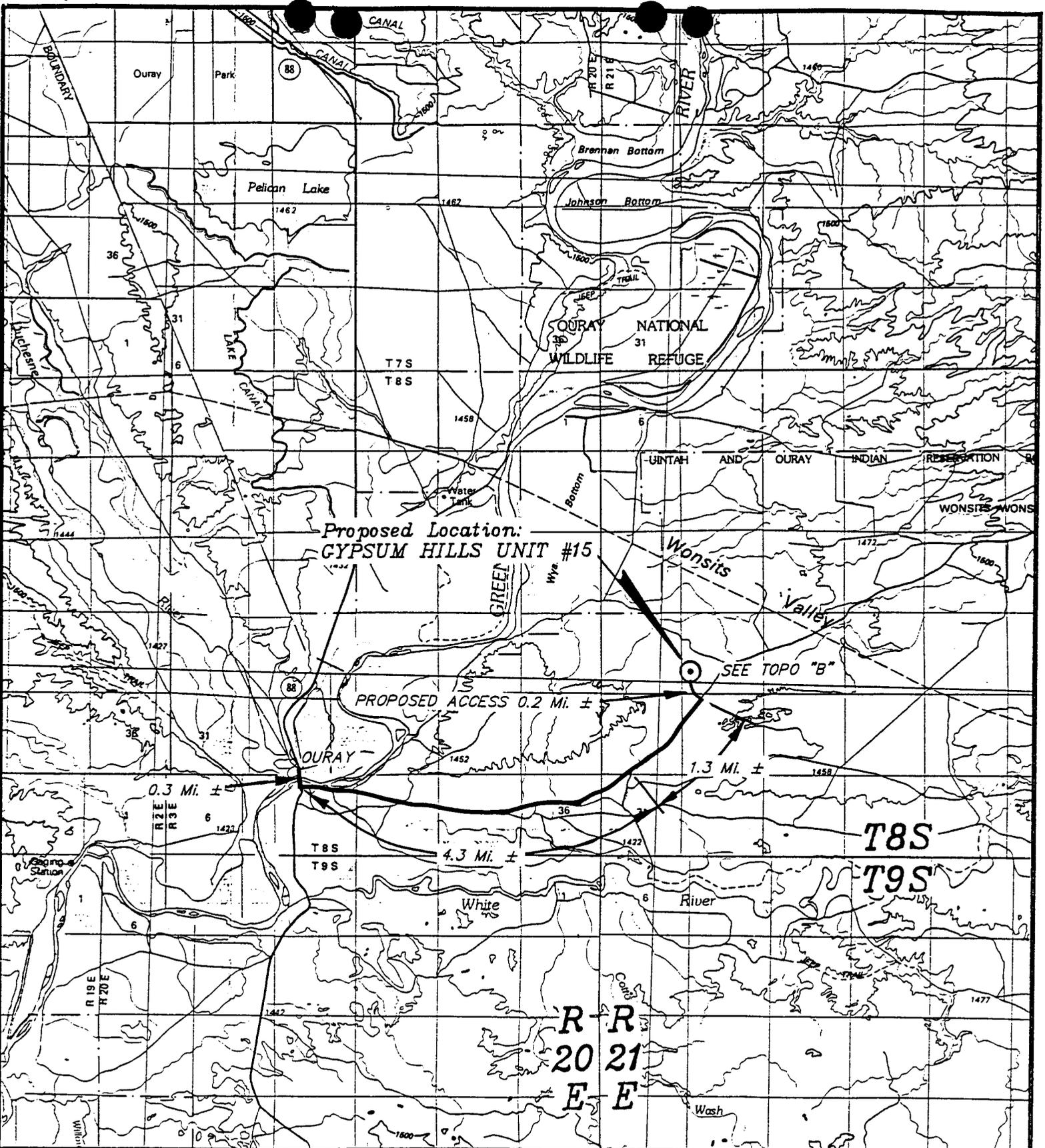
**FIGURE #2**

APPROXIMATE YARDAGES

CUT	
(12") Topsoil Stripping	= 1,900 Cu. Yds.
Remaining Location	= 270 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 2,170 CU.YDS.</b>
<b>FILL</b>	<b>= 10 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,160 Cu. Yds.
Topsoil	= 1,900 Cu. Yds.
<b>EXCESS CUT MATERIAL</b>	<b>= 260 Cu. Yds.</b>

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



TOPOGRAPHIC  
MAP "A"

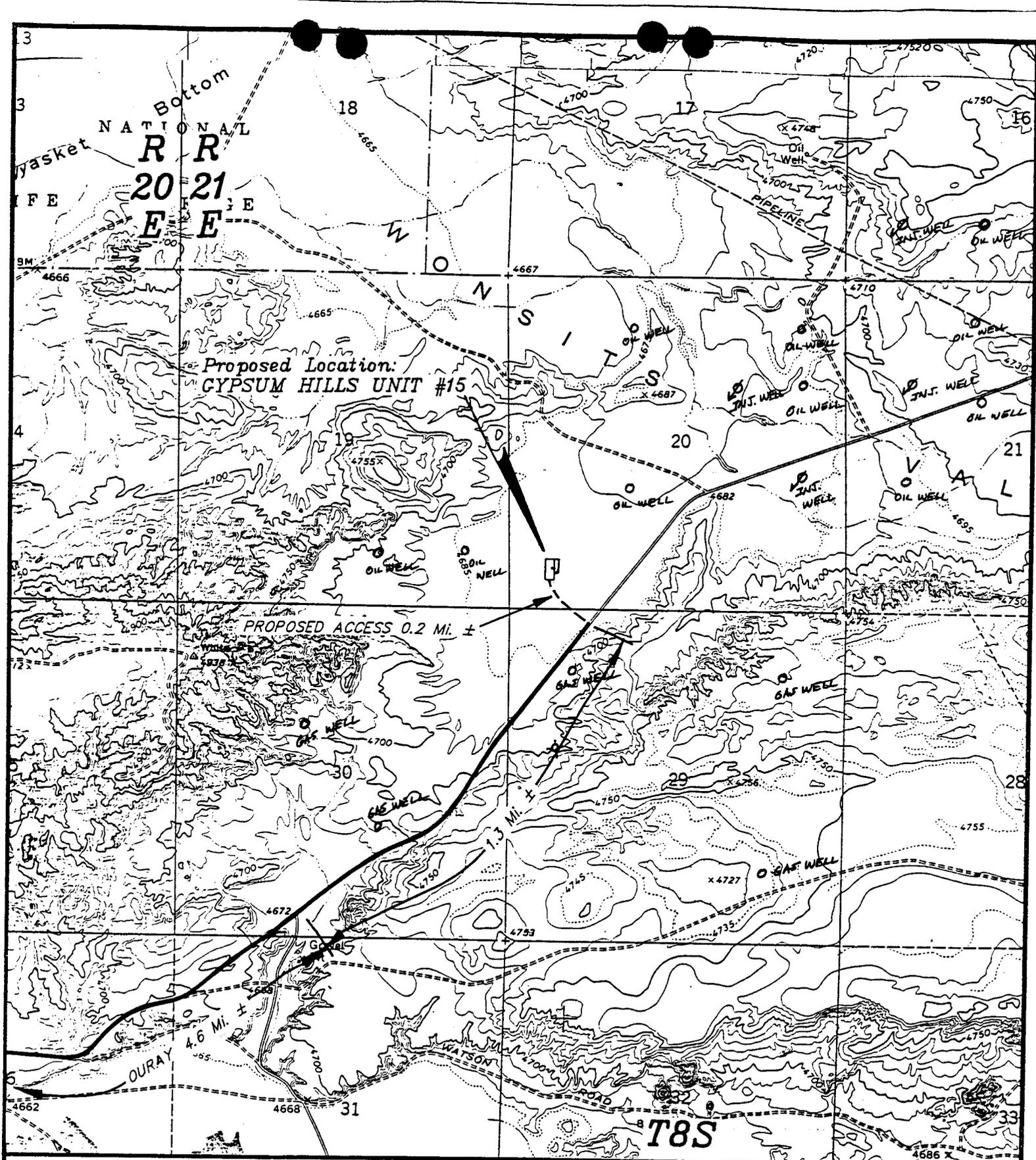
DATE: 12/2/94 D.COX



CHEVRON U.S.A., INC.

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GYPSUM HILLS UNIT #15  
SECTION 20, T8S, R21E, S.L.B.&M  
669' FSL 667' FWL



TOPOGRAPHIC  
MAP "B"

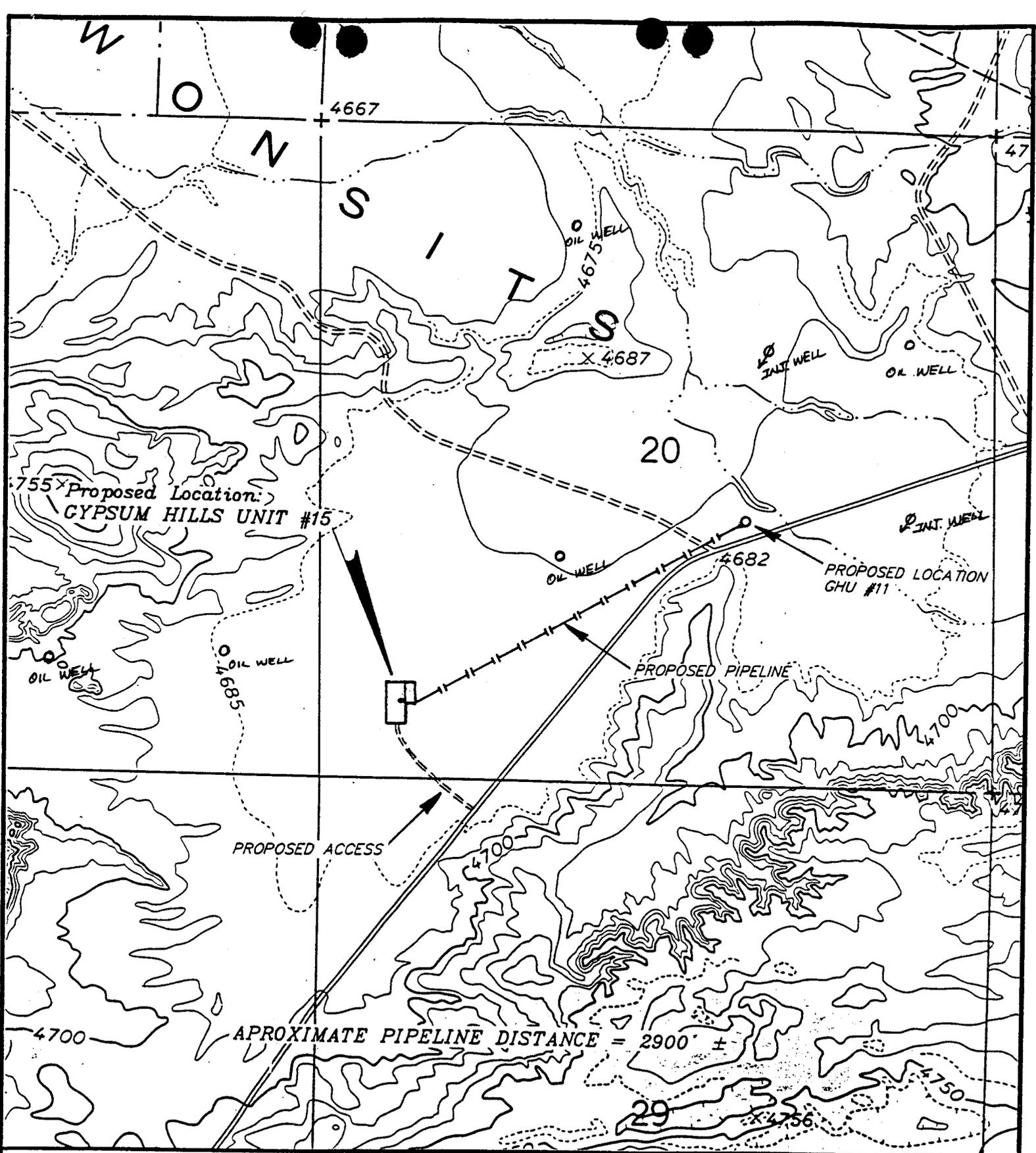
SCALE: 1"=2000'

DATE: 12/2/94 D.COX



CHEVRON U.S.A., INC.

GYPSUM HILLS UNIT #15  
SECTION 20, T8S, R21E, S.L.B.&M  
669' FSL 667' FWL



**LEGEND:**

- Existing Pipeline
- |-|-|- Proposed Pipeline

SCALE: 1" = 1000'



**CHEVRON U.S.A., INC.**

GYPSUM HILLS UNIT #15  
SECTION 20, T8S, R21E, S.L.B.&M.

**T O P O M A P " C "**

DATE: 12-6-94 D.COX

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 01/18/95

API NO. ASSIGNED: 43-047-32648

WELL NAME: GYPSUM HILLS #15  
OPERATOR: CHEVRON USA PRODUCTION CO (N0210)

PROPOSED LOCATION:  
SWSW 20 - T08S - R21E  
SURFACE: 0669-FSL-0667-FWL  
BOTTOM: 0669-FSL-0667-FWL  
UINTAH COUNTY  
GYPSUM HILLS FIELD (610)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED  
LEASE NUMBER: 40-140740

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat

Bond: Federal  State  Fee   
(Number 4-89-75-81-34)

Potash (Y/N)

Oil shale (Y/N)

Water permit  
(Number 43-8496)

RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

R649-2-3. Unit: UTU 67951A

R649-3-2. General.

R649-3-3. Exception.

Drilling Unit.  
Board Cause no: \_\_\_\_\_  
Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STIPULATIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

T 7 S

CHEVRON USA PRODUCTION CO. T 8 S  
GYPSUM HILLS UNIT

SEC. 20, T 8 S, R 21 E UTAH COUNTY. 320 ACRE  
SPACING 187-2 EFFECTIVE 20 AUG 1980 WSTC & M

R 20 E

R 21 E

GYPSUM HILLS FIELD

RED WASH FIELD

#19 • #20

#14 •

#15 •

#17 •

#18 •

Chevron

GHU #15

43-047-32648

↑  
North

wellhead



Emulsion line leaves location



Access

**STATE OF UTAH**

<b>Operator: CHEVRON USA PRODUCTION</b>	<b>Well Name: GYPSUM HILLS #15</b>
<b>Project ID: 43-047-32648</b>	<b>Location: SEC. 20 - T08S - R21E</b>

Design Parameters:

Mud weight ( 9.50 ppg) : 0.494 psi/ft  
 Shut in surface pressure : 2353 psi  
 Internal gradient (burst) : 0.058 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	5,400	5.500	15.50	K-55	ST&C	5,400	4.825		
	<b>Load</b> (psi)	<b>Collapse</b> <b>Strgth</b> (psi)	<b>S.F.</b>	<b>Burst</b> <b>Load</b> (psi)	<b>Min Int</b> <b>Yield</b> <b>Strgth</b> (psi)	<b>S.F.</b>	<b>Tension</b> <b>Load</b> (kips)	<b>Strgth</b> (kips)	<b>S.F.</b>
1	2665	4040	1.516	2665	4810	1.80	71.54	222	3.10 J

Prepared by : FRM, Salt Lake City, UT  
 Date : 02-10-1995  
 Remarks :

Minimum segment length for the 5,400 foot well is 1,000 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 101°F (Surface 74°F , BHT 128°F & temp. gradient 1.000°/100 ft.)  
 The mud gradient and bottom hole pressures (for burst) are 0.494 psi/ft and 2,665 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guide-line, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)



**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

February 10, 1995

**Chevron USA Production Company, Inc.**  
11002 East 17500 South  
Vernal, Utah 84078-8526

Re: Gypsum Hills #15 Well, 669' FSL, 667' FWL, SW SW, Sec. 20, T. 8 S., R. 21 E., Uintah County, Utah

Gentlemen:

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.

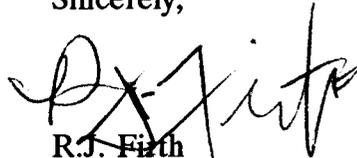


Page 2  
Chevron USA Production Company, Inc.  
Gypsum Hills #15 Well  
February 10, 1995

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32648.

Sincerely,



R.J. Firth  
Associate Director

ldc  
Enclosures  
cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office  
WO11

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLE COPY  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires December 31, 1991

**RECEIVED**  
- 1995  
**DIV OF OIL, GAS & MINING**

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		7. UNIT AGREEMENT NAME <b>GYPSUM HILLS</b>	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS-WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. FARM OR LEASE NAME, WELL NO. <b>#15</b>	
2. NAME OF OPERATOR <b>CHEVRON USA PRODUCTION CO., INC.</b>		9. API WELL NO. <b>43-047-32648</b>	
3. ADDRESS AND TELEPHONE NO. <b>11002 EAST, 17500 SOUTH, VERNAL, UT 84078-8526 (801) 781-3400</b>		10. FIELD AND POOL, OR WILDCAT <b>GYPSUM HILLS GREEN RIVER</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <b>669' FSL, 667' FWL, SWSW</b> At proposed prod. zone <b>SAME</b>		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA <b>SEC. 20-T8S-R21E, SLB&amp;M</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>6.1 MILES FROM OURAY, UTAH</b>		12. COUNTY OR PARISH <b>UINTAH</b>	13. STATE <b>UTAH</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>669'</b>	16. NO. OF ACRES IN LEASE <b>800</b>	17. NO. OF ACRES ASSIGNED TO THIS WELL <b>NA</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>1327'</b>	19. PROPOSED DEPTH <b>5400'</b>	20. ROTARY OR CABLE TOOLS <b>ROTARY</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4682' GL</b>		22. APPROX. DATE WORK WILL START* <b>2/15/95</b>	

**RECEIVED**  
**JAN 18 1995**

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" K-55	24#	360	190 SX.
7-7/8"	5-1/2" K-55	15.5#	5400	520 SX.

We propose to develop oil reserves in the Green River Formation at the specified location. Enclosures:

- Certified Plat
- Self Certification Statement
- Thirteen Point Surface Use Plan With Attachments
- Eight Point Drilling Plan With Attachments

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *[Signature]* TITLE TEAM LEADER DATE 1-12-95

(This space for Federal or State office use)

PERMIT NO. NOTICE OF APPROVAL APPROVAL DATE CONDITIONS OF APPROVAL ATTACHED

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY *[Signature]* TITLE ASSISTANT DISTRICT DATE FEB 28 1995

\*See Instructions On Reverse Side

RECEIVED

FEB 28 1995

UNITED STATES GOVERNMENT  
memorandum

FEB 16 1995

DATE:

REPLY TO ATTN OF: Superintendent, Uintah & Ouray Agency

SUBJECT: Concurrence Letter for CHEVRON U.S.A. Inc.,  
Gypsum Hills Units-GHU#14, GHU#15, GHU#16, GHU#17, GHU#18,  
GHU#19, GHU#20, GHU#21 & GHU#22 Wellsite locations  
TO: Bureau of Land Management, Vernal District Office  
Attention: Mr. Paul Andrews, Area Manager

The following wellsite locations have been cleared:

- GHU#14 Well, BIA ROW # H62-95-97; NWSW Sec. 20, T8S., R21E., SLB&M
- GHU#15 Well, BIA ROW # H62-95-113; SWSW Sec. 20, T8S., R21E., SLB&M
- GHU#16 Well, BIA ROW # H62-95-100; SESW Sec. 20, T8S., R21E., SLB&M
- GHU#17 Well, BIA ROW # H62-95-101; SWSE Sec. 20, T8S., R21E., SLB&M
- GHU#18 Well, BIA ROW # H62-95-103; SESE Sec. 20, T8S., R21E., SLB&M
- GHU#19 Well, BIA ROW # H62-95-105; SWNW Sec. 20, T8S., R21E., SLB&M
- GHU#20 Well, BIA ROW # H62-95-107; SENW Sec. 20, T8S., R21E., SLB&M
- GHU#21 Well, BIA ROW # H62-95-109, SWSW Sec. 21, T8S., R21E., SLB&M
- GHU#22 Well, BIA ROW # H62-95-111, SWNW Sec. 22, T8S., R21E., SLB&M

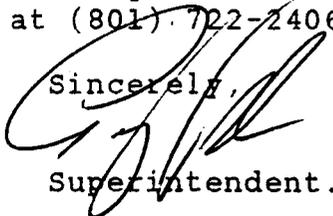
Based on available information received on February 15, 1995, we have cleared the proposed location in the following area of environmental impact.

- YES x NO  Listed threatened or endangered species
- YES x NO  Critical wildlife habitat
- YES x NO  Archeological or cultural resources
- YES  NO  Air quality aspects (to be used only if project is in or adjacent to a Class I area of attainment)
- YES  NO  Other (if necessary)

REMARKS: Environmental Analysis-6. MITIGATION STIPULATIONS  
Strict conformance to Site Specific Environmental Analysis,  
attached hereto is required.

Upon completion of construction, please submit an Affidavit of Completion with accompanying Certification so that we may record all pertinent documents at the BIA Southwest Title Plant in Albuquerque, New Mexico.

If you have any question regarding said right-of-way, you may contact Mr. Charles Cameron, Acting Resources Officer or Norman Cambridge, Realty Specialist at (801) 722-2406 Ext. 52/49.

Sincerely,  
  
Superintendent.

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Chevron USA Production Co.

Well Name & Number: Gypsum Hills #15

API Number: 43-047-32648

Lease Number: U-0140740

Location: SWSW Sec. 20 T. 8S R. 21E

**NOTIFICATION REQUIREMENTS**

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

If conductor pipe is set then it will be cemented to surface. If drive pipe is used it will be pulled prior to cementing surface casing.

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at  $\pm$  2167 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run at a minimum from the production casing shoe to  $\pm$  1967' and shall be utilized to determine the top of cement (TOC) and bond quality for production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with

43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Wayne Bankert           (801) 789-4170  
Petroleum Engineer

Ed Forsman             (801) 789-7077  
Petroleum Engineer

BLM FAX Machine       (801) 781-4410

### EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

**SURFACE USE PLAN OF OPERATION**  
Conditions of Approval (COAs)

**VEGETATION/LANDSCAPE**

Before the site is abandoned, the company will be required to restore the well pad and access road to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.

Although the road rights-of-way will be 30 feet wide, the graded area of the road will be limited in most places to 21 feet between the two outer edges of the barrow pits. Where deep cuts are required for road construction, or where intersections or sharp curves occur the road may be constructed wider than 21 feet so that large pieces of equipment will have enough room to make turns.

Noxious weeds will be controlled on well sites and rights-of-way. If noxious weeds spread from the well sites or rights-of-way onto adjoining land, the company will also be responsible for their control.

**SOILS/RANGE/WATERSHEDS**

Soil erosion will be mitigated by reseeding all disturbed areas.

Salt and pollution loading of the soil and geological formations will be mitigated by requiring the oil company to have closed drilling and production systems.

Production water, oil, and other by-products will not be applied to roads or well pads for the control of dust or weeds. Indiscriminate dumping of oil field by-products on tribal lands will not be allowed.

**CULTURAL RESOURCES**

All well sites, access roads, and pipeline rights-of-way have had cultural resource surveys completed by a qualified archaeologist or paleontologist. They have also been cleared through the Phoenix Area Archaeologist as required by Sec. 106 of the Historical and Preservation Act.

All vehicular traffic, personnel movement, construction and restoration operations will be confined to the flagged area examined, as referenced in the cultural resource report, and to the existing rights-of-way.

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Indian Tribal Department of Energy & Minerals shall be consulted if cultural remains from subsurface deposits are exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: CHEVRON USA

Well Name: GYPSUM HILLS # 15

Api No. 43-047-32648

Section 20 Township 8S Range 21E County UINTAH

Drilling Contractor \_\_\_\_\_

Rig # \_\_\_\_\_

SPUDDED: Date 3/21/95

Time \_\_\_\_\_

How DRY HOLE

Drilling will commence \_\_\_\_\_

Reported by DWH-DOGM

Telephone # \_\_\_\_\_

Date: 3/24/95 Signed: JLT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

USE "APPLICATION FOR PERMIT -" For such proposals

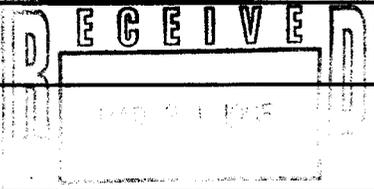
SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
 CHEVRON U.S.A. PRODUCTION CO.

3. Address and Telephone No.  
 P. O. BOX 4876  
 HOUSTON, TX 77210  
 ATTN: MARY COHLMIA  
 (713) 754-5068

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 669' FSL, 667' FWL  
 SW SW Sec. 20-T8S, R21E, SLB&M



5. Lease Designation and Serial No.  
 U-0140740

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
 Gypsum Hills

8. Well Name and No.  
 Gypsum Hills #15

9. API Well No.  
 43-047-32648

10. Field and Pool, or Exploratory Area  
 Gypsum Hills/Green River

11. County or Parish, State  
 Uintah Co., Utah

12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completions on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations ( Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

THE PURPOSE OF THIS SUNDRY IS TO REPORT THE SPUD OF THE ABOVE WELL ON MARCH 20, 1995.

3-BLM VERNAL, 2-UTOGC, DRLG, RANGELY

14. I hereby certify that the foregoing is true and correct.  
 Signed: Mary Cohlma Title: DRILLING TECHNICAL ASSISTANT Date: 3/24/95

(This space for Federal or State office use)  
 Approved by: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_  
 Conditions of approval, if any: \_\_\_\_\_

Title 18 U. S. C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR: **Chevron USA Production Company**  
ADDRESS: **11002 East 17500 South**  
**Vernal, Utah 84078-8526** (801)781-4300

ENTITY ACTION FORM - FORM 6

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
B	99999	5355	43-047-32648	Gypsum Hills Unit #15	SW%/SW%	S20	T8S	R21E	Uintah	03/20/95	

WELL 1 COMMENTS:

Well will be drilled as a unit well for production as part of the Gypsum Hills Secondary Recovery Unit *Entities added 4-27-95. Lee*

B	99999	5355	43-047-32649	Gypsum Hills Unit #17	SW%/SE%	S20	T8S	R21E	Uintah	04/13/95	
---	-------	------	--------------	-----------------------	---------	-----	-----	------	--------	----------	--

WELL 2 COMMENTS:

Well will be drilled as a unit well for production as part of the Gypsum Hills Secondary Recovery Unit

B	99999	5355	43-047-32650	Gypsum Hills Unit #18	SE%/SE%	S20	T8S	R21E	Uintah	04/12/95	
---	-------	------	--------------	-----------------------	---------	-----	-----	------	--------	----------	--

WELL 3 COMMENTS:

Well will be drilled as a unit well for production as part of the Gypsum Hills Secondary Recovery Unit

B	99999	5265	43-047-32461	WVFU #119	NW%/NW%	S21	T8S	R21E	Uintah	03/21/95	
---	-------	------	--------------	-----------	---------	-----	-----	------	--------	----------	--

WELL 4 COMMENTS:

Well will be drilled as a unit well for production as part of the Wonsits Valley Federal Unit

B	99999	5265	43-047-32462	WVFU #120	NE%/NW%	S22	T8S	R21E	Uintah	03/23/95	
---	-------	------	--------------	-----------	---------	-----	-----	------	--------	----------	--

WELL 5 COMMENTS:

Well will be drilled as a unit well for production as part of the Wonsits Valley Federal Unit

ACTION CODES (See instructions on back of form)

- 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)

NOTE: Use COMMENT section to explain why each Action Code was selected

(3/89)

**RECEIVED**  
APR 27 1995

DIVISION OF  
OIL, GAS & MINING

*St. Paul*  
Signature  
Asset Team Leader  
Title  
Date 4-24-95  
Phone No. (801) 781-4300

OPERATOR: **Chevron USA Production Company**  
ADDRESS: **11002 East 17500 South**  
**Vernal, Utah 84078-8526** (801)781-4300

ENTITY ACTION FORM - FORM 6

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
B	99999	5670	43-047-32629	Red Wash Unit #306	NE%SW%	S23	T7S	R24E	Uintah	03/06/95	
WELL 1 COMMENTS: Well drilled as part of the Green River Participating Area within the Red Wash Unit <span style="float: right;"><i>Entitles added 4-27-95. Jc</i></span>											
B	99999	5670	43-047-32632	Red Wash Unit #307	SW%SW%	S16	T7S	R24E	Uintah	03/07/95	
WELL 2 COMMENTS: Well drilled as part of the Green River Participating Area within the Red Wash Unit											
B	99999	5670	43-047-32627	Red Wash Unit #308	SE%SW%	S28	T7S	R24E	Uintah	03/16/95	
WELL 3 COMMENTS: Well drilled as part of the Green River Participating Area within the Red Wash Unit											
B	99999	5670	43-047-32595	Red Wash Unit #312	SW%NE%	S34	T7S	R24E	Uintah	03/10/95	
WELL 4 COMMENTS: Well drilled as part of the Green River Participating Area within the Red Wash Unit											
B	99999	5670	43-047-32630	Red Wash Unit #313	NE%SW%	S20	T7S	R24E	Uintah	04/07/95	
WELL 5 COMMENTS: Well drilled as part of the Green River Participating Area within the Red Wash Unit											

ACTION CODES (See instructions on back of form)

- 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)

NOTE: Use COMMENT section to explain why each Action Code was selected

(3/89)

**RECEIVED**

APR 27 1995

DIVISION OF  
OIL, GAS & MINING

*[Signature]*  
Signature

Asset Team Leader 4-24-95  
Title Date

Phone No. (801) 781-4300

OPERATOR: **Chevron USA Production Company**

ADDRESS: **11002 East 17500 South**

**Vernal, Utah 84078-8526**

**(801)781-4300**

ENTITY ACTION FORM - FORM 6

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
B	99999	5670	43-047-32626	Red Wash Unit #314	SE¼SW¼	S29	T7S	R24E	Uintah	04/08/95	
WELL 1 COMMENTS: Well drilled as part of the Green River Participating Area within the Red Wash Unit <span style="float: right;"><i>Entitres added 4-27-95. Jee</i></span>											
B	99999	5355	43-047-32459	Gypsum Hills Unit #11	NW¼SE¼	S20	T8S	R21E	Uintah	03/19/95	
WELL 2 COMMENTS: Well will be drilled as a unit well for production as part of the Gypsum Hills Secondary Recovery Unit											
B	99999	5355	43-047-32458	Gypsum Hills Unit #12	NE¼SE¼	S19	T8S	R21E	Uintah	03/10/95	
WELL 3 COMMENTS: Well will be drilled as a unit well for injection as part of the Gypsum Hills Secondary Recovery Unit											
B	99999	5355	43-047-32460	Gypsum Hills Unit #13	NE¼SW¼	S21	T8S	R21E	Uintah	04/10/95	
WELL 4 COMMENTS: Well will be drilled as a unit well for production as part of the Gypsum Hills Secondary Recovery Unit											
B	99999	5355	43-047-32647	Gypsum Hills Unit #14	NW¼SW¼	S20	T8S	R21E	Uintah	03/17/95	
WELL 5 COMMENTS: Well will be drilled as a unit well for production as part of the Gypsum Hills Secondary Recovery Unit											

ACTION CODES (See instructions on back of form)

- 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)

NOTE: Use COMMENT section to explain why each Action Code was selected

**RECEIVED**

APR 27 1995

*J. Bealey*  
\_\_\_\_\_  
Signature

Asset Team Leader 4-24-95  
Title Date

Phone No. (801) 781-4300

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT--" for such proposals

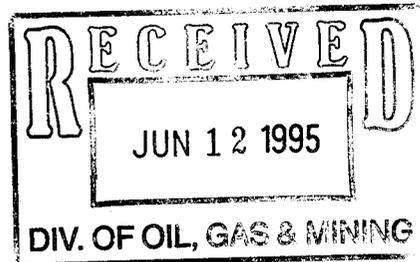
***SUBMIT IN TRIPLICATE***

<p>1. Type of Well</p> <p style="padding-left: 40px;">Oil                      Gas</p> <p><input checked="" type="checkbox"/> Well    <input type="checkbox"/> Well    <input type="checkbox"/> Other</p>	<p>5. Lease Designation and Serial No.</p> <p style="text-align: center;"><b>U-0140740</b></p>
<p>2. Name of Operator</p> <p><b>CHEVRON U.S.A. PRODUCTION COMPANY</b></p>	<p>6. If Indian, Allottee or Tribe Name</p> <p style="text-align: center;"><b>Uintah-Ouray</b></p>
<p>3. Address and Telephone No.</p> <p><b>11002 EAST 17500 SOUTH, VERNAL, UT 84078-8526 (801) 781-4302</b></p>	<p>7. If Unit or CA, Agreement Designation</p> <p style="text-align: center;"><b>Gypsum Hills Unit</b></p>
<p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description)</p> <p><b>669' FSL, 667' FWL, SEC. 20, T8S/R21E</b></p>	<p>8. Well Name and No.</p> <p style="text-align: center;"><b>GHU #15</b></p>
	<p>9. API Well No.</p> <p style="text-align: center;"><b>43-047-32648</b></p>
	<p>10. Field and Pool, or Exploratory Area</p> <p style="text-align: center;"><b>GYPSUM HILLS-GRN. RIVER</b></p>
	<p>11. County or Parish, State</p> <p style="text-align: center;"><b>UINTAH, UTAH</b></p>

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<p><input type="checkbox"/> Notice of Intent</p> <p><input checked="" type="checkbox"/> Subsequent Report</p> <p><input type="checkbox"/> Final Abandonment Notice</p>	<p><input type="checkbox"/> Abandonment</p> <p><input type="checkbox"/> Recompletion</p> <p><input type="checkbox"/> Plugging Back</p> <p><input type="checkbox"/> Casing Repair</p> <p><input type="checkbox"/> Altering Casing</p> <p><input checked="" type="checkbox"/> Other <u>FIRST PRODUCTION</u></p>	<p><input type="checkbox"/> Change of Plans</p> <p><input type="checkbox"/> New Construction</p> <p><input type="checkbox"/> Non-Routine Fracturing</p> <p><input type="checkbox"/> Water Shut-Off</p> <p><input type="checkbox"/> Conversion to Injection</p> <p><input type="checkbox"/> Dispose Water</p>
(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)		

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

**Subject well has commenced production effective June 3, 1995.**



14. I hereby certify that the foregoing is true and correct.  
Signed *Chana Rough* Title Field Compliance Specialist Date 6/6/95

(This space for Federal or State office use)

Approved by: \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**SUBMIT IN DUPLICATE**  
(See instructions on reverse side).

Form approved.  
Budget Bureau No. 1004-6137  
Expires August 31, 1985

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

5. LEASE DESIGNATION AND SERIAL NO.  
**U-0140740**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**UINTAH-OURAY**

1a. TYPE OF WELL  
OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION  
NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR  Other \_\_\_\_\_

7. UNIT AGREEMENT NAME  
**GYPSUM HILLS UNIT**

8. FARM OR LEASE NAME  
**GYPSUM HILLS**

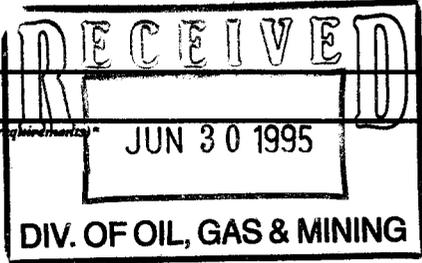
2. NAME OF OPERATOR  
**CHEVRON U.S.A. PRODUCTION COMPANY**

9. WELL NO.  
**GHU #15**

3. ADDRESS OF OPERATOR  
**11002 E. 17500 S., VERNAL, UT 84078-8526**

10. FIELD AND POOL, OR WILDCAT  
**GYPSUM HILLS-GRN. RIVER**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
**At surface 669' FSL, 667' FWL**  
**At top rod. interval reported below**  
**At total depth**



11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**SEC. 20, T8S/R21E**

14. PERMIT NO. <b>43-047-32648</b>	DATE ISSUED <b>2/28/95</b>	12. COUNTY OR PARISH <b>UINTAH</b>	13. STATE <b>UTAH</b>
---------------------------------------	-------------------------------	---------------------------------------	--------------------------

15. DATE SPUNDED <b>3/20/95</b>	16. DATE T.D. REACHED <b>5/20/95</b>	17. DATE COMPL. (Ready to prod.) <b>5/25/95</b>	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <b>4698' KB</b>	19. ELEV. CASINGHEAD <b>4682'</b>
------------------------------------	---	--	--	--------------------------------------

20. TOTAL DEPTH, MD & TVD <b>5377'</b>	21. PLUG BACK T.D., MD & TVD <b>5322'</b>	22. IF MULTIPLE COMPL., HOW MANY* <b>N/A</b>	23. INTERVALS DRILLED BY <b>→</b>	ROTARY TOOLS <b>X</b>	CABLE TOOLS <b>NO</b>
---	--	---	--------------------------------------	--------------------------	--------------------------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
**GREEN RIVER FORMATION 5236-5251'**

25. WAS DIRECTIONAL SURVEY MADE  
**NO**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**DIL, GR, CALIPER, DENSITY, NEUTRON, CBL, CCL 5-25-95**

27. WAS WELL CORED  
**NO**

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
5 1/2"	15.5#	5375'	7 7/8"	400 SX. HI-FILL	
				85 SX. PREMIUM PLUS A-G	
8 5/8"	24#	392'	12 1/4"	180 SX. CLASS G CEMENT	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					2 7/8"	5300'	N/A

31. PERFORATION RECORD (Interval, size and number)  
**5236-5251' 4 JSPF**

32. ACID, SHOT, FRACTURE CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5236-5251'	26,000 GALS. 28% HCL

33. PRODUCTION

DATE FIRST PRODUCTION <b>6/3/95</b>	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) <b>ROD PUMP 1 3/4"</b>	WELL STATUS (Producing or shut-in) <b>PRODUCING</b>					
DATE OF TEST <b>6/27/95</b>	HOURS TESTED <b>24</b>	CHOKE SIZE <b>N/A</b>	PROD'N FOR TEST PERIOD <b>→</b>	OIL—BBL. <b>120</b>	GAS—MCF. <b>50</b>	WATER—BBL. <b>10</b>	GAS-OIL RATIO <b>416 SCF/BBL.</b>
FLOW TUBING PRESS. <b>N/A</b>	CASING PRESSURE	CALCULATED 24-HOUR RATE <b>→</b>	OIL—BBL. <b>120</b>	GAS—MCF <b>50</b>	WATER—BBL <b>10</b>	OIL GRAVITY-API (CORR.) <b>29</b>	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
**FUEL**

TEST WITNESSED BY  
**ROY DIXON**

35. LIST OF ATTACHMENTS  
**NONE**

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

SIGNED *SD McJensen* TITLE **PETROLEUM ENGINEER** DATE **6/27/95**

37. SUMMARY OF POROUS ZONES: (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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH
Uinta Green River	Surface 2136'	2136' TD	1 Oil bearing, no core, No DSTs	3470' 5234' 5252'	

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Oil Shale G1 Lime G1 Sand	3470' 5234' 5252'	

**EQUIPMENT INVENTORY**  
**UTAH DIVISION OF OIL, GAS AND MINING**  
**STATE OF UTAH**

Operator: CHEVRON USA INC. Lease: State:        Federal: X Indian:        Fee:       

Well Name: GYPSUM HILLS UNIT #15 API Number: 43-047-32648

Section: 20 Township: 8S Range: 21E County: UINTAH Field: GYPSUM HILLS

Well Status: POW Well Type: Oil: X Gas:       

**PRODUCTION LEASE EQUIPMENT: (NUMBER)**

Boiler(s):        Compressor(s):        Separator(s):        Dehydrator(s):       

Shed(s):        Line Heater(s):   1   Heated Separator(s):        VRU:       

Heater Treater(s):       

**PUMPS:**

Triplex:        Chemical:   1   Centrifugal:   1  

**LIFT METHOD:**

Pumpjack:   X   Hydraulic:        Submersible:        Flowing:       

**GAS EQUIPMENT: (NUMBER)**

Purchase Meter:   0   Sales Meter:   0  

**TANKS:**

NUMBER

SIZE

Oil Storage Tank(s):               BBLS

Water Tank(s):               BBLS

Power Water Tank:               BBLS

Condensate Tank(s):               BBLS

Propane Tank:       

**Central Battery Location: (IF APPLICABLE)**

Qtr/Qtr: NE/NE Section: 20 Township: 8S Range: 21E

**REMARKS: EMULSION LINE LEAVES LOCATION AND GOES TO CENTRAL BATTERY AT GYPSUM HILLS #3. CASINGHEAD GAS GOES INTO EMULSION LINE. FUEL GAS COMES BACK FROM CENTRAL BATTERY.**

Inspector: DAVID W. HACKFORD Date: 7/7/95

# STATEMENT OF BASIS

CHEVRON U.S.A. Production Company

GYP SUM HILLS UNIT #15  
UINTAH COUNTY, UTAH

EPA PERMIT NUMBER: UT2804-04336

CONTACT: Chuck Williams  
U. S. Environmental Protection Agency  
UIC Implementation Section, 8P2-W-GW  
999 18th Street, Suite 500  
Denver, Colorado 80202-2466  
Telephone: (303) 312-6625

## DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION:

On June 11, 1996, Chevron U.S.A. Production Company, Inc. (Chevron), made application for an underground injection control (UIC) permit to inject produced Green River Formation water from ongoing operations at the Gypsum Hills Unit (GHU), in addition to fresh make-up water from Chevron operated water supply wells into the G<sub>1</sub> Lime zone (locally known) of the Green River Formation.

The majority of water produced at the Gypsum Hills Unit is recycled injection water [19,535 milligrams per liter (mg/l) Total Dissolved Solids (TDS)]. At virgin conditions, only minor amounts of "reservoir" water have been produced since the G<sub>1</sub> Lime injection zone had an irreducible water saturation; therefore, the injection zone is not an underground source of drinking water (USDW).

This permit application is for the conversion of an active oil well to an enhanced oil recovery (EOR) injection well so that Chevron may continue to economically produce oil from their Gypsum Hills Unit.

The area covered by the application is in the Gypsum Hills Unit within the exterior boundaries of the Uintah-Ouray Indian Reservation. The GHU #15 is located in the SW 1/4 of the SW 1/4 (669' from the south line and 667' from the west line) of Section 20, T8S, R21E, Uintah County, Utah. The permittee has sent notices to all surface landowners within one-quarter (1/4) mile of the proposed injection well.

Chevron has submitted all required information and data necessary for permit issuance in accordance with 40 CFR Parts 144, 146 and 147, and a draft permit has been prepared. The permit will be issued for the operating life of the well, unless the permit is terminated for reasonable cause (40 CFR §§ 144.39, 144.40, and 144.41). However, the permit will be reviewed every five (5) years.

This Statement of Basis gives the derivation of the site specific permit conditions and reasons for them, on the basis of the direct implementation regulations promulgated for the Uintah-Ourray Indian Tribal lands in the State of Utah, under the Underground Injection Control (UIC) program provisions for the Safe Drinking Water Act (SDWA). The referenced sections and conditions in this Statement of Basis correspond to the sections and conditions in permit UT2804-04336. The general permit conditions for which the content is mandatory and not subject to site specific differences (based on 40 CFR Parts 144, 146 and 147), are not included in the discussion.

## PART II, Section A WELL CONSTRUCTION REQUIREMENTS

### Casing and Cementing

(Condition 1)

The Gypsum Hills Unit #15 was originally drilled (5/25/95) and completed as a basal Green River "G<sub>1</sub>" Lime oil well. Casing and cementing details were submitted with the permit application. The existing wellbore and construction is as follows:

- (1) **Surface casing** (8-5/8 inch) is set in a 12-1/4 inch diameter hole to a depth of 392 feet kelly bushing (KB). The casing is secured with cement from the casing shoe to the surface, isolating the casing from the wellbore.
- (2) **Production casing** (5-1/2 inch) is set in an 7-7/8 inch diameter hole to a depth of 5,375 feet KB. This casing is secured with 400 sacks Hi-Fill and 85 sacks Premium Plus A-G cement from total depth, up to the surface per Cement Bond Log (CBL). Plugged back total depth (PBSD) is 5,322 feet.

### UPON REENTRY OF THIS ACTIVE OIL WELL, THE CONVERSION TO AN ENHANCED RECOVERY WELL WILL BE AS FOLLOWS:

- (1) Move in rig up (MIRU) service unit, hot oil well as needed, TOH and LD rods and pump. ND well head and NU BOPE, release tbg anchor and trip out of hole (TOH).

- (2) TIH with bit and scraper on workstring, clean out to PBTD.
- (3) TIH with retrievable packer and injection string to minimum setting depth of approximately 5150' (within 100' of top perfs @ 5236'). Note: tubing size (2-3/8" or 2-7/8") will depend upon idle equipment inventory at time of conversion.
- (4) Set packer and conduct preliminary mechanical integrity test (MIT) - annulus pressure on 1000 psi for 15 min.
- (5) Release packer, circulate corrosion inhibited packer fluid and freeze blanket, set packer and land tubing
- (6) ND BPOE and NU WH - conduct successful final MIT according to current UIC Guidance - recording on a chart and having witness sign same.
- (7) RDMO
- (8) RU wireline unit and run pressure bomb to determine static bottom hole pressure - RD wireline - place well on injection status and wait upon approval from the EPA to start injection.

**NOTE: MIT TEST METHODS AND CRITERIA ARE TO FOLLOW CURRENT UIC GUIDANCE. THIS GUIDANCE WILL BE MADE AVAILABLE TO THE PERMITTEE WHEN PERMITTEE NOTIFIES THE DIRECTOR OF AN UPCOMING MIT.**

The construction of the well complies with UIC requirements and is incorporated into the permit.

**Aquifer Exemption:** 40 CFR § 147.2251 (c) (2), "Re: Aquifer Exemption Process," dated June 16, 1982. Due to the extreme variability in water quality and based on comparisons with the data collected for this aquifer study, conducted in 1982, by the State of Utah Natural Resources and Energy, Water Rights department; it is concluded that the **Green River Formation**, beneath the Red Wash, Stagecoach, Walker Hollow, White River, Gypsum Hills, and Wonsists Valley oil fields **be exempted**. Due to the lenticular nature of the Green River permeable zones, the abundance of hydrocarbons, the relatively poor quality of the water contained and the depth, the Green River Formation in this area is not reasonably expected to supply a public water system in the near future. **Top of the Green River Formation for this well may be found at 2136' below ground level.**

The overlying formation is the **Uinta Formation** which extends from surface to about 2136' in this well. The Uinta Tar Sands are found within the Uinta Formation and occur between the depths

of  $\pm 780'$  to a minimum depth of  $\pm 1950'$ . There are no known USDW sands below the top of the Uinta Tar Sands at  $\pm 780'$ . Hydrocarbons are encountered in all zones capable of producing fluid from the top of the tar sands to the base of the Green River Formation. Chevron has water analysis and other information (core analysis) available that shows that USDW reservoirs do not occur below the top of the Uinta Tar Sands. This information, and more was prepared and presented by Mary Schuh, Senior Geologist at Chevron, to EPA staff February, 1993.

The top of the Uinta Tar Sands may be a more accurate interpretation of the base of USDWs in the Gypsum Hills area. Above the tar sands are fluvial deposits which consist of red shales, discontinuous shaley sands, which are non-porous or capable of producing fluids. Additionally, it is not considered reasonable to expect injected water to migrate the  $\pm 3100'$  upward through the Upper Green River to enter the Uinta Formation.

The **confining zone** above the G<sub>1</sub> Lime injection interval consists of 52 feet of shale (5184'-5236'), dolomitic in part with an additional 3084' (2136'-5184') of tight interbedded shales, carbonate mudstones, siltstones, sandy limestones to limy sandstones of the Upper Green River Formation.

#### Tubing and Packer Specifications

(Condition 2)

The 2-3/8 or 2-7/8" inch tubing information submitted by the applicant is incorporated into the permit and shall be binding on the permittee. A packer will be set at a depth of approximately 5150 feet, or no more than 100 feet above the top perforations.

#### Monitoring Devices

(Condition 3)

For the purposes of taking tubing and tubing/casing annulus pressure measurements, the EPA is requiring that the permittee install 1/2 inch fittings with shut-off valves at the well head on the tubing, and on the tubing/casing annulus; and installation of permanent pressure gauges attached to the tubing and tubing/casing annulus to allow for monitoring of the injection and annulus fluid pressures. EPA is further requiring the permittee to install a sampling tap on the injection line and isolated by shut-off valves to allow for injection fluid sampling; and a non-resettable flow meter that will be used to measure cumulative volumes of injected fluid.

#### Formation Testing

(Condition 5)

The permittee is required to determine the injection zone fluid pore pressure (static bottom-hole pressure).

## PART II, Section B CORRECTIVE ACTION

The applicant submitted the required 1/4-mile area of review (AOR) information with the permit application. There are four (4) wells [three (4) active producers, including the subject well (GHU #15)]. The Cement Bond Logs (CBL) for these wells were reviewed along with sundry notices to the State and were found to be adequate. Some wells were drilled recently and used lite cement to cement production casing which results in a different interpretation than the standard cement. These four (4) wells were drilled and adequately cemented according to the State of Utah oil and gas commission in such a manner as to preclude any migration of injected fluids up hole; therefore, the permittee is not required to take any corrective action.

## PART II, Section C WELL OPERATION

### Prior To Commencing Injection (Condition 1)

Injection for the GHU #15 will not commence until the permittee has submitted the following:

- (1) Conversion is complete and the permittee has submitted a **Well Rework Record (EPA Form 7520-12)**.
- (2) Determined the **injection zone fluid pore pressure**.
- (3) A **successful MIT** has been performed and witnessed according to the guidelines discussed in the permit.

### Mechanical Integrity (Condition 2)

A tubing/casing annulus pressure test must be conducted at least once every five (5) years to demonstrate the continued integrity of the casing, tubing, and packer.

### Injection Interval (Condition 3)

Injection will be limited to the G<sub>1</sub> Lime zone of the Green River Formation, in the subsurface interval between the depths of 5,236 feet and 5,251 feet.

### Injection Pressure Limitation (Condition 4)

A fracture gradient of 0.790 psig/ft has been established through step rate testing at existing G<sub>1</sub> Lime injectors in the Gypsum Hills Unit. Using this value, a theoretical maximum allowable surface injection pressure, for this well, may be calculated as shown below:

$$P_m = [FG - (0.433)(S_g)] d$$

Where:  $P_m$  = maximum pressure at wellhead (psig)  
 $FG$  = Fracture Gradient = 0.790 psi/ft  
 $S_g$  = Specific gravity of injected fluid =  
 1.014 (derived from water analysis)  
 $d$  = depth to injection zone = 5236 feet

$$\text{or } P_m = [0.790 - 0.433 (1.014)] 5236$$

$$P_m = 1838 \text{ psig}$$

Until such time as the permittee demonstrates (through a step-rate injectivity test) that the fracture gradient is other than 0.790 psig/ft, the GHU #15 shall be operated at a surface injection pressure no greater than 1838 psig. Permit provisions have been made that allows the Director to **increase or decrease** the injection pressure based upon the test results and/or other parameters reflecting actual injection operations.

#### Injection Volume Limitation

(Condition 5)

There is no limit on the number of barrels of water per day (BWPD) that may be injected into the GHU #15, provided that in no instance shall injection pressure exceed that limit shown in Part II, Section C. 4. of this permit.

#### Injection Fluid Limitation

(Condition 6)

Injection fluids are limited to those which are identified in 40 CFR § 144.6 (b) (2) as fluids used for enhanced recovery of oil or natural gas. The permittee shall provide a listing of the sources of injected fluids on an annual basis as required by the permit.

## PART II, Section D      MONITORING, RECORDKEEPING AND REPORTING OF RESULTS

#### Injection Well Monitoring Program

(Condition 1)

The permittee is required to monitor water quality of the injected fluids at annual intervals. A water sample shall be analyzed for total dissolved solids, Ph, specific conductivity, and specific gravity. Any time there is a change in the source of injection fluid, a new water quality analysis is required. This record is required to be reported to EPA annually.

Weekly observations of injection and annulus pressure will be made. At least one observation each for injection pressure and annulus pressure will be recorded on a monthly basis. This record is required to be reported to EPA annually (February 15).

In addition, weekly observations of flow rate and cumulative volume will be made. At least one observation each for flow rate and cumulative volume will be recorded on a monthly basis. This record is required to be reported to EPA annually (February 15).

The permittee shall maintain copies (or originals) of all pertinent records at the office of:

**Chevron U.S.A. Production Company**  
Vernal, Utah

## PART II, Section E PLUGGING AND ABANDONMENT

### Plugging and Abandonment Plan

(Condition 2)

The plugging and abandonment plan was submitted by the applicant and is incorporated into the permit (**Appendix C** of the permit) and shall be binding on the permittee. This plan has been reviewed and approved by the EPA as follows:

- PLUG NO. 1:     **Perforations** - within the 5-1/2" casing, set a cast iron bridge plug (CIBP) at 5216' and cap with 35' of Class H cement - **displace well to 4150' with 9.2 ppg plugging gel or bentonite mud.**
- PLUG NO. 2:     **Oil Shale interval (3470' - 4154')** as required by BLM. Set cast iron bridge plug (CIBP) at 4210' and cap with 476' of Class H cement - **displace well to 2050' with 9.2 ppg plugging gel or bentonite mud.**
- PLUG NO. 3:     **Green River Formation (top at 2136')**. Set CIBP at 2190' and cap with 100' of Class H cement - **displace well to surface with 9.2 ppg plugging gel or bentonite mud.**
- PLUG NO. 4:     **Surface plug.** Set CIBP at 350' and fill to surface with cement.

Cut casing off at cellar floor, install P&A marker w/well data. Notify operations to rehab location.

**PART II, Section F FINANCIAL RESPONSIBILITY**

Demonstration of Financial Responsibility (Condition 1)

The permittee has chosen to demonstrate financial responsibility through a Financial Statement that has been evaluated and approved by EPA.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

## UNDERGROUND INJECTION CONTROL PROGRAM

### FINAL PERMIT

Class II Enhanced Oil Recovery Well  
Permit No. UT2804-04336

Well Name: Gypsum Hills Unit #15  
Field Name: Gypsum Hills  
County & State: Uintah, Utah

issued to:

Chevron U.S.A. Production Company  
11002 East 17500 South  
Vernal, Utah 84078-8526

Date Prepared: September, 1996



Printed on Recycled Paper

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## PART I. AUTHORIZATION TO CONVERT AND INJECT

Pursuant to the Underground Injection Control (UIC) Regulations of the U. S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

**Chevron U.S.A. Production Company**  
11002 East 17500 South  
Vernal, Utah 84078-8526

is hereby authorized to convert and inject into the Class II injection well, commonly known as Gypsum Hills Unit (GHU) #15, located in the NE 1/4 of the NW 1/4, (643 feet from the north line and 1983 feet from the west line) Section 20, Township 8 South, Range 21 East in Uintah County, Utah. The well is also located within the exterior boundaries of the Uintah-Ouray Indian Reservation. Injection shall be for the purpose of enhancing the recovery of oil from the G<sub>1</sub> Lime (locally known) of the Green River Formation, in accordance with conditions set forth herein.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. "Prior to Commencing Injection" requirements are set forth in Part II, Section C. 1. of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of 32 pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record.

This permit and the authorization to inject are issued for the operating life of the well, unless terminated (Part III, Section B), or except upon automatic expiration due to prolonged postponement of conversion (Part II, Section A. 6.). The permit will be reviewed by EPA at least every five (5) years to determine whether action under 40 CFR § 144.36 (a) is warranted. The permit will expire upon delegation of primary enforcement responsibility for the UIC Program to the State of Utah, Division of Oil, Gas, and Mining, or the Uintah-Ouray Indian Agency, unless either the State or the Agency has adequate authority, and chooses, to adopt and enforce this permit as a State permit or Agency permit.

OCT -2 1996

Issued this date: \_\_\_\_\_.

OCT -2 1996

This permit shall become effective \_\_\_\_\_.



\_\_\_\_\_  
Kerrigan G. Clough  
Assistant Regional Administrator  
Office of Pollution Prevention,  
State and Tribal Assistance

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

## PART II. SPECIFIC PERMIT CONDITIONS

### A. WELL CONVERSION REQUIREMENTS

1. Casing and Cementing. The construction details submitted with the application are hereby incorporated into this permit as **Appendix A**, which graphically displays the casing and cement details. This plan has been reviewed by the EPA and is consistent with UIC requirements and shall be binding on the permittee.
2. Tubing and Packer Specifications. A tubing of two and three-eighths (2-3/8) or two and seven-eighths (2-7/8) inches diameter shall be utilized. A packer will be set at a depth of approximately 5150 feet, or no more than 100 feet above the perforations. Injection between the outermost casing protecting underground sources of drinking water (USDWs) and the wellbore is prohibited.
3. Monitoring Devices. The operator shall provide and maintain in good operating condition:
  - (a) a tap on the injection line, isolated by shut-off valves, for the purpose of obtaining representative samples of the injection fluids;
  - (b) two (2), one-half (1/2) inch Female Iron Pipe (FIP) fittings, isolated by plug or globe valves, and located: 1) at the wellhead on the tubing; and 2) on the tubing/casing annulus; and installation of permanent pressure gauges attached to the tubing and tubing/casing annulus to allow for monitoring of the injection and annulus fluid pressures; and
  - (c) a non-resettable flow meter with cumulative volume recorder that is certified for at least ninety-five (95) percent accuracy, throughout the range of injection rates allowed by the permit.
4. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted well. Major alterations or workovers of the permitted well shall meet all conditions as set forth in this permit. A major alteration/workover shall be considered any work performed, which affects casing, packer(s), or tubing.

The permittee shall provide all records of well workovers, logging, or other test data to EPA within sixty (60) days of completion of the activity. **Appendix B** contains samples of the appropriate reporting forms.

Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of workovers/alterations and prior to resuming injection activities, in accordance with Part II, Section C. 2.

5. Formation Testing. Upon conversion of this well, the permittee shall determine the injection zone pore pressure (static bottom-hole pressure).
6. Postponement of Conversion. If the well is not converted to injection status within one (1) year from the effective date of this permit, the well will be plugged and abandoned in accordance with the Plugging and Abandonment Plan (**Appendix C**), unless the permittee requests an extension. The request shall be made to the Director, in writing, and shall state the reasons for the delay in conversion and confirm the protection of all USDWs. The extension under this section may not exceed one (1) year. Financial responsibility shall be maintained during the period of inactivity in accordance with Part II, Section F. Once authorization to inject expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be reissued.

## B. CORRECTIVE ACTION

The operator is not required to take any corrective action before the effective date of this permit.

## C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations for the GHU #15 may not commence until the permittee has complied with and submitted (a), and (b) as follows:
  - (a) Conversion is complete and all required formation testing logging has been performed in accordance with Part II, A. 5., and the permittee has submitted a Well Rework Record (Form 7520-12 in **Appendix B**); and
    - (i) The Director has inspected or otherwise

reviewed the new injection well and finds it is in compliance with the conditions of the permit; or

- (ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within thirteen (13) days of the date of the Well Rework Record in paragraph (a) of this permit condition in which case prior inspection or review is waived and the permittee may commence injection. **(Note: However, in all circumstances, item (b) below must also be satisfied).**
- (b) The permittee demonstrates that the well has mechanical integrity in accordance with 40 CFR § 146.8 and Part II, C. 2. below, and has received written notice from the Director that such a demonstration is satisfactory. The permittee shall notify EPA two (2) weeks prior to conducting this test so that an authorized representative may be present to observe the test. Results of the test shall be submitted to the Director, **on the form found in Appendix B**, as soon as possible but no later than thirty (30) days after the demonstration; and

## 2. Mechanical Integrity.

- (a) Notification. The Permittee shall notify the Director at least two (2) weeks prior to any required integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests (MIT), or it may be on an individual basis.
- (b) Test Methods and Criteria. Test methods and criteria are to follow **current UIC Guidance for Conducting a Pressure Test to determine if a Well has leaks in the Tubing, Casing or Packer.** This guidance will be made available to the Permittee when permittee notifies the Director (paragraph 1., above) of an upcoming MIT.
- (c) Routine Demonstrations of Mechanical Integrity. The Permittee must demonstrate mechanical integrity by arranging and conducting a routine tubing/casing annulus pressure test at least once

every five (5) years during the life of the facility and **after workovers** (see Part II. A. 5.). Results of the test shall be submitted (on an EPA form found in **Appendix B**) to the Director as soon as possible but no later than sixty (60) days after the test is complete.

- (d) Loss of Mechanical Integrity. If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR § 146.8 becomes evident during operation, the permittee shall notify the Director in accordance with Part III, Section E. 10. (c) of this permit. Furthermore, injection activities shall be terminated immediately; and operation shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and the Director gives approval to recommence injection.
3. Injection Interval. Injection shall be limited to the G<sub>1</sub> Lime of the Green River Formation in the subsurface interval between the depths of 5236 feet and 5251 feet.
4. Injection Pressure Limitation.
- (a) Injection pressure, measured at the surface, shall not exceed an amount that the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs.
- (b) The exact pressure limit may be increased or decreased by the Director in order to ensure that the requirements in paragraph (a) are fulfilled. In order to determine an exact pressure limit, the permittee shall conduct a step rate injection test or other authorized well test(s) that will serve to determine the fracture pressure of the injection zone. The test procedures shall be pre-approved in writing by the Director. The Director will specify in writing, to the permittee, any **increase or decrease** to the injection pressure based upon the test results and/or other parameters reflecting actual injection operations. Until such time that this demonstration and approval is made, the initial injection pressure, measured at the surface, **shall not exceed 1838 psig.**
5. Injection Volume Limitation. There is no limitation on the number of barrels of water per day (BWPD) that may be injected into this well, provided further that in no

case shall injection pressure exceed that limit shown in Part II, Section C. 4. (b) of this permit.

6. Injection Fluid Limitation. Injection fluids are limited to those which are identified in 40 CFR § 144.6 (b) (2) as fluids used for enhanced recovery of oil or natural gas. The permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II. Section D. 4. of this permit.
7. Annular Fluid. The annulus between the tubing and the casing shall be filled with produced water treated with a corrosion inhibitor, and a diesel freeze blanket may be circulated from surface to below frost level at completion to prevent freezing and possible equipment failure during winter months or other fluid as approved, in writing, by the Director.

#### D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Injection Well Monitoring Program. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table 1 of 40 CFR § 136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:
  - (a) Analysis of the injection fluids, performed annually for Total Dissolved Solids, pH, Specific Conductivity, and Specific Gravity; and
  - (b) Weekly observations of flow rate and cumulative volume. At least one observation of flow rate and cumulative volume, each, shall be recorded at 30 day intervals.
  - (c) Weekly observations of injection and annulus pressure. At least one observation of injection pressure and annulus pressure, each, shall be recorded at 30 day intervals.
  - (d) The permittee may request that the frequency of observations in paragraph (c), above, be reduced after the first year if the reduced frequency will yield data representative of the injection pressure. The frequency of observations shall not be less than once every 30 days.

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:
- (a) The date, exact place, the time of sampling or field measurements;
  - (b) The name of the individual(s) who performed the sampling or measurements;
  - (c) The exact sampling method(s) used to take samples;
  - (d) The date(s) laboratory analyses were performed;
  - (e) The name of the individual(s) who performed the analyses;
  - (f) The analytical techniques or methods used by laboratory personnel; and
  - (g) The results of such analyses.
3. Recordkeeping.
- (a) The permittee shall retain records concerning:
    - (i) the nature and composition of all injected fluids until three (3) years after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in **Appendix C**, and is consistent with 40 CFR § 146.10.
    - (ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.
  - (b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless he delivers the records to the Director or obtains written approval from the Director to discard the records.
  - (c) The permittee shall maintain copies (or originals) of all pertinent records at the office of:

**Chevron U.S.A. Production Company**  
**Vernal, Utah**

4. Annual Reporting. The permittee shall submit an Annual Report, whether injecting or not, to the Director summarizing the results of the monitoring required by Part II, Section D. 1. of this permit. The permittee shall also include a listing of all sources of the fluids injected during the year identifying the source by either the well name(s), the field(s), or the facility name(s).

The first Annual Report shall cover the period from the effective date of the permit through December 31 of that year. Subsequently, the Annual Report shall cover the period from January 1 through December 31, and shall be submitted by February 15 of the following year. Appendix B contains Form 7520-11 which may be copied and used to submit the annual summary of monitoring.

## E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before conversion, workover, or abandonment of the well.
2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan, Appendix C. This plan incorporates information supplied by the permittee and EPA. The EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may ask the permittee to update the estimated plugging cost periodically. Such estimates shall be based upon costs which a third party would incur to plug the well according to the plan.
3. Cessation of Injection Activities. After a cessation of operations of two (2) years, the permittee shall plug and abandon the well in accordance with the Plugging and Abandonment Plan, unless he:
  - (a) has provided notice to the Director; and
  - (b) has demonstrated that the well will be used in the future; and

- (c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.
4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan; or (2) where actual plugging differed from the plan, a statement that specifies the different procedures followed.

## F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permittee is required to maintain continuous financial responsibility and resources to close, plug and abandon (P&A) the injection well as provided in the plugging and abandonment plan.
- (a) The permittee shall **submit financial statements** and other information **annually**, or as required by EPA, in order to demonstrate that its financial position remains sound, and that it continues to have adequate financial resources, as determined by EPA, to close, plug, and abandon the injection well in accordance with the approved P&A plan.
- (b) If financial statements or other information indicate that the permittee no longer has financial resources, according to EPA criteria, to assure that the injection well will be properly plugged and abandoned, then the permittee must make an alternate showing of financial responsibility. This showing must be acceptable to the Director and must be submitted within sixty (60) days after having been notified by EPA of the necessity for making an alternate showing of financial responsibility.
- (c) The permittee may upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility from financial statement coverage to a financial instrument such as a bond, letter of credit, or trust fund. Any change must be approved by the Director.

2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved under (b) or (c), above, the permittee must submit an alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:
- (a) The institution issuing the trust or financial instrument files for bankruptcy; or
  - (b) The authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.
3. Cancellation of Demonstration by Financial Institution. The permittee must submit an alternative demonstration of financial responsibility acceptable to the Director, within sixty (60) days after the institution issuing the trust or financial instrument serves 120-day notice to the EPA of their intent to cancel the trust or financial instrument.

## PART III. GENERAL PERMIT CONDITIONS

### A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR, Part 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health, or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

### B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon a request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR §§ 124.5, 144.12, 144.39, and 144.40. Also, the permit is subject to minor modifications for cause as specified in 40 CFR § 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.
2. Conversions. The Director may, for cause or upon a request from the permittee allow conversion of the well from a Class II injection well to a non-Class II well. Requests to convert the injection well from its Class II status to a non-Class II well, such as a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is

received by the permittee. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, and well specific monitoring and reporting following the conversion. In the case of conversion back to an oil or gas well, monitoring and reporting will be for a period of not less than six (6) months, during which period the permittee will submit to this EPA office copies of not less than six (6) consecutive monthly reports as submitted to the State of Utah Oil, Gas, and Mining Division. Following conversion to a production well the permittee will maintain financial responsibility to plug and abandon the well. Once these requirements of conversion to a non-Class II well are met the EPA will remove the well from the UIC inventory list.

3. Transfers. This permit is not transferrable to any person except after notice is provided to the Director and the requirements of 40 CFR § 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.

## C. SEVERABILITY

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

## D. CONFIDENTIALITY

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

- The name and address of the permittee; and

- Information which deals with the existence, absence or level of contaminants in drinking water.

## E. GENERAL DUTIES AND REQUIREMENTS

1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such noncompliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).
2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.
3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities or similar systems, only when necessary, to achieve compliance with the conditions of this permit.
6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine

whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

7. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
  - (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
  - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
  - (d) Sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.
8. Records of Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.
9. Signatory Requirements. All reports or other information requested by the Director shall be signed and certified according to 40 CFR § 144.32.
10. Reporting of Noncompliance.
  - (a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
  - (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any

compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

(c) Twenty-four Hour Reporting.

(i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning EPA at (303) 312-6203 (during normal business hours) or at (303) 312-6125 (for reporting at all other times). The following information shall be included in the verbal report:

(A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.

(B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

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

(d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10. (C) (ii) of this permit.

(e) Other Information. Where the permittee becomes aware that he failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any

report to the Director, the permittee shall submit such correct facts or information within two (2) weeks of the time such information becomes known.

**APPENDIX A**  
**(CONVERSION DETAILS)**

**UPON REENTRY OF THIS ACTIVE OIL WELL, THE CONVERSION TO AN ENHANCED RECOVERY WELL WILL BE AS FOLLOWS:**

- (1) Move in rig up (MIRU) service unit, hot oil well as needed, TOH and LD rods and pump. ND well head and NU BOPE, release tbg anchor and trip out of hole (TOH).
- (2) TIH with bit and scraper on workstring, clean out to PSTD.
- (3) TIH with retrievable packer and injection string to minimum setting depth of approximately 5150' (within 100' of top perfs @ 5236'). Note: tubing size (2-3/8" or 2-7/8") will depend upon idle equipment inventory at time of conversion.
- (4) Set packer and conduct preliminary mechanical integrity test (MIT) - annulus pressure on 1000 psi for 15 min.
- (5) Release packer, circulate corrosion inhibited packer fluid and freeze blanket, set packer and land tubing
- (6) ND BPOE and NU WH - conduct successful final MIT according to current UIC Guidance - recording on a chart and having witness sign same.
- (7) RDMO
- (8) RU wireline unit and run pressure bomb to determine static bottom hole pressure - RD wireline - place well on injection status and wait upon approval from the EPA to start injection.

**NOTE: MIT TEST METHODS AND CRITERIA ARE TO FOLLOW CURRENT UIC GUIDANCE. THIS GUIDANCE WILL BE MADE AVAILABLE TO THE PERMITTEE WHEN PERMITTEE NOTIFIES THE DIRECTOR OF AN UPCOMING MIT.**

The construction of the well complies with UIC requirements and is incorporated into the permit.

**APPENDIX B**  
**(REPORTING FORMS)**

1. EPA Form 7520- 7: APPLICATION TO TRANSFER PERMIT
2. EPA Form 7520-10: COMPLETION REPORT FOR BRINE DISPOSAL WELL
3. EPA Form 7520-11: ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT
4. EPA Form 7520-12: WELL REWORK RECORD
5. EPA Form 7520-13: PLUGGING RECORD
6. EPA Form R8: MECHANICAL INTEGRITY PRESSURE TEST CASING/TUBING ANNULUS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

**APPLICATION TO TRANSFER PERMIT**

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER
--	-----------------------------------

<p>LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES</p>	STATE	COUNTY	PERMIT NUMBER	
	SURFACE LOCATION DESCRIPTION			
	¼ OF	¼ OF	¼ SECTION	TOWNSHIP
	RANGE			
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT				
Surface Location ____ ft. from (N/S) ____ Line of quarter section				
and ____ ft. from (E/W) ____ Line of quarter section				
WELL ACTIVITY		WELL STATUS		
<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage <input type="checkbox"/> Class III <input type="checkbox"/> Other		<input type="checkbox"/> Operating <input type="checkbox"/> Modification/Conversion <input type="checkbox"/> Proposed		
		TYPE OF PERMIT		
		<input type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells ____		
Lease Name		Well Number		

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)	NAME AND ADDRESS OF NEW OPERATOR
---	----------------------------------

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

**CERTIFICATION**

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)*

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
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## Well Class and Type Codes

**Class I** Wells used to inject waste below the deepest underground source of drinking water.

**Type "I"** Nonhazardous industrial disposal well  
**"M"** Nonhazardous municipal disposal well  
**"W"** Hazardous waste disposal well injecting below USDW's  
**"X"** Other Class I wells (not included in Type "I," "M," or "W")

**Class II** Oil and gas production and storage related injection wells.

**Type "D"** Produced fluid disposal well  
**"R"** Enhanced recovery well  
**"H"** Hydrocarbon storage well (excluding natural gas)  
**"X"** Other Class II wells (not included in Type "D," "R," or "H")

**Class III** Special process injection wells.

**Type "G"** Solution mining well  
**"S"** Sulfur mining well by Frasch process  
**"U"** Uranium mining well  
**"X"** Other Class III wells (not included in Type "G," "S," or "U")

**Other Classes** Wells not included in classes above.

Class V wells which may be permitted under §144.12

Wells not currently classified as Class I, II, III, or V.



**COMPLETION REPORT FOR BRINE DISPOSAL,  
HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL**

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER
--	-----------------------------------

<p>LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES</p>	STATE	COUNTY	PERMIT NUMBER	
	SURFACE LOCATION DESCRIPTION			
	¼ OF	¼ OF	¼ SECTION	TOWNSHIP
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT			
	Surface Location _____ ft. from (N/S) _____ Line of quarter section and _____ ft. from (E/W) _____ Line of quarter section			
WELL ACTIVITY		TYPE OF PERMIT		
<input type="checkbox"/> Brine Disposal	<input type="checkbox"/> Individual	Estimated Fracture Pressure of Injection Zone		
<input type="checkbox"/> Enhanced Recovery	<input type="checkbox"/> Area			
<input type="checkbox"/> Hydrocarbon Storage	Number of Wells _____			
Anticipated Daily Injection Volume (Bbls)		Injection Interval		
Average	Maximum	Feet	to Feet	
Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)		
Average	Maximum			

<p>Type of Injection Fluid (Check the appropriate block(s))</p> <input type="checkbox"/> Salt Water <input type="checkbox"/> Brackish Water <input type="checkbox"/> Fresh Water <input type="checkbox"/> Liquid Hydrocarbon <input type="checkbox"/> Other	Lease Name	Well Number
Name of Injection Zone		

Date Drilling Began	Date Well Completed	Permeability of Injection Zone
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Date Drilling Completed	Porosity of Injection Zone
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CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION		WIRE LINE LOGS, LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

**CERTIFICATION**

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).*

NAME AND OFFICIAL TITLE (Please type or print)	DATE SIGNED
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## **ATTACHMENTS**

- A. Present a schematic or other appropriate drawings of the surface and subsurface construction details of the well as built.**
- B. Describe the method and results of mechanical integrity testing.**
- C. Present the results of that portion of those logs, tests, and cores which specifically relate to (1) underground sources of drinking water and the confining zone(s) and (2) the injection and adjacent formations.**
- D. Present the status of corrective action on defective wells in the area of review.**
- E. Provide to EPA, with the completion report, one final print of all geophysical logs run.**

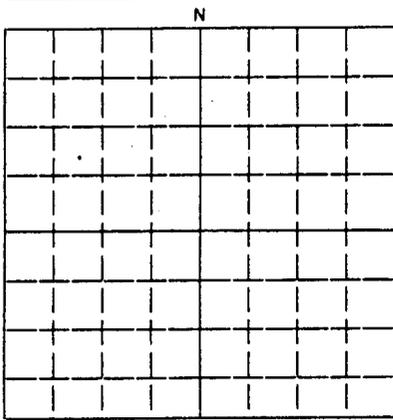






# PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY	NAME AND ADDRESS OF OWNER/OPERATOR
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LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES  	STATE	COUNTY	PERMIT NUMBER
	SURFACE LOCATION DESCRIPTION		
	¼ OF                      ¼ OF                      ¼ SECTION                      TOWNSHIP                      RANGE LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location _____ ft. from (N/S) _____ Line of quarter section and _____ ft. from (E/W) _____ Line of quarter section		
	TYPE OF AUTHORIZATION <input type="checkbox"/> Individual Permit <input type="checkbox"/> Area Permit <input type="checkbox"/> Rul. Number of Wells _____  Lease Name _____		WELL ACTIVITY <input type="checkbox"/> CLASS I <input type="checkbox"/> CLASS II <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage <input type="checkbox"/> CLASS III  Well Number _____

CASING AND TUBING RECORD AFTER PLUGGING					METHOD OF EMPLACEMENT OF CEMENT PLUGS		
SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE	<input type="checkbox"/> The Balance Method		
					<input type="checkbox"/> The Dump Bailer Method		
					<input type="checkbox"/> The Two-Plug Method		
					<input type="checkbox"/> Other		

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)			
From	To	From	To

Estimated Cost to Plug Wells

### CERTIFICATION

*I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)*

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
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# MECHANICAL INTEGRITY PRESSURE TEST FOR WELL UT2804-04336

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other):

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Signature of Witness: \_\_\_\_\_

<b>OFFICE USE ONLY-COMPLIANCE FOLLOWUP</b>	
Staff _____	Date _____
Do you agree with the reported test result? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If not, why _____	
Possible violation identified? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, what is it? _____	
IF YES - Followup initiated? <input type="checkbox"/> Yes _____	
<input type="checkbox"/> No, why not? _____	

Data Entry                       Compliance Staff                       2nd Data Entry                       Hard Copy Filing

## APPENDIX C

### (PLUGGING & ABANDONMENT PLAN)

Plugging and Abandonment Plan

Plugging and Abandonment Schematic

## PLUGGING AND ABANDONMENT PLAN

- PLUG NO. 1: **Perforations** - within the 5-1/2" casing, set a cast iron bridge plug (CIBP) at 5216' and cap with 35' of Class H cement - **displace well to 4150' with 9.2 ppg plugging gel or bentonite mud.**
- PLUG NO. 2: **Oil Shale interval (3470' - 4154')** as required by BLM. Set cast iron bridge plug (CIBP) at 4210' and cap with 476' of Class H cement - **displace well to 2050' with 9.2 ppg plugging gel or bentonite mud.**
- PLUG NO. 3: **Green River Formation (top at 2136')**. Set CIBP at 2190' and cap with 100' of Class H cement - **displace well to surface with 9.2 ppg plugging gel or bentonite mud.**
- PLUG NO. 4: **Surface plug.** Set CIBP at 350' and fill to surface with cement.

Cut casing off at cellar floor, install P&A marker w/well data. Notify operations to rehab location.

# P&A PLAN WELLBORE DIAGRAM

WELL: GYPSUM HILLS # 15  
 LOCATION: 669' FSL & 667' FWL  
SWSW-SEC. 20-T8S-R21E  
UINTAH COUNTY, UTAH

KBE: 4767'  
 GLE: 4751'  
 TD: 7300'  
 PBTD: 7258'

LEASE: U-01407400  
 API #: 43-047-32648

WELLBORE PLUGS:

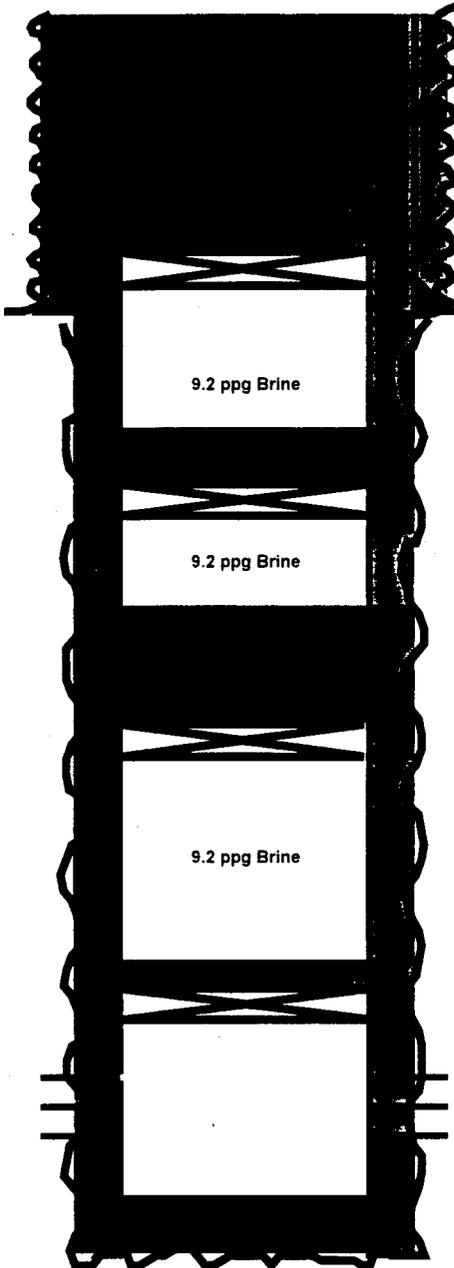
PLUG #4: SURFACE PLUG  
 CIBP AT ~350', PERFORATION  
 AT ~340', CLASS CEMENT  
 CIRCULATED IN CASING AND  
 SURFACE/PRODUCTION  
 CASING ANNULUS  
 TOP @ SURFACE  
 BOTTOM @ ~350'

PLUG #3: GREEN RIVER TOP  
 CIBP AT 2190' CAPPED WITH  
 100' OF CLASS H CEMENT  
 TOP @ 2090'  
 BOTTOM @ 2190'

PLUG #2: OIL SHALE PLUG,  
 CIBP AT ~4210' CAPPED WITH  
 476' OF CLASS H CEMENT  
 TOP @ 3420'  
 BOTTOM @ 4210'

PLUG #1: CIBP @ ~5216'  
 CAPPED WITH 35' OF CLASS  
 H CEMENT.  
 TOP @ 5185'  
 BOTTOM @ 5220'

PBTD: 5322'  
 TD: 5377'



SURFACE HOLE & CASING:

HOLE SIZE: 12-1/4"  
 CSG. TYPE & SIZE: 8 5/8", 24# K-55, ST&C  
 SETTING DEPTH: 392'  
 CEMENT: 180 SX. CLASS G  
 CEMENT TOP: SURFACE

GEOLOGIC MARKERS:

UINTA	SURFACE
GREEN RIVER	2136'
OIL SHALE	3470-4154'
G1 LIME	5234'

Green River: 2136'

Mahogany Ledge Oil Shale. 3470-4154'

Confining Zone: 5184-5234'

INJECTION ZONE:

G1 LIME 5236-5251'

PRODUCTION HOLE AND CASING:

HOLE SIZE: 7 7/8"  
 CSG. TYPE & SIZE: 5 1/2", 15.5# K-55, ST&C  
 SETTING DEPTH: 5375'  
 CEMENT: 400 SX. HI-FILL STANDARD LEAD,  
 85 SX. PREMIUM PLUS 1-G  
 CEMENT TOP: SURFACE

BY: R.A. Griffin  
 6/11/96

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT--" for such proposals

5. Lease Designation and Serial No.  
U-0140740

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
GYPSUM HILLS UNIT

8. Well Name and No.  
GYPSUM HILLS UNIT 15

9. API Well No.  
43-047-32648

10. Field and Pool, or Exploratory Area  
Gypsum Hills Unit - Green River

11. County or Parish, State  
UINTAH, UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil Gas  
 Well  Well  Other INJECTION

2. Name of Operator  
CHEVRON U.S.A. PRODUCTION COMPANY

3. Address and Telephone No.  
11002 E. 17500 S. VERNAL, UT 84078-8526  
Steve McPherson in Red Wash (801) 781-4310  
or Gary Scott in Rangely, CO. (970) 675-3791

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
669' FSL & 667' FWL (SW SW) SECTION 20, T8S, R21E, SLBM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

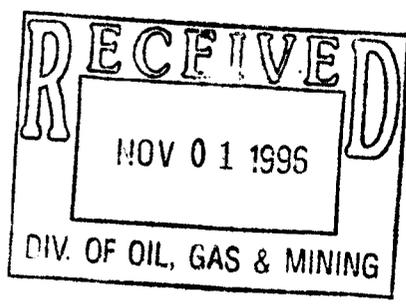
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

DATE OF WORK: 10/23/96 THUR 10/25/96

1. POOH WITH PRODUCTION STRING.
2. CLEANED OUT TO 5322' (PBTD).
3. EQUIP TO INJECT.
4. CONDUCT FINAL UIC TEST.



Jerry Barnes/BLM witnessed UIC test

14. I hereby certify that the foregoing is true and correct  
Signed G.D. Scott Title DRILLING TECHNICIAN Date October 29, 1996

(This space for Federal or State office use)  
Approved by: \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Qualified for tax credit - 5/97 \*See instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT--" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Gas  
 Well  Well  Other INJECTION

2. Name of Operator  
**CHEVRON U.S.A. PRODUCTION COMPANY**

3. Address and Telephone No.  
**11002 E. 17500 S. VERNAL, UT 84078-8526** Steve McPherson in Red Wash (801) 781-4310  
 or Gary Scott in Rangely, CO. (970) 675-3791

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**669' FSL & 667' FWL (SW SW) SECTION 20, T8S, R21E, SLBM**

5. Lease Designation and Serial No.  
**U-0140740**

6. If Indian, Allottee or Tribe Name  
**N/A**

7. If Unit or CA, Agreement Designation  
**GYPSUM HILLS UNIT**

8. Well Name and No.  
**GYSUM HILLS UNIT 15**

9. API Well No.  
**43-047-32648**

10. Field and Pool, or Exploratory Area  
**Gypsum Hills Unit - Green River**

11. County or Parish, State  
**UINTAH, UTAH**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

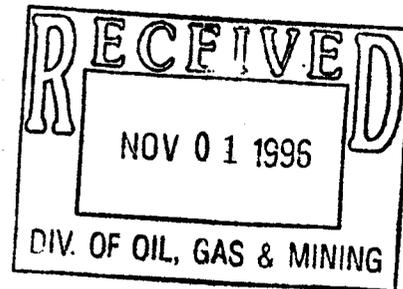
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

DATE OF WORK: **10/23/96 THUR 10/25/96**

1. POOH WITH PRODUCTION STRING.
2. CLEANED OUT TO 5322' (PBSD).
3. EQUIP TO INJECT.
4. CONDUCT FINAL UIC TEST.



Jerry Barnes/BLM witnessed UIC test

14. I hereby certify that the foregoing is true and correct  
 Signed *G.D. Scott* Title DRILLING TECHNICIAN Date October 29, 1996

(This space for Federal or State office use)

Approved by: \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# Mechanical Integrity Test

## Casing or Annulus Pressure Test for Well UT2804-04336

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Implementation Section, 8WM-DW  
999 18th Street, Suite 500, Denver, CO 80202-2466

This form was printed on 09/25/1996.

EPA Witness: S.W. Kebert Chevron USA Inc. Jerry Barnes B.L.M. Date: 10/25/96

Test conducted by: Gudac Bros Inc.

Others present: Eddie Gudac, Mike Gudac, Rig crew.  
Attn: Jerry Barnes

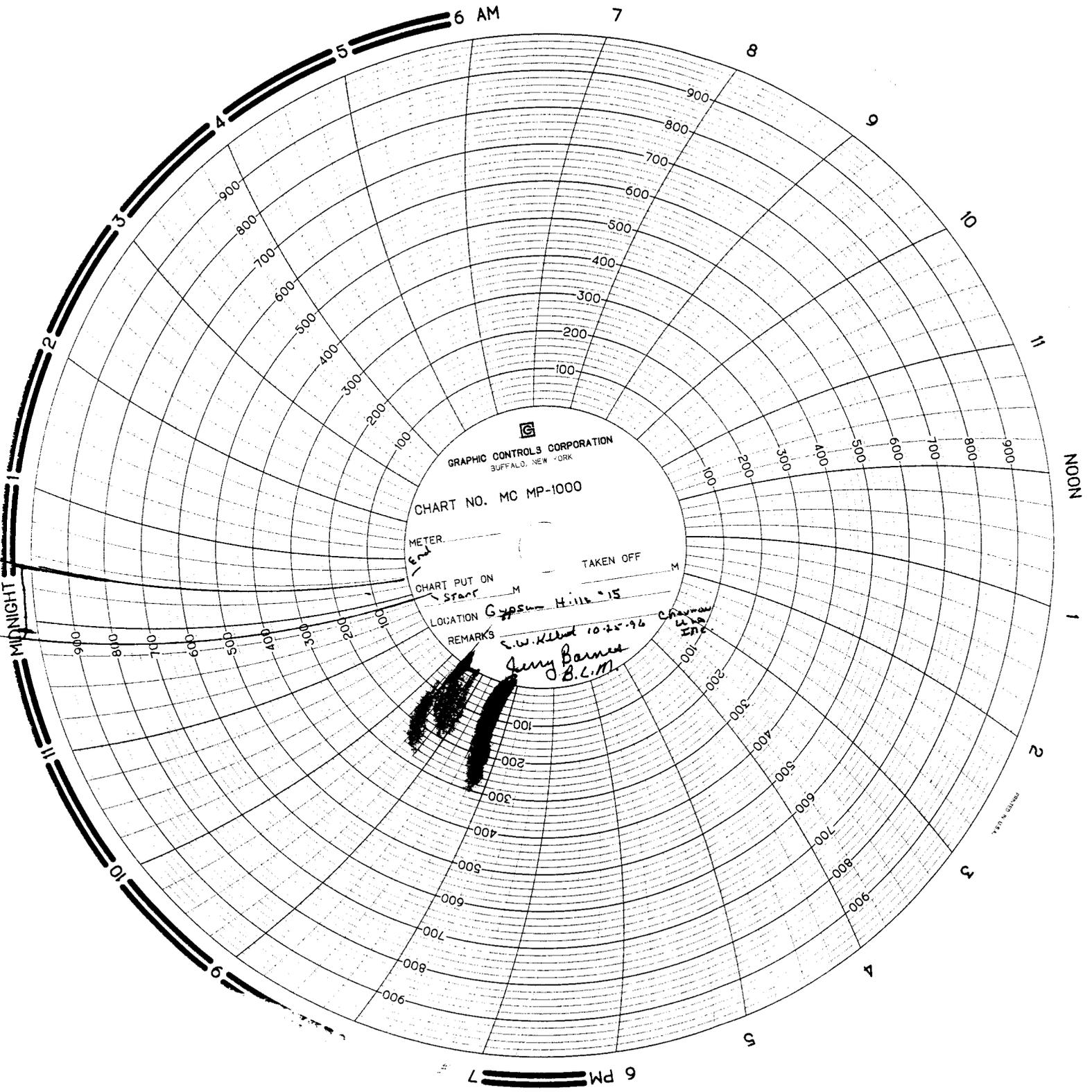
GH #15	<u>43-047-32648</u>	2R UC as of 06/18/1996
GYPSUM HILLS		SWSW 20 08S 21E
Chevron U.S.A., Inc., Vernal, UT		Op ID CVR04
Last MIT: No record / / *		
Max Allowed Press psig		1995 Max Reported Press 0 psig

Is this a regularly scheduled test?  Yes  No  
 Initial test for permit?  Yes  No  
 Test after well rework?  Yes  No

Well injecting during test?  NO  YES \_\_\_\_\_ BPD

Initial casing/tubing annulus pressure \_\_\_\_\_ psig  
 Does the annulus pressure build back up?  Yes  No

TUBING PRESSURE			
Initial	psig	psig	psig
End of Test	psig	psig	psig
CASING/TUBING ANNULUS PRESSURE			
Time	Test #1	Test #2	Test #3
0 min	1050 psig	psig	psig
5	1050		
10	1050		
15 min	1050		
20	1050		
25	1050		
30 min	1050		
<b>Result (circle)</b>	<b>Pass</b>	<b>Fail</b>	<b>Pass</b>
			<b>Fail</b>



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT--" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil Gas  
 Well  Well  Other **MULTIPLE WELLS LIST ATTACHED**

2. Name of Operator  
**CHEVRON U.S.A. INC.**

3. Address and Telephone No.  
**11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4300**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name  
**N/A**

7. If Unit or CA, Agreement Designation  
**GYPSUM HILLS UNIT  
UTU 67951A**

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area  
**Gypsum Hills Unit**

11. County or Parish, State  
**UINTAH, UTAH**

**CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>CHANGE OF OPERATOR</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

As of January 1, 2000 Chevron U.S.A. Inc. resigns as Operator of the Gypsum Hills Unit.  
The Unit number is UTU 76951A effective April 1, 1991.

The successor operator under the Unit Agreement will be  
Shenandoah Energy Inc.  
475 17th Street, Suite 1000  
Denver, CO 80202

Agreed and accepted to this 29<sup>th</sup> day of December, 1999

Shenandoah Energy Inc.

By: Mitchell L. Solich  
Mitchell L. Solich  
President

**RECEIVED**

**DEC 30 1999**

DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.  
Signed A. E. Wacker A. E. Wacker Title Assistant Secretary Date 12/29/1999

(This space for Federal or State office use)

Approved by: \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

# RECEIVED

FEB 07 2000

DIVISION OF  
OIL, GAS AND MINING

IN REPLY REFER TO  
UT-931

February 4, 2000

Shenandoah Energy Inc.  
Attn: Rae Cusimano  
475 17<sup>th</sup> Street, Suite 1000  
Denver, Colorado 80202

Re: Gypsum Hills (Green River) Unit  
Uintah County, Utah

Gentlemen:

On December 30, 1999, we received an indenture whereby Chevron U.S.A. Inc. resigned as Unit Operator and Shenandoah Energy Inc. was designated as Successor Unit Operator for the Gypsum Hills (Green River) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 4, 2000. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Gypsum Hills (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the Gypsum Hills (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

cc: Chevron U.S.A. Inc.

bcc: Field Manager - Vernal (w/enclosure)

~~Division of Oil, Gas & Mining~~

Minerals Adjudication Group U-932

File - Gypsum Hills (Green River) Unit (w/enclosure)

MMS - Data Management Division

Agr. Sec. Chron

Fluid Chron

UT931:TAThompson:tt:2/4/00

# SHENANDOAH ENERGY INC.

11002 E. 17500 S.  
VERNAL, UT 84078  
PHONE: (435) 781-4300  
FAX: (435) 781-4329

RW #48 (32-19B)	SWNE-19-7S-23E	43-047-15174
RW #60 (43-30B)	NESE-30-7S-23E	43-047-15184
RW #213 (41-33B)	NENE-33-7S-23E	43-047-20060

## WONSITS VALLEY FEDERAL UNIT

WVFU #120	NENW-22-8S-21E	43-047-32462
WVFU#140	NWNW-15-8S-21E	43-047-31707
WVFU #143	NWSE-10-8S-21E	43-047-31808
WVFU #16	NENE-15-8S-21E	43-047-15447
WVFU #21	NENE-16-8S-21E	43-047-15452
WVFU #28-2	NESW-11-8S-21E	43-047-31524
WVFU #31	NENW-14-8S-21E	43-047-15460
WVFU #35	NESW-14-8S-21E	43-047-15463
WVFU #36	NESW-10-8S-21E	43-047-15464
WVFU #40-2	NESE-10-8S-21E	43-047-31798
WVFU #41	NENW-15-8S-21E	43-047-15496
WVFU #50	SWNE-15-8S-21E	43-047-15477
WVFU #59	SWNW-14-8S-21E	43-047-20018
WVFU #60	SWSE-15-8S-21E	43-047-20019
WVFU #67	NESW-15-8S-21E	43-047-20043
WVFU #68	NESE-15-8S-21E	43-047-20047
WVFU #71-2	SWSW-15-8S-21E	43-047-32449
WVFU #73	NESE-16-8S-21E	43-047-20066
WVFU #97	NWSW-11-8S-21E	43-047-30014
WVFU #9	NESE-12-8S-21E	43-047-15440
WVFU #126	NWNE-21-8S-21E	43-047-30796
WVFU #72	SWSW-16-8S-21E	43-047-20058
WVFU #78	NESW-16-8S-21E	43-047-20115

## GYPSUM HILLS UNIT

GHU #10	NWSE-21-8S-20E	43-047-32306
GHU #12	NESE-19-8S-21E	43-047-32458
GHU#15	SWSW-20-8S-21E	43-047-32648
GHU#17	SWSE-20-8S-21E	43-047-32649
GHU #3	NENE-20-8S-21E	43-047-20002
GHU #6	NENW-20-8S-21E	43-047-30099
GHU #8-1	SWNE-20-8S-21E	43-047-31932

## COSTAS FEDERAL

COSTAS FED #1-20-4B	NESW-20-8S-21E	43-047-31006
COSTAS FED #2-20-3B	NESE-20-8S-21E	
COSTAS FED 33-21-1D	SWNW-21-8S-21E	43-047-31604

## BRENNAN BOTTOM UNIT

BRENNAN FED #5	SENW-18-7S-21E	43-047-15420
BRENNAN FED #11	SESW-18-7S-21E	43-047-32772

Well	Lease	API Number	Status	Type
COSTAS FEDERAL 1-20-4B	U-0140740	43-047-31006	A	INJ
COSTAS FEDERAL 2-20-3B	U-0140740	43-047-31066	A	INJ
COSTAS FEDERAL 3-21-1D	U-0804	43-047-31604	A	INJ
GYP SUM HILLS UNIT 10	U-025960	43-047-32306	A	INJ
GYP SUM HILLS UNIT 15	U-0140740	43-047-32648	A	INJ
GYP SUM HILLS UNIT 17	U-0140740	43-047-32649	A	INJ
GYP SUM HILLS UNIT 3	U-0140740	43-047-20002	A	INJ
GYP SUM HILLS UNIT 6	U-0140740	43-047-30099	A	INJ
GYP SUM HILLS UNIT 8-1 (SRU)	U-0140740	43-047-31932	A	INJ
GYP SUM HILLS UNIT 12	U-0140740	43-047-32458	A	INJ
COSTAS FEDERAL 4-21-1C	U-0804	43-047-31826	A	OIL
COSTAS FEDERAL 5-21-2C	U-0804	43-047-31827	A	OIL
GYP SUM HILLS 16	U-0140740	43-047-32675	A	OIL
GYP SUM HILLS UNIT 18	U-014740	43-047-32650	A	OIL
GYP SUM HILLS UNIT 4	U-0140740	43-047-30028	A	OIL
GYP SUM HILLS UNIT 9	U-0140740	43-047-32304	A	OIL
GYP SUM HILLS UNIT 11	U-0140740	43-047-32459	A	OIL
GYP SUM HILLS UNIT 13	U-0140740	43-047-32460	A	OIL
GYP SUM HILLS UNIT 14	U-0140740	43-047-32647	A	OIL
GYP SUM HILLS UNIT 19	U-0140740	43-047-32651	A	OIL
GYP SUM HILLS UNIT 20	U-0140740	43-047-32652	A	OIL
WHITON-FEDERAL 1-19-3C	U-0140740	43-047-31065	A	OIL
STAGECOACH 23-21	U-025960	43-047-31541	A	OIL
GYP SUM HILLS UNIT 21	U-0933	43-047-32692	A	GAS
GYP SUM HILLS 22 WG	U-0804	43-047-32818	A	GAS

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH	4-KAS ✓
2. CDW	5-SJ ✓
3. JLT	6-FILE

Enter date after each listed item is completed

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

Designation of Agent

Operator Name Change (Only)

Merger

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

01/01/2000

**FROM:** (Old Operator):

CHEVRON USA INC  
 Address: 11002 E. 17500 S.  
 VERNAL, UT 84078-8526  
 Phone: 1-(435)-781-4300  
 Account No. N0210

**TO:** ( New Operator):

SHENANDOAH ENERGY INC  
 Address: 11002 E. 17500 S.  
 VERNAL, UT 84078  
 Phone: 1-(435)-781-4300  
 Account No. N4235

**CA No.**

**Unit: GYPSUM HILLS**

**WELL(S)**

NAME	API	ENTITY	SECTION	TOWNSHIP	RANGE	LEASE
GYPSUM HILLS UNIT 12 (WIW)	43-047-32458	5355	19	08S	21E	FEDERAL
COSTAS FEDERAL 1-20-4B (WIW)	43-047-31006	5355	20	08S	21E	FEDERAL
COSTAS FEDERAL 2-20-3B (WIW)	43-047-31066	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 15 (WIW)	43-047-32648	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 17 (WIW)	43-047-32649	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 3 (WIW)	43-047-20002	5355	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 6 (WIW)	43-047-30099	5251	20	08S	21E	FEDERAL
GYPSUM HILLS UNIT 8-1 (SRU) (WIW)	43-047-31932	5355	21	08S	21E	FEDERAL
COSTAS FEDERAL 3-21-1D (WIW)	43-047-31604	5355	21	08S	21E	FEDERAL
GYPSUM HILLS UNIT 10 (WIW)	43-047-32306	5355	21	08S	21E	FEDERAL

**OPERATOR CHANGES DOCUMENTATION**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/30/1999
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 08/09/2000
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 08/15/2000



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT--" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil Gas  
 Well  Well  Other WATER INJECTION WELL

2. Name of Operator  
SHENANDOAH ENERGY, INC

3. Address and Telephone No.  
11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4306

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
669' FSL & 667' FWL (SW SW) SECTION 20, T8S, R21E SLBM

5. Lease Designation and Serial No.  
U-0140740

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA, Agreement Designation  
GYPSUM HILLS UNIT

8. Well Name and No.  
GYPSUM HILLS UNIT 15

9. API Well No.  
43-047-32648

10. Field and Pool, or Exploratory Area  
Gypsum Hills Unit - Green River

11. County or Parish, State  
UINTAH, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input checked="" type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

The following work was done on this well March 7, 2000:

- acidize well to cleanup formation damage
- pump 2000 gals 15% HCL 1/150 gals/M Xylene and additives
- Displace with 31 bbls fresh water
- Flowback ~ 100 bbls load water and acid till clean water
- Place well back on injection

14. I hereby certify that the foregoing is true and correct.  
Signed D. C. BEAMAN *D. C. Beaman* Title OFFICE MANAGER Date 07/05/00

(This space for Federal or State office use)

Approved by: \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: See Attachment

Field or Unit name: \_\_\_\_\_ API no. \_\_\_\_\_

Well location: QQ \_\_\_\_\_ section \_\_\_\_\_ township \_\_\_\_\_ range \_\_\_\_\_ county \_\_\_\_\_

Effective Date of Transfer: \_\_\_\_\_

CURRENT OPERATOR

Transfer approved by:

Name R.K. Wackowski Company Chevron Production Co.

Signature [Signature] Address 100 Chevron Rd.

Title Unit Manager Rangely, Colo. 81648

Date 7/28/00 Phone (970) 675-3714

Comments:

NEW OPERATOR

Transfer approved by:

Name John Conley Company Shenandoah Energy Inc.

Signature [Signature] Address 11002 E. 17500 S.

Title District Manager Vernal, UT 84078

Date 7-21-00 Phone (435) 781-4300

Comments:

(State use only)

Transfer approved by [Signature] Title Tech. Services Manager

Approval Date 8-16-00 \*wells due for mechanical integrity testing:

\* Gypsum Hills unit 12, 10  
Costas Federal 2-20-3B

RECEIVED

Form 3160-5  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.  
**U-0140740**

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE- Other Instructions on reverse side**

7. If Unit or CA Agreement, Name and No.  
**UTU67951A**

1. Type of Well:  
 Oil Well  Gas Well  Other **INJECTION**

8. Lease Name and Well No.  
**GYPSUM HILLS UNIT 15**

2. Name of Operator **SHENANDOAH ENERGY INC**  
**CONTACT: J.T. CONLEY DIVISION MANAGER**  
**EMAIL: jconley@shenandoahenergy.com**

9. API Well No.  
**4304732648**

3a. Address **11002 EAST 17500 SOUTH**  
**VERNAL, UT 84078**

3b. Phone No. (include area code)  
**TEL: 435.781.4300 EXT: 301**  
**FAX: 435.781.4329**

10. Field and Pool, or Exploratory  
**GYPSUM HILLS**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Sec 20 T8S R21E SWSW 669FSL 667FWL**

11. County or Parish, State  
**UINTAH, UT**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input checked="" type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Stimulation Workover performed on 03/07/2000**  
**Acidize the G1 Lime injection zone 5236'-5251' with 2000 gals 15% HCl**  
**Flowback load water to cleanup and place well back on injection**

Name (Printed/Typed) **J.T. Conley** Title **District Manager**  
Signature *J.T. Conley* Date **01-06-2001**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

**ELECTRONIC SUBMISSION #2276 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR SHENANDOAH ENERGY INC SENT TO THE VERNAL FIELD OFFICE**

**MECHANICAL INTEGRITY TEST  
CASING OR ANNULUS PRESSURE TEST**

U.S. ENVIRONMENTAL PROTECTION AGENCY  
UNDERGROUND INJECTION CONTROL PROGRAM, UIC IMPLEMENTATION SECTION (8ENF-T)  
999 18TH STREET, SUITE 500, DENVER, CO. 80202-2466

EPA WITNESS: \_\_\_\_\_ DATE: 10/2/2001 TIME: 9:00 AM/PM

TEST CONDUCTED BY: MIKE JOHANSON

OTHERS PRESENT: NA

WELL:	<u>GYPSUM HILLS #15</u>	WELL ID. EPA#-UT2804-04336
		<u>API#-43-047-32648</u>
FIELD:	<u>GYPSUM HILLS</u>	COMPANY: <u>SHENANDOAH ENERGY INC.</u>
WELL LOCATION:	<u>SW/SW-20-8S-21E</u>	ADDRESS: <u>11002 EAST 17500 SOUTH</u>
		<u>VERNAL, UTAH 84078</u>
WELL STATUS:	<u>ACTIVE</u>	

TIME	TEST #1		TEST #2		TEST #3	
		CASING PRESSURE	TIME	CASING PRESSURE	TIME	CASING PRESSURE
<u>9:00</u>	0 MIN	<u>1100</u>				
<u>9:05</u>	5	<u>1100</u>				
<u>9:10</u>	10	<u>1100</u>				
<u>9:15</u>	15	<u>1100</u>				
<u>9:20</u>	20	<u>1100</u>				
<u>9:25</u>	25	<u>1100</u>				
<u>9:30</u>	30 MIN	<u>1100</u>				
	35					
	40					
	45					
	50					
	55					
	60 MIN					

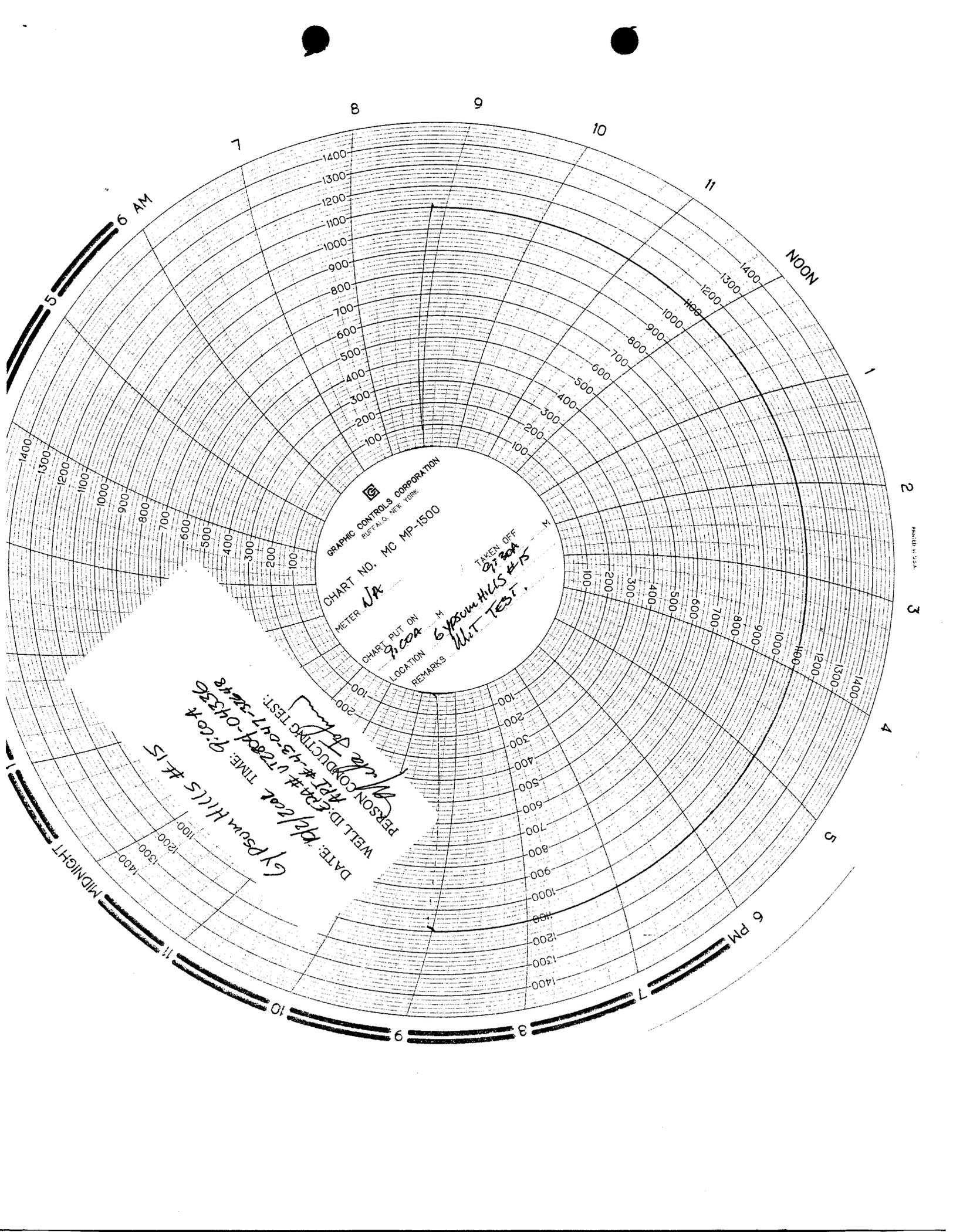
START TUBING PRESSURE, PSIG 1820

END TUBING PRESSURE, PSIG 1820

RESULTS (CIRCLE) PASS FAIL (C)

SIGNATURE OF EPA WITNESS: Mike Johanson

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



GRAPHIC CONTROLS CORPORATION  
RUEF BLDG. NEW YORK

CHART NO. MC MP-1500  
METER *NA*

CHART PUT ON *9:00A* M  
TAKEN OFF *9:30A*  
LOCATION *Gypsum Hills #15*  
RE-MARKS *WIT TEST*

DATE: *10/22/22* TIME: *9:00A*  
WELL ID: *22A # UT204-04356*  
PERSON CONDUCTING TEST: *[Signature]*  
*Wife Dep't*  
*Gypsum Hills #15*

May 28, 2003

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

**Attention: John Baza/Jim Thompson**

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,



Frank Nielsen  
Division Landman

Enclosure

RECEIVED

JUN 02 2003

DIV. OF OIL, GAS & MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

IN REPLY REFER TO  
UT-922

June 9, 2003

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street, Suite 500  
Denver, Colorado 80265

Re: Gypsum Hills (Green River) Unit  
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed its name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Gypsum Hills (Green River) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Gypsum Hills (Green River) Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Gypsum Hills (Green River) Unit.

It is requested that you notify all interested parties of the name change of unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks  
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
Minerals Adjudication Group  
File - Gypsum Hills (Green River) Unit (w/enclosure)  
Agr. Sec. Chron  
Fluid Chron

UT922:TAThompson:tt:6/9/03

JUL 07 2003

3104 (932.34)WF  
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc.  
1050 17<sup>th</sup> Street Suite 500  
Denver, Colorado 80265

:  
: Oil and Gas  
: lease  
:

Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

*S/Wilbert B. Forbes*

Wilbert B. Forbes  
Land Law Examiner  
Branch of Use Authorization  
Division of Resources Planning,  
Use and Protection

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Uinta Basin  
MFO

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number <u>See Attached List</u>		API Number
Location of Well		Field or Unit Name <u>Gypsum Hills</u>
Footage :	County : <u>Uintah</u>	Lease Designation and Number
QQ, Section, Township, Range:	State : <u>UTAH</u>	

EFFECTIVE DATE OF TRANSFER: \_\_\_\_\_

CURRENT OPERATOR

Company: Shenandoah Energy Inc  
Address: 11002 East 17500 South  
city Vernal state UT zip 84078  
Phone: (435) 781-4300  
Comments:

Name: John Busch  
Signature: John Busch  
Title: District Foreman  
Date: 9-02-03

NEW OPERATOR

Company: QEP Uinta Basin, Inc.  
Address: 11002 East 17500 South  
city Vernal state UT zip 84078  
Phone: \_\_\_\_\_  
Comments:

Name: John Busch  
Signature: John Busch  
Title: District Foreman  
Date: 9-02-03

(This space for State use only)

Transfer approved by: [Signature]  
Title: Public Services Manager

Approval Date: 9-10-03

Comments: Located in Indian Country  
EPA primary UIC Agency.

RECEIVED  
SEP 04 2003  
DIV. OF OIL, GAS & MINING

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	Field	Footages
COSTAS FED 1-20-4B	20	080S	210E	4304731006	5355	Federal	WI	A	Gypsum Hills	1981' FSL, 1980' FWL
COSTAS FED 2-20-3B	20	080S	210E	4304731066	5355	Federal	WI	A	Gypsum Hills	1981 FSL, 617 FEL
COSTAS FED 3-21-1D	21	080S	210E	4304731604	5355	Federal	WI	A	Wonsits Valley	1977 FNL, 643 FWL
GYP SUM HILLS 10	21	080S	210E	4304732306	5355	Federal	WI	A	Wonsits Valley	2147 FSL, 2274 FEL
GYP SUM HILLS 12	19	080S	210E	4304732458	5355	Federal	WI	A	Gypsum Hills	2009' FSL, 666' FEL
GYP SUM HILLS 15	20	080S	210E	4304732648	5355	Federal	WI	A	Gypsum Hills	669' FSL, 667' FWL
GYP SUM HILLS 17	20	080S	210E	4304732649	5355	Federal	WI	A	Gypsum Hills	665 FSL, 2010 FEL
GYP SUM HILLS 3	20	080S	210E	4304720002	5355	Federal	WI	A	Gypsum Hills	660' FNL, 660 FEL
GYP SUM HILLS 6	20	080S	210E	4304730099	5251	Federal	WI	A	Gypsum Hills	643' FNL, 1983' FWL
SRU 8-I	20	080S	210E	4304731932	5355	Federal	WI	A	Gypsum Hills	1906 FNL, 1978 FEL

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X** Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:		<b>2/1/2003</b>
<b>FROM: (Old Operator):</b>	<b>TO: ( New Operator):</b>	
N4235-Shenandoah Energy Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341	N2460-QEP Uinta Basin Inc 11002 E 17500 S Vernal, UT 84078-8526 Phone: (435) 781-4341	

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	Confid
<b>BRENNAN BOTTOM UNIT</b>									
BRENNAN FED 5	18	070S	210E	4304715420	5261	Federal	WI	A	
BRENNAN FED 11	18	070S	210E	4304732772	5261	Federal	WI	A	
<b>GLEN BENCH UNIT</b>									
GLEN BENCH ST 12-16	16	080S	220E	4304732583	13727	State	WI	A	
GLEN BENCH ST 6-16	16	080S	220E	4304732549	13727	State	WI	A	
GLEN BENCH ST 7-16	16	080S	220E	4304732582	13727	State	WI	A	
GLEN BENCH U 15-19-8-22	19	080S	220E	4304732756	13727	Federal	WI	A	
GLEN BENCH FED 22-20	20	080S	220E	4304731356	13727	Federal	WI	A	
<b>GYPSUM HILLS UNIT</b>									
GYPSUM HILLS 12	19	080S	210E	4304732458	5355	Federal	WI	A	
COSTAS FED 1-20-4B	20	080S	210E	4304731006	5355	Federal	WI	A	
COSTAS FED 2-20-3B	20	080S	210E	4304731066	5355	Federal	WI	A	
GYPSUM HILLS 15	20	080S	210E	4304732648	5355	Federal	WI	A	
GYPSUM HILLS 17	20	080S	210E	4304732649	5355	Federal	WI	A	
GYPSUM HILLS 3	20	080S	210E	4304720002	5355	Federal	WI	A	
GYPSUM HILLS 6	20	080S	210E	4304730099	5251	Federal	WI	A	
SRU 8-I	20	080S	210E	4304731932	5355	Federal	WI	A	
COSTAS FED 3-21-1D	21	080S	210E	4304731604	5355	Federal	WI	A	
GYPSUM HILLS 10	21	080S	210E	4304732306	5355	Federal	WI	A	

**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: 6/2/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/2/2003
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/19/2003
- Is the new operator registered in the State of Utah: YES Business Number: 5292864-0151

5. If **NO**, the operator was contacted ~~contacted~~ on: \_\_\_\_\_

6. (R649-9-2) Waste Management Plan has been received on: IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

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

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 9/10/2003

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 9/16/2003

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 9/16/2003

3. Bond information entered in RBDMS on: n/a

4. Fee wells attached to bond in RBDMS on: n/a

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

1. State well(s) covered by Bond Number: 965-003-032

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

1. Federal well(s) covered by Bond Number: ESB000024

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

1. Indian well(s) covered by Bond Number: 799446

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

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965-003-033

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

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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

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

**ROUTING**

1. DJJ
2. CDW

Change of Operator (Well Sold)

**X - Operator Name Change/Merger**

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

**1/1/2007**

<b>FROM: (Old Operator):</b> N2460-QEP Uinta Basin, Inc. 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 672-6900	<b>TO: ( New Operator):</b> N5085-Questar E&P Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 672-6900
---	--

CA No.		Unit:		GYPSUM HILLS UNIT				
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LISTS				*				

**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: 4/19/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/16/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/31/2005
- Is the new operator registered in the State of Utah: \_\_\_\_\_ Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: n/a
- 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 4/23/2007 BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_
- 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: \_\_\_\_\_

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 4/30/2007 and 5/15/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 4/30/2007 and 5/15/2007
- Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007
- Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007
- Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 799446
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965003033
- The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (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: THIS IS A COMPANY NAME CHANGE.**

**SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED**

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)  
GYPSUM HILLS UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
GYPSUM HILLS 3	GH 3	NENE	20	080S	210E	4304720002	5355	Federal	WI	A
GYPSUM HILLS 4	GH 4	SWSE	19	080S	210E	4304730028	5355	Federal	OW	P
GYPSUM HILLS 6	GH 6	NENW	20	080S	210E	4304730099	5251	Federal	WI	A
COSTAS FED 1-20-4B	GH 1-20	NESW	20	080S	210E	4304731006	5355	Federal	WI	A
WHITON FED 1-19-3C	GH 1-19	SESE	19	080S	210E	4304731065	5355	Federal	OW	P
COSTAS FED 2-20-3B	GH 2-20	NESE	20	080S	210E	4304731066	5355	Federal	WI	A
STAGECOACH FED 23-21	GH 23-21	NWSW	21	080S	210E	4304731541	5355	Federal	OW	P
COSTAS FED 3-21-1D	GH 3-21	SWNW	21	080S	210E	4304731604	5355	Federal	WI	A
COSTAS FED 4-21-1C	GH 4-21	SENE	21	080S	210E	4304731826	5355	Federal	OW	P
COSTAS FED 5-21-2C	GH 5-21	SENE	21	080S	210E	4304731827	5355	Federal	OW	P
SRU 8-I	GH 8-I	SWNE	20	080S	210E	4304731932	5355	Federal	WI	A
GYPSUM HILLS 9	GH 9	SENE	20	080S	210E	4304732304	5355	Federal	OW	P
GYPSUM HILLS 10	GH 10	NWSE	21	080S	210E	4304732306	5355	Federal	WI	A
GYPSUM HILLS 12	GH 12	NESE	19	080S	210E	4304732458	5355	Federal	WI	A
GYPSUM HILLS 11	GH 11	NWSE	20	080S	210E	4304732459	5355	Federal	OW	P
GYPSUM HILLS 13	GH 13	NESW	21	080S	210E	4304732460	5355	Federal	OW	P
GYPSUM HILLS 14	GH 13	NWSW	20	080S	210E	4304732647	5355	Federal	OW	P
GYPSUM HILLS 15	GH 15	SWSW	20	080S	210E	4304732648	5355	Federal	WI	A
GYPSUM HILLS 17	GH 17	SWSE	20	080S	210E	4304732649	5355	Federal	WI	A
GYPSUM HILLS 18	GH 18	SESE	20	080S	210E	4304732650	5355	Federal	OW	P
GYPSUM HILLS 19	GH 19	SWNW	20	080S	210E	4304732651	5355	Federal	OW	P
GYPSUM HILLS 20	GH 20	SENE	20	080S	210E	4304732652	5355	Federal	OW	P
GYPSUM HILLS 16	GH 16	SESW	20	080S	210E	4304732675	5355	Federal	OW	P
GHU 10W-19-8-21	GH 10W-19-8-21	NWSE	19	080S	210E	4304733528	12736	Federal	GW	P
GH 10G-19-8-21	GH 10G-19-8-21	NWSE	19	080S	210E	4304733566	5355	Federal	OW	P
WVFU 11W-17-8-21	WV 11W-17-8-20	NESW	17	080S	210E	4304733912	13228	Federal	GW	P
WV 5W-17-8-21	WV 5W-17-8-21	SWNW	17	080S	210E	4304733954	13332	Federal	GW	P
WV 7W-17-8-21	WV 7W-17-8-21	SWNE	17	080S	210E	4304733956	13330	Federal	GW	P
GH 9W-17-8-21	GH 9W-17-8-21	NESE	17	080S	210E	4304734150	13392	Federal	GW	P
GH 16W-17-8-21	GH 16W-17-8-21	SESE	17	080S	210E	4304734156	13354	Federal	GW	P
WV EXT 10W-17-8-21	WVX 10W-17-8-20	NWSE	17	080S	210E	4304734561	13744	Federal	GW	P
GH EXT 15W-17-8-21	GHX 15W-17-8-20	SWSE	17	080S	210E	4304734562	13674	Federal	GW	P
GYPSUM HILLS 13HG-17-8-21	GHX 13HG-17-8-21	SWSW	17	080S	210E	4304734723	5355	Federal	OW	S
GH 1G-17-8-21	GH 1G-17-8-21	NENE	17	080S	210E	4304734927	5355	Federal	OW	P
WV EXT 2W-17-8-21	WVX 2W-17-8-20	NWNE	17	080S	210E	4304734928	14253	Federal	GW	P
WV EXT 8W-17-8-21	WVX 8W-17-8-20	SENE	17	080S	210E	4304734929	13792	Federal	GW	P
GH 4MU-20-8-21	GH 4MU-20-8-21	NWNW	20	080S	210E	4304735068	14213	Federal	GW	P
GYPSUM HILLS 13MU-20-8-21	GH 13MU-20-8-20	SWSW	20	080S	210E	4304735070	14817	Federal	GW	P
GH 5W-20-8-21	GH 5W-20-8-21	SWNW	20	080S	210E	4304735097	14557	Federal	GW	P
WVX 3MU-17-8-21	WVX 3MU-17-8-21	NENW	17	080S	210E	4304735318	14113	Federal	GW	P
GH 15ML-18-8-21	GH 15ML-18-8-21	SWSE	18	080S	210E	4304735323	15483	Federal	GW	DRL

QEP Uinta Basin (N2460) to QUESTAR E and P (N5085)  
GYPSUM HILLS UNIT

4/30/2007 and 5/15/2007

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
GH 1ML-19-8-21	GH 1ML-19-8-21	NENE	19	080S	210E	4304735324	14824	Federal	GW	P
GH 16W-19-8-21	GH 16W-19-8-21	SESE	19	080S	210E	4304735325	14823	Federal	GW	DRL
WVX 14MU-17-8-21	WVX 14MU-17-8-21	SESW	17	080S	210E	4304735369	14098	Federal	GW	P
WVX 12MU-17-8-21	WVX 12MU-17-8-21	NWSW	17	080S	210E	4304735370	15108	Federal	GW	P
WVX 8MU-19-8-21	WVX 8MU-19-8-21	SENE	19	080S	210E	4304735372	14241	Federal	GW	P
GH 10ML-18-8-21	GH 10ML-18-8-21	NWSE	18	080S	210E	4304735391	15482	Federal	GW	P
GH 8G-17-8-21	GH 8G-17-8-21	SENE	17	080S	210E	4304737992	5355	Federal	OW	DRL
GH 16G-17-8-21	GH 16G-17-8-21	SESE	17	080S	210E	4304737993	5355	Federal	OW	DRL
WVX 1MU-17-8-21	WVX 1MU-17-8-21	NENE	17	080S	210E	4304738156		Federal	GW	APD
GH 8MU-20-8-21	GH 8-20-8-21	SENE	20	080S	210E	4304738157		Federal	GW	APD
WVX 13MU-17-8-21	WVX 13MU-17-8-21	SWSW	17	080S	210E	4304738188		Federal	GW	APD
WVX 6MU-17-8-21	WVX 6MU-17-8-21	SENE	17	080S	210E	4304738189		Federal	GW	APD
WVX 4MU-17-8-21	WVX 4MU-17-8-21	NWNW	17	080S	210E	4304738190		Federal	GW	APD
WVX 16MU-18-8-21	WVX 16MU-18-8-21	SESE	18	080S	210E	4304738191		Federal	GW	APD
GH 2MU-19-8-21	GH 2MU-19-8-21	NWNE	19	080S	210E	4304738192		Federal	GW	APD
GH 3MU-19-8-21	GH 3MU-19-8-21	NENW	19	080S	210E	4304738250		Federal	GW	APD
GH 4MU-19-8-21	GH 4MU-19-8-21	NWNW	19	080S	210E	4304738264		Federal	GW	APD
GH 5MU-19-8-21	GH 5MU-19-8-21	SWNW	19	080S	210E	4304738265		Federal	GW	APD
GH 6MU-19-8-21	GH 6MU-19-8-21	SENE	19	080S	210E	4304738266		Federal	GW	APD
GH 7MU-19-8-21	GH 7D-19-8-21	SWNE	19	080S	210E	4304738267		Federal	GW	APD
GH 11MU-19-8-21	GH 11MU-19-8-21	NESW	19	080S	210E	4304738268		Federal	GW	APD
GH 12MU-19-8-21	GH 12MU-19-8-21	NWSW	19	080S	210E	4304738269		Federal	GW	APD
GH 15MU-19-8-21	GH 15MU-19-8-21	SWSE	19	080S	210E	4304738270		Federal	GW	APD
GH 14MU-19-8-21	GH 14MU-19-8-21	SESW	19	080S	210E	4304738472		Federal	GW	APD
WVX 1MU-18-8-21	WVX 1MU-18-8-21	NENE	18	080S	210E	4304738659		Federal	GW	APD
WVX 9MU-18-8-21	WVX 9MU-18-8-21	NESE	18	080S	210E	4304738660		Federal	GW	APD
WVX 8MU-18-8-21	GH 8G-18-8-21	SENE	18	080S	210E	4304738661		Federal	GW	APD
GH 6MU-20-8-21	GH 6-20-8-21	SENE	20	080S	210E	4304738662		Federal	GW	APD

**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.

<b>1. TYPE OF WELL</b> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
<b>2. NAME OF OPERATOR:</b> QUESTAR EXPLORATION AND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
<b>3. ADDRESS OF OPERATOR:</b> 1050 17th Street Suite 500 CITY Denver STATE CO ZIP 80265		7. UNIT or CA AGREEMENT NAME: see attached
<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: attached COUNTY: Uintah		8. WELL NAME and NUMBER: see attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		9. API NUMBER: attached
		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 checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate) Approximate date work will start: <u>1/1/2007</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input 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>Operator Name Change</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.

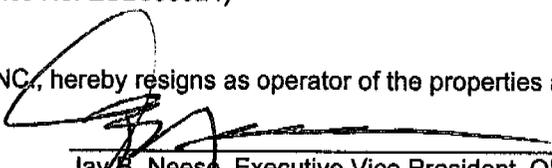
Effective January 1, 2007 operator of record, QEP Uinta Basin, Inc., will hereafter be known as QUESTAR EXPLORATION AND PRODUCTION COMPANY. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: 965003033

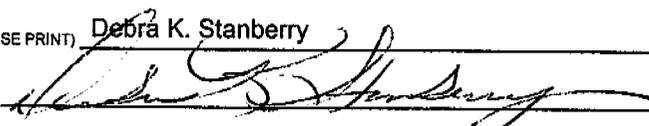
Fee Land Bond Number: 965003033

Current operator of record, QEP UINTA BASIN, INC., hereby resigns as operator of the properties as described on the attached list.

  
Jay B. Neese, Executive Vice President, QEP Uinta Basin, Inc.

Successor operator of record, QUESTAR EXPLORATION AND PRODUCTION COMPANY, hereby assumes all rights, duties and obligations as operator of the properties as described on the attached list

  
Jay B. Neese, Executive Vice President  
Questar Exploration and Production Company

NAME (PLEASE PRINT) <u>Debra K. Stanberry</u>	TITLE <u>Supervisor, Regulatory Affairs</u>
SIGNATURE 	DATE <u>3/16/2007</u>

(This space for State use only)

**RECEIVED**

**APR 13 2007**

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.

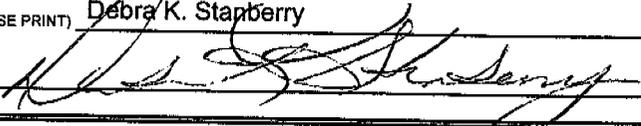
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
3. ADDRESS OF OPERATOR: 1050 17th Street Suite 500 City: Denver STATE: CO ZIP: 80265		7. UNIT or CA AGREEMENT NAME: see attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: attached		8. WELL NAME and NUMBER: see attached
PHONE NUMBER: (303) 308-3068		9. API NUMBER: attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
COUNTY: Uintah		STATE: UTAH

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

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

PER THE ATTACHED LIST OF WELLS, QUESTAR EXPLORATION AND PRODUCTION COMPANY REQUESTS THAT THE INDIVIDUAL WELL NAMES BE UPDATED IN YOUR RECORDS.

NAME (PLEASE PRINT) <u>Debra K. Stappberry</u>	TITLE <u>Supervisor, Regulatory Affairs</u>
SIGNATURE 	DATE <u>4/17/2007</u>

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APR 19 2007

DIV. OF OIL, GAS & MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155



IN REPLY REFER TO  
3180  
UT-922

April 23, 2007

Questar Exploration and Production Company  
1050 17th Street, Suite 500  
Denver, Colorado 80265

Re: Gypsum Hills (GR) Unit  
Uintah County, Utah

Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company was designated as Successor Unit Operator for the Gypsum Hills (GR) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Gypsum Hills (GR) Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Gypsum Hills (GR) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Greg J. Noble

Greg J. Noble  
Acting Chief, Branch of Fluid Minerals

### Enclosure

bcc: Field Manager - Vernal (w/enclosure)  
SITLA  
Division of Oil, Gas & Mining  
File - Gypsum Hills (GR) Unit (w/enclosure)  
Agr. Sec. Chron  
Reading File  
Central Files

UT922:TAThompson:tt:4/23/07

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APR 30 2007

DIV. OF OIL, GAS & MINING

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

**ROUTING**  
 CDW

Change of Operator (Well Sold)

**X - Operator Name Change**

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

**6/14/2010**

<b>FROM: (Old Operator):</b> N5085-Questar Exploration and Production Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048	<b>TO: (New Operator):</b> N3700-QEP Energy Company 1050 17th St, Suite 500 Denver, CO 80265  Phone: 1 (303) 308-3048
--	--

**CA No.**

**Unit:**

**GYPSUM HILLS (GRRV)**

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

**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: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- 4a. Is the new operator registered in the State of Utah: Business Number: 764611-0143
- 5a. (R649-9-2) Waste Management Plan has been received on: Requested
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: ok
- 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 8/16/2010 BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- 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: 6/29/2010

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- 3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (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:**

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: See attached
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached
		7. UNIT or CA AGREEMENT NAME: See attached
		8. WELL NAME and NUMBER: See attached
2 NAME OF OPERATOR: Questar Exploration and Production Company <i>N5085</i>		9. API NUMBER: Attached
3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 <i>City</i> Denver STATE CO ZIP 80265		10. FIELD AND POOL, OR WILDCAT: See attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached		COUNTY: Attached
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 checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</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.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:  
Federal Bond Number: 965002976 (BLM Reference No. ESB000024) *N3700*  
Utah State Bond Number: ~~965003033~~  
Fee Land Bond Number: ~~965003033~~ } *965010695*  
BIA Bond Number: ~~799446~~ *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) <u>Morgan Anderson</u>	TITLE <u>Regulatory Affairs Analyst</u>
SIGNATURE <i>Morgan Anderson</i>	DATE <u>6/23/2010</u>

(This space for State use only)

**RECEIVED**  
**JUN 28 2010**

(5/2000) (See Instructions on Reverse Side) **DIV. OF OIL, GAS & MINING**

**APPROVED** 6/30/2009  
*Earlene Russell*  
**Division of Oil, Gas and Mining**  
**Earlene Russell, Engineering Technician**

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)  
 GYPSUM HILLS (GRRV)  
 effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
GH 3	20	080S	210E	4304720002	5355	Federal	WI	A	
GH 6	20	080S	210E	4304730099	5355	Federal	WI	A	
GH 1-20	20	080S	210E	4304731006	5355	Federal	WI	A	
GH 2-20	20	080S	210E	4304731066	5355	Federal	WI	A	
GH 3-21	21	080S	210E	4304731604	5355	Federal	WI	A	
GH 8-I	20	080S	210E	4304731932	5355	Federal	WI	A	
GH 10	21	080S	210E	4304732306	5355	Federal	WI	A	
GH 12	19	080S	210E	4304732458	5355	Federal	WI	A	
GH 15	20	080S	210E	4304732648	5355	Federal	WI	A	
GH 17	20	080S	210E	4304732649	5355	Federal	WI	A	

Bonds: BLM = ESB000024  
 BIA = 956010693  
 State = 956010695



# United States Department of the Interior

## 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:  
3100  
(UT-922)

JUL 28 2010

### Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office

From: Chief, Branch of Minerals

*Robert L. Bankert*

Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS  
UDOGM

RECEIVED

AUG 16 2010

DIV. OF OIL, GAS & MINERALS

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

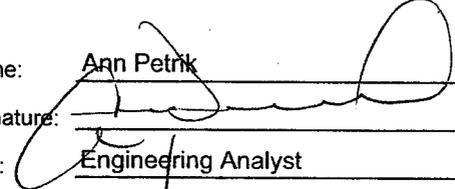
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

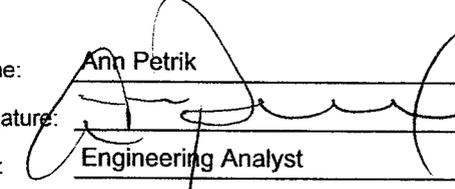
Well Name and Number See Attached List		API Number Attached
Location of Well		Field or Unit Name Attached
Footage : Attached	County :	Lease Designation and Number Attached
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 6/14/2010

**CURRENT OPERATOR**

Company: <u>Questar Exploration and Production Company</u>	Name: <u>Ann Petrik</u>
Address: <u>1050 17th Street, Suite 500</u>	Signature: 
city <u>Denver</u> state <u>CO</u> zip <u>80265</u>	Title: <u>Engineering Analyst</u>
Phone: <u>(303) 672-6900</u>	Date: <u>6/28/2010</u>
Comments:	

**NEW OPERATOR**

Company: <u>QEP Energy Company</u>	Name: <u>Ann Petrik</u>
Address: <u>1050 17th Street, Suite 500</u>	Signature: 
city <u>Denver</u> state <u>CO</u> zip <u>80265</u>	Title: <u>Engineering Analyst</u>
Phone: <u>(303) 672-6900</u>	Date: <u>6/28/2010</u>
Comments:	

(This space for State use only)

Transfer approved by: \_\_\_\_\_  
 Title: \_\_\_\_\_

Approval Date: \_\_\_\_\_

Comments:

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

*EPA approved well*

Date: 6/29/10  
 By: D. [Signature]

**RECEIVED**  
 JUN 28 2010