

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUBMIT TO BUREAU OF LAND MANAGEMENT (See instructions on reverse side)  
**NOV 25 1994**

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN OIL, GAS & MINING**

1a. TYPE OF WORK  
 DRILL  DEEPEN

b. TYPE OF WELL  
 OIL WELL  GAS-WELL  OTHER \_\_\_\_\_ SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**CHEVRON USA PRODUCTION CO., INC.**

3. ADDRESS AND TELEPHONE NO.  
**11002 EAST 17500 SOUTH, VERNAL, UT 84078-8526 (801) 781-4300**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface  
**1656' FNL, 2321' FEL, SWNE**  
 At proposed prod. zone  
**SAME**

5. LEASE DESIGNATION AND SERIAL NO.  
**USA SL-071963**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**RED WASH UNIT**

8. FARM OR LEASE NAME, WELL NO.  
**#312**

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT  
**RED WASH MESAVERDE**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**SEC. 34-T7S-R24E, SLB&M**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**30.8 miles from Vernal, UT**

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) **1656'**

16. NO. OF ACRES IN LEASE **960**

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. **465**

19. PROPOSED DEPTH **9750'**

20. ROTARY OR CABLE TOOLS **ROTARY**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5614' (UNGRADED GROUND)**

22. APPROX. DATE WORK WILL START\*  
**12/10/94**

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17.5"	13.375" H-40	48#	320'	222 cuft (188 sx.), shoe to surface
11"	8.625" J-55	24#	3900'	1062 cuft. (413 sx.), shoe to surface
7.875"	4.5# P-110	11.6#	9750'	1358 cuft. (1160sx.), shoe to 3800'

We proposed to drill a 9750' well to test the Mesaverde Formation at this location. Enclosures:

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

24. SIGNED *J. C. Bentley* TITLE ~~11-22-94~~ TEAM LEADER DATE 11-22-94

(This space for Federal or State office use)

PERMIT NO. 43-047-32595 APPROVAL DATE APPROVED BY THE STATE

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:

DATE: 12/13/94  
BY: *J. P. [Signature]*

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

WELL SPACING 649-2-3

\*See Instructions On Reverse Side

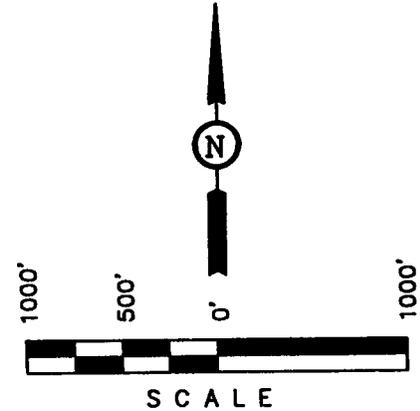
**CHEVRON U.S.A., INC.**

**T7S, R24E, S.L.B.&M.**

Well location, RED WASH UNIT #312, located as shown in the SW 1/4 NE 1/4 of Section 34, T7S, R24E, S.L.B.&M. Uintah County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 34, T7S, R24E, S.L.B.&M. TAKEN FROM THE DINOSAUR NW, 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 5586 FEET.



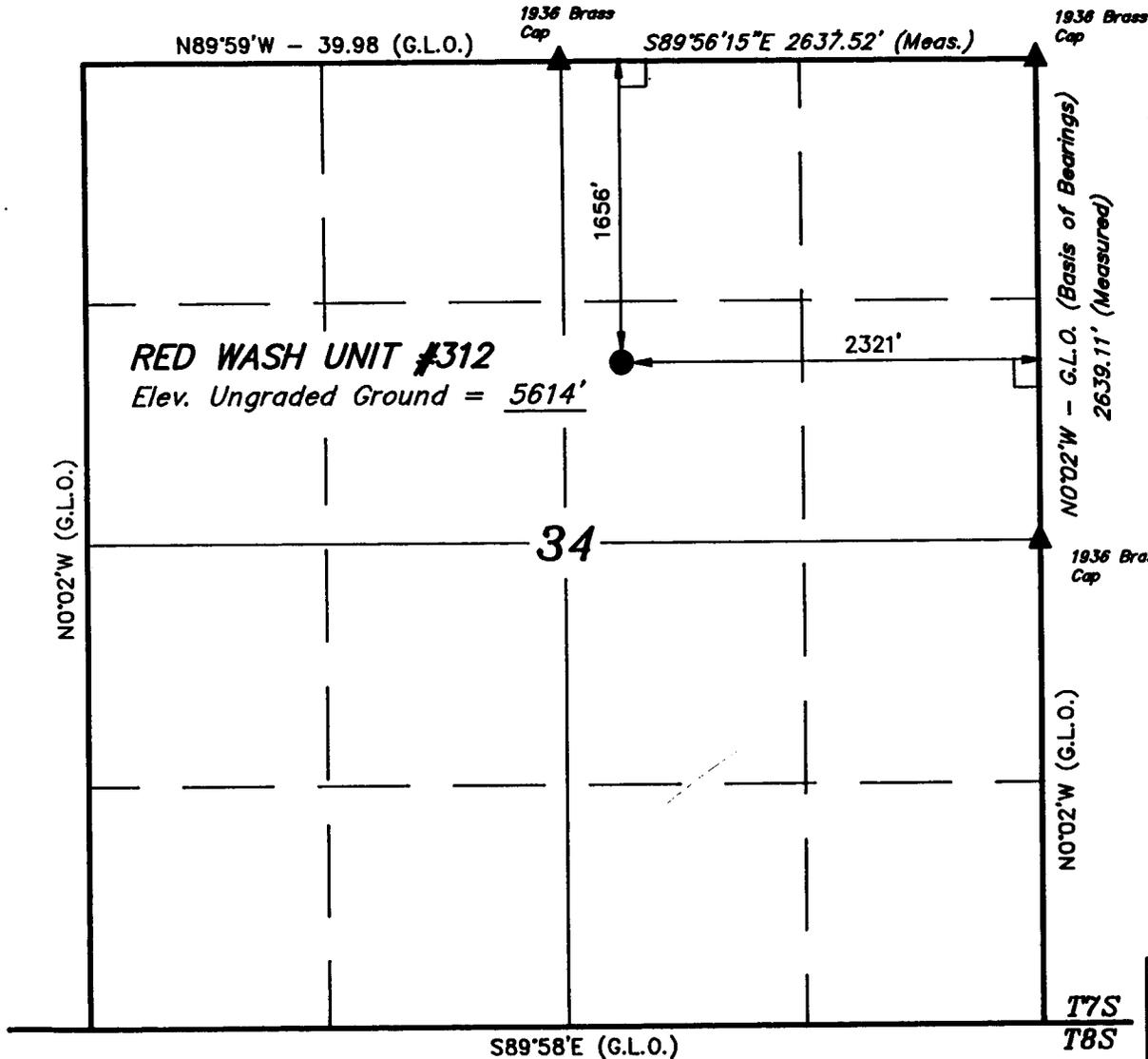
**CERTIFICATE**

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. Gray*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161348  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 9-25-94	DATE DRAWN: 10-14-94
PARTY B.B. D.G. D.J.S.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE CHEVRON U.S.A., INC.	



**LEGEND:**

- └ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (Brass Caps)

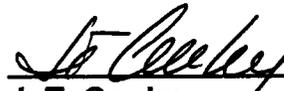
**United States Department of the Interior  
Bureau of Land Management  
Vernal District Office  
170 South 500 West  
Vernal, UT 84078**

**SELF-CERTIFICATION STATEMENT**

Be advised that Chevron USA Production Company is considered to be the operator of Red Wash Unit #312, SWNE-Sec.34-T7S-R24E, 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:** 11-22-94

**CHEVRON USA PRODUCTION CO.**

**RED WASH UNIT #312  
1656' FNL, 2321' FEL  
SWNE-S34-T7S-R24E  
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 east from Vernal on U.S. Highway 40 to the intersection with Utah State Highway 45. Turn south on Utah State 45 and proceed 20.7 miles to the Red Wash Oil and Gas Field road. Turn east and proceed 4.7 miles to existing lease road past water tank. Turn south and proceed a total of 4.6 miles on existing lease road. Turn east on existing lease road and travel 0.8 miles to 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 Federal lands. It will be necessary to construct a new access road approximately 150 feet in length to the proposed 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. Gas dehydration and metering equipment will be installed onsite following completion of the new wellbore. A gas pipeline approximately 4800 feet in length will be constructed to connect the well with the existing gas gathering system. The pipeline will follow the proposed access road right of way.

## **RED WASH UNIT #312 - THIRTEEN POINT SURFACE USE PLAN**

C. 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 BLM.

D. A blooie pit 8' X 10' X 5' deep will be constructed 150' diagonally from the center hole. A line will be placed on the surface from the center hole to the burn pit. The pit will be fenced on four sides to protect livestock.

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

Red Wash Unit fresh water supply, Application #A17791, Water Right Number 49-2153. Water will be picked up at water tank shown on Topographic Map A, ~5.4 miles from wellsite on proposed access route.

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. The reserve pit will be lined if required.

B. Excess reserve pit fluid will be disposed of via evaporation, solidification and/or haul-off to a commercial disposal facility.

C. Drill cuttings will be caught and settled in the reserve pit and buried when the pit 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.

## RED WASH UNIT #312 - THIRTEEN POINT SURFACE USE PLAN

G. In the event fluids are produced, any gas and associated condensate will be flared over the flare pit while testing. Any produced water will be caught in the flare pit and transferred to Red Wash Central Battery for use in the waterflood system. Depending on the nature of completion/stimulation fluids, these will be caught in the flare pit and disposed of via use in the waterflood system, evaporation or haul-off to a commercial disposal facility.

H. Hazardous chemicals 10,000lb. 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.

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.

## **RED WASH UNIT #312 - THIRTEEN POINT SURFACE USE PLAN**

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

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 on Federal land. The operator shall contact the BLM office at (801) 789-1362 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.

D. Archeological clearance has been recommended per Senco-Phenix Report #SP-UT-160a (U94SC572bps).

**RED WASH UNIT #312 - 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.

11-22-94  
Date

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

**CHEVRON USA PRODUCTION CO.**

**RED WASH UNIT #312  
1656' FNL, 2321' FEL  
SWNE-S34-T7S-R24E  
UINTAH COUNTY, UTAH**

**EIGHT POINT DRILLING PLAN**

**1. ESTIMATED FORMATION TOPS:**

Uinta	Surface
Green River	~ 2192'
Oil Shale	~ 3235-3535'
Wasatch	~ 5050'
Mesaverde	~ 7490'
Sego	~ 9000'
Buck Tongue	~ 9552'
Castlegate	~ 9614'

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

**Deepest Fresh Water:** ~ 2000', Uinta Formation.

**Oil Shale:** Oil shale is expected at a depth of approximately ~ 3235-3535'.

**Oil:** None expected.

**Gas:** Expected in the Green River Fm. from ~3810' to the top of the Wasatch Fm. Expected in the Wasatch Fm., exact depths unknown. Expected in the Mesaverde Fm., likely depths listed as the Segó and Castlegate, above.

**Protection of oil, gas, water, or other mineral bearing formations:** Protection shall be accomplished by cementing surface casing, protection 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.

## **RED WASH UNIT #312 - EIGHT POINT DRILLING PLAN**

### **3. PRESSURE CONTROL EQUIPMENT:**

**For drilling 17.5" surface hole:**

No BOP equipment required.

**For drilling through 13.375" surface casing:**

Maximum anticipated surface pressure  $\leq 3000$  psi.

Pressure control equipment shall be in accordance with BLM minimum standards for 3000 psi equipment.

A casing head with an 13.625", 3000 psi flange shall be welded onto the 13.375" surface casing.

BOP stack will consist of a double gate preventor and an 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 minimum 11" bore, 3000 psi working pressure. The choke and kill lines will be as per BLM minimum standards for 3000 psi working pressure. Please refer to attached schematics.

Test procedure and frequency shall be in accordance with BLM minimum standards for 3000 psi equipment.

**For drilling through 8.625" protection casing:**

Maximum anticipated surface pressure  $\leq 5000$  psi. Upcoming DST data in well Red Wash #305 may determine MASP to be  $< 3,000$  psi. If so, a sundry may be submitted that reflects that data in BOPE configuration and surface casing design.

Pressure control equipment shall be in accordance with BLM minimum standards for 5000 psi equipment.

A 13.625", 3000 psi X 11", 5000 psi casing head will be installed on top of the 13.625" SOW casing head.

## RED WASH UNIT #312 - EIGHT POINT DRILLING PLAN

BOP stack will consist of a double gate preventor and an 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 minimum 11" bore, 5000 psi working pressure. The choke and kill lines will be as per BLM minimum standards for 5000 psi working pressure. Please refer to attached schematics.

Test procedure and frequency shall be in accordance with BLM minimum standards for 5000 psi equipment.

A rotating head will be used while drilling below the Wasatch Formation for control of gas cut mud.

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

#### Casing Information:

Casing	Conn.	New/ Used	Stage Tool	Centralizers
13.375"	STC	New	NA	Three - One 10' up from shoe and on 1st and 3rd collars.
8.625"	STC	New	2500'	Six - One 10' above shoe, and on 1st, 2nd, 4th, 6th 8th collars
4.5"	LTC	New	NA	Per Chevron

#### Cement Information:

#### 13.375" Casing:

**Cement Type and Method:** Oilfield type cement circulated in. No plug used. Allowed to set under pressure.

## RED WASH UNIT #312 - EIGHT POINT DRILLING PLAN

**Slurry, Density and Fill:** Single slurry, 222 cf (188 sx @ 1.18 cf/sx) minimum plus excess as required. 15.6 ppg, Premium (Type A) + other additives as required. Fill - 320' to surface.

### 8.625" Casing:

**Cement Type and Method:** Oilfield type cement circulated in. Tail plug used. Allowed to set under pressure.

#### **Slurry, Density and Fill:**

**Primary Lead:** 127 cf (34 sx @ 3.82 cf/sx) minimum plus excess as required. 11 ppg, Premium (Type A) + 16% gel + extender + LCM + other additives as required. Fill - 3000' to 2500' (fill to stage tool).

**Primary Tail:** 229 cf (194 sx @ 1.18 cf/sx) minimum plus excess as required. 15.6 ppg, Premium (Type A) + other additives as required. Fill - 3900' to 3000'.

**Stage Single Slurry:** 706 cf (185 sx @ 3.82 cf/sx) minimum plus excess as required. 11.0 ppg, Premium (Type A) + 16% gel + extender + LCM + other additives as required. Fill - 2500' to surface.

### 4.5" Casing:

**Cement Type and Method:** Oilfield type cement circulated in. Tail plug used. Allowed to set under pressure.

**Slurry, Density and Fill:** Single slurry, 1358 cf (1160 sx @ 1.17 cf/sx) minimum with excess as required. 14.2 ppg, Premium (Class H)/pozmix + additives as required. Fill - 9750' to 3800'.

### **Drilling Equipment:**

Nothing special.

## RED WASH UNIT #312 - EIGHT POINT DRILLING PLAN

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

Entire well will be drilled with gyp water, brine water or water based drilling fluids consisting primarily of fresh or brine water, bentonite, attapulgate (salt gel), lignite, caustic, lime, soda ash and polymers. No chromates will be used.

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	6500' to TD.
Gamma Ray	TD-Surface Casing Shoe
Induction	TD-Surface Casing Shoe
Density/Neutron	TD-3500'
Sonic	TD-Surface Casing Shoe
Others	Tenative

#### Coring:

None planned.

#### Testing:

None planned.

## RED WASH UNIT #312 - EIGHT POINT DRILLING PLAN

### **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 top of Green River Fm. Some slightly over-pressured gas and/or oil zones from top to base of Green River Fm. Some slightly overpressured gas zones from top of Wasatch Fm. to TD. All sands typically tight - drill underbalanced with water or unweighted mud.

Maximum expected BHP @ 9750': ~5362 psi (0.55 psi/ft.).

Maximum expected BHT @ 9750': ~175° F.

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

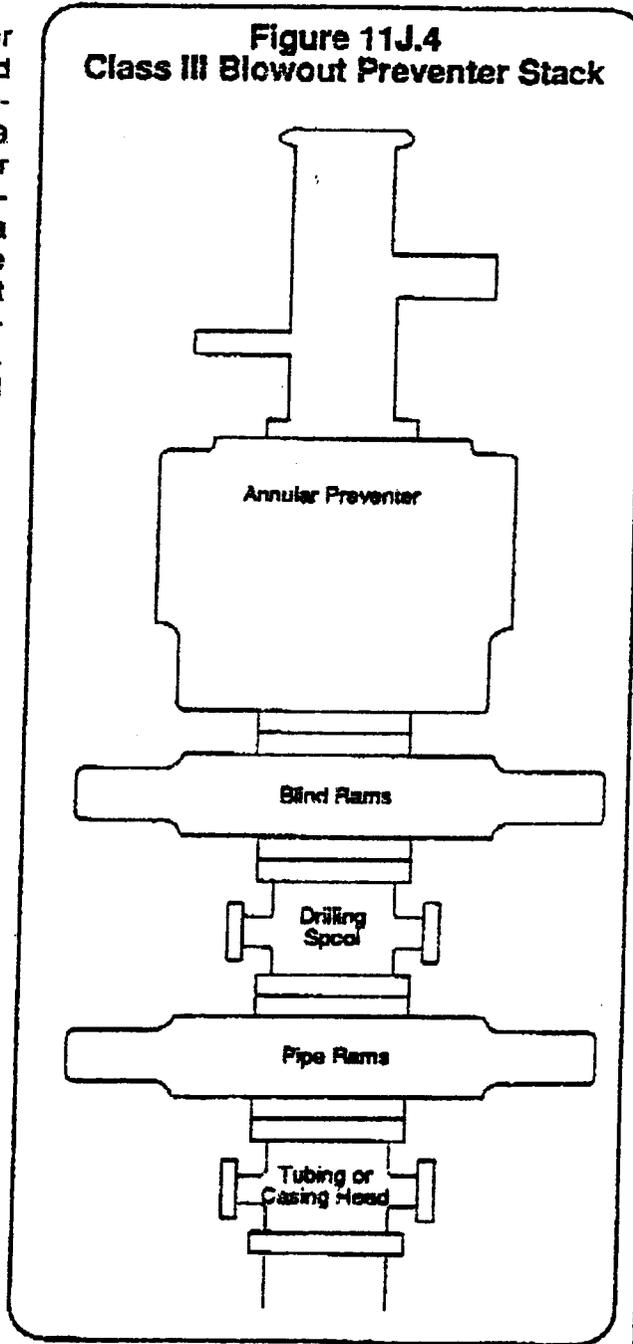
### **8. OTHER:**

None.

**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**



11J-7

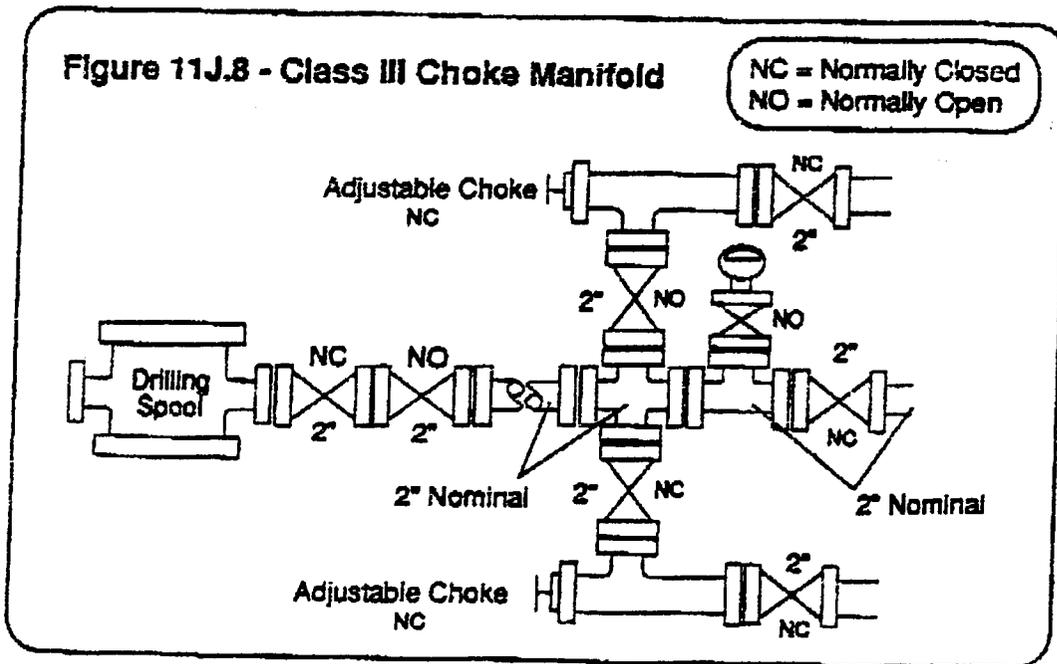
Rev. 1/1/89

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.



Rev. 1/1/89

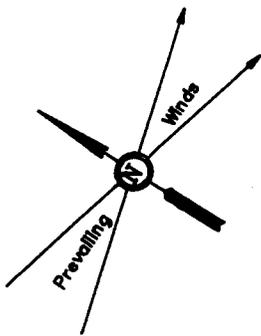
11J-12

CHEVRON USA., INC.

LOCATION LAYOUT FOR

RED WASH UNIT #312  
SECTION 34, T7S, R24E, S.L.B.&M.  
1656' FNL 2321' FEL

FIGURE #1



SCALE: 1" = 50'  
DATE: 10-14-94  
Drawn By: D.J.S.

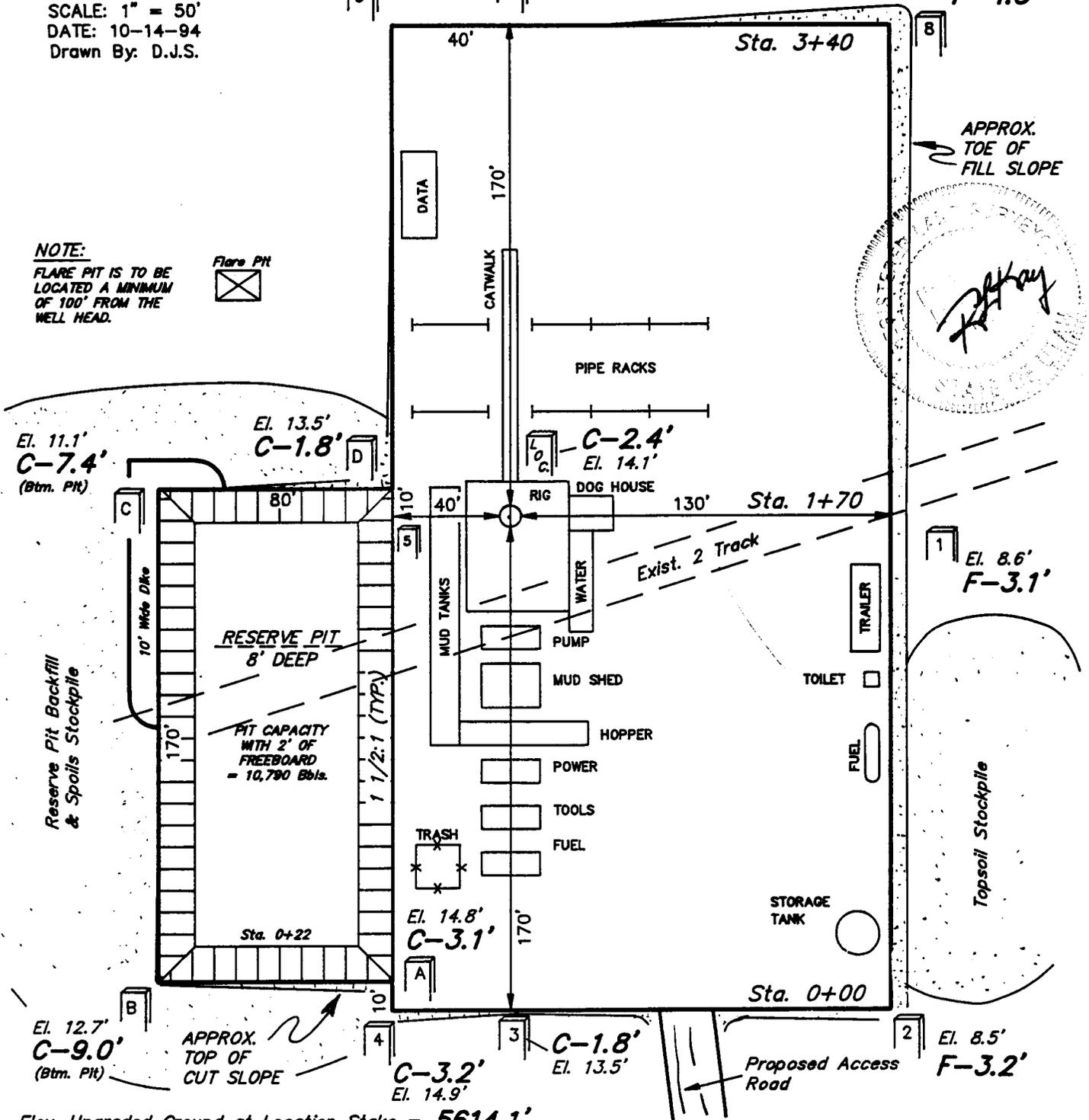
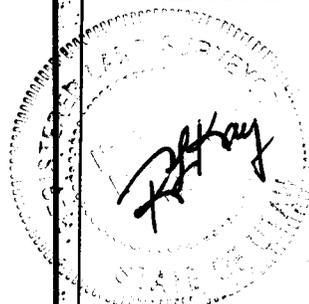
GRADE  
El. 11.7'

C-0.3'  
El. 12.0'

El. 7.2'  
F-4.5'

NOTE:

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



El. 11.1'  
C-7.4'  
(Btm. Pit)

El. 13.5'  
C-1.8'

El. 14.1'  
C-2.4'

El. 8.6'  
F-3.1'

El. 12.7'  
C-9.0'  
(Btm. Pit)

APPROX. TOP OF CUT SLOPE

El. 14.9'  
C-3.2'

El. 13.5'  
C-1.8'

El. 8.5'  
F-3.2'

Elev. Ungraded Ground at Location Stake = 5614.1'  
Elev. Graded Ground at Location Stake = 5611.7'

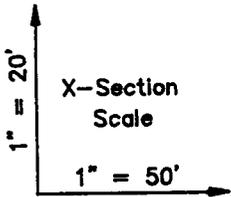
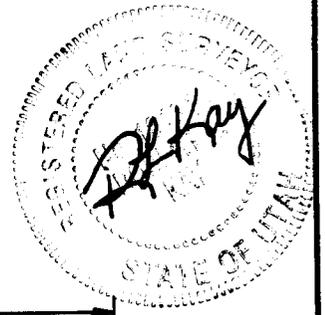
UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

CHEVRON USA., INC.

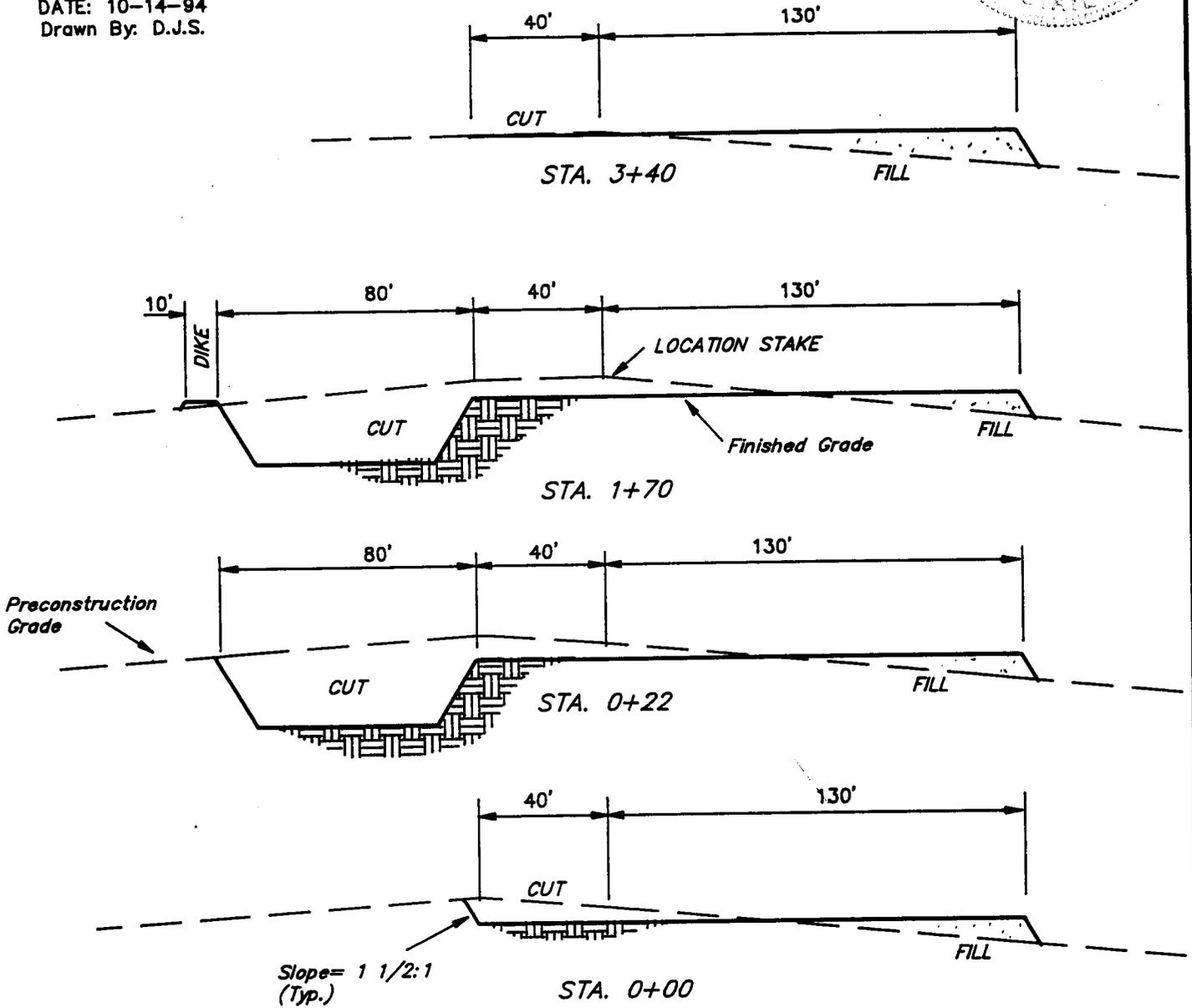
TYPICAL CROSS SECTIONS FOR

RED WASH UNIT #312  
SECTION 34, T7S, R24E, S.L.B.&M.

1656' FNL 2321' FEL



DATE: 10-14-94  
Drawn By: D.J.S.



APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping = 1,320 Cu. Yds.

Remaining Location = 4,580 Cu. Yds.

TOTAL CUT = 5,900 CU.YDS.

FILL = 2,830 CU.YDS.

EXCESS MATERIAL AFTER

5% COMPACTION = 2,920 Cu. Yds.

Topsoil & Pit Backfill = 2,920 Cu. Yds.

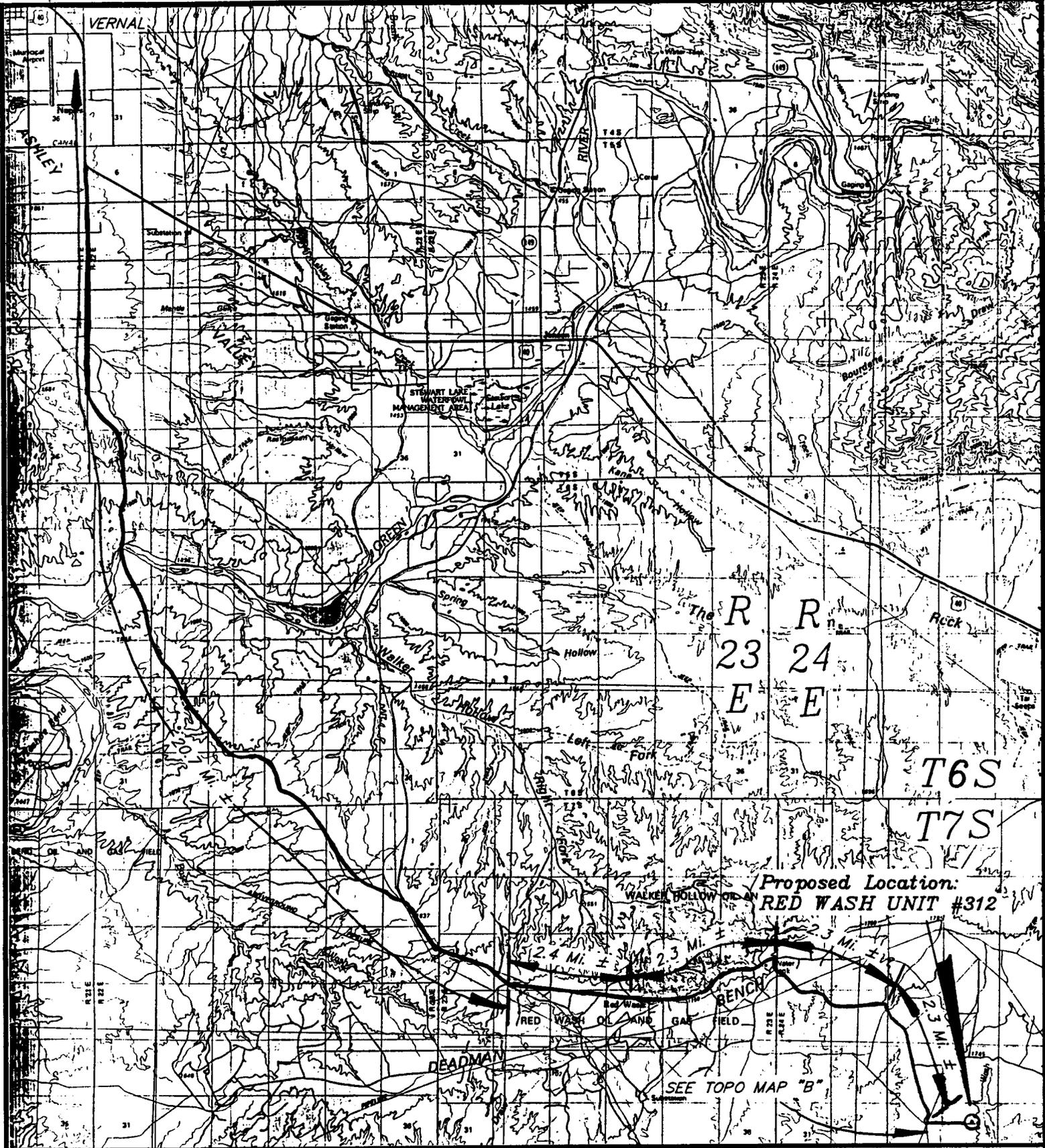
(1/2 Pit Vol.)

EXCESS CUT MATERIAL = 0 Cu. Yds.

**FIGURE #2**

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East • Yernal, Utah 84078 • (801) 789-1017



R 23 E  
R 24 E  
T 6 S  
T 7 S

Proposed Location:  
**RED WASH UNIT #312**

SEE TOPO MAP "B"

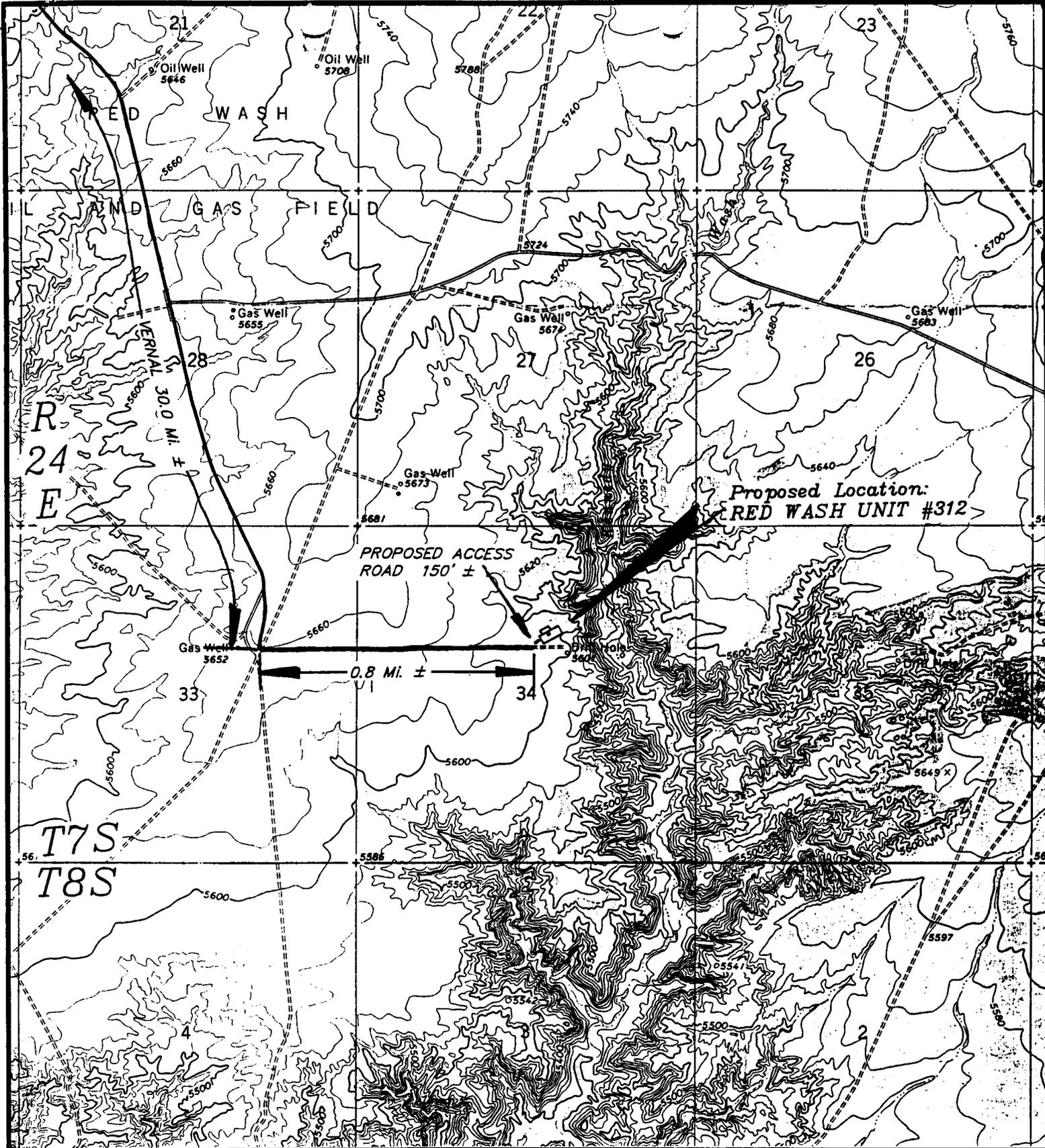
TOPOGRAPHIC  
MAP "A"

DATE: 10-16-94 J.D.S.



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

RED WASH UNIT #312  
SECTION 34, T7S, R24E, S.L.B.&M.  
1656' FNL 2321' FEL



Proposed Location:  
RED WASH UNIT #312

PROPOSED ACCESS  
ROAD 150' ±

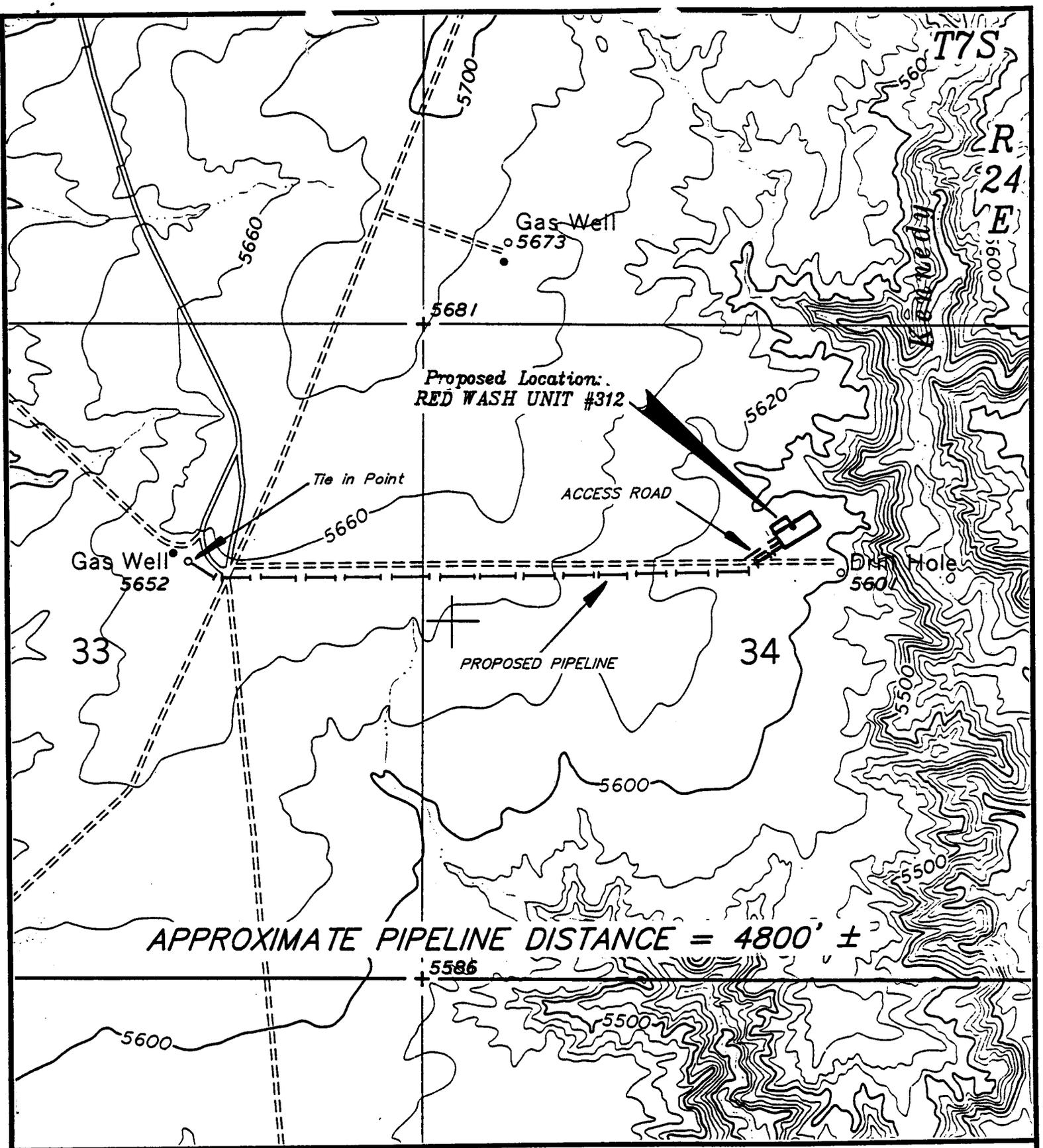
0.8 Mi. ±

TOPOGRAPHIC  
MAP "B"

SCALE: 1" = 2000'  
DATE: 10-16-94 J.D.S.



CHEVRON U.S.A. INC.  
RED WASH UNIT #312  
SECTION 34, T7S, R24E, S.L.B.&M.  
1656' FNL 2321' FEL



**TOPOGRAPHIC  
MAP "C"**

**LEGEND:**

- EXISTING PIPELINE
- |-|-|- Proposed Pipeline



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

RED WASH UNIT #312  
SECTION 34, T7S, R24E, S.L.B.&M.

DATE: 10-25-94 J.D.S.

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/25/94

API NO. ASSIGNED: 43-047-32595

WELL NAME: RED WASH UNIT #312  
 OPERATOR: CHEVRON USA PROD. CO. INC (N0210)

PROPOSED LOCATION:  
 SWNE 34 - T07S - R24E  
 SURFACE: 1656-FNL-2321-FEL  
 BOTTOM: 1656-FNL-2321-FEL  
 UINTAH COUNTY  
 RED WASH FIELD (665)

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

LEASE TYPE: FED  
 LEASE NUMBER: SL-071963

PROPOSED PRODUCING FORMATION: MVRD

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Federal  State  Fee   
 (Number U-89-75-81-34)  
 Potash (Y/N)  
 Oil shale (Y/N)  
 Water permit  
 (Number 49-2153)  
 RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

LOCATION AND SITING:

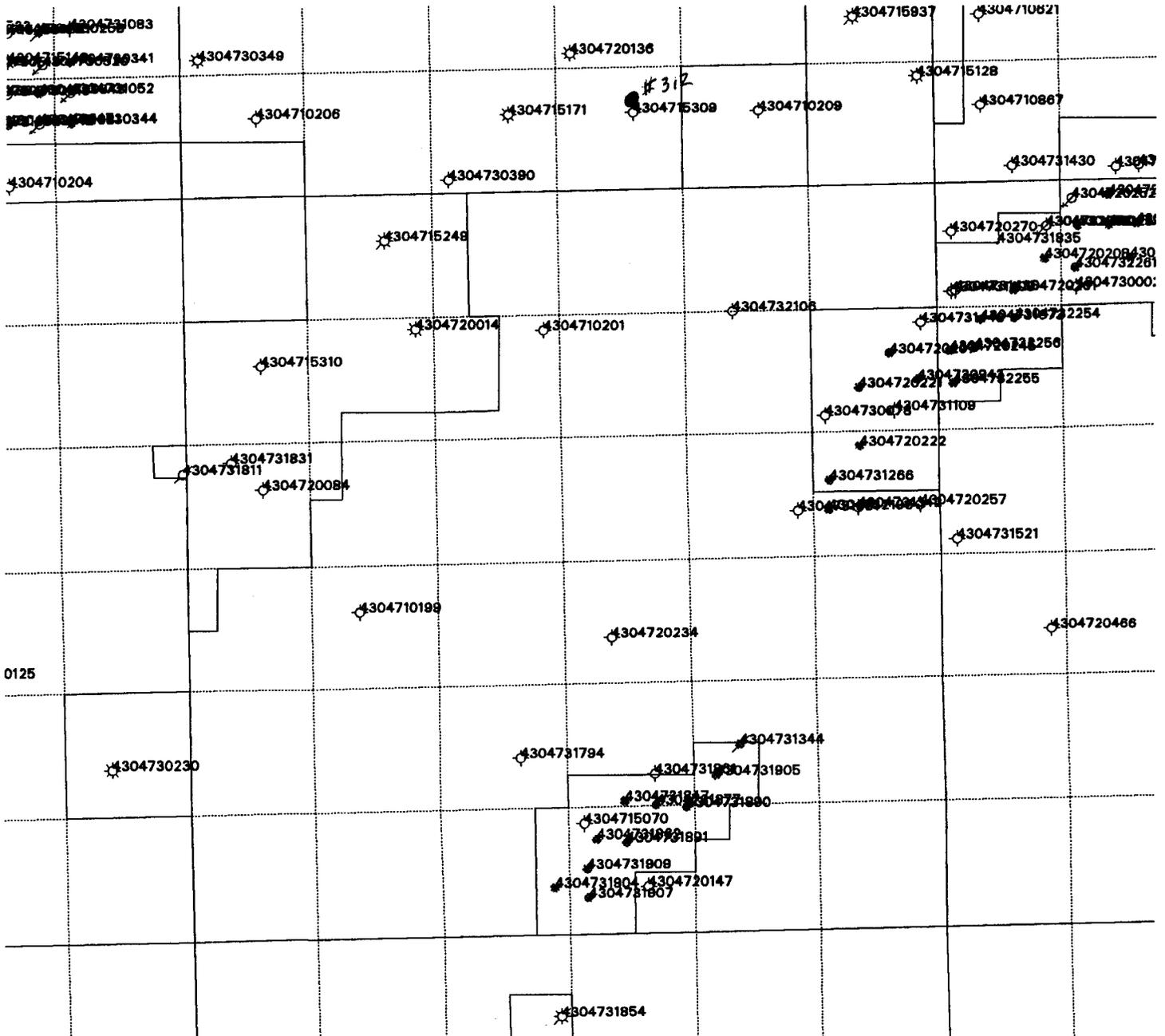
R649-2-3. Unit: UTU63010-B  
 R649-3-2. General.  
 R649-3-3. Exception.  
 Drilling Unit.  
 Board Cause no: \_\_\_\_\_  
 Date: \_\_\_\_\_

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

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

CHEVRON USA PRODUCTION  
RED WASH AREA

#312, SEC. 34, T7S, R24E #316 SEC 4, #321 SEC. 9, #322 SEC 16,  
T8S, R24E, UINTAH COUNTY



**STATE OF UTAH**

<b>Operator: CHEVRON USA PROD. CO.</b>	<b>Well Name: RED WASH UNIT 312</b>
<b>Project ID: 43-047-32595</b>	<b>Location: SEC. 34 - T07S - R24E</b>

Design Parameters:

Mud weight ( 8.33 ppg) : 0.433 psi/ft  
 Shut in surface pressure : 1541 psi  
 Internal gradient (burst) : 0.038 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)

\*\*\* **WARNING** \*\*\* Design factor for collapse exceeded in design!

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	3,900	8.625	24.00	J-55	ST&C	3,900	7.972		
	<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	1688	1370	0.812	1688	2950	1.75	81.68	244	2.99 J

Prepared by : FRM, Salt Lake City, UT  
 Date : 12-13-1994  
 Remarks :

Minimum segment length for the 3,900 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 94°F (Surface 74°F , BHT 113°F & temp. gradient 1.000°/100 ft.)  
 The mud gradient and bottom hole pressures (for burst) are 0.433 psi/ft and 1,688 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, 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**

<b>Operator: CHEVRON USA PROD. CO.</b>	<b>Well Name: RED WASH UNIT 312</b>
<b>Project ID: 43-047-32595</b>	<b>Location: SEC. 34 - T078 - R24E</b>

Design Parameters:

Mud weight ( 8.33 ppg) : 0.433 psi/ft  
 Shut in surface pressure : 3397 psi  
 Internal gradient (burst) : 0.084 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	5,950	4.500	11.60	P-110	LT&C	9,750	3.875		
	<b>Load (psi)</b>	<b>Collapse Strgth (psi)</b>	<b>S.F.</b>	<b>Burst Load (psi)</b>	<b>Min Int Strgth (psi)</b>	<b>Yield S.F.</b>	<b>Tension Load (kips)</b>	<b>Strgth (kips)</b>	<b>S.F.</b>
1	4219	7580	1.797	4219	10690	2.53	60.23	279	4.63 J

Prepared by : FRM, Salt Lake City, UT  
 Date : 12-13-1994  
 Remarks :

Minimum segment length for the 9,750 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 123°F (Surface 74°F , BHT 172°F & temp. gradient 1.000°/100 ft.)  
 The liner string design has a specified top of 3,800 feet.  
 The burst load shown is the pressure at the bottom of the segment.  
 The mud gradient and bottom hole pressures (for burst) are 0.433 psi/ft and 4,219 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, 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)

December 13, 1994

**Chevron USA Production Co., Inc.**  
11002 East 17500 South  
Vernal, Utah 84078

Re: Red Wash Unit #312 Well, 1656' FNL, 2321' FEL, SW NE, Sec. 34, T. 7 S., R. 24 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.

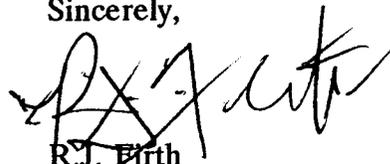


Page 2  
Chevron USA Production Co., Inc.  
Red Wash Unit #312 Well  
December 13, 1994

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 43-047-32595.

Sincerely,



R.J. Fifth  
Associate Director

ldc  
Enclosures  
cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office  
WOI1

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**RECEIVED**  
DEC 22 1994  
DIVISION OF OIL, GAS & MINERAL

DOGMT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		7. UNIT AGREEMENT NAME RED WASH UNIT	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS-WELL <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. FARM OR LEASE NAME, WELL NO. #312	
2. NAME OF OPERATOR CHEVRON USA PRODUCTION CO., INC.		9. API WELL NO. 43-047-32595	
3. ADDRESS AND TELEPHONE NO. 11002 EAST 17500 SOUTH, VERNAL, UT 84078-8526 (801) 781-4300		10. FIELD AND POOL, OR WILDCAT RED WASH MESAVERDE	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1656' FNL, 2321' FEL, SWNE At proposed prod. zone SAME		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 34-T7S-R24E, SLB&M	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 30.8 miles from Vernal, UT		12. COUNTY OR PARISH UINTAH	13. STATE UTAH
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1656'	16. NO. OF ACRES IN LEASE 960	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. 465	19. PROPOSED DEPTH 9750'	20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5614' (UNGRADED GROUND)		22. APPROX. DATE WORK WILL START* 12/10/94	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17.5"	13.375" H-40	48#	320'	222 cuft (188 sx.), shoe to surface
11"	8.625" J-55	24#	3900'	1062 cuft. (413 sx.), shoe to surface
7.875"	4.5# P-110	11.6#	9750'	1358 cuft. (1160sx.), shoe to 3800'

We proposed to drill a 9750' well to test the Mesaverde Formation at this location. Enclosures:

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

NOV 2 1994

24. SIGNED [Signature] TITLE # 22-94 TEAM LEADER DATE 11-22-94

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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 ATTACHED TO OPERATOR'S COPY

**NOTICE OF APPROVAL**

APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE DEC 15 1994

\*See Instructions On Reverse Side

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

Company/Operator: Chevron USA Production Co., Inc.

Well Name & Number: Red Wash 312

API Number: 43-047-32595

Lease Number: SL-071963

Location: SWSW Sec. 24 T. 8S R. 24E

**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 to 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 surface BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for a **3M** system for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. A test plug will need to be used in testing the BOPE. Chart recorders shall be used for all pressure tests.

The intermediate BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for a **5M double ram** system for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. A test plug will need to be used in testing the BOPE. 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.

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

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

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

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' above the base of the Usable Water Zone identified at  $\pm 5629'$ . 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

As per Onshore Oil and Gas Order No. 2 sufficient quantities of mud materials will be maintained or readily accessible for the purpose of well control.

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  $\pm 5429'$  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:

Ed Forsman                   (801) 789-7077  
Petroleum Engineer

Wayne Bankert               (801) 789-4170  
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.

CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM  
OF THE APPLICATION FOR PERMIT TO DRILL

Location of Existing and/or Proposed Facilities

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change), BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental or other financial obligation as determined by the authorized officer.

\*Burning will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BLM administered lands:

The reserve pit shall be constructed so as not to leak, break, or allow discharge.

If blasting is required to construct the pit, the pit will be lined. Otherwise it will be leak tested to determine if a liner is needed or lined to conserve water at the option of Chevron.

"If a plastic nylon reinforced liner is used, it will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O."

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B (Onshore Order No. 7), an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

Fencing Requirements

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

- a. 39-inch net wire shall be used with at least one strand of barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).

- b. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
- c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- d. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- e. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

#### Plans for Restoration of Surface

##### a. Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 1 year from the date of well completion. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc., will be removed.

Contact appropriate surface management agency for required seed mixture.

##### b. Dry Hole/Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and BLM will attach the appropriate surface rehabilitation conditions of approval.

#### Other Additional Information

- a. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- b. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- c. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities. (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)

#### Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. 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.

A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The operator or his/her contractor shall contact the BLM Office at (801) 789-1362 forty-eight (48) hours prior to construction activities.

The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

No construction or drilling activities shall be conducted between May 15th and June 20th because of crucial pronghorn habitat and pronghorn kidding season.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: CHEVRON USA

Well Name: RED WASH UNIT 312

Api No. 43-047-32595

Section 34 Township 7S Range 24E County UINTAH

Drilling Contractor APOLLO

Rig # 56

SPUDDED: Date 3/10/95

Time 8:00 AM

How DRY HOLE

Drilling will commence

Reported by KEVIN KOPP

Telephone # 1-801-790-1223

Date: 3/10/95 Signed: JLT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**  
MAR 17 1995

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

**SUNDRY NOTICES AND REPORTS ON WELLS OF OIL, GAS & MINING**

5. Lease Designation and Serial No.  
**SL-071963**

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

---

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

---

3. Address and Telephone No.  
**11002 EAST 17500 SOUTH, VERNAL, UT 84078-8526 (801) 781-4302**

---

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**1656' FNL, 2321' FEL, SEC. 34, T7S/R24E, SW/NE**

6. If Indian, Allottee or Tribe Name

---

7. If Unit or CA, Agreement Designation  
**RED WASH UNIT**

---

8. Well Name and No.  
**RWU #312**

---

9. API Well No.  
**43-047-32595**

---

10. Field and Pool, or Exploratory Area  
**RED WASH**

---

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 checked="" type="checkbox"/> Notice of Intent  <input type="checkbox"/> Subsequent Report  <input type="checkbox"/> Final Abandonment Notice	<table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Abandonment  <input type="checkbox"/> Recompletion  <input type="checkbox"/> Plugging Back  <input type="checkbox"/> Casing Repair  <input type="checkbox"/> Altering Casing  <input type="checkbox"/> Other _____                             </td> <td style="width: 50%; vertical-align: top;"> <input checked="" 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                             </td> </tr> </table> <p style="font-size: small; text-align: right;">(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</p>	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____	<input checked="" 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
<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____	<input checked="" 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		

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)

**Please refer to our approved APD for this well dated 12/15/94. We now plan to test the Green River formation at this location. All significant changes are detailed in the attached Eight Point Drilling Plan. Approval of this change of plans is respectfully requested.**

14. I hereby certify that the foregoing is true and correct.  
Signed *[Signature]* Title **Petroleum Engineer** Date **3/14/95**

(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.

**CHEVRON USA PRODUCTION CO.**

**RED WASH UNIT #312  
1656' FNL & 2321' FEL  
SWNE-S34-T7S-R24E, SLB&M  
UINTAH COUNTY, UTAH**

**EIGHT POINT DRILLING PLAN**

**1. ESTIMATED FORMATION TOPS:**

Uinta	Surface
Green River	~2192' to 5179' TD

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

**Deepest Fresh Water:** ~2192', top of Green River Formation. The Green River Formation is classified as an exempt aquifer in the vicinity of the proposed well.

**Oil Shale:** Oil shale is expected between the depths of ~3235-3535'.

**Oil:** None expected.

**Gas:** Possible gas in the Uinta Fm. below ~2100'. Expected in the Green River Fm. from ~3908' to 5029'.

**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 surface hole to 360':** No BOP equipment required.

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

Maximum anticipated surface pressure is <1400 psi.

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

## RED WASH UNIT #312 - 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 preventer. 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 outlet 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.

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

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:

Casing	Conn.	New/ Used	Stage Tool	Centralizers
8.625"	STC	New	No	10' above shoe, on 1st and 3rd collars.
5.500"	STC	New	No	10' above shoe, every other collar to top of pay ( $\pm 3809'$ ),

#### Cement Information:

Casing	Cement
8.625"	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) calculated. Tail plug used. Allowed to set under pressure.
5.500"	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 =

## RED WASH UNIT #312 - EIGHT-POINT DRILLING PLAN

1.34. Fill to 3450' ( $\pm 300'$  above top of pay) with 405 cf (329 sx or 302 sx).

Lead slurry: Class "A" + extender + additives mixed to 11.0 ppg, yield = 3.82 cf/sx. Fill to surface with 1041 cf (273 sx).

Tail plug used. Allowed to set under pressure.

### Drilling Equipment:

Surface hole will be drilled and surface casing set with 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  $\pm 9.5$  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 3500' (depth mud loggers on) to TD.

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

#### Logging:

Mud logging:	~3500' to TD.
Dual Induction/SP/GR:	TD-Surface casing shoe
Density/Neutron/GR with XY caliper:	TD-3500'
Sonic/GR with caliper	TD-Surface casing shoe.
MIR tool:	TD-3500'

## RED WASH UNIT #312 - EIGHT-POINT DRILLING PLAN

### Coring:

None planned.

### Testing:

Possible DST in lower Green River Fm. at wellsite geologist's discretion.

### **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 top of Green River Fm. Some slightly pressured (0.47 psi/ft.) gas zones within the Green River Fm. may exist, although possible pressure depleted intervals (0.37 psi/ft.) from 3809' to 5029' are viewed as greater hazards. All sands typically tight - drill underbalanced with water or unweighted mud.

Maximum expected BHP @ 5179': ~2434 psi (0.47 psi/ft.).  
Maximum expected BHT @ 5215': ~135° F.

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

### **8. OTHER:**

None.

**CHEVRON USA PRODUCTION CO.**

**RED WASH UNIT #312  
1656' FNL & 2321' FEL  
SWNE-S34-T7S-R24E, SLB&M  
UINTAH COUNTY, UTAH**

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MIR tool:	TD-3500'

## RED WASH UNIT #312 - EIGHT-POINT DRILLING PLAN

### Coring:

None planned.

### Testing:

Possible DST in lower Green River Fm. at wellsite geologist's discretion.

### 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:

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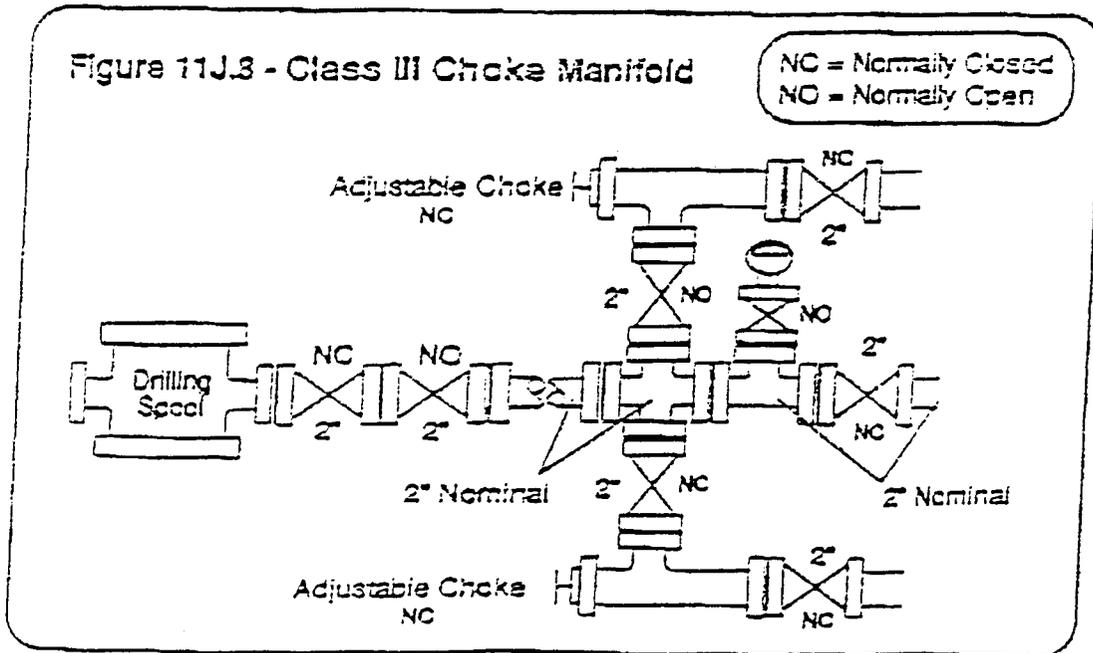
### 8. OTHER:

None.

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.3 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.



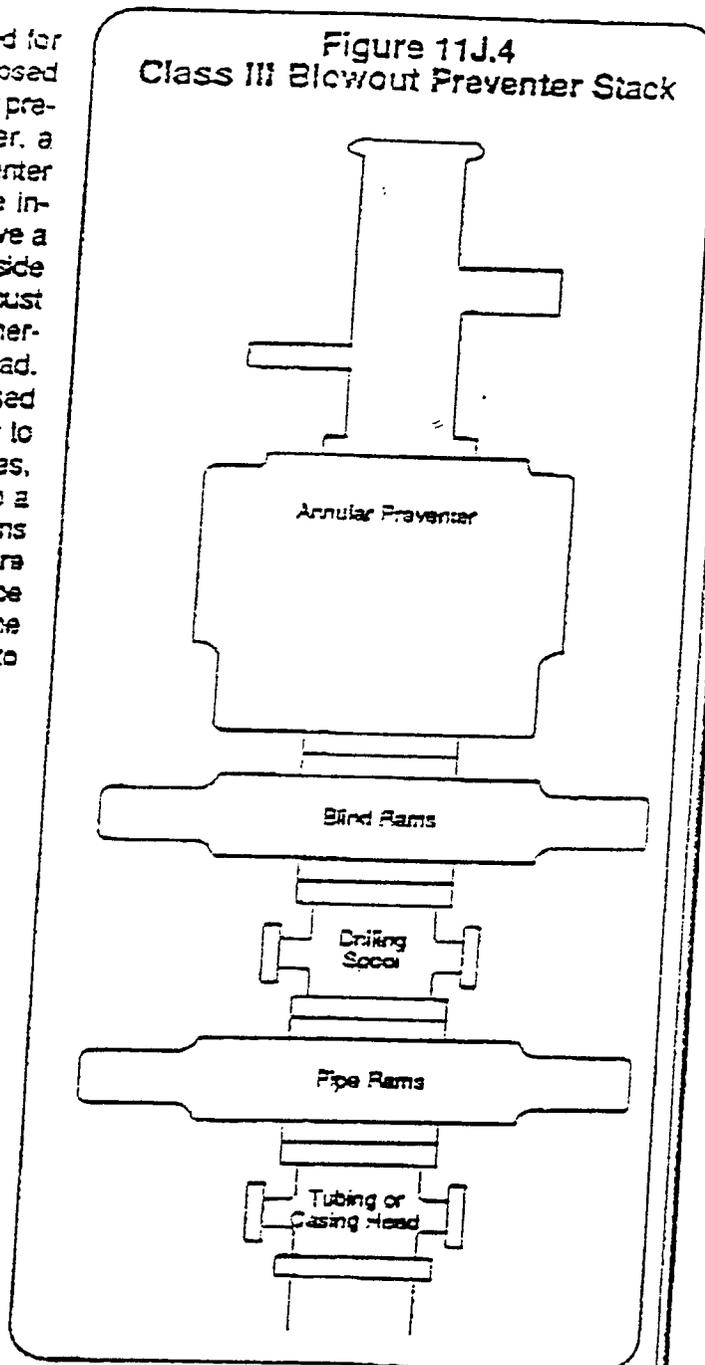
Rev. 1/1/89

11J-12

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



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)

1656' FNL, 2321' FEL  
SW NE Sec 34-T7S-R24E

5. Lease Designation and Serial No.

USA SL-071963

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Red Wash

8. Well Name and No.

Red Wash #312

9. API Well No.

43-047-32595

10. Field and Pool, or Exploratory Area

Red Wash/Mesa Verde

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 10, 1995.

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

14. I hereby certify that the foregoing is true and correct.

Signed: Mary Kohlmia

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.

\* 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

APR 10 1995

DIV OF OIL GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry

USE "APPLICATION FOR PERMIT -" For such proposals

5. Lease Designation and Serial No.

USA SL-071963

Allottee or Tribe Name

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)

1656' FNL, 2321' FEL  
SW NE Sec.34-T7S, R14E

7. If Unit or CA, Agreement Designation

Red Wash

8. Well Name and No.

Red Wash #312

9. API Well No.

43-047-32595

10. Field and Pool, or Exploratory Area

Red Wash/Green River

11. County or Parish, State

Utah Co., Utah

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

Subsequent Report

Final Abandonment Notice

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

Other

Change of Plans

New Construction

Non-Routine Fracturing

Water Shut-off

Conversion to Injection

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(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 FOLLOWING CHANGES TO THE ORIGINAL APD SUBMISSION.

1. 6-1/2" hole size

2. Casing - 4-1/2", 10.5#, K-55 STC.

3. Cement - Total quantity of cement used is 315 sxs. Tail slurry remaining the same. Fill to 3600' (+/- 300' above top pay) with 205 cf (165 sx or 155 sx).  
Lead slurry remaining the same. Fill to surface with 600 cf (160 sx).

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: 4/8/95

( 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.

\* See Instruction on Reverse Side

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 *Entities added 4-27-95. Jc*

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	5678	43-047-32626	Red Wash Unit #314	SE%SW%	S29	T7S	R24E	Uintah	04/08/95	
<b>WELL 1 COMMENTS:</b> 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. J</i></span>											
B	99999	5355	43-047-32459	Gypsum Hills Unit #11	NW%SE%	S20	T8S	R21E	Uintah	03/19/95	
<b>WELL 2 COMMENTS:</b> 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	NE%SE%	S19	T8S	R21E	Uintah	03/10/95	
<b>WELL 3 COMMENTS:</b> 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	NE%SW%	S21	T8S	R21E	Uintah	04/10/95	
<b>WELL 4 COMMENTS:</b> 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	NW%SW%	S20	T8S	R21E	Uintah	03/17/95	
<b>WELL 5 COMMENTS:</b> 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

DIVISION OF  
OIL, GAS & MINING

*J. Leedy*  
\_\_\_\_\_  
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	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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**  
**JUL 03 1995**  
**DN. OF OIL, GAS & MINING**

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

6. Lease Designation and Serial No.  
**SL-071963**

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

7. If Unit or C.A. Agreement Designation  
**RED WASH UNIT**

8. Well Name and No.  
**RED WASH UNIT 312**

9. API Well No.  
**43-047-32595**

10. Field and Pool, or Exploratory Area  
**RED WASH - GREEN RIVER**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil  Gas   
 Well  Well  Other

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)  
**1656' FNL & 2321' FEL OF SECTION 34, T7S, R24E**

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 checked="" type="checkbox"/> Other <u>FIRST PRODUCTION</u>
	<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)

**The above well commenced production effective June 27, 1995.**

14. I hereby certify that the foregoing is true and correct.  
Signed G.D. SCOTT *G.D. Scott* Title DRILLING TECHNICIAN Date June 29, 1995

(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.

**\*See instruction on Reverse Side**

**CORE ANALYSIS RESULTS**

for 75 24E 34  
GW

**Chevron USA Production Co.**

13-047-32595

**RWU #312 (32-34C)**

**Red Wash Unit**

**Uintah County, Utah**

**57122-7937**



**CORE LABORATORIES**



**CORE LABORATORIES**

**CORE ANALYSIS RESULTS**

for 7S 24E 34  
GW

**Chevron USA Production Co.**

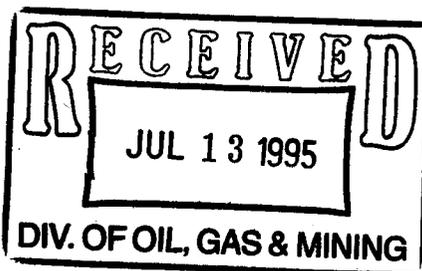
43-047-32595

**RWU #312 (32-34C)**

**Red Wash Unit**

**Uintah County, Utah**

**57122-7937**



**MICROFICHE**



## PETROLEUM SERVICES

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April 20, 1995

Mr. Russell Griffin  
Chevron USA Prod. Co.  
100 Chevron Rd.  
Rangely, CO 81648

*Subject:*

*Core Analysis Project  
RWU 312(32-34C)  
Red Wash Unit  
Uintah Co., Utah  
File Number: 57122-7937*

Dear Mr. Griffin:

Core Laboratories was requested to analyze core material obtained from the subject well. The following tests were performed and the results are presented in graphical and tabular formats within this report:

1. Plug Analysis w/CMS-300
2. Total Core Gamma

Thank you for the opportunity to perform this study for Chevron. Should you have any questions pertaining to these test results or if we may be of further assistance, please contact us at (307) 265-2731.

Very truly yours,

David A. Foster  
Supervisor

## CORE LABORATORIES

Company : Chevron  
 Well : RWU #312(32-34C)  
 Location : NE SW Sec 34 T7S R24E  
 Co,State : Uintah, Utah

Field : Red Wash  
 Formation : Green River  
 Coring Fluid : Water Base Mud  
 Elevation : 5629 KB

File No.: 57122-7937  
 Date : 12-Apr-1995  
 API No. :  
 Analysts: DF SS

### CORE ANALYSIS RESULTS

(HYDROSTATIC CONFINEMENT)

SAMPLE NUMBER	DEPTH ft	NOB (800 psi)		POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
		K <sub>∞</sub> md	K <sub>air</sub> md		OIL %	WATER %		
Core No. 1 4965.0-5001.0								
1	4965.0- 71.0							Sh -- No Analysis
	4971.0- 71.0	<.001	<.001	5.5	0.0	71.9	2.71	Ls gry suc arg
	4972.0- 73.0							Sh -- No Analysis
2	4973.0- 74.0	<.001	<.001	4.2	0.0	53.4	2.79	Ls gry suc pel
3	4974.0- 75.0	0.004	0.006	3.8	1.2	65.0	2.77	Ls gry suc arg
	4975.0- 76.0							Sh -- No Analysis
4	4976.0- 77.0	0.012	0.024	8.1	0.4	53.8	2.68	Ls gry suc arg
5	4977.0- 78.0	0.002	0.004	3.0	13.5	41.7	2.77	Ls gry suc ool
6	4978.0- 79.0	<.001	<.001	3.9	10.5	43.3	2.77	Ls dk gry suc ool
7	4979.0- 80.0	0.003	0.008	5.8	17.2	34.5	2.76	Ls gry suc ool
8	4980.0- 81.0	0.001	0.003	4.5	15.4	27.2	2.77	Ls gry suc ool
9	4981.0- 82.0	0.001	0.003	4.9	5.2	41.5	2.76	Ls gry suc ool
	4982.0- 84.0							Sh -- No Analysis
10	4984.0- 85.0	<.001	<.001	3.1	3.9	29.1	2.77	Ls gry suc ool
	4985.0- 87.5							Sh -- No Analysis
11	4987.5- 88.0	0.002	0.003	6.3	22.1	43.2	2.75	Ls gry suc ool
12	4988.0- 89.0	0.003	0.004	6.5	11.9	56.4	2.74	Ls gry suc
13	4989.0- 90.0	<.001	<.001	3.6	12.5	45.7	2.77	Ls gry suc
	4990.0- 92.0							Sh -- No Analysis
14	4992.0- 93.0	0.003	0.005	7.9	22.9	33.9	2.78	Ls lt gry suc
15	4993.0- 94.0	0.014	0.029	12.3	9.3	39.4	2.78	Ls lt gry suc
16	4994.0- 95.0	0.003	0.007	8.6	13.7	23.3	2.76	Ls lt gry suc

# CORE LABORATORIES

Company : Chevron  
Well : RWU #312(32-34C)

Field : Red Wash  
Formation : Green River

File No.: 57122-7937  
Date : 12-Apr-1995

## CORE ANALYSIS RESULTS (HYDROSTATIC CONFINEMENT)

SAMPLE NUMBER	DEPTH ft	NOB (800 psi)		POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
		K <sub>∞</sub> md	K <sub>air</sub> md		OIL %	WATER %		
17	4995.0- 96.0	<.001	<.001	3.9	2.8	69.1	2.74	Ls lt gry suc
18	4996.0- 97.0	0.385	0.583	19.8	7.0	48.0	2.78	Ls lt gry suc ool
19	4997.0- 98.0	21.4	23.8	19.1	13.7	33.9	2.78	Ls lt brn suc ool
20	4998.0- 99.0	0.212	0.392	22.2	5.8	52.8	2.79	Ls lt brn suc ool
21	4999.0- 00.0	0.030	0.044	11.1	1.0	42.9	2.77	Ls lt gry suc
22	5000.0- 01.0	0.004	0.009	9.4	10.2	42.2	2.78	Ls lt gry suc
Core No. 2 5001.0-5049.0								
23	5001.0- 02.0	23.1	26.9	28.2	3.0	63.5	2.79	Ls lt brn suc ostr
24	5002.0- 03.0	27.0	31.4	28.2	7.6	65.8	2.80	Ls lt brn suc ostr
25	5003.0- 04.0	7.43	9.11	24.1	6.1	60.9	2.79	Ls lt brn suc ostr
26	5004.0- 05.0	3.47	4.57	26.0	3.9	67.7	2.79	Ls lt brn suc ostr
27	5005.0- 06.0	0.056	0.118	18.0	2.2	60.5	2.76	Ls lt brn suc ostr
28	5006.0- 07.0	0.002	0.004	9.0	0.0	41.3	2.78	Ls lt brn suc sdy
29	5007.0- 08.0	0.110	0.214	19.7	0.0	58.0	2.76	Ls lt brn suc sdy
30	5008.0- 09.0	0.255	0.378	14.9	3.8	30.9	2.78	Ls lt brn suc sdy
31	5009.0- 10.0	0.008	0.017	10.1	2.5	42.0	2.78	Ls lt gry suc sdy
32	5010.0- 11.0	0.006	0.011	10.5	6.4	49.1	2.80	Ls lt gry suc sdy
33	5011.0- 12.0	0.008	0.016	10.2	8.4	50.3	2.83	Ls lt gry suc sdy
34	5012.0- 13.0	0.003	0.006	6.2	10.8	34.9	2.79	Ls lt gry suc sdy
35	5013.0- 14.0	<.001	<.001	5.1	7.2	30.1	2.79	Ls gry suc sdy
36	5014.0- 15.0	0.018	0.031	6.7	9.0	63.2	2.69	Sst gry vf gr shy dol
37	5015.0- 16.0	0.017	0.024	6.3	7.8	47.4	2.68	Sst gry vf gr shy dol
38	5016.0- 17.0	0.025	0.038	9.1	0.0	49.2	2.67	Sst lt gry vf gr
39	5017.0- 18.0	0.018	0.032	6.0	0.0	42.6	2.66	Sst lt gry vf gr
40	5018.0- 19.0	<.001	<.001	2.8	0.0	37.8	2.69	Sst lt gry vf-f gr dol
41	5019.0- 20.0	0.629	0.829	11.6	6.9	47.9	2.65	Sst lt gry vf-f gr

## CORE LABORATORIES

Company : Chevron  
Well : RWU #312(32-34C)

Field : Red Wash  
Formation : Green River

File No.: 57122-7937  
Date : 12-Apr-1995

### CORE ANALYSIS RESULTS

(HYDROSTATIC CONFINEMENT)

SAMPLE NUMBER	DEPTH ft	NOB (800 psi)		POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
		K <sub>∞</sub> md	K <sub>air</sub> md		OIL %	WATER %		
42	5020.0- 21.0	7.33	8.66	13.1	6.5	34.3	2.66	Sst lt gry vf-f gr
43	5021.0- 22.0	48.3	50.7	13.1	8.2	26.7	2.66	Sst lt gry f gr
44	5022.0- 23.0	25.1	27.6	15.1	11.2	31.0	2.66	Sst lt gry vf-f gr
45	5023.0- 24.0	0.014	0.030	9.1	4.7	62.1	2.68	Sst lt gry vf-f gr lams
46	5024.0- 25.0	0.030	0.065	10.0	0.0	60.1	2.68	Sst lt gry vf-f gr dol
47	5025.0- 26.0	0.006	0.012	8.7	0.0	64.5	2.69	Sst gry vf gr shy dol
	5026.0- 28.0							Sh -- No Analysis
48	5028.0- 29.0	0.005	0.012	3.3	0.0	51.1	2.68	Sst lt gry vf gr
49	5029.0- 30.0	0.032	0.062	9.3	4.2	74.3	2.67	Sst gry vf gr shy
50	5030.0- 31.0	0.031	0.051	8.4	0.0	70.8	2.67	Sst lt gry vf gr dol
51	5031.0- 32.0	0.012	0.026	10.7	0.0	62.2	2.68	Sst lt gry vf gr dol
53	5032.0- 33.0	9.91	11.1	12.2	6.9	22.8	2.66	Sst lt gry vf-f gr
52	5033.0- 34.0	0.005	0.011	7.6	0.0	69.6	2.72	Sst gry vf gr shy dol
54	5034.0- 35.0	115.	121.	16.5	7.2	19.1	2.65	Sst lt gry vf-f gr
55	5035.0- 36.0	86.8	91.2	15.6	3.1	27.5	2.65	Sst lt gry vf-f gr
56	5036.0- 37.0	38.9	42.4	16.0	5.5	26.3	2.66	Sst lt gry vf-f gr
57	5037.0- 38.0	49.5	53.6	14.3	9.6	26.8	2.65	Sst lt gry vf-f gr
58	5038.0- 39.0	41.1	44.7	15.4	4.5	24.9	2.65	Sst lt gry vf-f gr
59	5039.0- 40.0	13.1	15.3	15.8	6.2	32.7	2.66	Sst lt gry vf-f gr
60	5040.0- 41.0	14.5	16.8	15.8	5.4	32.0	2.66	Sst lt gry vf-f gr
61	5041.0- 42.0	1.19	1.60	14.3	5.2	47.4	2.67	Sst lt gry vf gr
62	5042.0- 43.0	0.012	0.028	10.1	4.9	67.7	2.69	Sst lt gry vf gr dol
63	5043.0- 44.0	0.012	0.028	10.2	4.0	58.1	2.69	Sst lt gry vf gr shy
64	5044.0- 45.0	0.028	0.058	10.2	0.0	54.3	2.68	Sst lt gry vf gr dol
	5045.0- 46.5							Sh -- No Analysis
65	5046.5- 47.0	0.017	0.035	6.1	0.0	66.2	2.67	Sst lt gry vf gr dol
	5047.0- 49.0							Sh -- No Analysis

# CORE LABORATORIES

Company : Chevron  
Well : RWU #312(32-34C)

Field : Red Wash  
Formation : GREEN RIVER

File No.: 57122-7937  
Date : 12-Apr-1995

TABLE I

## SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA	CHARACTERISTICS REMAINING AFTER CUTOFFS	
<b>ZONE:</b>	<b>ZONE:</b>	<b>PERMEABILITY:</b>
Identification ----- Green River	Number of Samples ----- 65	Flow Capacity ----- 535.7 md-ft
Top Depth ----- 4965.0 ft	Thickness Represented - 64.0 ft	Arithmetic Average ---- 9.57 md
Bottom Depth ----- 5049.0 ft		Geometric Average ----- 0.116 md
Number of Samples ----- 65	<b>POROSITY:</b>	Harmonic Average ----- 0.008 md
	Storage Capacity ----- 704.9 $\phi$ -ft	Minimum ----- 0.001 md
<b>DATA TYPE:</b>	Arithmetic Average ---- 11.0 %	Maximum ----- 115. md
Porosity ----- (HELIUM)	Minimum ----- 2.8 %	Median ----- 0.025 md
Permeability ----- $K_{\infty}$ (800 psi)	Maximum ----- 28.2 %	Standard Dev. (Geom) -- $K \cdot 10^{\pm 1.600}$ md
	Median ----- 10.0 %	
<b>CUTOFFS:</b>	Standard Deviation ---- $\pm 6.2$ %	<b>HETEROGENEITY (Permeability):</b>
Porosity (Minimum) ----- 0.0 %		Dykstra-Parsons Var. -- 0.928
Porosity (Maximum) ----- 100.0 %	<b>GRAIN DENSITY:</b>	Lorenz Coefficient ---- 0.783
Permeability (Minimum) --- 0.0000 md	Arithmetic Average ---- 2.73 gm/cc	
Permeability (Maximum) --- 100000. md	Minimum ----- 2.65 gm/cc	<b>AVERAGE SATURATIONS (Pore Volume):</b>
Water Saturation (Maximum) 100.0 %	Maximum ----- 2.83 gm/cc	Oil ----- 5.7 %
Oil Saturation (Minimum) - 0.0 %	Median ----- 2.74 gm/cc	Water ----- 47.1 %
Grain Density (Minimum) -- 2.00 gm/cc	Standard Deviation ---- $\pm 0.06$ gm/cc	
Grain Density (Maximum) -- 3.00 gm/cc		
Lithology Excluded ----- NONE		

## CORE LABORATORIES

Company : Chevron  
 Well : RWU #312(32-34C)  
 Location : NE SW Sec 34 T7S R24E  
 Co,State : Uintah, Utah

Field : Red Wash  
 Formation : Green River  
 Coring Fluid : Water Base Mud  
 Elevation : 5629 KB

File No.: 57122-7937  
 Date : 12-Apr-1995  
 API No. :  
 Analysts: DF SS

### C M S - 2 0 0 T E S T D A T A

SAMPLE NUMBER	DEPTH ft	NOB PRESSURE psi	PORE VOLUME cc	POROSITY %	K <sub>∞</sub> md	K <sub>air</sub> (est) md	b (He) psi	BETA ft(-1)	ALPHA microns
3	4974.0	800.0			0.004	0.006	47.46	2.0673E13	2.68041E2
4	4976.0	800.0			0.012	0.024	79.12		
5	4977.0	800.0			0.002	0.004	72.59	1.7080E16	1.29725E5
7	4979.0	800.0			0.003	0.008	103.75	1.3321E14	1.46620E3
8	4980.0	800.0			0.001	0.003	122.79	5.8088E15	2.40004E4
9	4981.0	800.0			0.001	0.003	120.25	1.1197E15	4.15726E3
11	4987.5	800.0			0.002	0.003	80.29	8.3430E15	4.18442E4
12	4988.0	800.0			0.003	0.004	57.21	8.2134E14	6.92510E3
14	4992.0	800.0			0.003	0.005	51.30	2.3863E15	2.55631E4
15	4993.0	800.0			0.014	0.029	84.79	6.1357E14	2.63056E4
16	4994.0	800.0			0.003	0.007	125.09	2.2900E15	1.99000E4
18	4996.0	800.0			0.385	0.583	30.21	1.6298E11	2.00178E2
19	4997.0	800.0			21.4	23.8	5.08	3.18806E9	2.20115E2
20	4998.0	800.0			0.212	0.392	52.34	4.9331E11	3.32486E2

## CORE LABORATORIES

Company : Chevron  
Well : RWU #312(32-34C)

Field : Red Wash  
Formation : Green River

File No.: 57122-7937  
Date : 12-Apr-1995

### C M S - 2 0 0 T E S T D A T A

SAMPLE NUMBER	DEPTH ft	NOB PRESSURE psi	PORE VOLUME cc	POROSITY %	K <sub>∞</sub> md	Kair(est) md	b (He) psi	BETA ft(-1)	ALPHA microns
21	4999.0	800.0			0.030	0.044	31.97	1.8611E15	1.78231E5
22	5000.0	800.0			0.004	0.009	122.05	1.0053E17	1.13181E6
23	5001.0	800.0			23.1	26.9	7.34	5.67425E8	4.22944E1
24	5002.0	800.0			27.0	31.4	7.22	2.90635E8	2.53145E1
25	5003.0	800.0			7.43	9.11	10.77	2.50873E9	6.00801E1
26	5004.0	800.0			3.47	4.57	15.99	1.8671E10	2.07939E2
27	5005.0	800.0			0.056	0.118	75.52	9.9590E11	1.76025E2
28	5006.0	800.0			0.002	0.004	141.10		
29	5007.0	800.0			0.110	0.214	61.16	1.1978E12	4.16300E2
30	5008.0	800.0			0.255	0.378	29.23	1.4823E12	1.19464E3
31	5009.0	800.0			0.008	0.017	96.26	3.3931E15	8.53746E4
32	5010.0	800.0			0.006	0.011	75.89	8.2719E14	1.58418E4
33	5011.0	800.0			0.008	0.016	82.24	4.6831E14	1.17066E4
34	5012.0	800.0			0.003	0.006	63.90	2.5962E15	2.89419E4
36	5014.0	800.0			0.018	0.031	52.51	1.5311E15	9.17321E4

**CORE LABORATORIES**

Company : Chevron  
Well : RWU #312(32-34C)

Field : Red Wash  
Formation : Green River

File No.: 57122-7937  
Date : 12-Apr-1995

C M S - 2 0 0 T E S T D A T A

SAMPLE NUMBER	DEPTH ft	NOB PRESSURE psi	PORE VOLUME cc	POROSITY %	K <sub>∞</sub> md	Kair(est) md	b (He) psi	BETA ft(-1)	ALPHA microns
37	5015.0	800.0			0.017	0.024	29.54	1.3459E16	7.46475E5
38	5016.0	800.0			0.025	0.038	39.09	2.9934E15	2.39172E5
39	5017.0	800.0			0.018	0.032	56.33	2.1865E15	1.26268E5
41	5019.0	800.0			0.629	0.829	18.02	1.5755E12	3.18130E3
42	5020.0	800.0			7.33	8.66	8.62	5.86808E8	1.39092E1
43	5021.0	800.0			48.3	50.7	2.14	2.13979E8	3.34039E1
44	5022.0	800.0			25.1	27.6	4.37	2.57381E8	2.09226E1
45	5023.0	800.0			0.014	0.030	78.43	1.5190E12	6.89727E1
46	5024.0	800.0			0.030	0.065	81.51	2.7872E13	2.71619E3
47	5025.0	800.0			0.006	0.012	83.87	8.1020E14	1.56320E4
48	5028.0	800.0			0.005	0.012	121.01	3.0574E14	4.96607E3
49	5029.0	800.0			0.032	0.062	66.24	1.4916E13	1.52534E3
50	5030.0	800.0			0.031	0.051	46.94	8.4154E14	8.36550E4
51	5031.0	800.0			0.012	0.026	80.38	7.2405E13	2.93553E3
53	5032.0	800.0			9.91	11.1	5.53	9.45172E8	3.01306E1

CORE LABORATORIES

Company : Chevron  
Well : RWU #312(32-34C)

Field : Red Wash  
Formation : Green River

File No.: 57122-7937  
Date : 12-Apr-1995

C M S - 2 0 0 T E S T D A T A

SAMPLE NUMBER	DEPTH ft	NOB PRESSURE psi	PORE VOLUME cc	POROSITY %	K <sub>∞</sub> md	K <sub>air</sub> (est) md	b (He) psi	BETA ft(-1)	ALPHA microns
52	5033.0	800.0			0.005	0.011	99.59		
54	5034.0	800.0			115.	121.	1.98	2.76833E7	1.03268E1
55	5035.0	800.0			86.8	91.2	2.06	5.41305E7	1.52019E1
56	5036.0	800.0			38.9	42.4	3.78	9.98766E7	1.25758E1
57	5037.0	800.0			49.5	53.6	3.47	5.99973E7	9.60700E0
58	5038.0	800.0			41.1	44.7	3.75	9.87546E7	1.31333E1
59	5039.0	800.0			13.1	15.3	7.58	6.84060E8	2.90399E1
60	5040.0	800.0			14.5	16.8	7.32	1.64909E8	7.73376E0
61	5041.0	800.0			1.19	1.60	18.54	4.5198E10	1.73890E2
62	5042.0	800.0			0.012	0.028	101.07	6.4811E13	2.53205E3
63	5043.0	800.0			0.012	0.028	98.77	6.5189E13	2.59058E3
64	5044.0	800.0			0.028	0.058	77.36	2.0965E13	1.87214E3
65	5046.5	800.0			0.017	0.035	75.25	5.0981E13	2.83450E3

# CORE LABORATORIES

Company : Chevron  
Well : RWU #312(32-34C)

Field : Red Wash  
Formation : Green River

File No.: 57122-7937  
Date : 12-Apr-1995

## ANALYTICAL PROCEDURES AND QUALITY ASSURANCE

### HANDLING & CLEANING

Core Transportation : Chevron, Hot Shot  
Solvent : Toulene  
Extraction Equipment : Dean Stark, Centrifuge  
Extraction Time : 11-22 Hours  
Drying Equipment : Dry Oven  
Drying Time : 24 Hours  
Drying Temperature : 200 F

### ANALYSIS

Grain volume measured by Boyle's Law in a matrix cup using He  
Bulk volume measured by calipering  
Water saturations by Dean Stark  
Oil saturations by weight difference in Dean Stark  
Core Gamma Composite

### REMARKS

Caliper bulks were requested by Chevron. Core slabs, plugs to Chevron, Rangley, Core butts to Chevron, Houston.  
Client stated that we had reversed samples 52,53 in our original data. There are corrected in this report.

### CORE MEASUREMENT SYSTEM (CMS-300)

$$\text{Porosity} = \frac{\text{Directly Measured Pore Volume}}{\text{Bulk Volume}} \times 100$$

$$\text{Porosity} = \frac{\text{Helium Injected Into Pore Space By CMS}}{\text{CMS Pore Volume} + \text{Boyle's Law Grain Volume}}$$

NOTE: The second porosity equation corrects for bulk volume reduction as overburden pressure is applied.

$k_{\infty}$  = Equivalent, non-reactive, liquid permeability determined by the CMS at up to eight designated net overburden confining stresses. This is an improved flow capacity indicator since gas slippage effects present at low laboratory pore pressure (and not in the reservoir) have been eliminated.

$k_{air}$  = A calculated air permeability approximating historical core analysis permeability data.  $k_{air}$  is an optimistic value. Low pore pressures in historical laboratory measurements result in gas slippage not present at reservoir conditions and create artificially high permeability values.

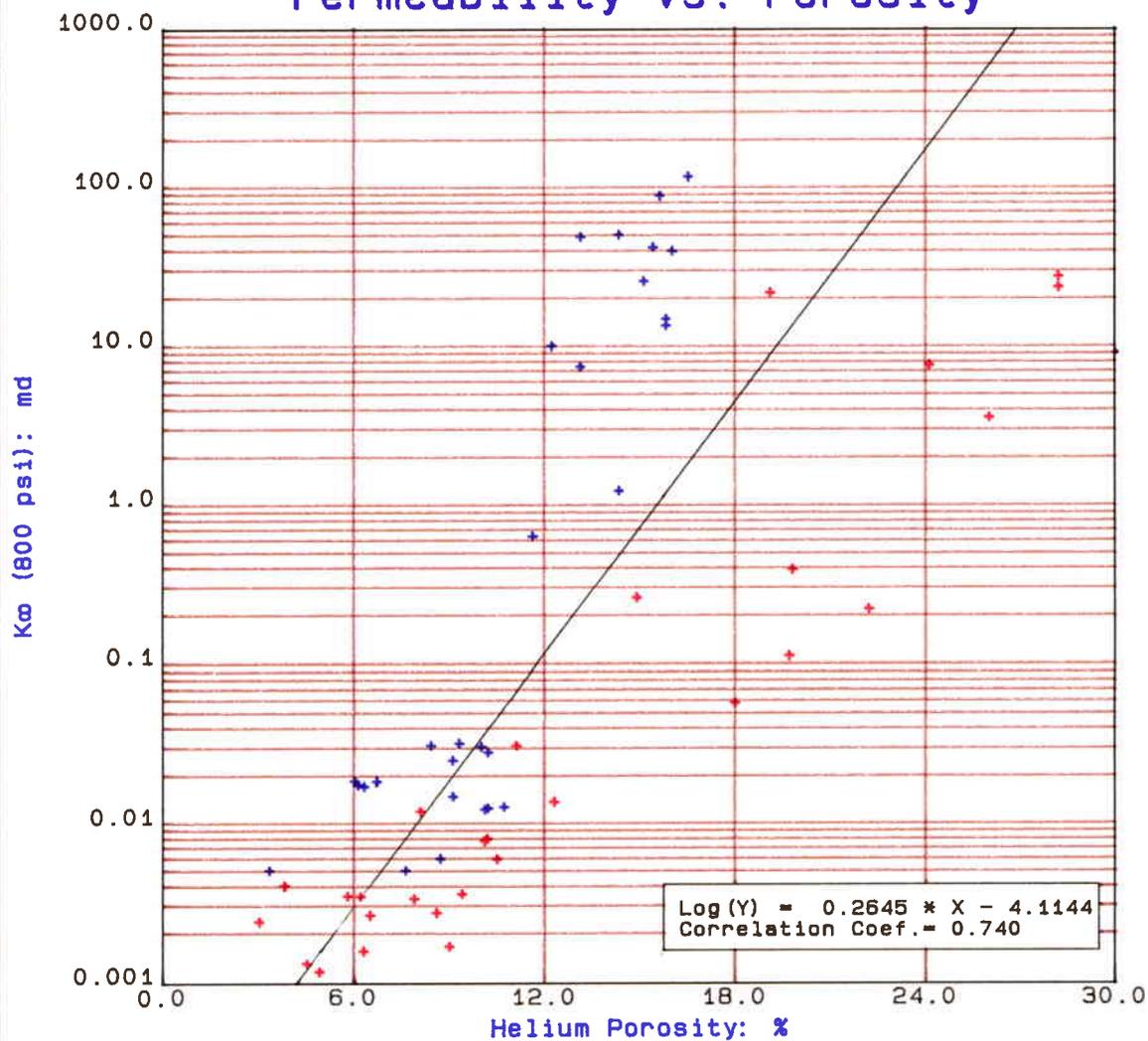
$b$  = A term dependent on (1) pore geometry and (2) type of gas utilized in the permeability measurement that links  $k_{\infty}$  and  $k_{air}$  as follows.

$$k_{air} = k_{\infty} \left( 1 + \frac{b_{air}}{P_{mean}} \right)$$

$P_{mean}$  = The mean pore pressure which is equivalent to the average of the upstream and downstream pressure of the core being tested. This value is lower in a typical laboratory determination than in the reservoir.

Beta = Forchheimer inertial term, needed to account for lost flow rate due to gas inertial and/or kinetic effects as gas flows through rock pores.

# Permeability vs. Porosity

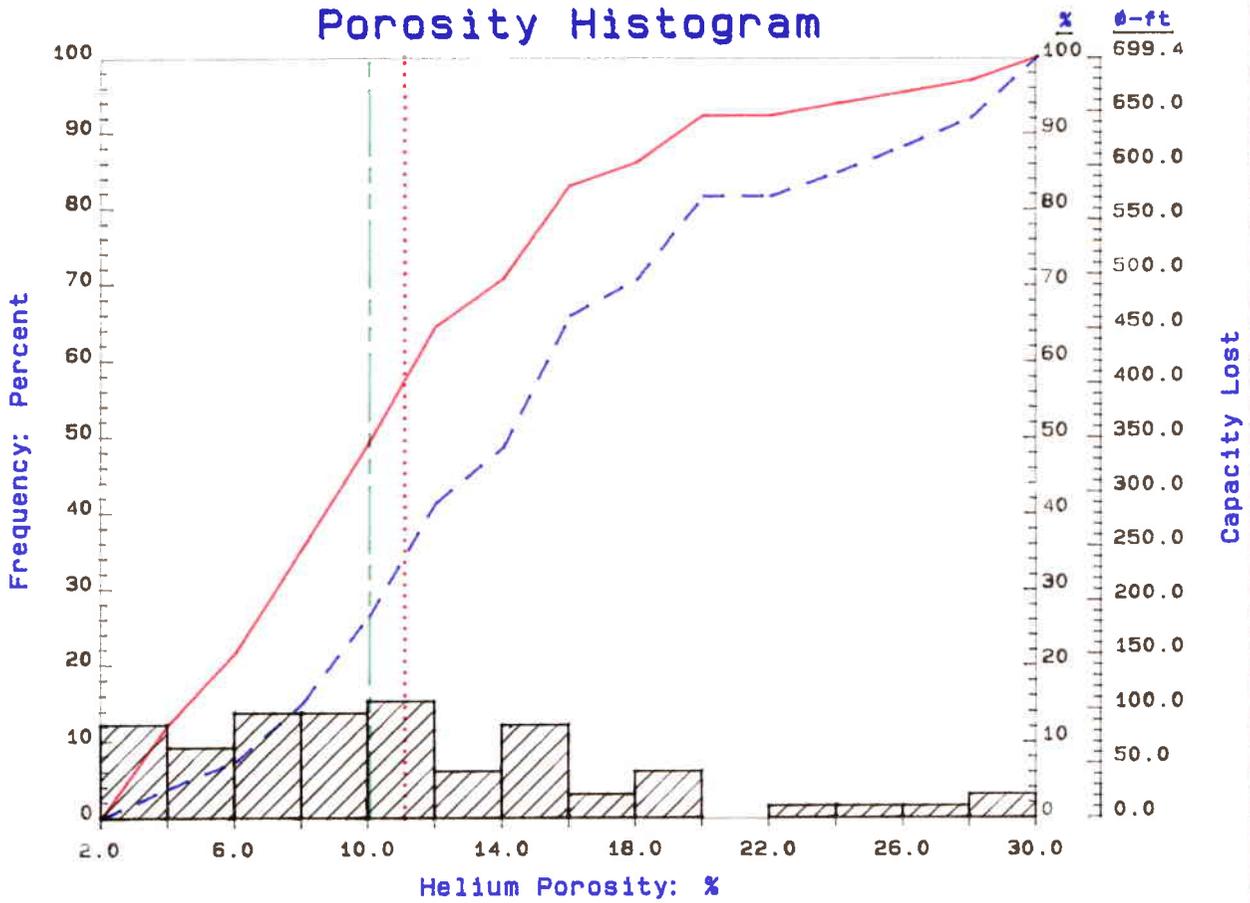


**Chevron USA**  
 RWU 312 (32-34C)  
 Red Wash Field  
 Uintah County, Utah  
 Green River (4965.0-5049.0 feet)  
 Cores 1, 2  
 Core Laboratories

- LEGEND -  
 Green River-Ls  
 Green River-Sd

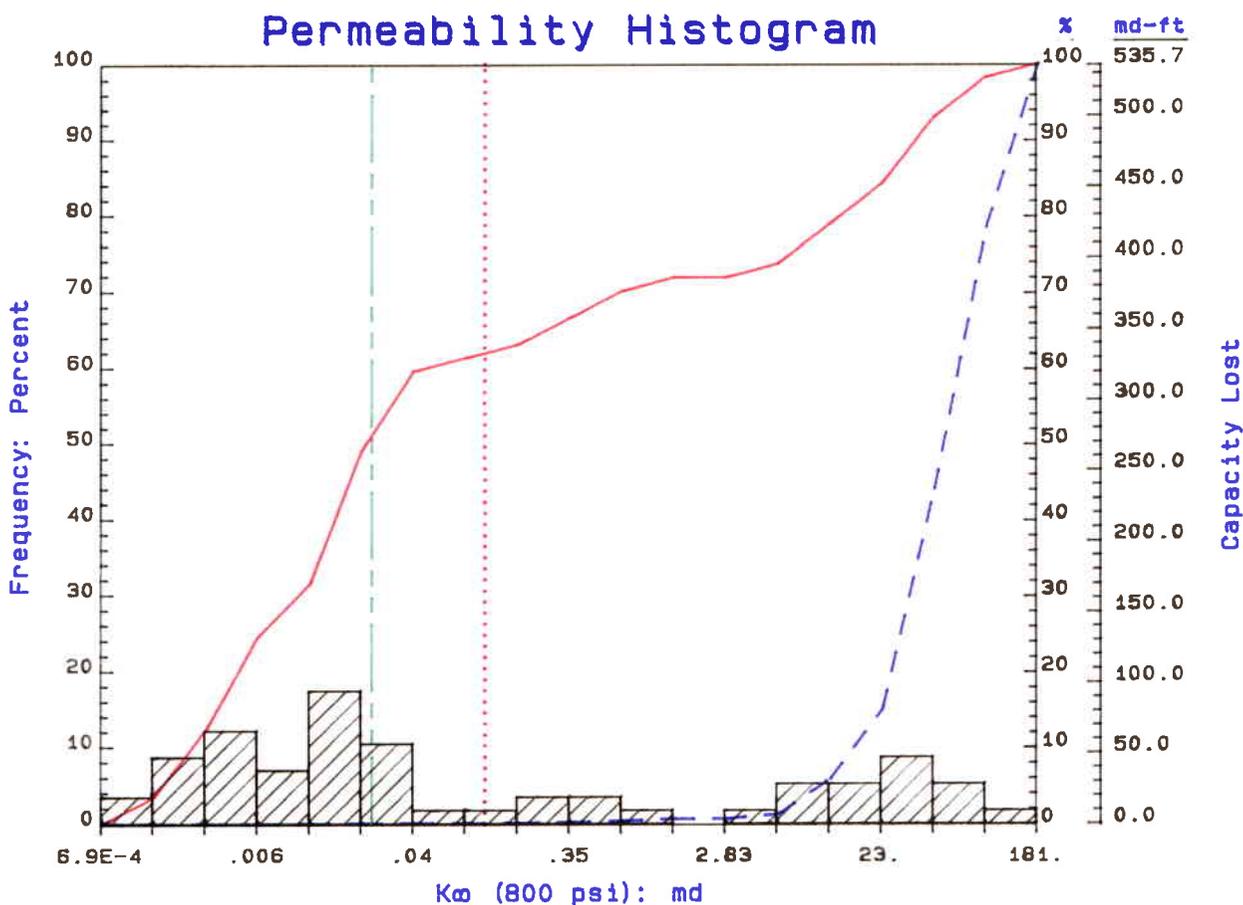
9-Apr-1995

# Porosity Histogram



<p><b>Chevron USA</b>                  RWU 312 (32-34C)                  Red Wash Field                  Uintah County, Utah                  Green River (4965.0-5049.0 feet)                  Cores 1, 2</p>	<p>- LEGEND -</p> <p>--- Median Value (10.0)                  ..... Arith. Average (11.1)                  --- Cumulative Frequency                  --- Cumulative Capacity Lost</p>
<p>Core Laboratories</p>	<p>65 Samples</p> <p>9-Apr-1995</p>

# Permeability Histogram



<p><b>Chevron USA</b>                  RWU 312 (32-34C)                  Red Wash Field                  Uintah County, Utah                  Green River (4965.0-5049.0 feet)                  Cores 1, 2</p>	<p>-- LEGEND --</p> <p>— Median Value (0.025)                  ..... Geom. Average (0.116)                  — Cumulative Frequency                  - - - Cumulative Capacity Lost</p> <p>57 Samples</p>
<p>Core Laboratories</p>	<p>9-Apr-1995</p>

# Correlation Coregraph

**Chevron USA**  
 RWU 312 (32-34C)  
 Red Wash Field  
 Uintah County, Utah  
 Green River (4965.0-5049.0 feet)  
 Cores 1, 2

Vertical Scale  
 5.00 in = 100.0 ft

Core Laboratories

9-Apr-1995

- Lithology Legend -



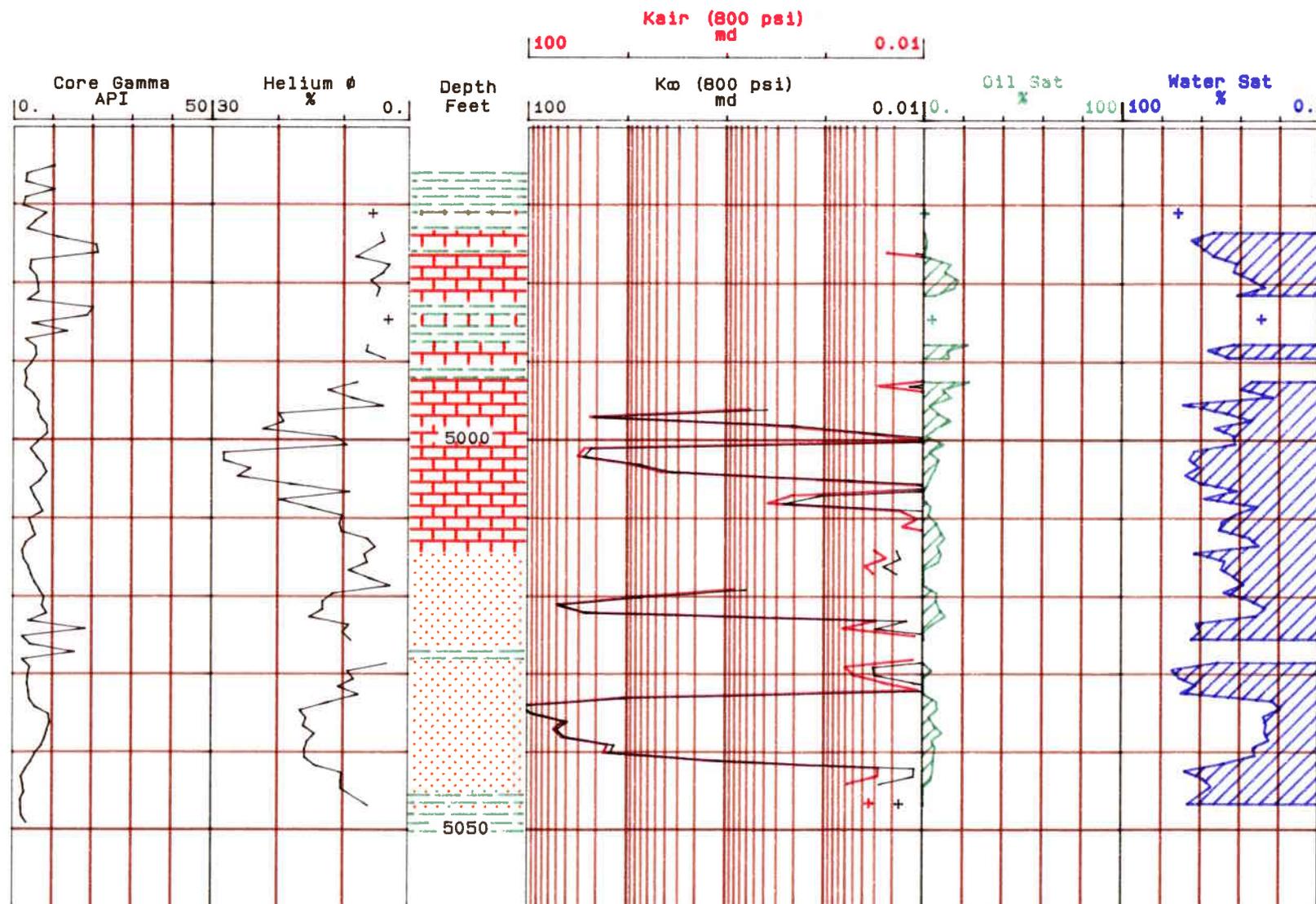
Shale



Limestone



Sandstone



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.  
**SL-071963**

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

7. If Unit or CA, Agreement Designation  
**RED WASH UNIT**

8. Well Name and No.  
**Red Wash Unit 312**

9. API Well No.  
**43-047-32595**

10. Field and Pool, or Exploratory Area  
**RED WASH - GREEN RIVER**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil  Gas   
 Well  Well  Other **Well is still being evaluated as of this time**

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)  
**1656' FNL & 2321' FEL (SW NE) SECTION 34, T7S, R24E, SLBM**

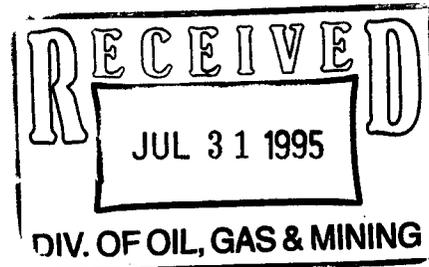
12. **CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

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 checked="" type="checkbox"/> Other <b>EVALUATING WELL</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)

**We are requesting an extension on filing the Well Completion report on this well, as the well is still being evaluated at this time.**

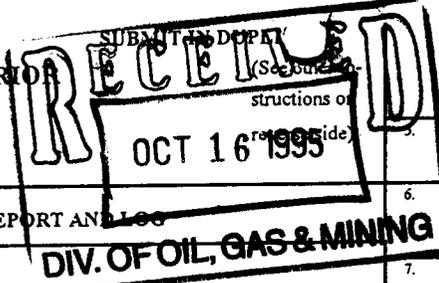


14. I hereby certify that the foregoing is true and correct.  
Signed **G.D. SCOTT** *G.D. Scott* Title **DRILLING TECHNICIAN** Date **July 27, 1995**

(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



Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

1. WELL COMPLETION OR RECOMPLETION REPORT AND LOG

2. LEASE DESIGNATION AND SERIAL NO.  
SL-071963

3. FINDIAN, ALLOTTEE OR TRIBE NAME  
N/A

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  
RED WASH UNIT

8. FARM OR LEASE NAME  
RED WASH

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

9. WELL NO.  
RWU 312

3. ADDRESS OF OPERATOR  
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

10. FIELD AND POOL, OR WILDCAT  
RED WASH-GRN. RIVER

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1656' FNL & 2321' FEL  
At top rod. interval reported below  
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
SEC. 34, T7S, R24E, SLBM

14. PERMIT NO. 43-047-32595	DATE ISSUED 12/15/94	12. COUNTY OR PARISH UINTAH	13. STATE UTAH
15. DATE SPUDDED 3/10/95	16. DATE T.D. REACHED 4/9/95	17. DATE COMPL. (Ready to prod.) 6/21/95	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5626 K.B.
19. ELEV. CASING HEAD 5614	20. TOTAL DEPTH, MD & TVD 5203'	21. PLUG BACK T.D., MD & TVD 5138'	22. IF MULTIPLE COMPL., HOW MANY* N/A
23. INTERVALS DRILLED BY →	24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* GREEN RIVER FORMATION TOP 5018' MD 5018' TVD BOTTOM 5045' MD 5045' TVD	25. WAS DIRECTIONAL SURVEY MADE NO	26. TYPE ELECTRIC AND OTHER LOGS RUN DIL. GR. SONIC, CALIPER, DEN. DENSITY, NEUTRON, MRIL, CBL, CCL 4-17-95
27. WAS WELL CORED YES	28. CASING RECORD (Report all strings set in well)		

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	390'	12 1/4"	235 SX. CLASS G	N/A
4 1/2"	10.5#	5203'	6 1/2"	LEAD: 220 SX. HI-FIL STANDARD (11 PPG, 3.82 CUFT./SX.) TAIL: 200 SX. PREMIUM AG250 (14.8 PPG, 1.34 CUFT./SX.)	N/A

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 3/8"	5000'	N/A

31. PERFORATION RECORD (Interval, size and number)  
4 JSPF: 5018-5045

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
DEPTH INTERVAL (MD) 5018-5045  
AMOUNT AND KIND OF MATERIAL USED 1136 GAL. 15% HCL & 16,500# 20/40 SAND

33. PRODUCTION

DATE FIRST PRODUCTION 6/27/95  
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 2 1/2" X 1 3/4" X 20' RHAC ROD PUMP  
WELL STATUS (Producing or shut-in) PRODUCING

DATE OF TEST 7/18/95	HOURS TESTED 24	CHOKE SIZE N/A	PROD'N FOR TEST PERIOD →	OIL—BBL. 0	GAS—MCF. 27	WATER—BBL. 29	GAS-OIL RATIO N/A
FLOW. TUBING PRESS. N/A	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL. SAME	GAS—MCF SAME	WATER—BBL SAME	OIL GRAVITY-API (CORR.) 28.5	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
SOLD  
TEST WITNESSED BY  
RON HORROCKS

35. LIST OF ATTACHMENTS  
NONE (LOGS PREVIOUSLY SENT)

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

SIGNED H.D. Scott TITLE DRILLING TECHNICIAN DATE 10/9/95

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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
UINTA GREEN RIVER WASATCH	SURFACE 2290 5095	2290 5095 5203	CORED INTERVAL 4965 TO 5049  NO DSTS	UINTA GREEN RIVER Mahogany Ledge Oil Shale Green River F Green River G Green River H Green River K Green River L WASATCH	SURFACE 2290 3230 3810 4024 4194 4734 4920 5095	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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SL-071963

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7. If Unit or CA, Agreement Designation  
RED WASH UNIT

8. Well Name and No.  
RED WASH UNIT 312

9. API Well No.  
43-047-32595

10. Field and Pool, or Exploratory Area  
RED WASH - GREEN RIVER

11. County or Parish, State  
UINTAH, UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil Gas  
 Well  Well  Other

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  
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1656' FNL & 2321' FEL (SW NE) SECTION 34, T7S, R24E, SLBM

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	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>ADDED PERFORATIONS</u>
	<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)

- MIRU. ATTEMPT TO PULL RODS AND PUMP WITHOUT HOT OILING WELL. IF ABSOLUTELY REQUIRED, USE MINIMAL FLUID TO GET JOB DONE.
- RU PRODUCTION LOGGING SERVICES AND RUN STATIC/GRADIENT BOTTOM HOLE PRESSURE SURVEY TO MID-PERFORATIONS. RD PLS.
- ND WH AND NU BOPE. RELEASE TUBING ANCHOR AND PULL TUBING.
- SET CIBP AT 4950' AND CAP WITH ~ 2 SACKS CEMENT.
- TIH WITH PACKER, SET SAME AT ~ 3950' AND PRESSURE TEST ANNULUS.
- SWAB TUBING DOWN TO ~ 3000' AND PERFORATE 4014-4019' THROUGH TUBING WITH 4 JSPF, 0 DEGREE PHASING, DECENTRALIZED, MAXIMUM AVAILABLE CHARGE. DEPTHS ARE FROM WESTERN-ATLAS NEUTRON-DENSITY LOG DATED 4/9/95.
- FLOW/SWAB AND EVALUATE. ADDITIONAL ACTION, SUCH AS STIMULATION OR ADDITIONAL PERFORATING, WILL BE DETERMINED BASED ON RESULTS.
- RDMO.

14. I hereby certify that the foregoing is true and correct.  
Signed G.D. SCOTT *G.D. Scott* Title DRILLING TECHNICIAN Date April 3, 1996

(This space for Federal or State office use)  
Approved by: *J.B. Matthews* Title Petroleum Engineer Date 4/9/96  
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

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.  
**SL-071963**

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

7. If Unit or CA, Agreement Designation  
**RED WASH UNIT**

8. Well Name and No.  
**Red Wash Unit 312**

9. API Well No.  
**43-047-32595**

10. Field and Pool, or Exploratory Area  
**RED WASH - GREEN RIVER**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil Gas  
 Well  Well  Other

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)  
**1656' FNL & 2321' FEL (SW NE) SECTION 34, T7S, R24E, SLBM**

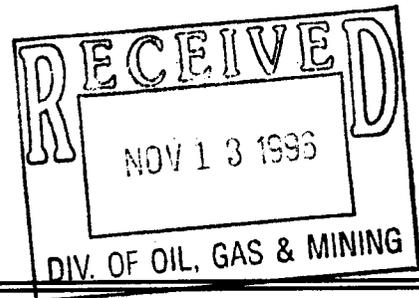
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> 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 <u>TA STATUS OF WELL</u>
	<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)

**CHEVRON IS REQUESTING TA APPROVAL ON THE ABOVE WELL. TESTS FOR HEBHIND PIPE HYDROCARBON POTENTIAL HAVE BEEN PROPOSED FOR THIS WELL.**



14. I hereby certify that the foregoing is true and correct.  
Signed G.D. SCOTT *G.D. Scott* Title DRILLING TECHNICIAN Date November 5, 1996

(This space for Federal or State office use)

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

Conditions of approval, if any \_\_\_\_\_

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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

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

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)  
**1656' FNL & 2321' FEL (SW NE) SECTION 34, T7S, R24E, SLBM**

5. Lease Designation and Serial No.  
**SL-071963**

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

7. If Unit or CA, Agreement Designation  
**RED WASH UNIT**

8. Well Name and No.  
**RED WASH UNIT 312**

9. API Well No.  
**43-047-32595**

10. Field and Pool, or Exploratory Area  
**RED WASH - GREEN RIVER**

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

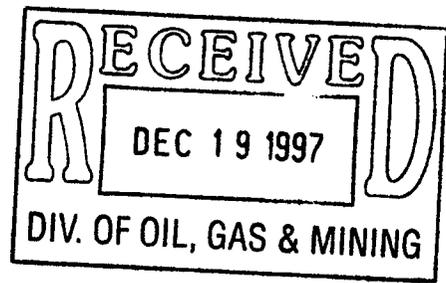
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input 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 <u>TA STATUS OF WELL</u>
	<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)

**CHEVRON IS REQUESTING A TA STATUS ON THE ABOVE WELL. WE WILL EVALUATE THIS WELL RECOMPLETION OR P&A DURING 1999.**



14. I hereby certify that the foregoing is true and correct.  
Signed DC Tanner Title COMPUTER SYSTEMS OPERATOR Date 12/9/97

(This space for Federal or State office use)

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

Conditions of approval, if any \_\_\_\_\_

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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**

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Use "APPLICATION FOR PERMIT--" for such proposals

***SUBMIT IN TRIPLICATE***

1. Type of Well  
 Oil Gas  
 Well  Well  Other

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

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)  
**1656' FNL & 2321' FEL (SW NE) SECTION 34, T7S, R24E, SLBM**

5. Lease Designation and Serial No.  
**SL-071963**

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

7. If Unit or CA, Agreement Designation  
**RED WASH UNIT**

8. Well Name and No.  
**RED WASH UNIT 312**

9. API Well No.  
**43-047-32595**

10. Field and Pool, or Exploratory Area  
**RED WASH - GREEN RIVER**

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

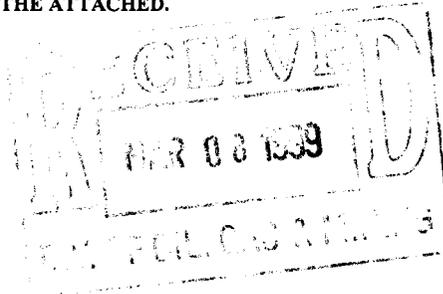
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input 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 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)

**WE INTEND TO PLUG AND ABANDON THIS WELL PER THE ATTACHED.**



14. I hereby certify that the foregoing is true and correct.  
 Signed D. C. BEAMAN *Dc Beaman* Title COMPUTER SYSTEMS OPERATOR Date 3/3/1999

(This space for Federal or State office use)

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

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**RED WASH UNIT #312  
1656' FNL & 2321' FEL  
SWNE-SEC. 34-T7S-R24E  
UINTAH COUNTY, UTAH**

API#: 43-047-32595  
LEASE NUMBER: SL-071963  
KB ELEVATION: 5626'  
GL ELEVATION: 5614'  
TD: 5203'  
PBSD: 4908'

**CASING DETAIL:**

12-1/4" HOLE SIZE  
8-5/8" 24# K-55 @ 390' W/235 SX. CLASS G

6-1/2" HOLE SIZE  
4-1/2" 10.5# K-55 @ 5203' W/220 SX. HI-FILL STANDARD LEAD, 200 SX.  
PREMIUM AG TAIL  
TOC @ 1400' BY CBL

**TUBING DETAIL:**

SEE TOUR REPORTS - TA'd.

**PERFORATION DETAIL:**

Open -	Excluded -	
4014-19'	5018-45'	LhLj

**RWU #312**  
**WELL HISTORY:**

4/95: This well was cased because of excellent neutron-density crossover in the target completion interval and a DST during drilling which showed ~1600 psi reservoir pressure. At completion, cleaned out to PBTD and perforated per detail. Broke down perforations and swabbed same essentially dry. Pumped 30000 SCF N2 and then acidized with 700 gal. 15% HCl, 700 gal. 12/3 mud acid and 436 gal. 15% HCl, all fluids nitrified to 800 SCF/BBL. Flowed back the nitrogen and the well died. Swabbed on well with a slight blow of gas and trace of oil, but recovered mostly water. After swabbing 303 bbl. over load volume, fractured well with a foamed fluid system and had 16,500# of sand in the formation before screening out. Flowed back foamed fluid, but the well died off rapidly. Cleaned well out with coiled tubing and again attempted to swab to kick off flowing, with same results as before. With 58 bbl. of fluid over load recovered, equipped well to produce via rod pump. Pumped well for ~3 months, but never did get enough gas to run the pumping unit engine. SI.

4/98: Cleaned out and set CIBP at 4925' with 17' of cement on top. Perforated 4014-19', broke down with 6 bbl 15% HCl, attempted to swab – much difficulty due to cups sticking. With no losses during flushing or circulating, recovered ~60 bbl formation water with no trace of gas. Well TA'd.

**RWU #312**

**P&A PROCEDURE:**

1. MIRU. HOT OIL IF NEEDED AND PULL EQUIPMENT. CLEAN OUT TO ~4020' WITH A BIT AND SCRAPER.
2. **TOP PERFORATION AT 4014'**. SET CIBP AT 4000' AND DUMP BAIL 35' OF CLASS G CEMENT ON TOP. DISPLACE HOLE TO ~3100' WITH 9.2 PPG BRINE.
3. **OIL SHALE INTERVAL AT 3160-3220', CEMENT TOP AT 1400'**. SET A BALANCED PLUG ACROSS THE INTERVAL 3110-3270' USING ~15 SX. CLASS G CEMENT. CIRCULATE CLEAN AND DISPLACE HOLE TO ~2200' WITH 9.2 PPG BRINE.
4. **GREEN RIVER FORMATION TOP AT 2290'**. SET A BALANCED PLUG ACROSS THE INTERVAL 2240-2340' USING ~10 SX. CLASS G CEMENT. DISPLACE WELLBORE TO SURFACE WITH 9.2 PPG BRINE.
5. **SURFACE CASING SHOE AT 390'**. PERFORATE AT 400' AND CIRCULATE ~120 SX. CLASS G CEMENT INTO PLACE.
6. CUT OFF WELLHEAD AND INSTALL LOCATION MARKER OR SUBSURFACE PLACE PER DIRECTION OF REGULATORY AUTHORITY.
7. RDMO. TURN OVER TO OPERATIONS FOR LOCATION REHABILITATION.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.  
**SL-071963**

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

7. If Unit or CA, Agreement Designation  
**RED WASH UNIT**

8. Well Name and No.  
**RED WASH UNIT 312**

9. API Well No.  
**43-047-32595**

10. Field and Pool, or Exploratory Area  
**RED WASH - GREEN RIVER**

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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Use "APPLICATION FOR PERMIT--" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
Oil  Gas   
Well  Well  Other

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

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)  
**1656' FNL & 2321' FEL (SW NE) SECTION 34, T7S, R24E, SLBM**

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

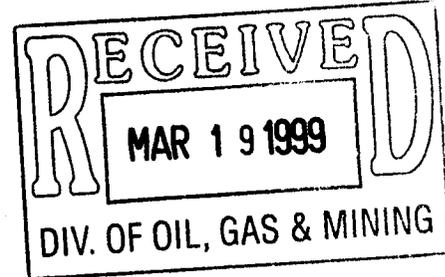
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>CLEAR SURFACE</u>
	<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)

After PA of well.

We request permission to abandon and reclaim all surface facilities and equipment including pits and surface pipelines. We also request permission to bury all cement pumping unit pads and well cellars. After cleanup, locations and right of ways will be seeded per BLM specifications.



14. I hereby certify that the foregoing is true and correct.  
Signed D. C. BEAMAN *DC Beaman* Title COMPUTER SYSTEMS OPERATOR Date 3/18/1999

(This space for Federal or State office use)

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

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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 <input type="checkbox"/> Well      Gas <input checked="" type="checkbox"/> Well      Other <input type="checkbox"/>	
2. Name of Operator <b>CHEVRON U.S.A. PRODUCTION COMPANY</b>	
3. Address and Telephone No <b>11002 E. 17500 S. VERNAL, UT 84078-8526</b> (801) 781-4306	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>1656' FNL &amp; 2321' FEL (SW NE) SECTION 34, T7S, R24E, SLBM</b>	

5. Lease Designation and Serial No. <b>SL-071963</b>
6. If Indian, Allottee or Tribe Name <b>N/A</b>
7. If Unit or CA, Agreement Designation <b>RED WASH UNIT</b>
8. Well Name and No. <b>RED WASH UNIT 312</b>
9. API Well No. <b>43-047-32595</b>
10. Field and Pool, or Exploratory Area <b>RED WASH - GREEN RIVER</b>
11. County or Parish, State <b>UINTAH, UTAH</b>

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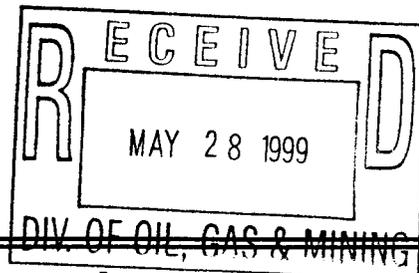
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13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true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

**THIS WELL WAS PLUGGED AND ABANDONED 05/20/99 AS FOLLOWS:**

1. SET CICR @3985' SPOT 10 SX CEMENT ON CICR
2. SPOT A BALANCED PLUG FROM 3270' TO 3110' W 12.5 SX CEMENT
3. SPOT A BALANCED PLUG FROM 2409' TO 2190' WITH 175 SX OF CEMENT
4. PERFORATE 4 SPF @ 400'. MIX AND PUMP 162 SX G WITH 2% CaI2 DOWN 4 1/2" X 8 5/8" TO SURFACE HOLE STANDING FULL OF CEMENT
5. CUT OFF W.H. INSTALL DRY HOLE PLATE

**We intend to reclaim the location and access road. All surface facilities and equipment have been removed.**



14. I hereby certify that the foregoing is true and correct.  
Signed D. C. BEAMAN *DC Beaman* Title COMPUTER SYSTEMS OPERATOR Date 5/25/1999

(This space for Federal or State office use)

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

Conditions of approval, if any \_\_\_\_\_

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DEPARTMENT OF THE INTERIOR  
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SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT--" for such proposals

**SUBMIT IN TRIPLICATE**

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

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  
RED WASH UNIT  
I-SEC NO 761

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area  
RED WASH - 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 type="checkbox"/> Change of Plans
<input checked="" 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 checked="" type="checkbox"/> Other CHANGE OF OPERATOR	<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 Red Wash Unit.  
The Unit Number is I-SEC NO 761 effective October 31, 1950.

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 29th 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 12/29/99

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

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# 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: Red Wash 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 Red Wash 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 Red Wash Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the Red Wash 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)

██  
Minerals Adjudication Group U-932  
File - Red Wash Unit (w/enclosure)  
MMS - Data Management Division  
Agr. Sec. Chron  
Fluid Chron

UT931:TAThompson:tt:2/4/00

Well Status Report  
Utah State Office  
Bureau of Land Management

Lease	Api Number	Well Name	QTR	Section	Township	Range	Well Status	Operator
UTU0559	4304731581	293 (22-22A) RED WAS	SE	22	T 7S	R22E	OSI	CHEVRON U S A INCORPORATED
UTU02148	4304731582	294 (24-18C) RED WAS	SE	18	T 7S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU081	4304731577	295 (11-22B) RED WAS	WN	22	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU0566	4304731578	296 (12-35B) RED WAS	SN	35	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU081	4304731579	297 (24-15B) RED WAS	SE	15	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0566	4304731679	298 (22-27B) RED WAS	SE	27	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU0116	4304733018	299	SW	18	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU082	4304715136	3 (34-23B) RED WASH	SW	23	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU081	4304715157	30 (23-13B) RED WASH	NE	13	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU081	4304731682	301 (43-15B) RED WAS	NE	15	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU082	4304731683	302 (22-24B) RED WAS	SE	24	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU0116	4304731819	303 (34-17B) RED WAS	SW	17	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0830	4304732538	305	NE	4	T 8S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU093	4304732629	306	NE	23	T 7S	R24E	POW	CHEVRON U S A INCORPORATED
<del>STATE</del>	<del>4304732632</del>	<del>307</del>	<del>SW</del>	<del>16</del>	<del>T 7S</del>	<del>R24E</del>	<del>ABD</del>	<del>CHEVRON U S A INCORPORATED</del>
<del>UTSL071965</del>	<del>4304732627</del>	<del>308</del>	<del>SE</del>	<del>28</del>	<del>T 7S</del>	<del>R24E</del>	<del>P+A</del>	<del>CHEVRON U S A INCORPORATED</del>
UTU081	4304715158	31 (34-22B) RED WASH	SW	22	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
<del>UTSL071965</del>	<del>4304732628</del>	<del>311</del>	<del>NE</del>	<del>26</del>	<del>T 7S</del>	<del>R24E</del>	<del>P+A</del>	<del>CHEVRON U S A INCORPORATED</del>
<del>UTSL071963</del>	<del>4304732595</del>	<del>312</del>	<del>SW</del>	<del>34</del>	<del>T 7S</del>	<del>R24E</del>	<del>ABD</del>	<del>CHEVRON U S A INCORPORATED</del>
<del>UTU02149</del>	<del>4304732630</del>	<del>313</del>	<del>NE</del>	<del>20</del>	<del>T 7S</del>	<del>R24E</del>	<del>ABD</del>	<del>CHEVRON U S A INCORPORATED</del>
<del>UTSL071965</del>	<del>4304732626</del>	<del>314</del>	<del>SE</del>	<del>29</del>	<del>T 7S</del>	<del>R24E</del>	<del>ABD</del>	<del>CHEVRON U S A INCORPORATED</del>
UTU081	4304715160	33 (14-14B) RED WASH	SW	14	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU081	4304715161	34 (23-14B) RED WASH	NE	14	T 7S	R23E	WIW	CHEVRON U S A INCORPORATED
UTU081	4304715162	35 (43-13B) RED WASH	NE	13	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU081	4304715163	36 (32-13B) RED WASH	SW	13	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
<del>UTU0823</del>	<del>4304715164</del>	<del>37 (41-25B) RED WASH</del>	<del>NE</del>	<del>25</del>	<del>T 7S</del>	<del>R23E</del>	<del>ABD</del>	<del>CHEVRON U S A INCORPORATED</del>
UTU082	4304715165	38 (14-23B) RED WASH	SW	23	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0561	4304715166	39 (14-24A) RED WASH	SW	24	T 7S	R22E	TA	CHEVRON U S A INCORPORATED
UTU081	4304715137	4 (41-22B) RED WASH	NE	22	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU082	4304715167	40 (21-24B) RED WASH	NE	24	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU081	4304715168	41 (34-13B) RED WASH	SW	13	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTSL071965	4304715169	42 (21-29C) RED WASH	NE	29	T 7S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU0116	4304715170	43 (12-17B) RED WASH	SN	17	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0829	4304715171	44 (32-33C) RED WASH	SW	33	T 7S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU02030	4304715172	45 (23-30B) RED WASH	NE	30	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU080	4304715173	46 (41-21C) RED WASH	NE	21	T 7S	R24E	PGW	CHEVRON U S A INCORPORATED
UTU02030	4304715174	48 (32-19B) RED WASH	SW	19	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU02025	4304715175	49 (12-29B) RED WASH	SN	29	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU082	4304715138	5 (41-23B) RED WASH	NE	23	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0559	4304715176	50 (14-23A) RED WASH	SW	23	T 7S	R22E	POW	CHEVRON U S A INCORPORATED
STATE	4304715177	51 (12-16B) RED WASH	SN	16	T 7S	R23E	POW	CHEVRON U S A INCORPORATED
UTU0116	4304715178	52 (14-18B) RED WASH	SW	18	T 7S	R23E	TA	CHEVRON U S A INCORPORATED
UTU0561	4304715179	53 (41-25A) RED WASH	NE	25	T 7S	R22E	POW	CHEVRON U S A INCORPORATED
<del>UTU0559</del>	<del>4304715181</del>	<del>55 (41-21A) RED WASH</del>	<del>NE</del>	<del>21</del>	<del>T 7S</del>	<del>R22E</del>	<del>P+A</del>	<del>CHEVRON U S A INCORPORATED</del>
UTU02030	4304715182	56 (41-28B) RED WASH	NE	28	T 7S	R23E	WIW	CHEVRON U S A INCORPORATED
UTU02148	4304715183	57 (12-18C) RED WASH	SN	18	T 7S	R24E	POW	CHEVRON U S A INCORPORATED
UTU082	4304716477	59 (12-24B) RED WASH	SN	24	T 7S	R23E	WIW	CHEVRON U S A INCORPORATED
UTU0567	4304716482	6 (41-21B) RED WASH	NE	21	T 7S	R23E	WIW	CHEVRON U S A INCORPORATED
UTU02025	4304715184	60 (43-30B) RED WASH	NE	30	T 7S	R23E	TA	CHEVRON U S A INCORPORATED

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH		4-KAS ✓
2. CDW ✓		5- <del>CDW</del> ✓
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 N4235

**CA No.**

**Unit: RED WASH**

**WELL(S)**

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
RWU 39 (14-24A)	43-047-15166	5670	24-07S-22E	FEDERAL	OW	TA
RWU 35 (43-13B)	43-047-15162	5670	13-07S-23E	FEDERAL	OW	TA
RWU 36 (32-13B)	43-047-15163	5670	13-07S-23E	FEDERAL	GW	P
RWU 41 (34-13B)	43-047-15168	5670	13-07S-23E	FEDERAL	OW	P
RWU 33 (14-14B)	43-047-15160	5670	14-07S-23E	FEDERAL	GW	S
RWU 51 (12-16B)	43-047-15177	5670	16-07S-23E	STATE	OW	P
RWU 43 (12-17B)	43-047-15170	5670	17-07S-23E	FEDERAL	OW	P
RWU 52 (14-18B)	43-047-15178	5670	18-07S-23E	FEDERAL	OW	TA
RWU 4 (41-22B)	43-047-15137	5670	22-07S-23E	FEDERAL	OW	TA
RWU 38 (14-23B)	43-047-15165	5670	23-07S-23E	FEDERAL	OW	P
RWU 5 (41-23B)	43-047-15138	5670	23-07S-23E	FEDERAL	OW	P
RWU 50 (14-23A)	43-047-15176	5670	23-07S-22E	FEDERAL	OW	P
RWU 40 (21-24B)	43-047-15167	5670	24-07S-23E	FEDERAL	OW	TA
RWU 37 (41-25B)	43-047-15164	5670	25-07S-23E	FEDERAL	GW	PA
RWU 49 (12-29B)	43-047-15175	5670	29-07S-23E	FEDERAL	OW	TA
RWU 313	43-047-32630	5670	20-07S-24E	FEDERAL	GW	PA
RWU 46 (41-21C)	43-047-15173	5670	21-07S-24E	FEDERAL	GW	P
RWU 311	43-047-32628	5670	26-07S-24E	FEDERAL	OW	PA
RWU 314	43-047-32626	5670	29-07S-24E	FEDERAL	GW	PA
RWU 42 (21-29C)	43-047-15169	5670	29-07S-24E	FEDERAL	GW	P
RWU 44 (32-33C)	43-047-15171	5670	33-07S-24E	FEDERAL	GW	P
RWU 312	43-047-32595	5670	34-07S-24E	FEDERAL	GW	PA

**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: 08-23-2000
4. Is the new operator registered in the State of Utah: YES Business Number: 224885
5. If NO, the operator was contacted on: \_\_\_\_\_
6. **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: 02/04/2000
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 02/04/2000
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC") Proj;** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 09/25/2000
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 09/25/2000
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

**STATE BOND VERIFICATION:**

1. State well(s) covered by Bond No.: 159261960

**FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed has furnished a bond: N/A
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
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:

**FILMING:**

1. All attachments to this form have been MICROFILMED on: 03-09-01

**FILING:**

1. ORIGINALS/COPIES of all attachments pertaining to each individual well have been filled in each well file on: \_\_\_\_\_

**COMMENTS:**

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