

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG  ELECTRIC LOGS   WATER SANDS  LOCATION INSPECTED  SUB. REPORT/abd.

991027 Conf. Removed, Compl. as WDW!

DATE FILED APRIL 15, 1999

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. UTU-65300 INDIAN

DRILLING APPROVED: JUNE 24, 1999

SPUDDED IN: 7/1/99

COMPLETED: 8-17-99 WDW PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES: 5080-5755' (NAVA)

TOTAL DEPTH: 6029'

WELL ELEVATION: 5795'

DATE ABANDONED:

FIELD: UNDESIGNATED

UNIT:

COUNTY: EMERY

WELL NO. USA D-11

API NO. 43-015-30356

LOCATION 1513 FNL FT. FROM (N) (S) LINE. 2437 FEL FT. FROM (E) (W) LINE. SW NE 1/4 - 1/4 SEC. 13

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
16S	9E	13	RIVER GAS CORPORATION				

## GEOLOGIC TOPS:

QUATERNARY	Star Point		Chinle	5967	Molas
Alluvium	Wahweap		Shinarump		Manning Canyon
Lake beds	Masuk		Moenkopi		Mississippian
Pleistocene	Colorado		Sinbad		Humbug
Lake beds	Sego		PERMIAN		Brazer
TERTIARY	Buck Tongue		Kaibab		Pilot Shale
Pliocene	Castlegate		Coconino		Madison
Salt Lake	Mancos		Cutler		Leadville
Oligocene	Upper		Hoskinnini		Redwall
Norwood	Middle		DeChelly		DEVONIAN
Eocene	Lower		White Rim		Upper
Duchesne River	Emery		Organ Rock		Middle
Uinta	Blue Gate		Cedar Mesa		Lower
Bridger	Ferron		Halgaite Tongue		Ouray
Green River	Frontier	1293	Phosphoria		Elbert
	TUNUCK	1530	Park City		McCracken
	Dakota	1908	Rico (Goodridge)		Aneth
	Burro Canyon		Supai		Simonson Dolomite
	Cedar Mountain	1960	Wolfcamp		Sevy Dolomite
	Buckhorn		CARBON I FEROUS		North Point
Wasatch	JURASSIC		Pennsylvanian		SILURIAN
Stone Cabin	Morrison	2760	Oquirrh		Laketown Dolomite
Colton	Salt Wash		Weber		ORDOVICIAN
Flagstaff	San Rafael Gr.		Morgan		Eureka Quartzite
North Horn	Summerville	3272	Hermosa		Pogonip Limestone
Almy	Bluff Sandstone				CAMBRIAN
Paleocene	Curtis	3682	Pardox		Lynch
Current Creek	Entrada	3834	Ismay		Bowman
North Horn	Moab Tongue		Desert Creek		Tapeats
CRETACEOUS	Carmel	4490	Akah		Ophir
Montana	Glen Canyon Gr.		Barker Creek		Tintic
Mesaverde	Navajo	5062			PRE - CAMBRIAN
Price River	Kayenta	5459			
Blackhawk	Wingate	5601	Cane Creek		
	TRIASSIC				

# RGC

## RIVER GAS CORPORATION

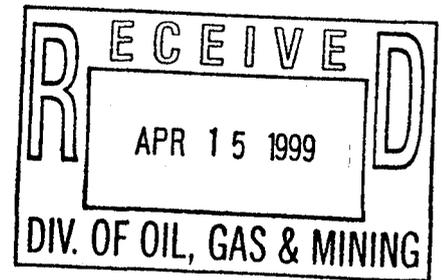
UTAH OPERATIONS  
1305 South 100 East  
Price, Utah 84501  
Bus. (435) 637-8876  
FAX (435) 637-8924

**CONFIDENTIAL**

April 12, 1999

**ORIGINAL**

Mr. John Baza  
State of Utah  
Div. of Oil, Gas and Mining  
1594 W. North Temple-Suite 1210  
P.O. Box 145801  
SLC, Utah 84114-5801



RE: Application for Permit to Drill-  
Disposal Well USA D-11, SW/4, NE/4, Sect.13  
T16S, R09E, SLB & M, Emery County, Utah

Dear Mr. Baza:

Enclosed is the original of the *Application for Permit to Drill* (APD) for the above named well. Included with the APD is the following information:

- Exhibit "A"- Survey plat of the proposed well site;
- Exhibit "B" - Proposed Location Map with Pipeline, Power, and Road Access;
- Exhibit "C" - Evidence of Bond;
- Exhibit "D" - Drilling Information;
- Exhibit "E" - Proposed Drilling Equipment Location Layout;
- Exhibit "F" - Typical Road Cross-section;
- Exhibit "G" - BOP Diagram;
- Exhibit "H" - Multipoint Surface Use Plan;

A Federal right-of-way, highway crossing and county road encroachment is currently being approved. Upon approval it will be submitted to your office.

Please accept this letter as River Gas Corporation's written request for confidential treatment of all information contained in and pertaining to this permit application, if said information is eligible for such consideration. This request is made in accordance with the State of Utah's Oil and Gas Conservation General Rules item number R649-2-11.

Thank you very much for your timely consideration of this application. Please feel free to contact me if you have any questions or require additional information.

Sincerely,

*Don S. Hamilton*

Don S. Hamilton  
Permit Specialist

cc: Mr. Gilbert Hunt, DOGM  
Mr. Bryant Anderson, Emery County  
Mr. Chuck Snure, Texaco  
Mr. Joe Coughlin, Dominion Resources  
Mr. Eric Jones, BLM, Moab  
Mrs. Tammie Butts, River Gas Corporation  
RGC Well File

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>APPLICATION FOR PERMIT TO DRILL OR DEEPEN</b>		5. Lease Designation and Serial Number: <b>UTU-65300</b>	
1A. Type of Work: <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name: <b>N/A</b>	
B. Type of Well: <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input type="checkbox"/> <b>OTHER: water disposal</b> <input type="checkbox"/> <b>SINGLE ZONE</b> <input type="checkbox"/> <b>MULTIPLE ZONE</b> <input checked="" type="checkbox"/>		7. Unit Agreement Name: <b>N/A</b>	
2. Name of Operator: <b>River Gas Corporation</b>		8. Farm or Lease Name: <b>USA</b>	
3. Address and Telephone Number: <b>1305 South 100 East, Price, UT 84501 (435)637-8876</b>		9. Well Number: <b>D-11</b>	
4. Location of Well (Footages) At Surface: <b>1513' FNL, 2437' FEL</b> At Proposed Producing Zone: <b>511922E 4364947W</b>		10. Field or Pool, or Wildcat: <b>undesignated</b>	
14. Distance in miles and direction from nearest town or post office: <b>11.7 miles southwest of Price, UT</b>		11. Qtr/Qtr, Section, Township, Range, Meridian: <b>SW/NE Section 13, T16S, R09E, SLB&amp;M</b>	
15. Distance to nearest property or lease line (feet): <b>1513'</b>		12. County: <b>Emery</b>	13. State: <b>UTAH</b>
16. Number of acres in lease: <b>1988.41 acres</b>		17. Number of acres assigned to this well: <b>n/a</b>	
18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): <b>none</b>		20. Rotary or cable tools: <b>Rotary</b>	
19. Proposed Depth: <b>6100'</b>		22. Approximate date work will start: <b>June 1999</b>	
21. Elevations (show whether DF, RT, GR, etc.): <b>5795' GR</b>			

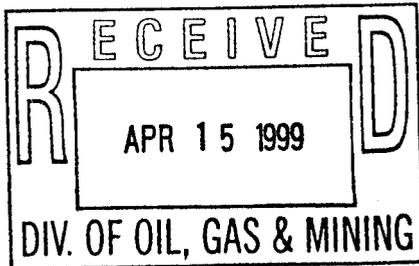
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23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	40'	see attachment "D"
17-1/2"	13-3/8"	48#/ft	320'	see attachment "D"
12-1/4"	9-5/8"	36 & 40#/ft	2500'	see attachment "D"
8-3/4"	7"	26.29 & 32#/ft	6100'	see attachment "D"

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

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24. Name & Signature: Don S. Hamilton *Don S. Hamilton* Title: Permit Specialist Date: 4/12/99

(This space for state use only)

API Number Assigned: 43-015-30356

**Federal Approval of this Action is Necessary**

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

Date: 6/24/99  
By: *[Signature]*

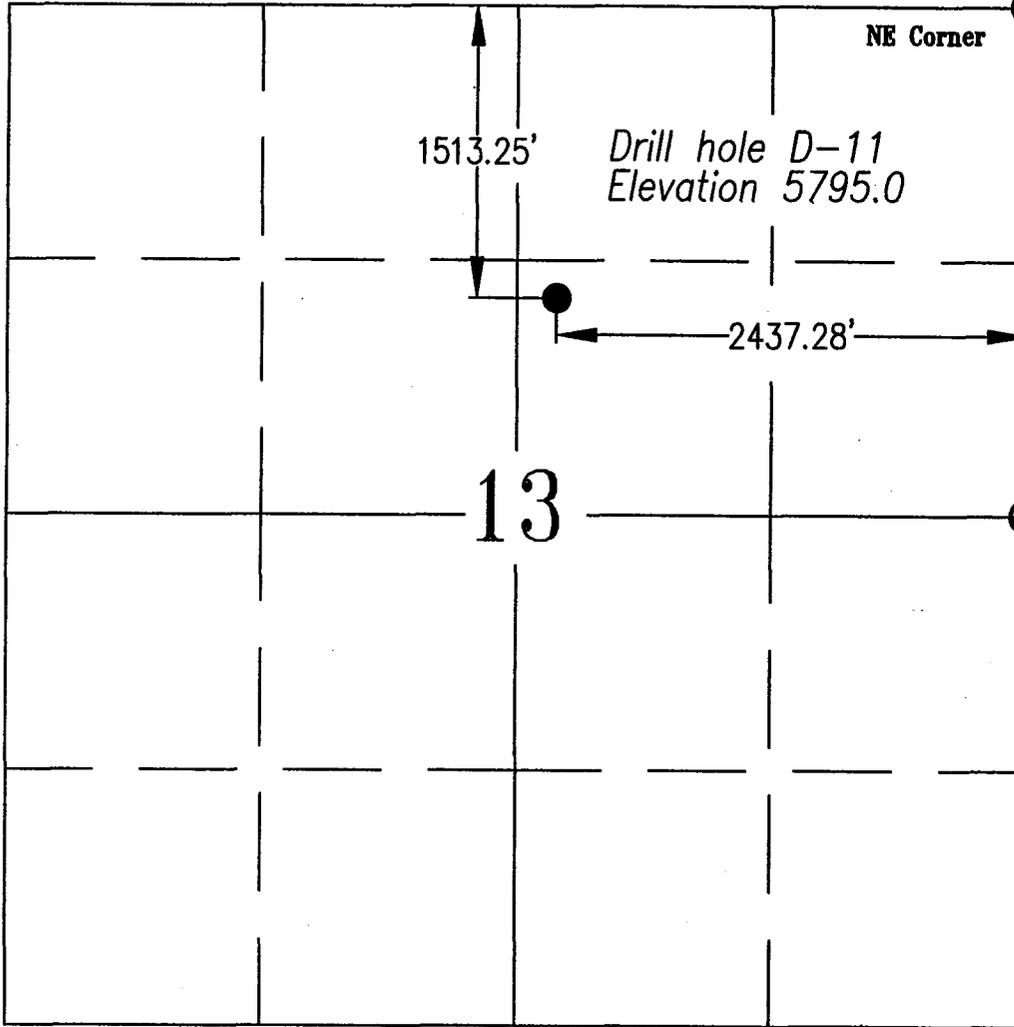
Township 16 South

# Range 9 East

S89°22'W - 5136.1' (Recorded)

N00°33'W - 2687.5' (Recorded)

N00°51'E - 2610.3' (Recorded)



N00°26'W - 2653.9' (Recorded)

N00°23'W - 2655.8' (Recorded)

N89°06'W - 2729.1' (Recorded)

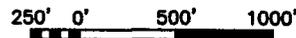
S88°01'W - 2469.1' (Recorded)

### LEGEND:

- Drill Hole Location
- ⊕ Found Section Corner Monumented w/ Brass Cap unless indicated otherwise.
- Section Corner searched for but not found



SCALE:



### Location

The Bearings Indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4400 GPS Unit.

### Basis Of Elevation:

Basis of Elevation of 5837' as indicated in the NE Corner of Section 13, Township 16 South, Range 9 East, Salt Lake Base and Meridian, as shown on the Elmo Quadrangle 7.5 Minute Series Map.

### Description of Well Point

Proposed Drill Hole located in the SW 1/4 NE 1/4 of Section 13; 1513.25' South and 2437.28' West from the NE Corner of Section 13, T16S, R9E, Salt Lake Base & Meridian.

### Surveyor's Certificate:

I, John S. Huefner, a Registered Licensed Land Surveyor, holding Certificate #144842, State of Utah, do hereby certify that the information on this drawing is a true and accurate survey of the land, and was conducted under my personal supervision, as shown hereon.



DRAWN BY:	P. BOYLEN
CHECKED BY:	J.S.H.
DATE:	3/22/99
SCALE:	1"=1000'
JOB NO.:	466
DRAWING NO.:	A-1
SHEET:	1 of 4

3266 South 125 West  
 Price, Utah 84501  
 (801) 637-8300  
 FAX (801) 637-2633

**Sources**

**River Gas Corporation**  
 Well# D-11  
 Section 13, T16S, R9E, S.L.B.&M.  
 Emery County, Utah

EXHIBIT "D"  
DRILLING INFORMATION

Attached to Form 3  
River Gas Corp.  
USA D-11  
SW/4, NE/4, Sec.13, T16S, R9E, SLB & M  
1513' FNL, 2437' FEL  
Emery County, Utah

**(R615-3-4 Permitting of Wells to be Drilled, Deepened or Plugged Back**

2.1 Telephone numbers for additional information:

Don S. Hamilton	(435) 637-8876 Office
Permit Specialist	(435) 636-5671 Mobile

Jerry Dietz	(435) 637-8876 Office
Production Superintendent	(435) 636-5114 Mobile

Lenny Grimsley	(435) 637-8876 Office
Construction Specialist	(435) 636-5259 Mobile

Mitch Mitchell	(435) 637-8876 Office
Stimulation Specialist	(435) 636-5258 Mobile

2.2 Lease: Federal UTU-65300

2.3 This disposal well will be drilled approximately 11.7 miles southwest of Price, Utah.

2.4 Survey Plat: See Exhibit " A"

2.5 Water will be purchased from Price River Water Improvement District, PRWID (a local municipal water source).

## 2.6 Drilling Program

2.6.1 Following is a tabulation of the geologic units and the respective depths where they are expected to be penetrated in the well.

<u>Formation/Unit</u>	<u>Estimated Depth (top)</u>
Upper Mancos Shale	Surface
Ferron Sandstone	1230'
Tununk Shale	1495'
Dakota	1871'
Cedar Mtn	1929'
Morrison	2695'
Summerville	3183'
Curtis	3585'
Entrada	3742'
Carmel	4461'
Navajo	5161'
Kayenta	5501'
Wingate	5655'
Chinle	5995'

2.6.2 This well will be utilized strictly for the injection of produced waters from RGC's coalbed methane wells. Zones that have shown to be gas and water-bearing are the coals and sandstones of the Ferron Formation. The Navajo Sandstone is expected to be water-bearing, and potentially containing CO<sub>2</sub>.

2.6.3 A rotating head with a diverter system will be used to drill the surface hole. For the remainder of the drilling (surface shoe to TD), a double gate 5000 psi BOPE will be used with a rotating head. This equipment will be tested to 70% of the minimum interval yield pressure. All tests will be recorded in a Driller's Report Book. Physical operation of the BOPE's will be checked on each trip. See Attachment "G" for the schematic of the BOPE.

### 2.6.4 Casing Program-

**Conductor-** 20" Structural, set @ ± 40', 26" hole

Cement ready mix ± 8 cu.yds.

$$(8 \text{ cu. yds}) \left( 27 \frac{\text{ft}^3}{\text{cu. yd}} \right) \left( 1.15 \frac{\text{ft}^3}{\text{sk}} \right) \approx 1885 \text{ sks.}$$

**Surface-** 13 3/8" H-40, 48#/ft, ST&C, set @ ± 320', 17 1/2" hole.

Cement: 310 sks G+2% S-1+1/4 #/sk D-29

Yield: 1.15 cu. ft/sk.

Wt.-15.8#/gal

Total cu. ft = 356.5 cu. ft.

Excess 60% -- cement to surface

**Intermediate-9** 5/8" K-55, 36 & 40 #/ft, LT&C , set @ ± 2500', 12 1/4" hole.

Cement: 460 sks 50/50 Poz +6% D-20 1/4#/sk D-29

Yield: 1.71

Wt: 12.4#/gal

Total cu. ft. 786.6 cu. ft.

200 sks G+2% S-1 1/4 #/sk D-29

Yield: 1.15

Wt: 15.8#/gal

Total cu.ft 230 cu.ft.

Excess 30% -- cement to surface

**Production- 7"** L-80 or J-55, 26#/ft, 29#/ft, and 32#/ft, set @ ± 6100', 8 3/4" hole.

Possible 2 stage cement job – cement stage tool @ ± 3100'.

First stage: 6100' - 3100 = 3000'

3000' X .1503 cu.ft/ft = 450.90 cu.ft

75 sks 50/50 Poz + 8% D-20 + 1/4#/sk + 10% D-29

Yield: 1.91 cu ft/sk

Wt: 12.2 #/gal

Total cu. ft = 143.25 cu. ft.

150 sks G + 1% D-65 + .5% B-14

Yield: 1.15 cu.ft/sk

Wt: 15.8 #/gal

Total cu.ft =172.5

125 sks 10-1 RFC

Yield: 1.61 cu. ft/sk

Wt: 14.2 #/gal

Total cu. ft.= 201.25

Excess 15% -- cement to surface

517 ft<sup>3</sup>

$$\begin{aligned} & 75(1.91) + 150(1.15) + 125(1.61) \\ & \hline & 350 \text{ sk} \\ & \bar{x} = 1.48 \text{ ft}^3/\text{sk} \end{aligned}$$

Second Stage: 3100' X .1503 cu.ft/ft = 465.93 cu.ft

155 sks 50/50 Poz + 8% D-20  
Yield: 1.91 cu.ft/sk.  
Wt: 12.2 #/gal  
Total cu. ft. = 296.05 cu.ft

$$\frac{155(1.91) + 250(1.15)}{405} = 1.44 \frac{\text{ft}^3}{\text{sk}}$$

5 84 ft<sup>3</sup>  
250 sks G + 1% D-65  
Yield: 1.15 cu. ft/sk  
Wt: 15.8 #/gal  
Total cu. ft. = 287.5 cu.ft  
Excess 25% -- cement to surface

**This is a recommended cement program based on ideal hole conditions. Actual hole conditions will dictate the correct cement blend and volumes to run.**

#### 2.6.5 Mud Program:

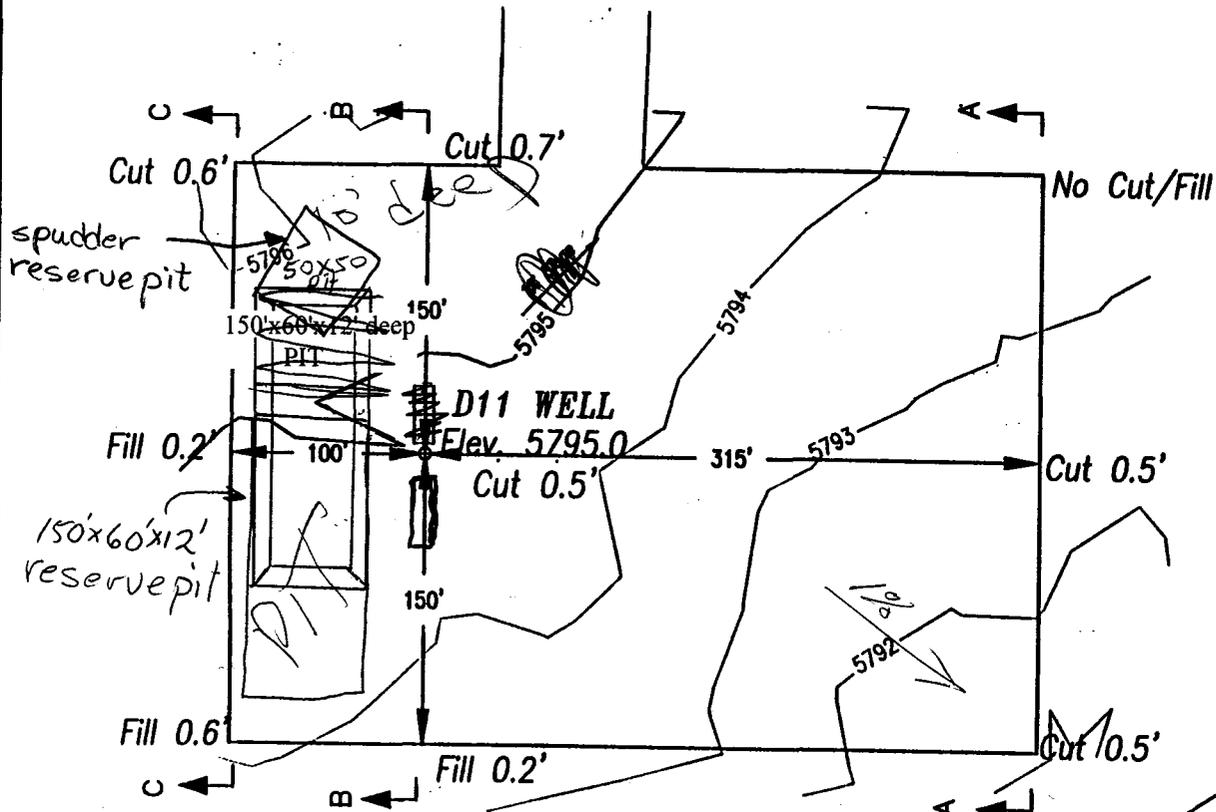
<u>Depth</u>	<u>Hole Size</u>	<u>Program</u>
0 - 320'	17 1/2" hole	
320' - 2500'	12 1/4" hole	Drill with air. 400 psi @ 1500-1800 cfs.
2500' - 6100'	8-3/4" hole	Drill with air 400 psi @ 1500-1800 cfs.

If necessary to mud-up, a fresh water Bentonite type system will be used.

#### 2.6.6 Logging and Testing Program:

<u>Depth</u>	
0-300'	Gamma Ray
300-TD	GR,DIL, LDT, CNL, DSI SONIC

2.6.7 We expect a bottom hole pressure of 3000 psi. No hazards are expected.



*Need 2 pits on  
disposal locations  
(both lined)*

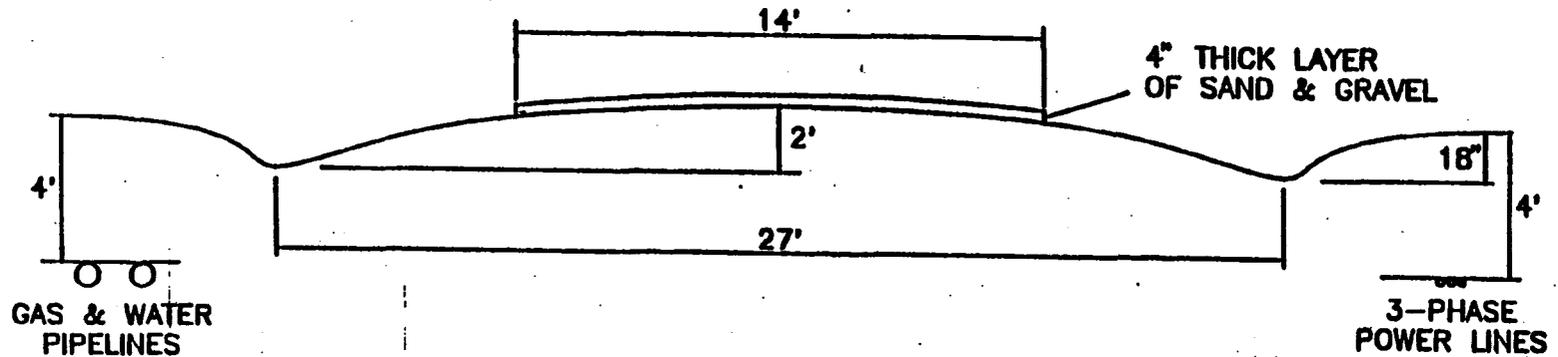
Elevation Ungraded Ground at Location Stake = 5795.0'  
Elevation Graded Ground at Location Stake = 5794.5'



DRAWN BY <b>P. BOYLEN</b> CHECKED BY <b>J.S.H.</b> DATE <b>3/23/99</b> SCALE <b>1"=100'</b> JOB NO. <b>486</b> DRAWING NO. <b>A-2</b> SHEET <b>2</b> OF <b>4</b>	 3200 South 125 West P.O. Box 24581 Provo, Utah 84601 (801) 637-6300 FAX (801) 637-2833 SERVICE <b>River Gas Corporation</b> Location Layout Section 13, T16S, R9E, S.L.B&M. Well# D-11
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Exhibit "E"

# RIVER GAS CORPORATION



## TYPICAL ROAD CROSS-SECTION

NOT TO SCALE

Exhibit "F"

# DIVERTER HEAD

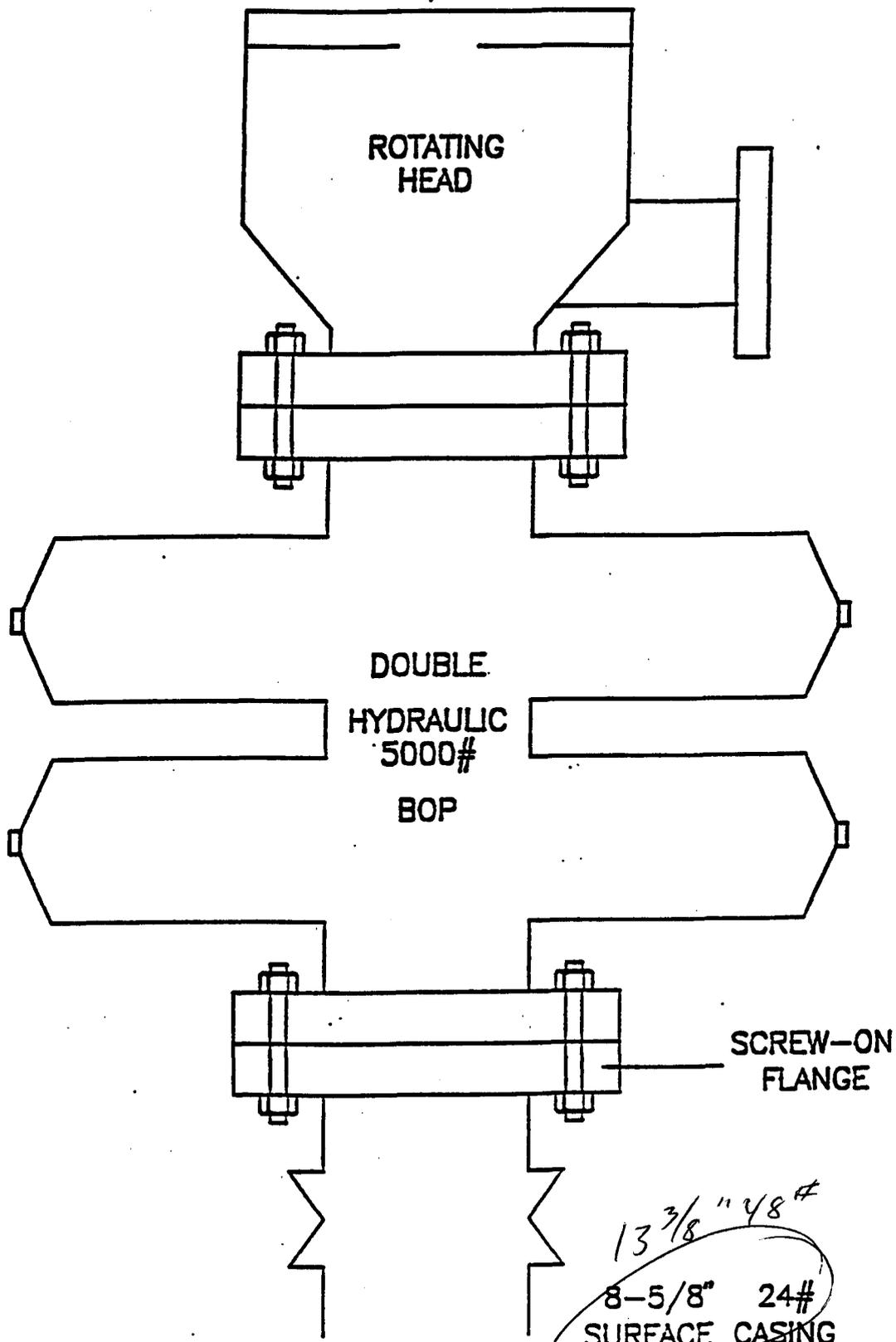


EXHIBIT "H"  
MULTIPOINT SURFACE USE PLAN

Attached to Form 3  
River Gas Corp.  
USA D-11  
SW/4, NE/4, Sec.13, T16S, R9E, SLB & M  
1513' FNL, 2437' FEL  
Emery County, Utah

**1. Existing Roads**

- a. We plan to improve the existing Emery County road approach – application submitted.
- b. We plan to bore State Highway 10 with pipe and power – application submitted.
- c. Existing roads will be maintained in the same or better condition. See Exhibit "B".
- d. The existing canal maintenance access will be improved by crowning and graveling.

**2. Planned Access**

- a. Maximum Width: 14' travel surface with 27' base
- b. Maximum grade: 10%
- c. Turnouts: None
- d. Drainage design: 6 culverts may be required. Water will be diverted around the access road as necessary.
- e. If the well is productive, the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.
- f. Approximately 2000' of new access is required (See Exhibit "B").
- g. State Highway 10 will not be crossed with access, however, a maintenance corridor will be constructed on both sides of the highway to maintain the pipelines and powerlines in good condition from the canal access route north to our existing infrastructure. This maintenance corridor will not access State Highway 10

**3. Location of Existing Wells**

- a. See Exhibit "B". There is one proposed and no existing wells within a one mile radius of the proposed location.
- b. Future production wells are planned for this area in the year 2001

#### **4. Location of Existing and/or Proposed Facilities**

- a. If the well is a producer, installation of production facilities will be as shown on Exhibit "H". Buried powerlines will run along the access on the east and north, gathering lines on the south or west.
- b. Rehabilitation of all pad areas not used for production facilities will be made in accordance with landowner stipulations.

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

- a. Water to be used for drilling will be purchased from the Price River Water Improvement District (a local source of municipal water) (tel. 435-637-6350).
- b. Water will be transported by truck over approved access roads.
- c. No water well is to be drilled for this location.

#### **6. Source of Construction Materials**

- a. Any necessary construction materials needed will be obtained locally and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal/Indian land.

#### **7. Methods for handling waste disposal**

- a. A large (100' X 150' X 12' deep) reserve pit will be constructed with a minimum of one-half the total depth below the original ground surface on the lowest point within the pit. The pit will be lined due to its proximity to nearby surface waters and has been situated to be as far from surface waters as possible. Additional precautions may be deemed necessary by the DOGM representative during the pre-site inspection. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operation cease with woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit back-filled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or location.
- c. In the event fluids are produced, any oil will be retained in tankage until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.

- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

## **8. Ancillary Facilities**

- a. We anticipate no need for ancillary facilities with the exception of several trailers to be located on the drill site.

## **9. Wellsite Layout**

- a. Available topsoil will be removed from the location and stockpiled. Location of mud tanks, reserve and berm pits, and soil stockpiles will be located as shown on the attachments.
- b. A blooie pit will be located 150' diagonally from the drill hole. A line will be placed on the surface from the center hole to the pit. The pit will be lined, and will be fenced on four sides to protect livestock/wildlife.
- c. Access to the well pad will be as shown on Exhibit "B".
- d. Natural runoff will be diverted around the well pad.

## **10. Plans for Restoration of Surface**

- a. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum.
- b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
- c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.

**11. Surface Ownership:**

- a. The wellsite will be constructed on lands owned by River Gas Corporation. The access, pipe, power and maintenance corridor will be constructed on federal lands administered by the Bureau of Land Management in which a right-of-way has been previously submitted and is awaiting final approval. The operator shall contact the landowner representatives and the Division of Oil, Gas and mining 48 hours prior to beginning construction activities.

**12. Other Information:**

- a. The primary surface use is grazing. The nearest dwelling is approximately 1,700 feet northeast
- b. Nearest live water is North Branch of the Cleveland Canal, 350' south.
- c. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed and piled downhill from the topsoil stockpile location.
- d. The backslope and foreslope will be constructed no steeper than 4:1.
- e. All equipment and vehicles will be confined to the access road and well pad.
- f. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations, shall be on the wellsite during construction and drilling operations

There will be no deviation from the proposed drilling and/or workover program without prior approval from the Division of Oil, Gas & Mining.

**13. Company Representative**

Don S. Hamilton  
Permit Specialist  
River Gas Corporation  
1305 So. 100 E.  
Price, Utah 84501  
(435) 637-8876  
(435) 636-5671

Mail Approved A.P.D. To:

Company Representative

Excavation Contractor

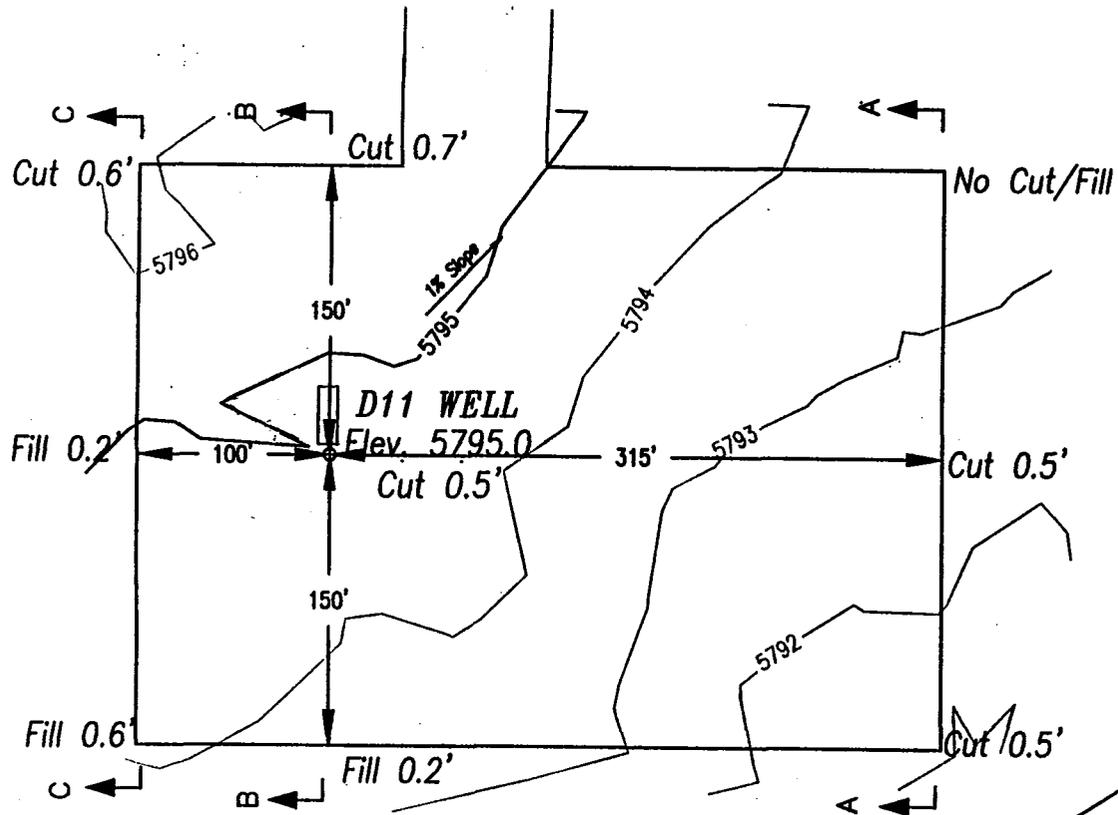
Nelco Contractors Inc.  
Larry Jensen  
(435) 637-3495  
(435) 636-5268

**14. Certification**

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 River Gas Corp. and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4-12-99  
Date

Don S. Hamilton  
Don S. Hamilton  
Permit Specialist  
River Gas Corporation



Elevation Ungraded Ground at Location Stake = 5795.0'  
 Elevation Graded Ground at Location Stake = 5794.5'



DRAWN BY: <b>P. BOYLEN</b>
CHECKED BY: <b>J.S.H.</b>
DATE: <b>3/23/99</b>
SCALE: <b>1"=100'</b>
JOB NO. <b>466</b>
DRAWING NO. <b>A-2</b>
SHEET <b>2</b> OF <b>4</b>

**Castle Valley**

3200 South 125 West  
 Panguitch, Utah 84501  
 (801) 637-9300  
 FAX (801) 637-2833

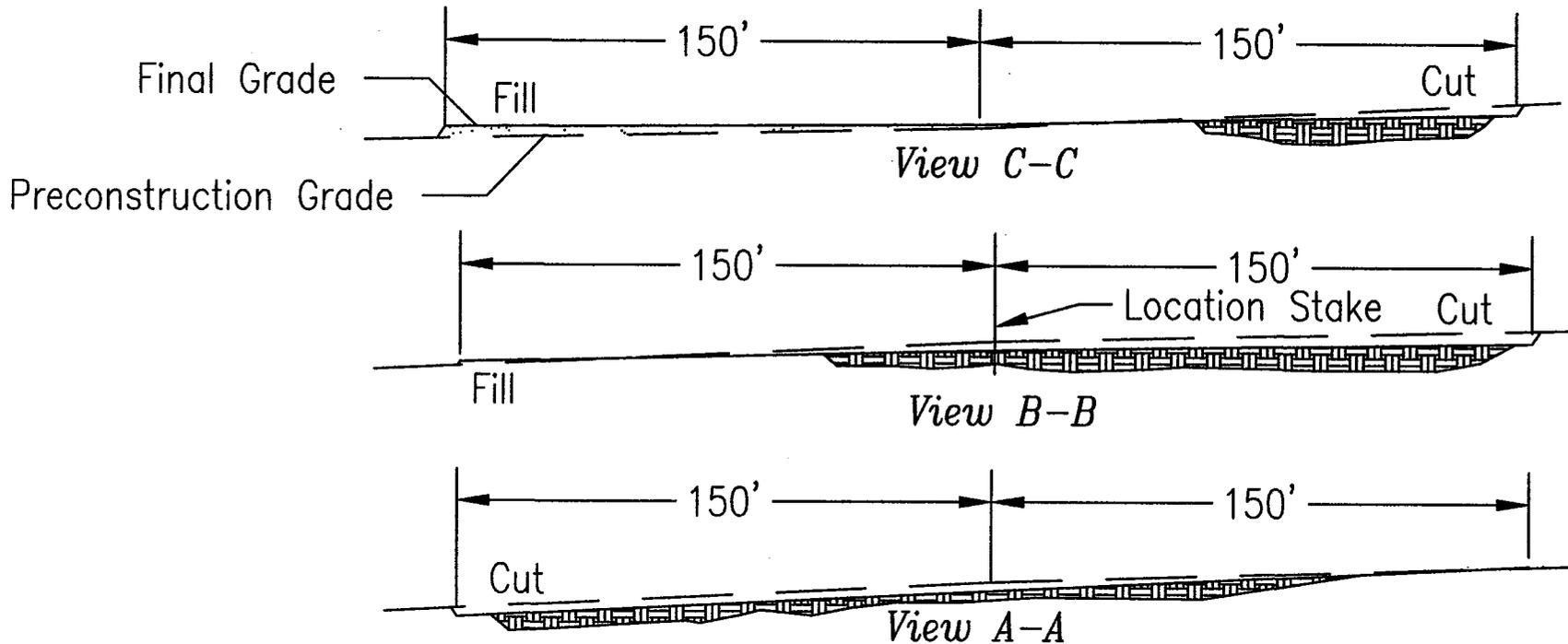
**Services**

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**River Gas Corporation**  
 Location Layout  
 Section 13, T16S, R9E, S.L.B&M.  
 Well# D-11

1"=10'  
 X-Section  
 Scale  
 1"=50'

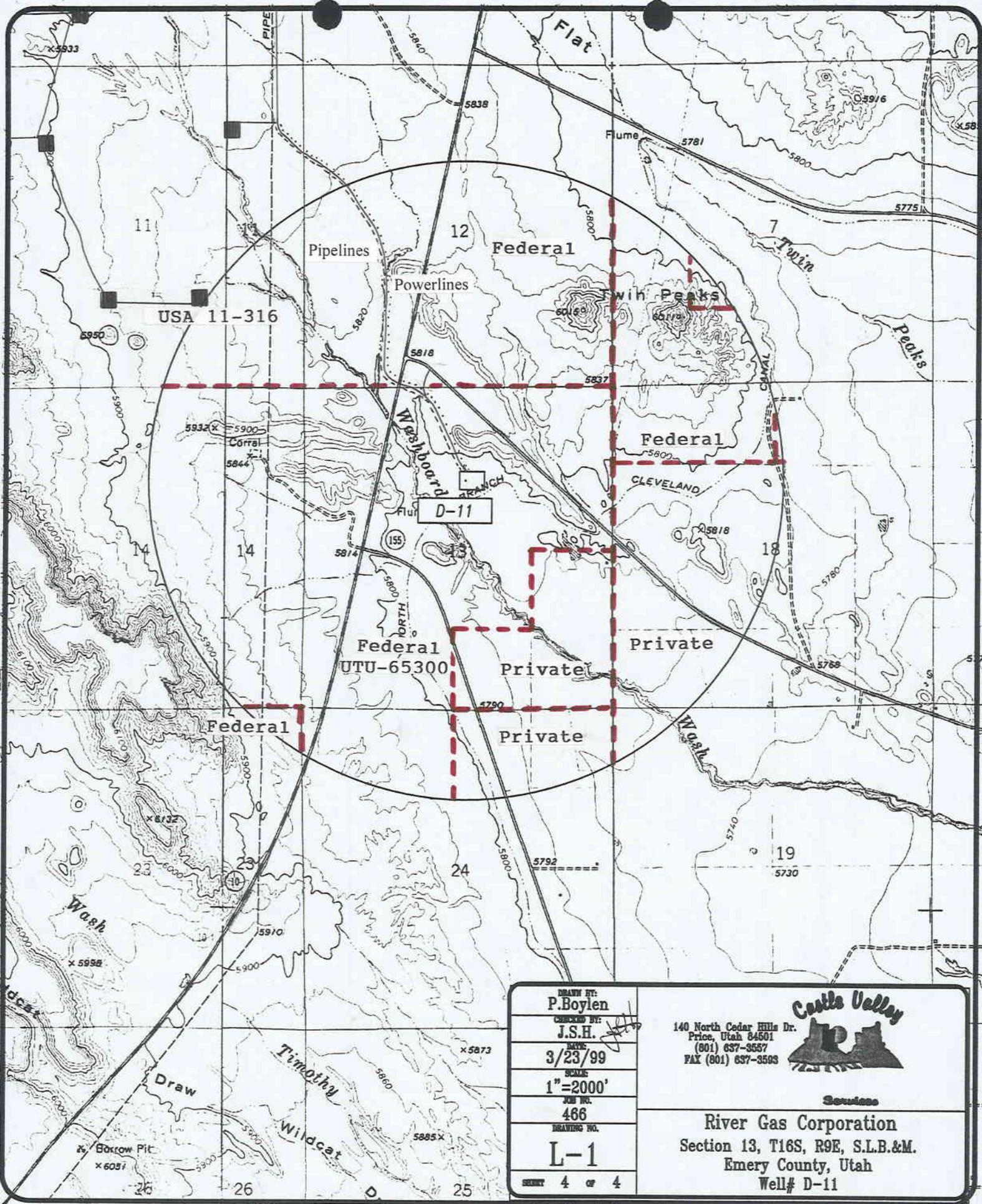
Slope = 1 1/2 : 1  
 (Except Pit)  
 Pit Slope = 1 : 1



APPROXIMATE YARDAGES

<b>CUT</b>	
(6") Topsoil Stripping	= 2,306.0 Cu. Yds.
Remaining Location	= 1,175.6 Cu. Yds.
<hr/>	
<b>TOTAL CUT</b>	= 3,481.6 Cu. Yds.
<b>TOTAL FILL</b>	= 372.6 Cu. Yds.

DRAWN BY: <b>P. BOYLEN</b> CHECKED BY: <b>J.S.H.</b> DATE: <b>3/23/99</b> SCALE: <b>As Shown</b> JOB NO. <b>466</b> DRAWING NO. <b>C-1</b>	 3266 South 125 West Price, Utah 84501 (801) 637-9300 FAX (801) 637-2833 Sewless <b>River Gas Corporation</b> Typical Cross Sections Section 13, T16S, R9E, S.L.B&M. Well# D-11
SHEET 3 of 4	

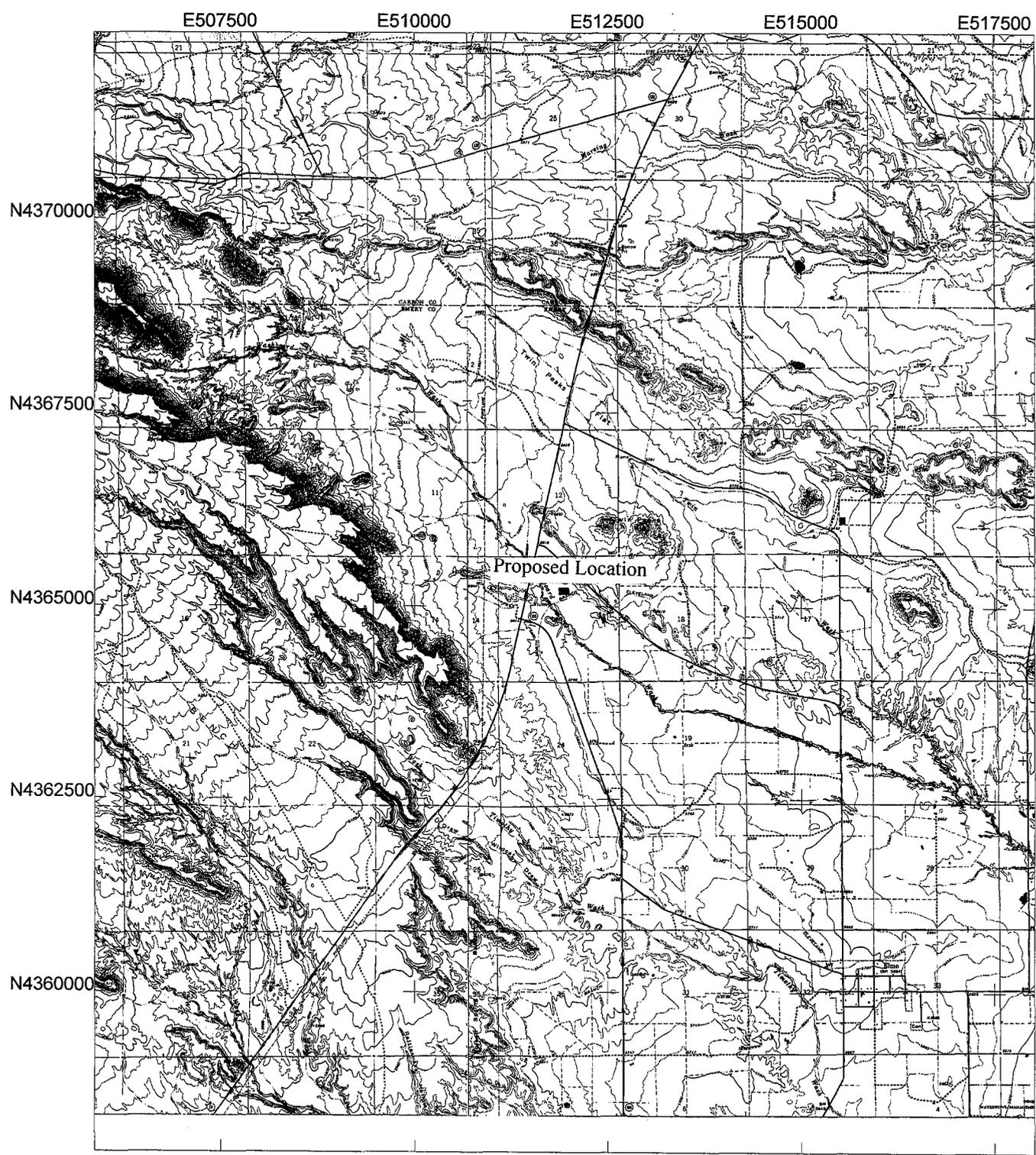


DRAWN BY:  
**P.Boylan**  
 CHECKED BY:  
**J.S.H.**  
 DATE:  
**3/23/99**  
 SCALE:  
**1"=2000'**  
 JOB NO.  
**466**  
 DRAWING NO.  
**L-1**  
 SHEET **4** OF **4**

**Castle Valley**  
 140 North Cedar Hills Dr.  
 Price, Utah 84501  
 (801) 637-3557  
 FAX (801) 637-3593

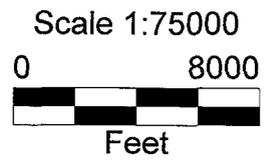


**Sevices**  
**River Gas Corporation**  
 Section 13, T16S, R9E, S.L.B.&M.  
 Emery County, Utah  
 Well# D-11



# Disposal Well D-11

Universal Transverse Mercator  
North 12  
NAD83 (Conus)



3/31/1999  
Pathfinder Office™  
 Trimble

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/15/1999

API NO. ASSIGNED: 43-015-30356

WELL NAME: D-11  
 OPERATOR: RIVER GAS CORPORATION (N1605)  
 CONTACT: Don Hamilton (435) 637-8876

PROPOSED LOCATION:  
 SWNE 13 - T16S - R09E  
 SURFACE: 1513-FNL-2437-FEL  
 BOTTOM: 1513-FNL-2437-FEL  
 EMERY COUNTY  
 UNDESIGNATED FIELD (002)

INSPECT LOCATN BY: / /		
TECH REVIEW	Initials	Date
Engineering	RSC	6/2/99
Geology		
Surface		

LEASE TYPE: FED  
 LEASE NUMBER: UTU-65300  
 SURFACE OWNER: Fee (River Gas)

PROPOSED FORMATION: NAVA

RECEIVED AND/OR REVIEWED:

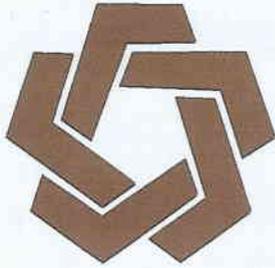
Plat  
 Bond: Fed  Ind[] Sta[] Fee[]  
 (No. UT0829)  
 Potash (Y/N)  
 Oil Shale (Y/N) \*190-5(B)  
 Water Permit  
 (No. PRWD / City of Price)  
 RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)  
 \*River Gas  
 Fee Surf Agreement (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit \_\_\_\_\_  
 \_\_\_ R649-3-2. General  
 R649-3-3. Exception  
 \_\_\_ Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 \_\_\_ R649-3-11. Directionl Drilling

COMMENTS: Need Presite. (Presite conducted 5-20-99)  
Need add'l info. "Except. Loc." (Rec'd 6-23-99)

STIPULATIONS: ① FEDERAL APPROVAL  
② STATEMENT OF BASIS



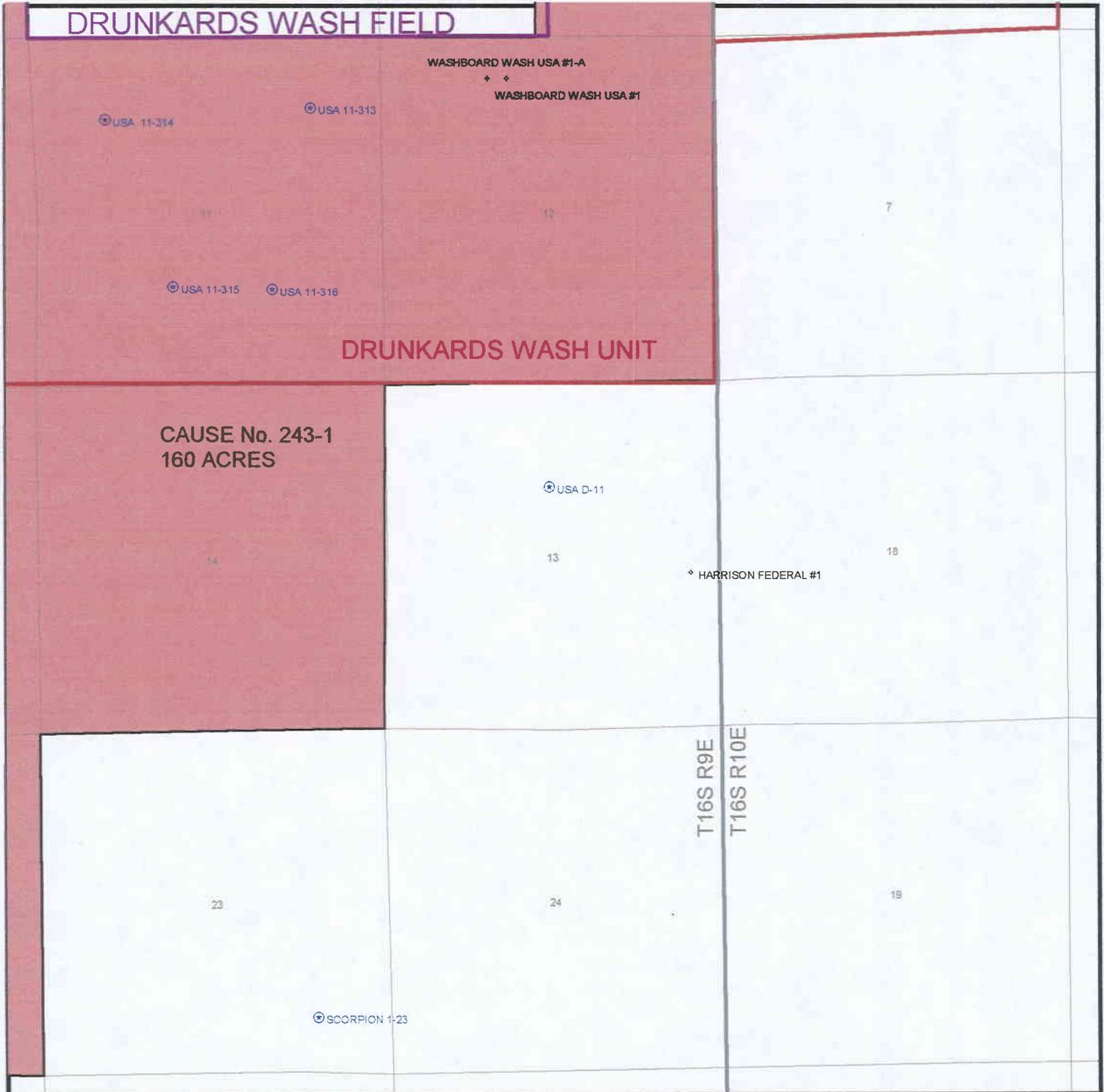
Division of Oil, Gas & Mining

OPERATOR: RIVER GAS CORPORATION (N1605)

FIELD: UNDESIGNATED (002)

SEC. 13, TWP 16 S, RNG 9 E

COUNTY: EMERY CAUSE No. 243-1 160 ACRES



PREPARED  
DATE: 21-APR-1999

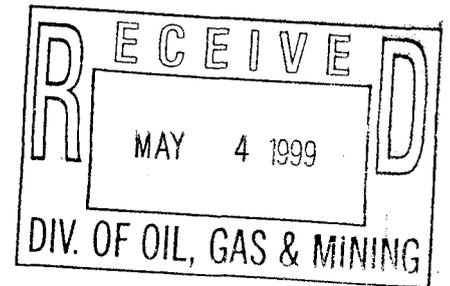


RIVER GAS CORPORATION

UTAH OPERATIONS  
1305 South 100 East  
Price, Utah 84501  
Bus. (435) 637-8876  
FAX (435) 637-8924

April 29, 1999

Mr. John Baza  
Associate Director  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801



RE: Exception location – USA D-11, Section 13, T16S, R9E, SLB&M  
Emery County, Utah

Dear Mr. Baza:

Please accept this letter as River Gas Corporation's (RGC's) request that this proposed well be approved as an exception location in accordance with Utah Administrative Code § R649-3-3 for topographical reasons. This proposed well site does not conform with the general state spacing rules that affects the subject NE/4.

RGC's contractor, GeoScout Land and Title Company, will send your office an affidavit describing the owners within a 460 foot radius of the well. Thank you for your timely consideration of this request, please feel free to contact me if you have any questions or need additional information.

Sincerely yours,

*Don S. Hamilton*

Don S. Hamilton  
Permitting Specialist

cc: Tammie Butts, RGC  
Sally Sullivan, Geoscout Land and Title Company  
Randy Allen, RGC  
Joey Stephenson, RGC  
RGC well file

ORIGINAL

CONFIDENTIAL

# RGC

# COPY

## RIVER GAS CORPORATION

UTAH OPERATIONS  
1305 South 100 East  
Price, Utah 84501  
Bus. (435) 637-8876  
FAX (435) 637-8924

# CONFIDENTIAL

May 6, 1999

Mr. Bryant Anderson  
Planning and Zoning Administrator  
Emery County Courthouse  
75 East Main  
Castle Dale, Utah 84513

RE: Emery County Gas/Oil Notice of Development Plan for the Proposed USA D-11 (Emery County, Utah)

Dear Mr. Anderson:

Please find attached the *Emery County Gas/Oil Notice of Development Plan* for the above referenced well which we will conduct a future onsite. Also included is the submitted *Application for Permit to Drill* and a check in the amount of \$300.00 per well for a total of \$300.00.

Please accept this letter as River Gas Corporation's written request for confidential treatment of all information contained in and pertaining to this application, if said information is eligible for such consideration.

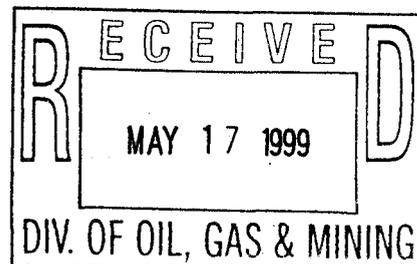
Thank you for your timely consideration of this application. Please feel free to contact me if you have any questions.

Sincerely,

*Don S. Hamilton*

Don S. Hamilton  
Permit Specialist

cc: Mr. John Baza, DOGM (without APD)  
Mr. Don Stephens, BLM, Price, Utah (without APD)  
Mr. Chuck Snure, Texaco (without APD)  
Mr. Joe Coughlin, Dominion Resources (without APD)  
Mrs. Tammie Butts, RGC (without APD)  
RGC Well Files (without APD)



Emery County Gas/Oil Notice of Development Plan

Map # \_\_\_\_\_

Developer Name River Gas Corporation

Developer Address 1305 South 100 East Price, Utah 84501

Contact Person(s) Don S. Hamilton -Permit Specialist

Phone: (Office) (435) 637-8876 (Mobile) (435) 636-5671 (FAX) (435) 637-8924

Well Name & Number USA D-11

Legal Description (w/ 1/4 1/4) SW/4, NE/4, Section 13, T16S, R10E SLB&M

Fed Lease # (if applic) UTU-65300

Primary Permitting Agency: (circle one)

UDOGM Date ap. submitted 4-12-99 BLM Date ap. submitted 3-19-99

USFS Date ap. submitted \_\_\_\_\_

Do you have a HazMat Plan for this facility? Yes

Estimated date for project started June 1999 Completion December 1999

NOTES:

- 1) Developers are responsible to inform all contractors and sub-contractors that potential personal property tax obligations must be paid. The Emery County Assessor is Jim Fauver (435) 381-2474.
- 2) Emery County Planning Commission will need to be contacted and included in all appropriate additional paper work, site visits, etc.

Please read the above NOTES and initial here DsH

Check list:

- All pertinent information listed above completed?
- Complete APD (Application for Permit to Drill) enclosed?
- Filing fee of \$300 enclosed?
- N/A Road Encroachment Application filled out with \$25 fee enclosed?
- Land ownership or lease information or application enclosed?

The undersigned certifies that he/she is an authorized agent of the Applicant named above, and that to the best of his/her knowledge, information and belief, the information stated herein is true, complete and correct. The Applicant agrees to continuously supplement this application as new information comes available or as plans change.

Company Rep Signature Don S. Hamilton Date 5-6-99

Emery Co. approval signature \_\_\_\_\_ Date \_\_\_\_\_

**ON-SITE PREDRILL EVALUATION**

**Division of Oil, Gas and Mining**

OPERATOR: River Gas Corporation

WELL NAME & NUMBER: D-11

API NUMBER: 43-015-30356

LEASE: Fee FIELD/UNIT: undesignated

LOCATION: 1/4,1/4 SWNE Sec: 13 TWP: 16S RNG: 9E 1513 FNL 2437 FEL

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

GPS COORD (UTM): 511,979; 4,364,982

SURFACE OWNER: River Gas Corporation

**PARTICIPANTS**

C. Kierst (DOGM), D. Hamilton, G. Vasquez and C. Anderson (RGC), L. Jensen (Nelco), B. Anderson (Emery Co.).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

Mancos Shale lowlands east of Wasatch Plateau (7.5 miles east)/ open, flat ground. Gentle slope to the southeast. Washboard Wash is nearby (~600' southwest) and North Fork of the Cleveland Canal passing by ~300' to the southeast. ~3.5 miles northwest of Elmo, Utah. Low hills surround the location.

**SURFACE USE PLAN**

CURRENT SURFACE USE: Agricultural land and wildlife habitat.

PROPOSED SURFACE DISTURBANCE: 415' X 300' pad with 150' X 60' X 12' reserve pit, a 50' X 50' X 10' spudder reserve pit and ~2000' of new approach road.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 1 P&A'd well (4300710354), 1 RGC approved permit location.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: None

SOURCE OF CONSTRUCTION MATERIAL: gravel location and approach road; soil stored in berm.

ANCILLARY FACILITIES: none

WASTE MANAGEMENT PLAN: Portable toilets; garbage cans on location will

be emptied into centralized dumpsters which will be emptied into an approved landfill.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOOD PLAINS AND/OR WETLANDS: Washboard Wash is ~600' to the southwest and the North Branch of the Cleveland Canal is ~300' to southeast.

FLORA/FAUNA: greasewood, cottonwood, willow, sparse grass/ birds, lizards, coyotes, rodents.

SOIL TYPE AND CHARACTERISTICS: Moderately-permeable, light gray, saturated, bentonitic; developed on Quaternary Slope Wash.

SURFACE FORMATION & CHARACTERISTICS: Fine-grained Quaternary Slope Wash on Mancos Shale, light gray, bentonitic.

EROSION/SEDIMENTATION/STABILITY: stable

PALEONTOLOGICAL POTENTIAL: poor

RESERVE PIT

CHARACTERISTICS: natural soil, dugout

LINER REQUIREMENTS (Site Ranking Form attached): Synthetic liner.

SURFACE RESTORATION/RECLAMATION PLAN

As per Surface Owner Agreement.

SURFACE AGREEMENT: Operator is surface owner. Agreement with BLM to put pipeline across federal acreage.

CULTURAL RESOURCES/ARCHAEOLOGY: Fee land - no survey required but a survey done anyway.

OTHER OBSERVATIONS/COMMENTS

Need federal right-of-way for pipe, power and maintenance corridor - utilities diverge from access road to cross under highway. Location is near the flowing North Branch of the Cleveland Canal as it crosses over Washboard Wash. A weir is located just upstream of the crossover and water from the diversion (south side of canal, east side of Washboard Wash) was overflowing the ditch and flowing into Washboard Wash. Much of the soil on the surface was saturated by canal and ditch seepage. Location plat was modified for rig and pit position.

ATTACHMENTS: 5 photographs (32-36)

Chris Kierst  
DOGM REPRESENTATIVE

5/20/99/ 9:15 AM  
DATE/TIME

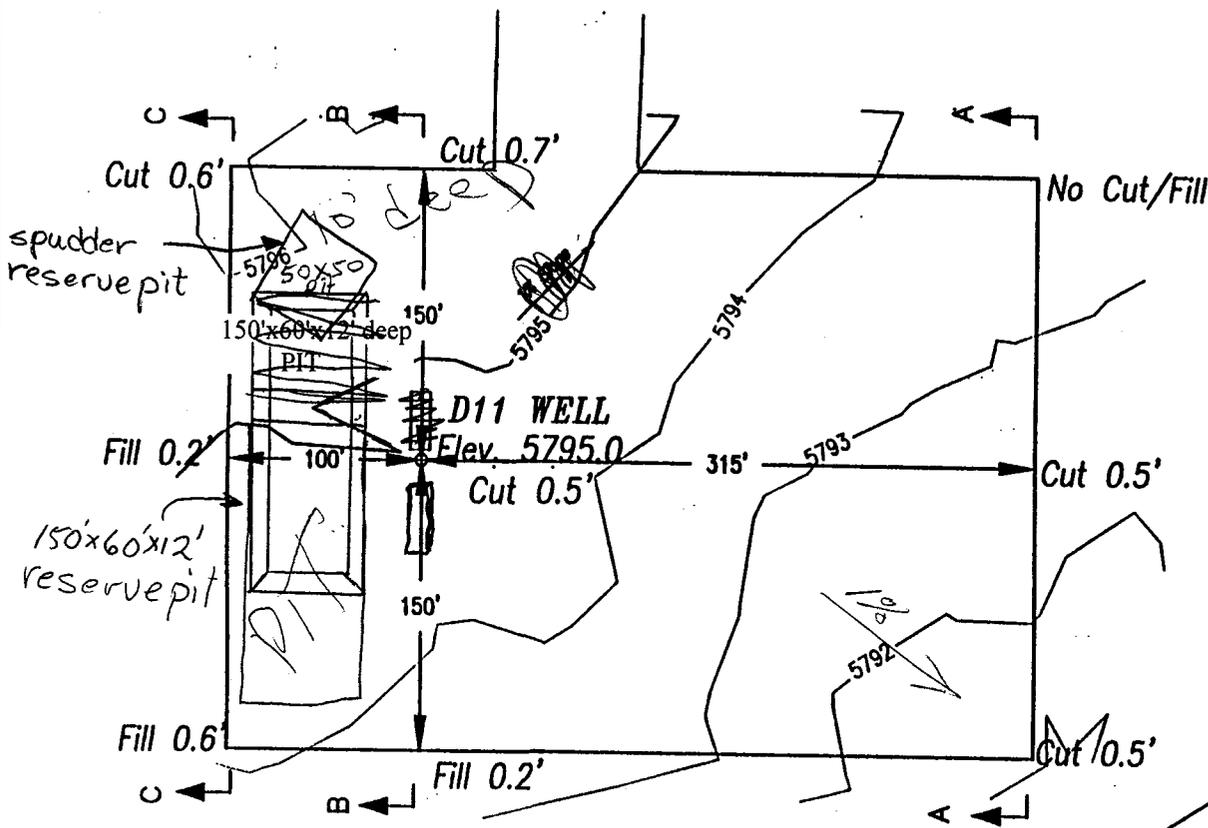
**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>0</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>6</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

**Final Score**

21

(Level I Sensitivity)



*Need 2 pits on  
disposal locations  
(both lined)*



Elevation Ungraded Ground at Location Stake = 5795.0'  
Elevation Graded Ground at Location Stake = 5794.5'

DRAWN BY: <b>P. BOYLEN</b> CHECKED BY: <b>J.S.H.</b> DATE: <b>3/23/99</b> SCALE: <b>1"=100'</b> JOB NO. <b>466</b> DRAWING NO. <b>A-2</b> SHEET <b>2</b> OF <b>4</b>	 3200 South 125 West Pritch, Utah 84501 (801) 637-9300 FAX (801) 637-2833 Services <b>River Gas Corporation</b> Location Layout Section 13, T16S, R9E, S.L.B&M. Well# D-11
--	--

Exhibit "E"



**.RGC D – 11 4301530356 1513 FNL, 2437 FEL, S. 13, T. 16 S., R. 9 E., Emery County, Utah C. Kierst 5/20/99**

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

**Operator Name:** River Gas Corporation

**Name & Number:** D -11

**API Number:** 43-015-30356

**Location:** 1/4, 1/4 SWNE Sec. 13 T. 16S R. 9E

**Geology/Ground Water:**

An aquifer containing a minor seepage ground water resource is expected to be encountered along the North Branch of the Cleveland Canal in saturated soil. The proposed casing and cement program will adequately isolate any zones of water penetrated.

**Reviewer:** C. Kierst

**Date:** 5/27/99

**Surface:**

The Mancos Shale soil is relatively impermeable, stable and not incised or undermined on or immediately beside the disturbed area. The nearest moving surface waters are the Cleveland Canal and Washboard Wash, 300' and 600' distant, respectively. Precipitation will be deflected around the location with berms and culverts. There are no nearby culinary or irrigation water supply wells. The site was photographed and characterized on 5/20/99. Provision was made to ensure site rehabilitation, litter and waste control, preservation of drainage patterns and the integrity of local infrastructure, groundwater and other resources. The well utilities and gas gathering system will follow the approach roadway except when utilities corridor diverges to pass below Highway 10 and crosses federal acreage (BLM).

**Reviewer:** C. Kierst

**Date:** 5/27/99

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

- 1) Culverts sufficient to manage expected runoff, standing and surface water in crossed drainages.
- 2) Berm useable area of location and pit.
- 3) Site infrastructure as per modified drilling location plat.
- 4) Minimum 12 mil synthetic liner is required.
- 5) Compliance with local ordinances as well as DOGM requirements.
- 6) Soil storage as per modified drilling location plat.

Well name:	<b>699 RGC UIC D-11</b>	
Operator:	<b>River Gas Corp.</b>	Project ID:
String type:	Surface	43-007-30356
Location:	Carbon County	

**Design parameters:**

**Collapse**  
Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
Design factor 1.125

**Burst:**  
Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 79 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 290 ft

Cement top: 31 ft

**Burst**

Max anticipated surface pressure: -3,452 psi  
Internal gradient: 11.221 psi/ft  
Calculated BHP 138 psi

No backup mud specified.

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

Tension is based on buoyed weight.  
Neutral point: 281 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 7,500 ft  
Next mud weight: 9.000 ppg  
Next setting BHP: 3,506 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 7,500 ft  
Injection pressure 7,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	320	13.375	48.00	H-40	ST&C	320	320	12.59	30.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	138	740	5.34	138	1730	12.49	13	322	23.87 J

Prepared RJK  
by: Utah Dept. of Natural Resources

Date: June 2,1999  
Salt Lake City, Utah

ENGINEERING STIPULATIONS: Conductor and surface casing shall be cemented to surface.  
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
Collapse is based on a vertical depth of 320 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.  
Burst strength is not adjusted for tension.

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

Well name:	<b>699 RGC UIC D-11</b>	
Operator:	<b>River Gas Corp.</b>	Project ID:
String type:	Intermediate	43-007-30356
Location:	Carbon County	

**Design parameters:**

**Collapse**  
Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Burst**  
Max anticipated surface pressure: 0 psi  
Internal gradient: 0.433 psi/ft  
Calculated BHP: 1,082 psi  
  
No backup mud specified.

**Minimum design factors:**

**Collapse:**  
Design factor: 1.125

**Burst:**  
Design factor: 1.00

**Tension:**  
8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)  
  
Tension is based on buoyed weight.  
Neutral point: 2,192 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 110 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 739 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 8,000 ft  
Next mud weight: 8.330 ppg  
Next setting BHP: 3,462 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 8,000 ft  
Injection pressure: 8,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2500	9.625	36.00	K-55	LT&C	2500	2500	8.765	178
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1082	2020	1.87	1082	3520	3.25	79	489	6.20 J

Prepared RJK  
by: Utah Dept. of Natural Resources

Date: June 2,1999  
Salt Lake City, Utah

ENGINEERING STIPULATIONS: Conductor and surface casing shall be cemented to surface.  
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
Collapse is based on a vertical depth of 2500 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.  
Burst strength is not adjusted for tension.

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

Well name:	<b>699 RGC UIC D-11</b>	
Operator:	<b>River Gas Corp.</b>	Project ID:
String type:	Production	43-007-30356
Location:	Carbon County	

**Design parameters:**

**Collapse**

Mud weight: 8.330 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 0 psi  
 Internal gradient: 0.433 psi/ft  
 Calculated BHP: 2,640 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on buoyed weight.  
 Neutral point: 5,333 ft

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 160 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 368 ft

Cement top: 2,236 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	6100	7	26.00	J-55	LT&C	6100	6100	6.151	319.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2640	4320	1.64	2640	4980	1.89	139	367	2.65 J

Prepared by: RJK  
 Utah Dept. of Natural Resources

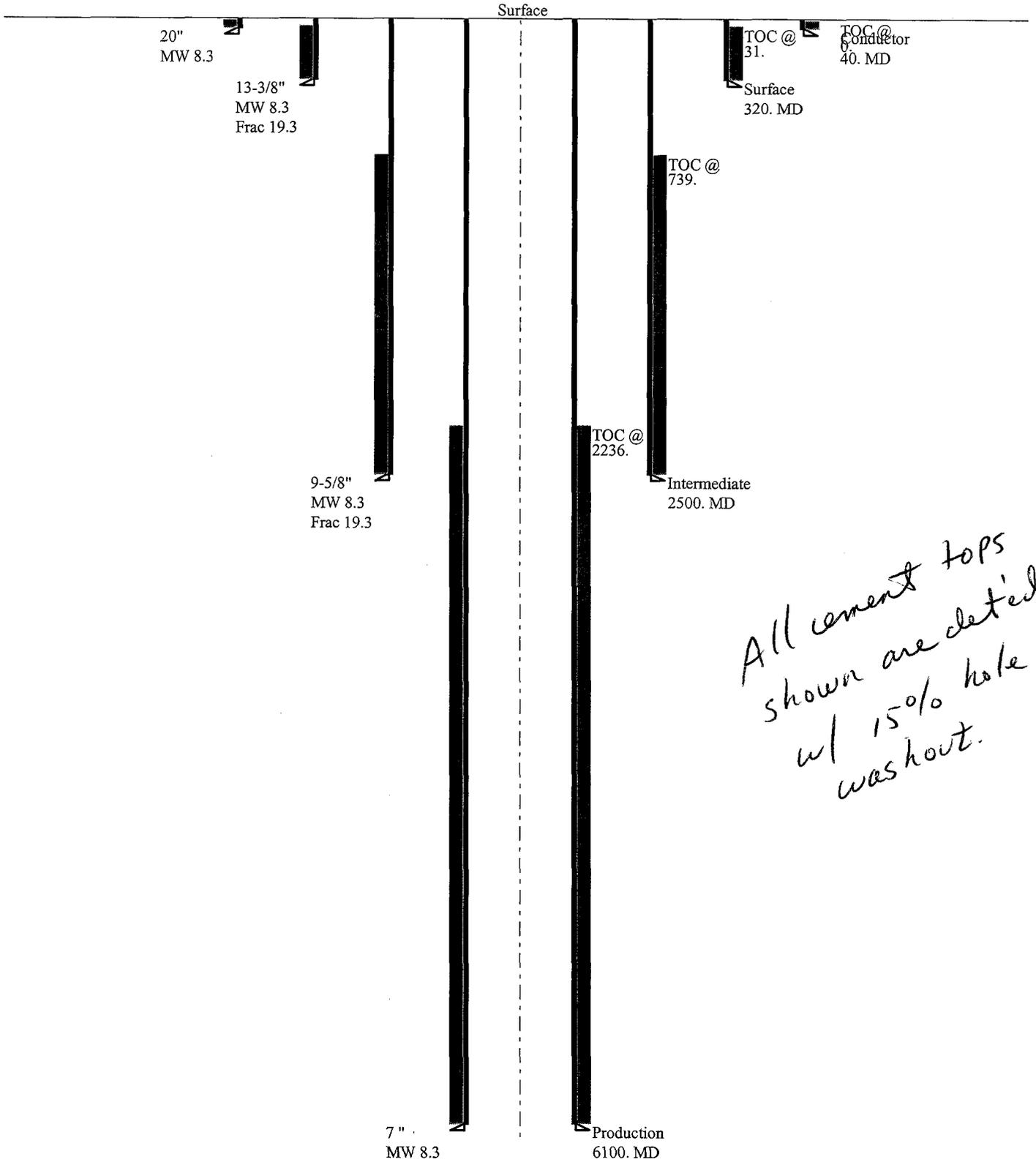
Date: June 2, 1999  
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: Conductor and surface casing shall be cemented to surface.  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
 Collapse is based on a vertical depth of 6100 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes.  
 Burst strength is not adjusted for tension.

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

# 699 RGC UIC D-11

## Casing Schematic

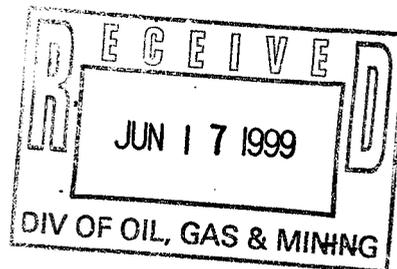


*All cement tops shown are det'd w/ 15% hole washout.*

**River Gas Corporation**

1305 South 100 East  
Price, Utah 84501-9637  
(435) 637-8876  
(435) 637-8924

# RGC



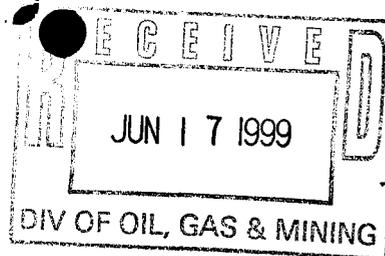
**To:** Lisba Cardava **From:** Dan Hamilton  
**Fax:** #6 **Pages:** 4  
**Phone:** \_\_\_\_\_ **Date:** 6-17-99  
**Re:** Wellsite surface use for the D-11 CC

- Urgent     For Your Review     FYI     Please Reply     Please Recycle

Following is the surface use for the wellsite for the D-11 for your files.

From the Desk of...  
**Dan S. Hamilton -**  
 Permit Specialist

**WHEN RECORDED, RETURN TO:**  
William L. Kirk, Jr., Senior Landman  
River Gas Corporation  
511 Energy Center Blvd.  
Northport, AL 35473



**COPY**

**WARRANTY DEED  
(Surface Estate Only)**

**BILL and JENNI FASSELIN**, husband and wife, P.O. Box 55, Elmo, UT 84521, **GRANTORS**, for the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, do hereby convey and warrant to **RIVER GAS CORPORATION**, 511 Energy Center Blvd., Northport, AL 35473, **GRANTEE**, the following described property situated in Emery County, Utah lands:

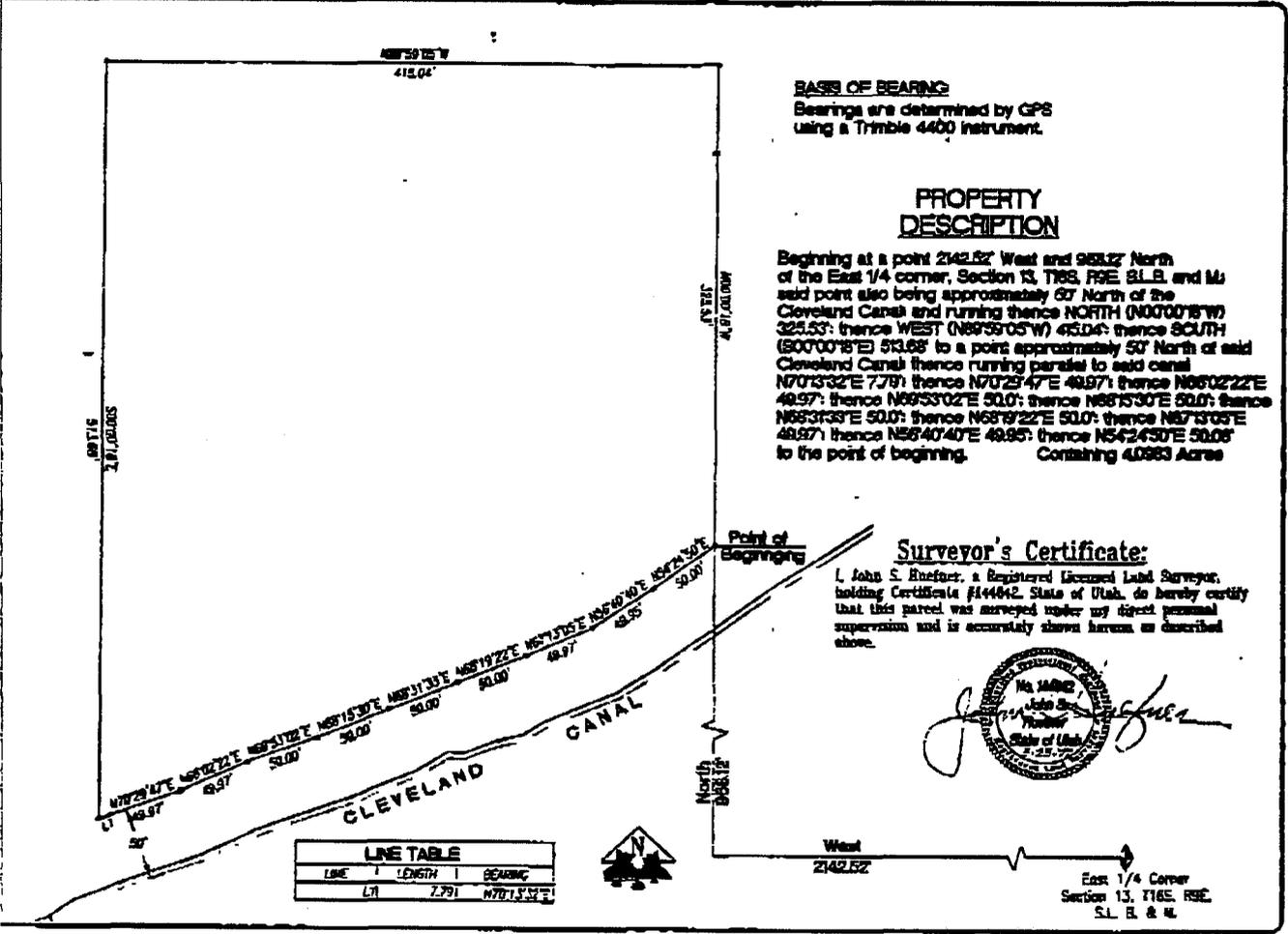
Township 16 South. Range 9 East. SLM

Section 13: Beginning at a point 2142.52' West and 968.12' North of the East ¼ corner, said point also being approximately 50' North of the Cleveland Canal; and running thence NORTH (N00°00'18"W) 325.53'; thence WEST (N89°59'05"W) 415.04'; thence SOUTH (S00°00'18"E) 513.68' to a point approximately 50' North of said Cleveland Canal; thence running parallel to said canal N70°13'32"E 7.79'; thence N70°29'47"E 49.97'; thence N66°02'22"E 49.97'; thence N69°53'02"E 50.0'; thence N68°15'30"E 50.0'; thence N68°31'33"E 50.0'; thence N68°19'22"E 50.0'; thence N67°13'05"E 49.97'; thence N56°40'40"E 49.95'; thence N54°24'50"E 50.08' to the point of beginning.

(containing 4.0983 acres)

with all rights appurtenant thereto, **EXCEPTING AND RESERVING** all oil, gas and minerals, and **SUBJECT TO** all easements, rights-of-way and other surface encumbrances properly recorded in Emery County and indexed as affecting these lands as of this date.





**BASE OF BEARING:**  
 Bearings are determined by GPS using a Trimble 4400 instrument.

**PROPERTY DESCRIPTION**

Beginning at a point 2142.52' West and 988.22' North of the East 1/4 corner, Section 13, T16S, R9E, S1B, and to said point also being approximately 37' North of the Cleveland Canal and running thence NORTH (N00°00'15\"/>

**Surveyor's Certificate:**

I, John S. Hefner, a Registered Licensed Land Surveyor, holding Certificate #144442, State of Utah, do hereby certify that this parcel was surveyed under my direct personal supervision and is accurately shown herein as described above.



LINE TABLE		
LINE	LENGTH	BEARING
L1	7.791	N79°13'52\"/>

REVISIONS	
No.	Date

**Castle Rock**  
  
**Technical Services**  
 390 S. 2000 W. Salt Lake City, UT 84119  
 (801) 487-7999  
 fax (801) 487-7999

**RGC**  
 River Gas Corporation  
 Property Description  
 Section 13, T16S, R9E, S1B  
 Kane County, Utah

Prepared by  
**F. BOYLEN**  
 J.S.H.  
 3/27/99  
 Scale  
 1" = 50'  
 1" = 50'  
 1" = 50'  
**P-1**  
 1 1 1

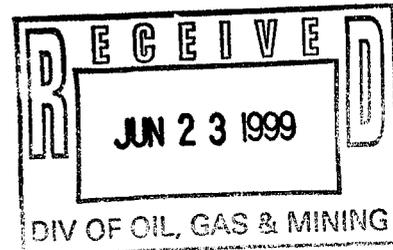
**GEO SCOUT LAND & TITLE COMPANY**

P.O. Box 11126 • SALT LAKE CITY, UTAH 84147 • (801) 364-7773

June 21, 1999

**HAND DELIVERED**

Mr. John Baza, Associate Director, Oil & Gas  
Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84180



Re: *River Gas Corporation*  
*USA D-11 Exception Location*  
*Section 13, Township 16 South, Range 9 East, SLM*  
*Emery County, Utah*  
*API No. 43-015-30356*

Dear Mr. Baza:

Reference is made to the pending application for permit to drill ("APD") for the captioned well filed by our client, River Gas Corporation ("RGC"). The APD was filed by "RGC" on April 15, 1999. As you know, "RGC" intends that this well will be converted to a disposal well. An appropriate UIC application will be filed in due course.

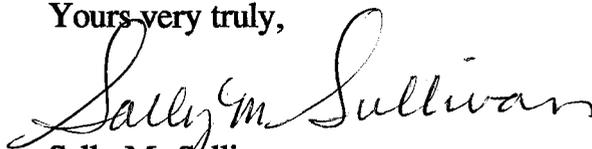
The proposed location for this well is not subject to a spacing order, *i.e.* general state spacing under Utah Admin. Code Rule R649-3-2 applies. The well is proposed at a location 1513' FNL and 2437' FEL in the SW $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 13, which is outside of the "window" allowed under the general state spacing rule. The well cannot be located within the "window" because of topographical restraints. As a consequence, an exception location under Utah Admin. Code Rule R649-3-3-1.2 is now required, pursuant to your agency's recent policy change (notwithstanding the fact that this will be a disposal well).

As shown by the enclosed Affidavit, the "owners" within a 460 foot radius of the proposed location are River Gas Corporation ("RGC") and Texaco Exploration and Production Inc. ("TEXEP"). RGC, by virtue of its application for the well, and TEXEP, by virtue of the enclosed Consent, have approved the exception location. With the information provided with this letter and contained in your file for the pending APD, all requirements for approval of an exception location have been satisfied. Your prompt approval is therefore requested.

Mr. John Baza, Associate Director, Oil & Gas  
June 21, 1999  
Page 2

If you have any further questions or concerns regarding this application, please do not hesitate to contact either me or Fred MacDonald at Pruitt, Gushee & Bachtell (801)531-8446. On behalf of RGC, I thank you for your immediate attention to this matter.

Yours very truly,

  
Sally M. Sullivan

SMS:cs  
1526.167  
Enclosures  
cc: Joseph L. Stephenson  
geoscout.d-11xloc.ltr

# AFFIDAVIT

STATE OF UTAH                    )  
  : SS.  
COUNTY OF SALT LAKE        )

Sally M. Sullivan, being duly sworn upon her oath, deposes and states:

1. I am the Vice President of GeoScout Land & Title Company ("GeoScout").
2. GeoScout is a company that specializes in mineral abstracts and mineral title searches, including searches of the oil and gas records at the United States Department of the Interior, Bureau of Land Management ("BLM"). I have performed such searches on behalf of GeoScout's clients for over nine years.
3. Based solely on my search of the BLM records on June 21, 1999, pertaining to the N $\frac{1}{2}$  of Section 13, Township 16 South, Range 9 East, SLM and Federal Oil & Gas Lease UTU-65300, I have determined the following parties to be the "owners" (as that term utilized in the Utah Admin. Code Rule R649-3-3) within a 460' radius of the proposed USA D-11 well located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$  of said Section 13.

TEXACO EXPLORATION AND PRODUCTION INC.

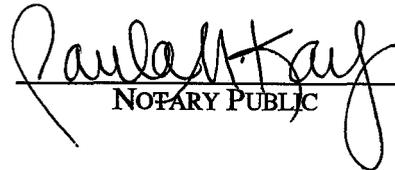
RIVER GAS CORPORATION

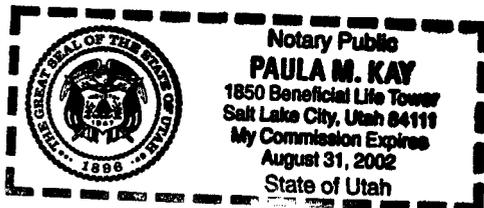
4. The matters stated herein are true of my own knowledge.

DATED this 21<sup>st</sup> day of June, 1999.

  
SALLY M. SULLIVAN

Subscribed, sworn and acknowledged to and by Sally M. Sullivan before me this 21<sup>st</sup> day of June, 1999.

  
NOTARY PUBLIC



**CONSENT TO EXCEPTION LOCATION**

**TEXACO EXPLORATION AND PRODUCTION, INC.**, P.O. Box 2100, Denver, CO 80201, an "owner" (as that term is utilized in Utah Admin. Code Rule R649-3-3) within a 460' radius of the USA D-11 well proposed by River Gas Corporation, hereby consents to the requested exception location of that well as shown on the attached application for permit to drill.

Dated this 22 day of June, 1999.

**TEXACO EXPLORATION AND PRODUCTION, INC.**

By: Chuck Snure  
Chuck Snure, Land Representative

FORM 3

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

5. Lease Designation and Serial Number: **UTU-65300**

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

7. Unit Agreement Name: **N/A**

8. Farm or Lease Name: **USA**

9. Well Number: **D-11**

10. Field or Pool, or Wildcat: **undesigned**

11. Qtr/Qty, Section, Township, Range, Meridian: **SW/NE Section 13, T16S, R09E, SLB&M**

12. County: **Emery** 13. State: **UTAH**

14. Distance in miles and direction from nearest town or post office: **11.7 miles southwest of Price, UT**

15. Distance to nearest property or lease line (feet): **1513'**

16. Number of acres in lease: **1988.41 acres**

17. Number of acres assigned to this well: **n/a**

18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): **none**

19. Proposed Depth: **6100'**

20. Rotary or cable tools: **Rotary**

21. Elevations (show whether DF, RT, GR, etc.): **5795' GR**

22. Approximate date work will start: **June 1999**

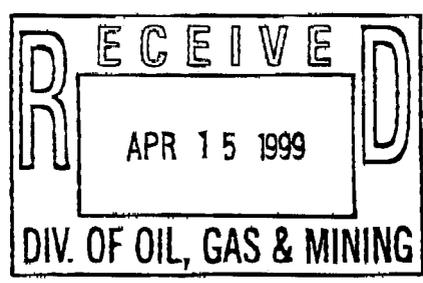
**CONFIDENTIAL**

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	40'	see attachment "D"
17-1/2"	13-3/8"	48#/ft	320'	see attachment "D"
12-1/4"	9-5/8"	36 & 40#/ft	2500'	see attachment "D"
8-3/4"	7"	26.29 & 32#/ft	6100'	see attachment "D"

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

**CONFIDENTIAL**



**ORIGINAL**

24. Name & Signature: Don S. Hamilton *Don S. Hamilton* Title: Permit Specialist Date: 4/12/99

(This space for state use only)

API Number Assigned: 43-015-30356 Approval: \_\_\_\_\_

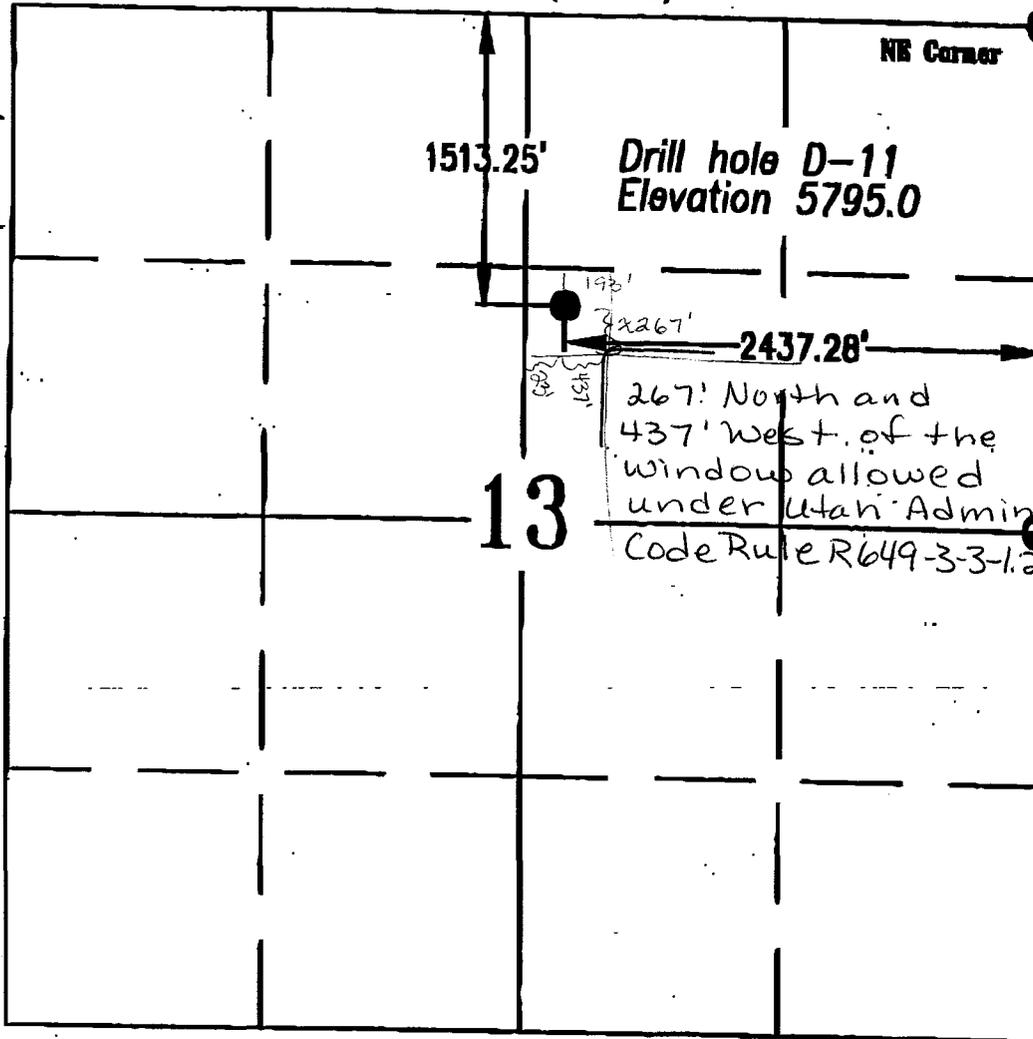
# Range 9 East

889°22'W - 5198.1' (Recorded)

Township 16 South

N00°33'W - 2687.5' (Recorded)

N00°51'E - 2810.3' (Recorded)



N89°06'W - 2729.1' (Recorded)

S88°01'W - 2489.1' (Recorded)

## Location

The Bearings indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4400 GPS Unit.

## Basis Of Elevation:

Basis of Elevation of 5837' as indicated in the NE Corner of Section 13, Township 16 South, Range 9 East, Salt Lake Base and Meridian, as shown on the Elmo Quadrangle 7.5 Minute Series Map.

## Description of Well Point

Proposed Drill Hole located in the SW 1/4 NE 1/4 of Section 13; 1513.25' South and 2437.28' West from the NE Corner of Section 13, T16S, R9E, Salt Lake Base & Meridian.

## Surveyor's Certificate:

I, John S. Huefner, a Registered Licensed Land Surveyor, holding Certificate #144842, State of Utah, do hereby certify that the information on this drawing is a true and accurate survey of the land, and was conducted under my personal supervision, as shown hereon.



## LEGEND:

- Drill Hole Location
- ⊕ Found Section Corner Monumented w/ Brass Cap unless indicated otherwise.
- Section Corner searched for but not found



## SCALE:

250' 500' 1000'

RECORD NO. <b>P. BOYLEN</b> SURVEYOR NO. <b>J.S.H.</b> DATE <b>3/22/09</b> SCALE <b>1" = 1000'</b> SHEET NO. <b>488</b> PROJECT NO. <b>A-1</b>	<p>2200 South 100 West                  Provo, Utah 84601                  (801) 437-0300                  FAX (801) 437-0323</p>
River Gas Corporation Well D-11 Section 13, T16S, R9E, S.L.B.&M. Emery County, Utah	



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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

June 24, 1999

River Gas Corporation  
1305 South 100 East  
Price, Utah 84501

Re: USA D-11 Well, 1513' FNL, 2437' FEL, SW NE, Sec. 13, T. 16 S., R. 9 E., Emery  
County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM by the operator and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-015-30356.

Sincerely,

John R. Baza  
Associate Director

lwp

Enclosures

cc: Emery County Assessor  
Bureau of Land Management, Moab District Office

Operator: River Gas Corporation

Well Name & Number: USA D-11

API Number: 43-015-30356

Lease: Federal Surface Owner: Fee (River Gas)

Location: SW NE Sec. 13 T. 16 S. R. 9 E.

### Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well. Contact Carol Daniels at (801)538-5284.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or Robert Krueger at (801) 538-5274.

3. Reporting Requirements

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

4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.

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

SPUDDING INFORMATION

Name of Company: RIVER GAS CORPORATION

Well Name: D-11

Api No. 43-015-30356 Lease Type: FEDERAL

Secton 13 Township 16S Range 09E County EMERY

Drilling Contractor BEAMAN DRILLING RIG # 30

SPUDDED:

Date 07/01/99

Time 6:30 AM,

How DRY HOLE

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

Reported by D J WILSON

Telephone # 1-435-637-8876

Date 07/02/99 Signed: CHD

**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*

**CONFIDENTIAL**

1. Type of Well  
 Oil  Gas  Disposal

2. Name of Operator  
River Gas Corporation

3. Address and Telephone No.  
1305 South 100 East Price, Utah 84501 (435)637-8876

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1513' FNL', 2437' FEL  
SW/4, NE/4, Sec.13, T16S, R9E,SLB&M

5. Lease Designation and Serial No.  
UTU-65300

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

7. If Unit or CA, Agreement Designation  
N/A

8. Well Name and No.  
USA D-11

9. API Well No.  
43-015-30356

10. Field and Pool, or Exploratory Area  
undesignated

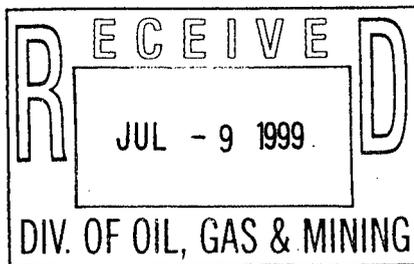
11. County or Parish, State  
Emery County, Utah

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"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Weekly Report <input type="checkbox"/> Change of Name <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing	<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

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.)\*

See attached



**CONFIDENTIAL**

**COPY**

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

Signed *Chawn Wilson* Title Administrative Assistant Date 7/2/99

(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.

## DAILY WELL REPORT

River Gas Corporation  
USA D-11  
1513' FNL, 2437' FEL  
SW/4, NE/4, Sec.13,T16S,R9E  
EMERY COUNTY, UTAH  
SURVEYED ELEVATION:5795'  
API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 2

### DRILLING-

Day 1. 7/1/99. Current Depth: 110' Present Operations: POOH for 24" bit. Drilled in 24 hrs: 110'. Drilled from 0' to 110' with 14-3/4" tri-cone bit#1. Move on location and rig up. Unload extra casing from D-10. 1:00-6:30am Drill 14-3/4" pilot hole to 110'. 6:30-7:00am Pull out of hole for 24" tri-cone. **Spud Time & Date: 6:30a.m. 7/1/99.**

Day 2. 7/2/99. Current Depth: 193' Present Operations: Drilling at 193' 17-1/2". Drilled in 24 hrs: 83'. Drilled from 0' to 57' with 24" tri-cone bit#2. 7:00-3:00pm Drill 0'-57'. 3:00-4:00pm POOH laying down pipe and 24" bit. Run 57' of 20" conductor. 7:00-8:00pm RIH with 17-1/2" hammer. 8:00-3:00am Drill 57'-122'. 3:00-5:00am Rig down for repair. 5:00-7:00am Drill 122'-193'.

**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     Disposal

2. Name of Operator  
 River Gas Corporation

3. Address and Telephone No.  
 1305 South 100 East Price, Utah 84501 (435)637-8876

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1513' FNL', 2437' FEL  
 SW/4, NE/4, Sec.13, T16S, R9E,SLB&M

**CONFIDENTIAL**

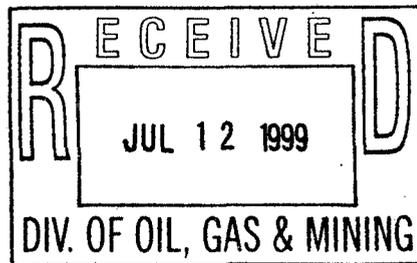
5. Lease Designation and Serial No.	UTU-65300
6. If Indian, Allottee or Tribe Name	N/A
7. If Unit or CA, Agreement Designation	N/A
8. Well Name and No.	USA D-11
9. API Well No.	43-015-30356
10. Field and Pool, or Exploratory Area	undesignated
11. County or Parish, State	Emery County, Utah

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"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Weekly Report <input type="checkbox"/> Change of Name <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing	<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

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.)\*

See attached



**CONFIDENTIAL**

**COPY**

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

Signed Cawn Wilson Title Administrative Assistant Date 7/9/99

(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.

## DAILY WELL REPORT

River Gas Corporation  
USA D-11  
1513' FNL, 2437' FEL  
SW/4, NE/4, Sec.13,T16S,R9E  
EMERY COUNTY, UTAH  
SURVEYED ELEVATION:5795'  
API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 1

### DRILLING-

Day 1. 7/1/99. Current Depth: 110' Present Operations: POOH for 24" bit. Drilled in 24 hrs: 110'. Drilled from 0' to 110' with 14-3/4" tri-cone bit#1. Move on location and rig up. Unload extra casing from D-10. 1:00-6:30am Drill 14-3/4" pilot hole to 110'. 6:30-7:00am Pull out of hole for 24" tri-cone. **Spud Time & Date: 6:30a.m. 7/1/99.**

Day 2. 7/2/99. Current Depth: 193' Present Operations: Drilling at 193' 17-1/2". Drilled in 24 hrs: 83'. Drilled from 0' to 57' with 24" tri-cone bit#2. 7:00-3:00pm Drill 0'-57'. 3:00-4:00pm POOH laying down pipe and 24" bit. Run 57' of 20" conductor. 7:00-8:00pm RIH with 17-1/2" hammer. 8:00-3:00am Drill 57'-122'. 3:00-5:00am Rig down for repair. 5:00-7:00am Drill 122'-193'.

Day 3. 7/3/99. Current Depth: 375' Present Operations: WOC. Drilled in 24 hrs: 182'. Drilled from 75' to 375' with 17-1/2" Hammer bit#3. 7:00-3:30pm Hammer Drill 17-1/2" hole. Wash hole. Trip out of hole. Run casing. RU cement (Dowell). Pump cement job. RD Dowell. WOC.

Day 4. 7/4/99. Current Depth: 772' Present Operations: Drill at 772' 12-1/4". Drilled in 24 hrs: 397'. Drilled from 375' to present with 12-1/4" Hammer bit#4. WOC. Nipple up. 9:30-12:00pm Hammer Drill out cement. 12:00-7:00am Drill to 772' with 12-1/4".

Day 5. 7/5/99. Current Depth: 2380' Present Operations: Drill at 2380' 17-1/2". Drilled in 24 hrs: 1608'. Drilled from 375' to present with 12-1/4" Hammer bit#4. 7:00-7:00pm Hammer drill 12-1/4" to 2380'

Day 6. 7/6/99. Current Depth: 2562' Present Operations: Returning back to bottom. Drilled in 24 hrs: 182'. Drilled from 375' to 2562' with 12-1/4" Hammer bit#4. Drilled from 2562' to present with 12-1/4" tri-cone bit #5. 7:00-10:30am Hammer Drill 12-1/4" to 2562' 11:00-7:00pm Trip out hammer. Mix mud. 7:00-12:30am TIH with 12-1/4" tri-cone. Start pumping mud. Get circulation. Start back to bottom. 2jts from bottom.

## DAILY WELL REPORT

River Gas Corporation  
USA D-11  
1513' FNL, 2437' FEL  
SW/4, NE/4, Sec.13,T16S,R9E  
EMERY COUNTY, UTAH  
SURVEYED ELEVATION:5795'  
API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 2

### DRILLING-

Day 7. 7/7/99. Current Depth: 2562' Present Operations: WOC. Drilled in 24 hrs: 0  
Wash to bottom. Trip out pipe. RU loggers. Log well. RD loggers. RU T&M Casers  
to run 2550.8' 9-5/8" 36# K-55 Intermediate casing. RU Dowell. Pump cement. RD  
Dowell. WOC.

Day 8. 7/8/99. Current Depth: 2562'. Present Operations: Moving. 7:00-12:00pm  
WOC. 12:00-7:00am Preparing to move.

Day 9. 7/9/99. Current Depth: 2562'. Present Operations: Prepping location for  
Cyclone. Prep location for Cyclone. No activity.

**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  Disposal

2. Name of Operator  
River Gas Corporation

3. Address and Telephone No.  
1305 South 100 East Price, Utah 84501 (435)637-8876

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1513' FNL', 2437' FEL  
SW/4, NE/4, Sec.13, T16S, R9E, SLB&M

5. Lease Designation and Serial No.  
UTU-65300

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

7. If Unit or CA, Agreement Designation  
N/A

8. Well Name and No.  
USA D-11

9. API Well No.  
43-015-30356

10. Field and Pool, or Exploratory Area  
undesignated

11. County or Parish, State  
Emery County, 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 checked="" type="checkbox"/> Weekly Report	<input type="checkbox"/>
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Change of Name	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
	<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

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.)\*

See attached

**CONFIDENTIAL**

**COPY**

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

Signed Jane Campbell Title Administrative Assistant Date 7/26/99

(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.

## DAILY WELL REPORT

River Gas Corporation  
USA D-11  
1513' FNL, 2437' FEL  
SW/4, NE/4, Sec.13, T16S, R9E  
EMERY COUNTY, UTAH  
SURVEYED ELEVATION: 5795'  
API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 4

### DRILLING-

Day 19. 7/19/99. Present depth: 3985'. Present Operations: Taking survey. Drilled in 24 hrs: 247'. Drilled from 3585' to present with 8-3/4" reed 53A tricone bit#7. 7:00AM to 12:00PM drill 3738'-3797'. 12:00-7:00PM drill 3797'-3865'. 7:00-11:30PM drill 3787'-3917'. Pump flag and air out pump. Service rig. 12:30-6:45AM drill 3917'-3985'. Take Survey.

Day 20. 7/20/99. Present depth: 4203'. Present Operations: Drilling at 4204'. Drilled in 24 hrs: 218'. Drilled from 3585'-Present with 8-3/4" reed bit #7. Take wireline survey 1-1/4" at 3940'. 1:00-1:30pm drill 3985'-4043'. Service rig and check BOP. 1:30-7:00pm drill 4042'-4097'. 7:00-9:30pm drill 4097'-4120'. Service rig, check BOP. 10:00pm-4:15am drill 4120'-4182'. Losing circulation. Mix lcm and pull up stand. Circulation coming back. 5:15-7:00am drill 4182'-4204'.

Day 21. 7/21/99. Present Depth: 4420'. Present Operations: Drilling at 4420'. Drilled in 24 hrs: 217'. Drilled from 3585' to present with 8-3/4" reed bit#7. 7:00am-1:00pm drill 4203'-4264'. Service rig and check BOP. 1:30-7:00pm drill 4264'-4323'. 7:00-11:00pm drill 4323'-4356'. 11:00pm-7:00am drill 4356'-4420'.

Day 22. 7/22/99. Present Depth: 4532'. Present Operations: Drilling at 4532'. Drilled in 24 hrs: 112'. Drilled from 3585' to 4455' with 8-3/4" reed 53A Tricone bit#7. Drilled from 4455' to present with 8-3/4" smith F-35 Tricone bit #8. 7:00-11:00am drill 4420'-4455'. POOH to change bits (cone getting loose). Unload 7" from csg. truck. RIH w/Smith F-35 SN#LT9484 w/2-125 and 1-13. Wash and ream F/4430T/4455. Change swivel packing (service rig). Ream F/4445T/4455. 8:30pm-7:00am drill 4455'-4532'.

Day 23. 7/23/99. Present Depth: 4704'. Present Operations: Drilling at 4704'. Drilled in 24 hrs: 172'. Drilled from 4455' to present with 8-3/4" smith, tricone F-3 bit#8. 7:00-11:30am drill 4532'-4568'. Service rig. 12:00-7:00pm drill 4568'-4618'. 7:00PM-7:00AM drill 4618'-4704'.

**SUNDRY NOTICES AND REPORTS ON WELLS**

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N/A

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N/A

8. Well Name and No.  
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43-015-30356

10. Field and Pool, or Exploratory Area  
undesignated

11. County or Parish, State  
Emery County, Utah

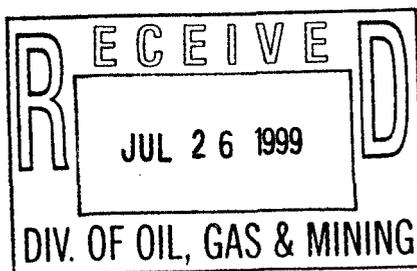
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See attached

CONFIDENTIAL



**COPY**

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

Signed Laura Wilson Title Administrative Assistant Date 7/16/99

(This space for Federal or State office use)

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

Conditions of approval, if any:

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SW/4, NE/4, Sec.13,T16S,R9E  
EMERY COUNTY, UTAH  
SURVEYED ELEVATION:5795'  
API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 1

### DRILLING-

Day 1. 7/1/99. Current Depth: 110' Present Operations: POOH for 24" bit. Drilled in 24 hrs: 110'. Drilled from 0' to 110' with 14-3/4" tri-cone bit#1. Move on location and rig up. Unload extra casing from D-10. 1:00-6:30am Drill 14-3/4" pilot hole to 110'. 6:30-7:00am Pull out of hole for 24" tri-cone. **Spud Time & Date: 6:30a.m. 7/1/99.**

Day 2. 7/2/99. Current Depth: 193' Present Operations: Drilling at 193' 17-1/2". Drilled in 24 hrs: 83'. Drilled from 0' to 57' with 24" tri-cone bit#2. 7:00-3:00pm Drill 0'-57'. 3:00-4:00pm POOH laying down pipe and 24" bit. Run 57' of 20" conductor. 7:00-8:00pm RIH with 17-1/2" hammer. 8:00-3:00am Drill 57'-122'. 3:00-5:00am Rig down for repair. 5:00-7:00am Drill 122'-193'.

Day 3. 7/3/99. Current Depth: 375' Present Operations: WOC. Drilled in 24 hrs: 182'. Drilled from 75' to 375' with 17-1/2" Hammer bit#3. 7:00-3:30pm Hammer Drill 17-1/2" hole. Wash hole. Trip out of hole. Run casing. RU cement (Dowell). Pump cement job. RD Dowell. WOC.

Day 4. 7/4/99. Current Depth: 772' Present Operations: Drill at 772' 12-1/4". Drilled in 24 hrs: 397'. Drilled from 375' to present with 12-1/4" Hammer bit#4. WOC. Nipple up. 9:30-12:00pm Hammer Drill out cement. 12:00-7:00am Drill to 772' with 12-1/4".

Day 5. 7/5/99. Current Depth: 2380' Present Operations: Drill at 2380' 17-1/2". Drilled in 24 hrs: 1608'. Drilled from 375' to present with 12-1/4" Hammer bit#4. 7:00-7:00pm Hammer drill 12-1/4" to 2380'.

Day 6. 7/6/99. Current Depth: 2562' Present Operations: Returning back to bottom. Drilled in 24 hrs: 182'. Drilled from 375' to 2562' with 12-1/4" Hammer bit#4. Drilled from 2562' to present with 12-1/4" tri-cone bit #5. 7:00-10:30am Hammer Drill 12-1/4" to 2562' 11:00-7:00pm Trip out hammer. Mix mud. 7:00-12:30am TIH with 12-1/4" tri-cone. Start pumping mud. Get circulation. Start back to bottom. 2jts from bottom.

## DAILY WELL REPORT

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SW/4, NE/4, Sec.13,T16S,R9E  
EMERY COUNTY, UTAH  
SURVEYED ELEVATION:5795'  
API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 2

### DRILLING-

Day 7. 7/7/99. Current Depth: 2562' Present Operations: WOC. Drilled in 24 hrs: 0  
Wash to bottom. Trip out pipe. RU loggers. Log well. RD loggers. RU T&M Casers  
to run 2550.8' 9-5/8" 36# K-55 Intermediate casing. RU Dowell. Pump cement. RD  
Dowell. WOC.

Day 8. 7/8/99. Current Depth: 2562'. Present Operations: Moving. 7:00-12:00pm  
WOC. 12:00-7:00am Preparing to move.

Day 9. 7/9/99. Current Depth: 2562'. Present Operations: Prepping location for  
Cyclone. Prep location for Cyclone. No activity.

Day 10. 7/10/99. Current Depth: 2562'. Present Operations: Prep for Cyclone Rig.  
Finish pit and cellar. Install starting head.

Day 11. 7/11/99. Current Depth: 2562'. Present Depth: Testing BOP. 7:00-1:00am  
Move on location and rig up. 1:00-7:00am Drilling mouse hole and rat hole. Test BOP.

Day 12. 7/12/99. Current Depth: 2625'. Present Operations: Drilling at 2625'. Drilled  
in 24 hrs: 75'. Drilled from 2550' to present with 8-3/4" Smith SNLS 7807 Tri-cone  
bit#6. Testing BOP. Work on accumulator. Test choke line and manifold 3500#, 400#  
upper kelly 3500#, Safety valve 3500#, pipe ram inside choke and kill 3500# blind rams  
3500#. Cut and weld flow nipple NU. Work on casing tong. PU bottom hole assembly  
and RIH (24" drill collar, bit sub and bit). Finish TIH. Tag flapper valve at 2503'. Drill  
out insert and shoe. 3:30-7:00am Drilling at 2625'.

Day 13. 7/13/99. Current Depth: 2860'. Present Operations: Drilling at 2860'. Drilled  
in 24 hrs: 235'. Drilled from 2550' to present with 8-3/4" Smith SNLS 7807 Tri-cone  
bit#6. 7:00-9:30am Drill to 2628'. Make connection. Started sloughing off. Ream  
back to 2628'. 9:30-12:00pm Drilling at 2659'. 12:00-12:30pm Service rig. 12:30-  
2:30pm Drilling at 2683' 2:30-7:00pm Drilling at 2752'. 7:00-10:00pm Drilling at  
2781'. 10:00-10:30pm Take survey misrun. 10:30-1:30am Drilling at 2812'. 1:30-  
2:00am Take survey 1/2° at 2812'. Service rig. 2:30-7:00am Drilling at 2860'

## DAILY WELL REPORT

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DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 3

### DRILLING-

Day 14. 7/14/99. Current Depth: 3030'. Present Operations: Drilling at 3030'. Drilled in 24 hrs: 170'. Drilled from 2550' to present with 8-3/4" Smith SNLS 7807 Tri-cone bit#6. Total rotating hours: 131.5. Lost circulation. Mix mud and LCM came back. 8:00-9:30am Drilling at 2875'. 9:30-11:15am Drilling at 2894'. Lost circulation 400bbls. POOH 6 stands. Mix pill and build volume. Circulation back. TIH 6 stands and start drilling. 3:45-6:00pm Drilling at 2913'. 6:00-10:30pm Drilling at 2948'. Still fighting lost circulation. 10:30-2:00am Drilling at 2982'. 2:00-7:00am Drilling at 3030'.

Day 15. 7/15/99. Current Depth: 3221'. Present Operations: Drilling at 3221'. Drilled in 24 hrs: 191'. Drilled from 2550' to present with 8-3/4" Smith SNLS 7807 Tri-cone bit#6. Total rotating hours: 155. 7:00-8:30am Drilling at 3027'. Service rig. 9:00-3:30pm Drilling at 3090'. 3:30-7:00pm Drilling at 3121'. 7:00-11:00pm Drilling at 3159'. Mechanic working on #1 engine. 11:00-7:00am Drilling at 3221'.

Day 16. 7/16/99. Current Depth: 3395'. Present Operations: Drilling at 3395'. Drilled in 24 hrs: 174'. Drilled from 2550' to present with 8-3/4" Smith SNLS 7807 Tri-cone bit#6. Total rotating hours: 178. 7:00-11:00am Drilling at 3296'. 11:00-2:00pm Drilling at 3282'. 2:00-2:30pm Service rig. 2:30-5:00pm Drilling at 3301'. 5:00-9:30pm Drilling at 3335'. Take survey 3° at 3295'. 10:00-1:00am Back off weight on bit. Drilling at 3355'. 1:00-7:00am Drilling at 3295'.



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**CONFIDENTIAL**

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undesigned

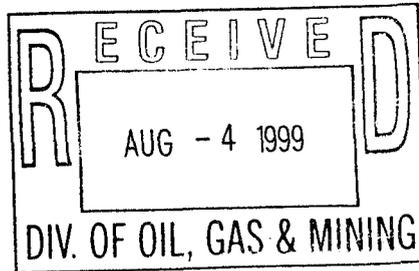
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TYPE OF SUBMISSION	TYPE OF ACTION	
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See attached



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Signed Jany Campbell Title Administrative Assistant Date 7/30/99

(This space for Federal or State office use)

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

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PAGE 4

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Day 20. 7/20/99. Present depth: 4203'. Present Operations: Drilling at 4204'. Drilled in 24 hrs: 218'. Drilled from 3585'-Present with 8-3/4" reed bit #7. Take wireline survey 1-1/4" at 3940'. 1:00-1:30pm drill 3985'-4043'. Service rig and check BOP. 1:30-7:00pm drill 4042'-4097'. 7:00-9:30pm drill 4097'-4120'. Service rig, check BOP. 10:00pm-4:15am drill 4120'-4182'. Losing circulation. Mix lcm and pull up stand. Circulation coming back. 5:15-7:00am drill 4182'-4204'.

Day 21. 7/21/99. Present Depth: 4420'. Present Operations: Drilling at 4420'. Drilled in 24 hrs: 217'. Drilled from 3585' to present with 8-3/4" reed bit#7. 7:00am-1:00pm drill 4203'-4264'. Service rig and check BOP. 1:30-7:00pm drill 4264'-4323'. 7:00-11:00pm drill 4323'-4356'. 11:00pm-7:00am drill 4356'-4420'.

Day 22. 7/22/99. Present Depth: 4532'. Present Operations: Drilling at 4532'. Drilled in 24 hrs: 112'. Drilled from 3585' to 4455' with 8-3/4" reed 53A Tricone bit#7. Drilled from 4455' to present with 8-3/4" smith F-35 Tricone bit #8. 7:00-11:00am drill 4420'-4455'. POOH to change bits(cone getting loose). Unload 7" from csg. truck. RIH w/Smith F-35 SN#LT9484 w/2-125 and 1-13. Wash and ream F/4430T/4455. Change swivel packing (service rig). Ream F/4445T/4455. 8:30pm-7:00am drill 4455'-4532'.

Day 23. 7/23/99. Present Depth: 4704'. Present Operations: Drilling at 4704'. Drilled in 24 hrs: 172'. Drilled from 4455' to present with 8-3/4" smith, tricone F-3 bit#8. 7:00-11:30am drill 4532'-4568'. Service rig. 12:00-7:00pm drill 4568'-4618'. 7:00PM-7:00AM drill 4618'-4704'.

Day 24. 7/24/99. Present Depth: 4900'. Present Operations: Drilling at 4900'. Drilled in 24 hrs: 196'. Drilled from 4455' to present with 8-3/4" smith f35 tricone bit#8. 7:00-9:00am drill 4704'-4725'. Service rig. 9:30am-5:00pm drill 4725'-4787'. 5:00pm-11:00pm drill 4787'-4838'. 11:00pm-1:30am drill 4838'-4854'. 1:30-7:00am drill 4854'-4900'.

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API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 5

**DRILLING-**

Day 25. 7/25/99. Present Depth: 5074'. Present Operations: Drilling at 5074'. Drilled in 24 hrs: 174'. Drilled from 4455' to present with 8-3/4" smith tricone bit#8. 7:00am to 4:30pm drill 4900'-4974'. Service rig and check BOP. Run survey 1° at 4934'. 5:30-7:00pm drill 4974'-4986'. 7:00-11:00pm drill 4986'-5017'. 11:00pm-5:00am drill 5017'-5068'. Repair rotary chain. Service rig. 6:00-7:00am drill 5068'-5074'.

Day 26. 7/26/99. Present Depth: 5448'. Present Operations: Drilling at 5448'. Drilled in 24 hrs: 374'. Drilled from 4455' to present with 8-3/4" smith tricone bit#8. 7:00-11:00am drill 5074'-5129'. 11:00am-3:00pm drill 5129'-5158'. Make gel sweep. Service rig and BOP. 3:30-7:00pm drill 5158'-5240'. 7:00-11:00pm drill 5240'-5315'. Lost circulation at 5278'. Mix and pump LCM came back o.k. 11:00pm-7:00am drill 5383'-5448'.

Day 27. 7/27/99. Current Depth: 5575'. Present operations: Drilling at 5575'. Drilled in 24 hrs: 127'. Drilled from 4455' to 5524' with 8-3/4" smith F35 tricone bit#8. Drilled from 5524' to present with 8-3/4" R.R. F-4 tricone bit#9. 7:00-10:00am drill 5448'-5471'. Run survey 1-1/4° at 5431'. Service rig and check BOP. 11:00am-3:00pm drill 5471'-5524'. Pump pill down drill string and TOOH f/bit change. Change oil and filters on #2 Draworks. TIH. 11:30pm-3:00am drilling 5524'-5545'. 3:00-7:00am drill 5545'-5575'

Day 28. 7/28/99. Current Depth: 5812'. Present Operations: Drilling at 5812'. Drilled in 24 hrs: 237'. Drilled from 5524' to present with 8-3/4" R.R F-4 tricone bit#9. 7:00-11:00am drilled 5575'-5628'. 11:00am-5:30pm drill 5628'-5719'. Service rig. 6:00-7:00pm drill 5719'-5729'. 7:00pm-7:00am drill 5729'-5812'.

Day 29. 7/29/99. Current Depth: 5974'. Present Operations: Drilling at 5974'. Drilled in 24 hrs: 152'. Drilled from 5524' to present with 8-3/4" F4 tricone bit#9. 7:00am to 2:00pm drill 5812'-5875'. Service rig. 2:30-7:00pm drill 5875'-5905'. 7:00pm to 12:00am drill 5905'-5936'. 12:00-7:00am drill 5930'-5974'.

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EMERY COUNTY, UTAH  
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API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 6

**DRILLING-**

Day 30. 7/30/99. Current Depth: 6029'. Present Operations: TOOH for loggers.  
Drilled in 24 hrs: 55'. Drilled from 5524' to present with 8-3/4" RR F4 tricone bit#9.  
7:00am-1:30pm drill 5974'-5998'. Service rig and check BOP. 2:00-7:00pm drill  
5998'-6016'. 7:00-10:00pm drill 6016'-6029'. **TD at 6029' at 10:00pm, 7/29/99.**  
Circulate and condition hole. Pump pill and POOH to 2500'. Short trip. TIH to bottom.  
Ream last 30' to bottom. Circulate and condition hole.

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*SUBMIT IN TRIPLICATE*

**CONFIDENTIAL**

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Emery County, Utah

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

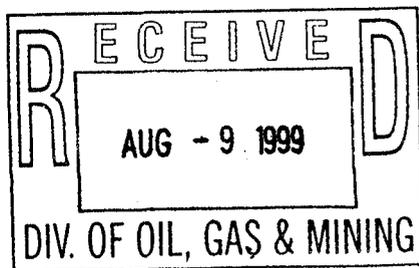
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Weekly Report	<input type="checkbox"/>
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Change of Name	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
	<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

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.)\*

See attached

**CONFIDENTIAL**

**COPY**



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

Signed Janey Campbell Title Administrative Assistant Date 8/06/1999

(This space for Federal or State office use)

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

Conditions of approval, if any:

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

## DAILY WELL REPORT

River Gas Corporation  
USA D-11  
1513' FNL, 2437' FEL  
SW/4, NE/4, Sec.13,T16S,R9E  
EMERY COUNTY, UTAH  
SURVEYED ELEVATION:5795'  
API# 43-015-30356  
DRILLING CONTRACTOR: Beeman Drilling. Rig#30

PAGE 6

### DRILLING-

Day 30. 7/30/99. Current Depth: 6029'. Present Operations: TOO H for loggers. Drilled in 24 hrs: 55'. Drilled from 5524' to present with 8-3/4" RR F4 tricone bit#9. 7:00am-1:30pm drill 5974'-5998'. Service rig and check BOP. 2:00-7:00pm drill 5998'-6016'. 7:00-10:00pm drill 6016'-6029'. TD at 6029' at 10:00pm, 7/29/99. Circulate and condition hole. Pump pill and POOH to 2500'. Short trip. TIH to bottom. Ream last 30' to bottom. Circulate and condition hole.

Day 31. 7/31/99. Current Depth: 6029'. Present Operations: Circulating on bottom. Pump pill and drop survey. TOO H. Waiting on loggers. R/up loggers, log well, r/down loggers. RIH with drill collars. Cut drill line. TIH with drill pipe. Wash and ream 30' to bottom. Circulate on bottom.

Day 32. 8/01/99. Current Depth: 6029'. Present Operations: R/D Dowell. Drilled from 5524'-6029' with 8-3/4" RR tricone bit#9. R/U. Lay down machine and start TOO H. Air compressor broke. S/D and repair. Finish laying down drill pipe and collars. R/up casing crew. RIH with 7" casing at 6015'. RD. Wash down last Jt. R/up Dowell. Pump 1<sup>st</sup> stage. Plug down at 11:24pm, 7/31/99. Circulating hole. Lost circulation. Mix and pump 20bbl pill with celoflakes and mud spacer. Pump 2<sup>nd</sup> stage. Plug down at 7:00am 8/01/99.

Day 33. 8/02/99. Current Depth: 6029'. Present Operations: Rig down. Rig down Dowell. N/down and set slips. Release rig at 1:00pm, 8/1/99. Rig down. No activity.

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 8/27/99

To: River Gas Corp.  
attn. John Hollingshead  
511 Energy Ctr. Blvd.  
Northport, AL 35476

Group #: 31962  
Lab #: 99-U007888  
Sample Desc: USA D-11 Navajo  
Depth 5069-5149.  
Sample Matrix: WATER  
Date Sampled: 8/17/99  
Date Submitted: 8/19/99

Time Sampled: 11:45  
Time Received: 9:45

## CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Alkalinity, as Bicarbonate, mg/L	412	1	8/19/99 11:00	SM 2320B	TSM
Alkalinity, as Carbonate, mg/L	< 2	2	8/19/99 11:00	SM 2320B	TSM
Alkalinity, as Hydroxide, mg/L	< 2	2	8/19/99 11:00	SM 2320B	TSM
Alkalinity, Total (CaCO <sub>3</sub> ), mg/L	338	1	8/19/99 11:00	SM 2320B	TSM
Chloride (D), mg/L	96,700	500	8/20/99 12:30	EPA 325.3	KA
Conductance, Specific, umhos/cm	163,000	1	8/20/99 15:45	EPA 120.1	KA
Resistivity, ohms	6.00	0.01	8/23/99 16:00	Sm18 2510A	KA
pH, units	7.0	0.1	8/19/99 10:15	EPA 150.1	LPS
Specific Gravity, mg/L	1.109	0.005	8/24/99 14:39	EPA 1311	EJB
Sulfate, mg/L	4,870	1000	8/23/99 13:00	EPA 375.4	TSM
Total Dissolved Solids, mg/L	166,000	250	8/23/99 15:00	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	540	0.2	8/23/99 10:51	EPA 200.7	EG
Iron (T), as Fe, mg/L	61	0.02	8/23/99 10:51	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	140	0.2	8/23/99 10:51	EPA 200.7	EG
Sodium (T), as Na, mg/L	43,000	1.5	8/23/99 10:51	EPA 200.7	EG

Approved By:

Ron Fuller, Laboratory Director

MRL = Report detection limit

Page 3

Eric Beumer, Laboratory Supervisor

(generic.rpt)

6100 SOUTH STRATLER  
SALT LAKE CITY UTAH 84107 8905  
801 262 7299 PHONE  
801 262 7378 FAX

## CHEMTECH-FORD

## ANALYTICAL LABORATORIES

To: River Gas Corp.  
attn. John Hoffingshead  
511 Energy Ctr. Blvd.  
Northport, AL 35476

Date: 8/27/99

Group #: 31962  
Lab #: 99-U007887  
Sample Desc: USA D-11  
Depth: ~~5562-5780~~  
Sample Matrix: WATER  
Date Sampled: 8/17/99  
Date Submitted: 8/19/99

*Kayenta-Winco  
Composite Sample*

Time Sampled: 18:00  
Time Received: 9:45

## CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Alkalinity, as Bicarbonate, mg/L	1,160	1	8/19/99 11:00	SM 2320B	TSM
Alkalinity, as Carbonate, mg/L	< 2	2	8/19/99 11:00	SM 2320B	TSM
Alkalinity, as Hydroxide, mg/L	< 2	2	8/19/99 11:00	SM 2320B	TSM
Alkalinity, Total (CaCO <sub>3</sub> ), mg/L	948	1	8/19/99 11:00	SM 2320B	TSM
Chloride (D), mg/L	105,000	500	8/20/99 12:30	EPA 325.3	KA
Conductance, Specific, umhos/cm	168,000	1	8/20/99 15:45	EPA 120.1	KA
Resistivity, ohms	6.00	0.01	8/23/99 16:00	Sm18 2510A	KA
pH, units	6.2	0.1	8/19/99 10:15	EPA 150.1	LPS
Specific Gravity, mg/L	1.093	0.005	8/24/99 14:39	EPA 1311	EJB
Sulfate, mg/L	3,930	1000	8/23/99 13:00	EPA 375.4	TSM
Total Dissolved Solids, mg/L	167,000	250	8/23/99 15:00	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	400	0.2	8/23/99 10:51	EPA 200.7	EG
Iron (T), as Fe, mg/L	50	0.02	8/23/99 10:51	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	140	0.2	8/23/99 10:51	EPA 200.7	EG
Sodium (T), as Na, mg/L	50,000	1.5	8/23/99 10:51	EPA 200.7	EG

Approved By:

Ron Fuller, Laboratory Director

MRL = Report detection limit

Page

1

*Eric Boehmer*  
Eric Boehmer Laboratory Supervisor

{generic.rpt}

6100 SOUTH STRATLER  
SALT LAKE CITY UTAH 84107 6905  
801 262 7299 PHONE  
801 262 7378 FAX

## **Statement of the Injection Pressures**

The proposed average and maximum injection pressures will be submitted to your office when they become available.



RIVER GAS CORPORATION

UTAH OPERATIONS  
1305 South 100 East  
Price, Utah 84501  
Bus. (435) 637-8876  
FAX (435) 637-8924

August 25, 1999

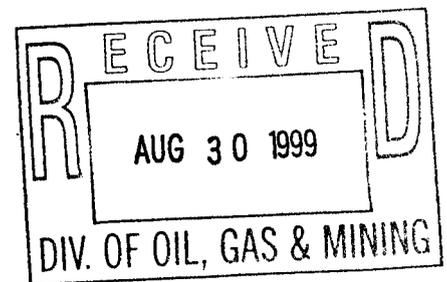
Mr. Gil Hunt  
State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Post Office Box 145801  
Salt Lake City, Utah 84114-5801

RE: Application for Injection Well-RGC D-11  
SW/4 NE/4 Section 13  
T16S, R9E, SLB&M, Emery County, Utah

Dear Mr. Hunt:

Enclosed in the original of the *Application for Injection Well* for the above named well. Included with the UIC FORM 1 is the following information:

- Exhibit "A"- Survey Plat of the Proposed Well Site;
- Exhibit "B"- Maps Depicting Nearby Wells and Land Ownership;
- Exhibit "C"- Statement Regarding Logs Performed on the Well;
- Exhibit "D"- Description of the Casing Program;
- Exhibit "E"- Description of the Fluid Types;
- Exhibit "F"- Statement of the Injection Pressures;
- Exhibit "G"- Statement of Geologic and Hydrologic Data;
- Exhibit "H"- Statement of Affidavit;



Thank you for your timely consideration of this application. Please feel free to contact me if you have any questions or find any deficiencies.

Sincerely,

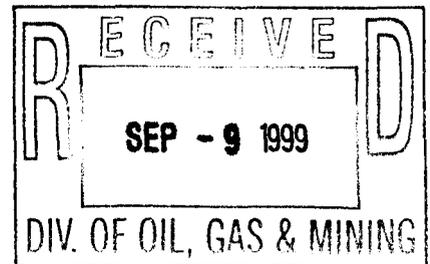
A handwritten signature in black ink that reads "Cal Hurtt". The signature is written in a cursive style with a long horizontal stroke extending to the right from the end of the name.

Cal Hurtt  
Development Manager

cc: Mr. John Baza, UDOGM  
Mr. Chuck Snure, Texaco  
Mr. Gee Lake, Jr., Dominion Resources  
Mrs. Tammie Butts, RGC  
Mr. Joey Stephenson, RGC  
Mr. John Hollingshead, RGC  
RGC Well File-RGC D-11



## RIVER GAS CORPORATION



511 Energy Center Boulevard  
Northport, Alabama 35473  
Phone (205) 759-3282  
Fax (205) 758-5309

September 07, 1999

Mr. Christopher J. Kierst  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas, & Mining  
1594 West North Temple St.  
Ste. 1210  
Box 145801  
Salt Lake City, Ut 84114-5801

Re: D-11 Disposal Well  
Emery County, Utah

Dear Mr. Kierst,

The above well is located in Section 13, Township 16 South, Range 9 East (SLB&M). The following data is being submitted as supplemental information as stipulated by the UIC Form 1.

### Summary of Events

On August 14, 1999, Ross Well Services rigged up to perform completion operations on this well. A 6 1/8" bit, 3 each 3 1/8" drill collars, and 2 7/8" tubing were run in the hole to drill out the cement diverting tool located at 4346 feet. After drilling up the DV tool, the bit continued in the hole until the bit tagged up at 5987 feet. The hole was circulated bottoms up twice.

On August 15, 1999, the tubing, drill collars, and bit were tripped out of the hole. The bit and drill collars were landed & nipped down. A bit & scraper were nipped up and run in the hole to 5977 feet. The hole was displaced with fresh water, and the work string was pulled out of the hole. Schlumberger wireline was rigged up and a cased hole di-pole sonic anisotropy log was performed. This log was performed due to tool difficulties during open-hole operations. While orientation was impossible, offset well logs were used to identify similarities and to help determine fracture direction. Next a cement bond log was performed. This log was run while holding a surface pressure of 1000 psi.. RGC, Schlumberger, and Ross personnel witnessed this activity and can attest that no appreciable pressure loss was realized during the bond logging operation.

On August 16, 1999, Schlumberger wireline services shot the following perforations through the 7" 26 # K-55 production casing (4" HEGS gun system, 4 spf, 90 deg. Phased, EH-.42", Pen.- 21.67"):

5080-5145 ft.	65ft.
5152-5276 ft.	124ft.
5283-5458 ft.	175ft.
5467-5516 ft.	49ft.
5524-5533 ft.	9ft.
5600-5724 ft.	124ft.
5734-5755 ft.	21ft.
	<hr/>
	567ft. x 4spf= 2,268 holes

On August 17, 1999, a packer & bridge plug were picked up and run in the hole to 5067ft. & 5149ft. respectively. The swab line was rigged up and 62 barrels was recovered. On the last runs, several samples were collected on the upper Navajo. The packer & bridge plug were moved to 5567 ft. & 5780 ft. respectively, straddling the Wingate formation. Again, the swab line was rigged up and 87 barrels of connate fluid was recovered. Samples from the upper Navajo & Wingate were packed on ice and sent to ChemTech-Ford Analytical Labs for water analyses.

On August 18, 1999, the packer & bridge plug were pulled out of the hole. The packer was inspected and run back in the hole to 5057 ft.. Dowell was rigged up to conduct an acid breakdown on the perforations. 2500 gallons of 15 % HCL acid were pumped with 2000 each 7/8" ball sealers injected during pumping. The average pump rate & pressure were 5 bpm & 2500 psi. respectively.

On August 19, 1999, the packer was released and pulled out of the hole. Northern Lights rigged up slickline unit and ran in hole with tandem quartz memory gauges to 5905 ft. The static BHP & temperature was 2315 psi. & 131 degrees F. respectively.

On August 20, 1999, Dowell rigged up to perform a step-rate test to determine the parting pressure of the rock. Approximately 2,700 barrels of 1% KCL fluid was pumped at rates ranging from 1 to 16 bpm. Upon completing the test, the well was shut-in for approximately seven days to record the fall-off pressures. The attached Stim-Lab report details the results of the step-rate test.

The following details specific points as mandated by the UIC form 1.

#### Step-Rate Test

Stim-Lab Inc., a Core Laboratories Company, reviewed the data gathered during the August 20, 1999 step-rate test conducted on D-11. The results of their findings determined the fracture parting pressure to be 4788 psi.(2230 psi. surface) at 5.5 bpm. This corresponds to a pressure gradient of .81 psi/ft.. To date, this is the highest gradient experienced within the project area.

A comparison of log characteristics of D-11 relative to D-3 was performed. The anhydrite barriers located above the Navajo in D-3 correlated to the D-11 well. This suggests the D-11 well has the same sealing mechanism noticed in the other eight disposal wells active within the Drunkards Wash Project. As stated in the Stim-Lab report, the D-11 stress regime appears to be in a compression state similar to the D-1 & D-3 wells with the remaining injection wells in a tension stress regime. This point is discussed within the Stim-Lab report, and the additional data gathered on D-11 will be helpful next spring when the Navajo study is updated.

7549.95

49,031.55

42,316.40  
2,700.5

Water Analysis of Navajo

Attached are test results from Chemtech-Ford Laboratories of Salt Lake City, Utah. The upper Navajo connate water had a TDS level of 166,000 mg/l. The Wingate connate water had a TDS level of 167,000 mg/l. These connate fluids are well above the 10,000 mg/l cut-off level.

Compatibility of Connate Fluids with Injection Fluids

Attached are test results from Stim-Lab Inc. of Duncan, Oklahoma stating that there should be no problems mixing our produced fluids with the connate fluid.

Casing Pressure Test

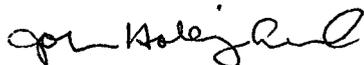
The 7 inch casing was pressure tested to a surface of 1000 psig as witnessed by RGC and Schlumberger Wireline personnel. This pressure was held while bond logging the well.

Requested Maximum Injection Pressure

River Gas Corporation respectfully request that the maximum injection pressure be established at **2250** psig. surface. As discussed earlier, the anhydrite barriers are present in D-11 which should safely provide containment as explained in greater detail in the enclosed Stim-Lab report. As with other disposal wells in the field, tracer surveys will be run periodically to insure the injection stream is contained within the permitted disposal horizons.

Please contact me at 205-759-3282 should you have any questions pertaining to the above information.

Most Cordially,



John Hollingshead  
Reservoir Engineer

**ANALYSIS OF THE STEP  
RATE TEST IN WELL D-11  
AT DRUNKARD'S WASH**

PREPARED FOR:

RIVER GAS CORPORATION  
511 ENERGY CENTER BLVD.  
NORTHPORT, ALABAMA 35476

PREPARED BY:

MICHAEL W. CONWAY  
STIM-LAB, INC.  
7406 NORTH HWY 81  
DUNCAN, OKLAHOMA 73534

P.O. NUMBER: VERBAL/JOHN HOLLINGSHEAD  
FILE NUMBER: SL

SEPTEMBER 6, 1999

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM SAMPLES AND LOGS WHICH WERE SUPPLIED. WE CANNOT, AND DO NOT, GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

## ANALYSIS OF THE STEP RATE INJECTION TEST CONDUCTED IN WELL D-11 AT DRUNKARDS WASH

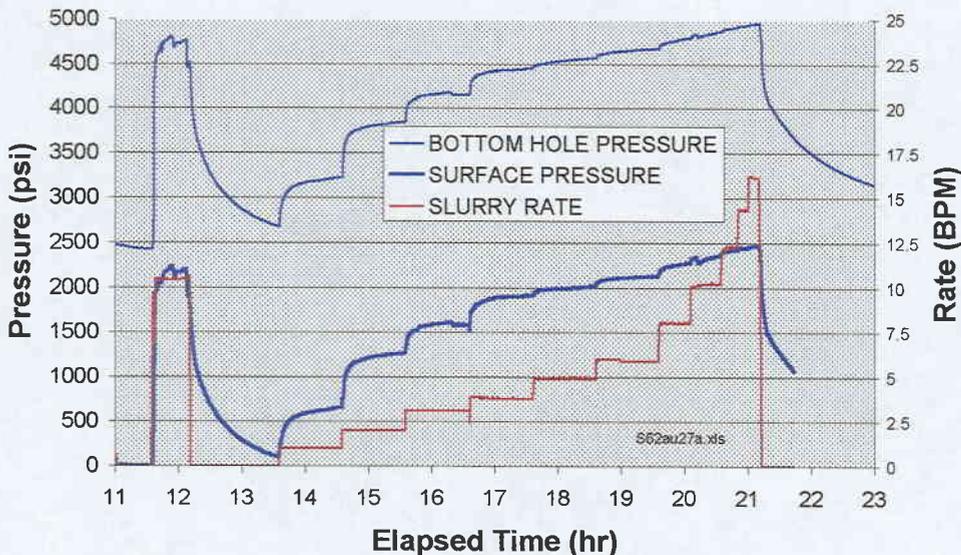
Well D-11 was completed in August 1999 and a step rate test was conducted on August 20, 1999 to determine the fracture parting pressure in the Navajo sandstone. Both the Navajo and Wingate sandstones were opened through perforations at the depths shown in Table 1.

*Table 1 - Perforation Placement in Well D-11*

Perforation Location (ft)
5080-5145
5152-5276
5283-5458
5467-5516
5524-5533
5600-5724
5734-5755

The well was acidized by setting a packer at 5057' and 2500 gal of 15% HCl was pumped at an average rate of 5 BPM with 2000 ball sealers. This change in the approach to breaking down the well was undertaken because of the previous problems with zonal isolation when separate acidizing stages were attempted. The data does not show dramatic ball action but since the pressure is mildly unstable at about 400 psi higher than the subsequent step rate test with water at the same rate, we must assume that the area taking fluid is changing because of ball action. Unfortunately, at this rate, about 5 holes could take the fluid being injected with less than 200 psi excess pressure and thus definitive statements about zonal coverage are not possible. Since 2268 holes were shot, there is a high probability that a majority of the perforations took at least some fluid.

A total of about 2700 barrels of water was then injected in a short, high rate breakdown and a step rate test. After the short injection at 10 BPM and shut-in, the step rate test was started at 1 BPM and continued up to the maximum rate. The surface and bottom hole recorded data from the injection phase is shown in Figure 1. The rates were varied from about 1 to a maximum of 16 BPM



*Figure 1: Rate and Pressure for Step Rate Test in D-11*

The initial pressure was 2319 psi at a gauge depth of 5905'. This is an initial pore pressure gradient of 0.393 which is somewhat higher than the 0.375 psi/ft which was seen in Well D-10 and almost the same as the 0.388 psi/ft gradient seen in D-3. The analysis of the pressure data from the downhole gauge shows a fracture extension pressure of 4788 psi which is a gradient of 0.81 psi/ft. The traditional rate-pressure plot is given in Figure 2. A comparison with Well D-3 shows that D-11 is in even a higher stress region with a fracture parting pressure equivalent to a surface injection pressure of 2230 psi. These two wells are in compression while all other wells are in tension. This is consistent with the stress model proposed for the Navajo Formation in Drunkards Wash.

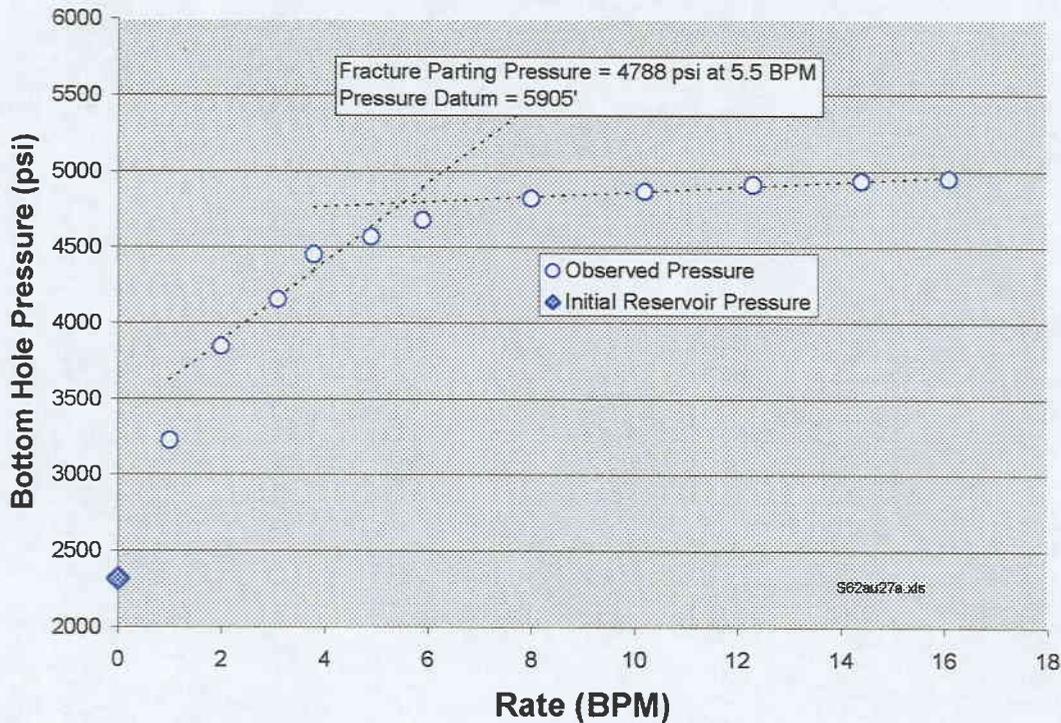
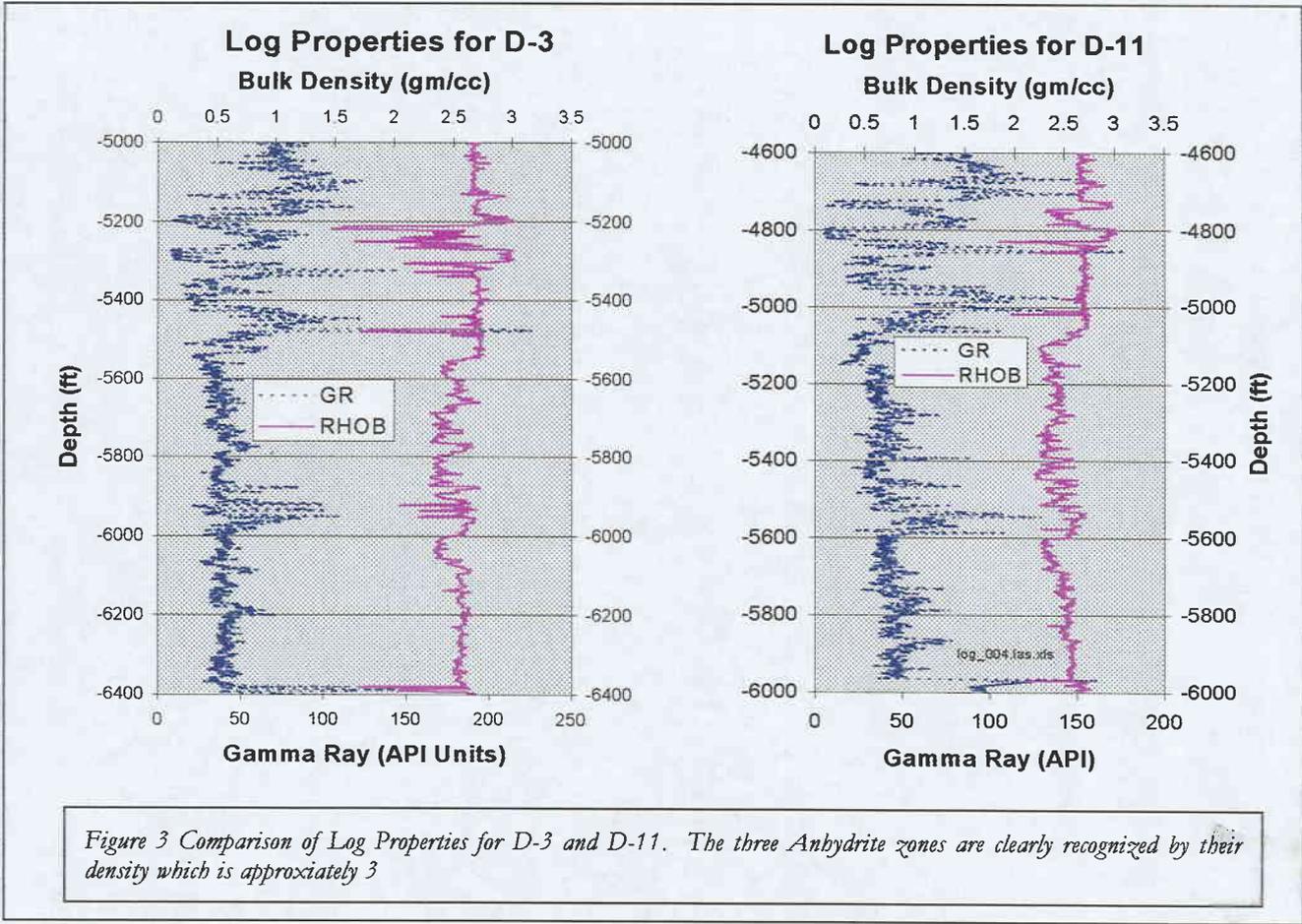


Figure 2: Analysis of Step Rate Test conducted in Well D-11

### CONCLUSION

The fracture extension gradient in Well D-11 is the highest that has been observed to date in the Navajo in Drunkards Wash. This confirms that the Navajo sandstone is in compression at this well location. Well logs confirm the existence of the upper thrust plate previously described. A comparison of the log characteristics to Well D-3 is shown for comparison in Figure 3. The high stress state in the target zone reflects the thrusting that has occurred in the anhydrite layer. Based on the previous analysis of the stress state in the Navajo sandstone and the upper thrust plate, we believe that surface injection pressures up to 3000 psi could be used without breaching the upper anhydrite barrier. The stress state in the target zone in this well is very high but so is the stress in the bounding layers. We recommend that an initial wellhead limit of 2250 psi be established for this well.



Michael W. Conway

September 6, 1999



Date: 8/27/99

To: River Gas Corp.  
 attn. John Hollingshead  
 511 Energy Ctr. Blvd.  
 Northport, AL 35476

Group #: 31962  
 Lab #: 99-U007887  
 Sample Desc: USA D-11  
 Depth 5567-5780.  
 Sample Matrix: WATER  
 Date Sampled: 8/17/99  
 Date Submitted: 8/19/99

Time Sampled: 18:00  
 Time Received: 9:45

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Alkalinity, as Bicarbonate, mg/L	1,160	1	8/19/99 11:00	SM 2320B	TSM
Alkalinity, as Carbonate, mg/L	< 2	2	8/19/99 11:00	SM 2320B	TSM
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Alkalinity, Total (CaCO3), mg/L	948	1	8/19/99 11:00	SM 2320B	TSM
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pH, units	6.2	0.1	8/19/99 10:15	EPA 150.1	LPS
Specific Gravity, mg/L	1.093	0.005	8/24/99 14:39	EPA 1311	EJB
Sulfate, mg/L	3,930	1000	8/23/99 13:00	EPA 375.4	TSM
Total Dissolved Solids, mg/L	167,000	250	8/23/99 15:00	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	400	0.2	8/23/99 10:51	EPA 200.7	EG
Iron (T), as Fe, mg/L	50	0.02	8/23/99 10:51	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	140	0.2	8/23/99 10:51	EPA 200.7	EG
Sodium (T), as Na, mg/L	50,000	1.5	8/23/99 10:51	EPA 200.7	EG

RECEIVED SEP 02 1999

Approved By:

Ron Fuller, Laboratory Director

MRL = Report detection limit

Page 1

*[Signature]*  
 Eric Bedmer Laboratory Supervisor

{generic.rpt}



Date: 8/27/99

To: River Gas Corp.  
 attn. John Hollingshead  
 511 Energy Ctr. Blvd.  
 Northport, AL 35476

Group #: 31962  
 Lab #: 99-U007888  
 Sample Desc: USA D-11 Navajo  
 Depth 5069-5149.  
 Sample Matrix: WATER  
 Date Sampled: 8/17/99  
 Date Submitted: 8/19/99

Time Sampled: 11:45  
 Time Received: 9:45

CERTIFICATE OF ANALYSIS

RECEIVED SEP 02 1999

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Alkalinity, as Bicarbonate, mg/L	412	1	8/19/99 11:00	SM 2320B	TSM
Alkalinity, as Carbonate, mg/L	< 2	2	8/19/99 11:00	SM 2320B	TSM
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Alkalinity, Total (CaCO3), mg/L	338	1	8/19/99 11:00	SM 2320B	TSM
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pH, units	7.0	0.1	8/19/99 10:15	EPA 150.1	LPS
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Calcium (T), as Ca, mg/L	540	0.2	8/23/99 10:51	EPA 200.7	EG
Iron (T), as Fe, mg/L	61	0.02	8/23/99 10:51	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	140	0.2	8/23/99 10:51	EPA 200.7	EG
Sodium (T), as Na, mg/L	43,000	1.5	8/23/99 10:51	EPA 200.7	EG

Approved By: Ron Fuller, Laboratory Director

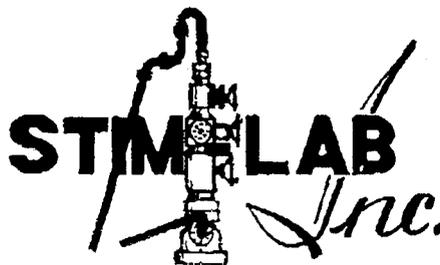
MRL = Report detection limit

Page 3

Eric Beumer  
 Eric Beumer, Laboratory Supervisor

{generic.rpt}

6100 SOUTH STRATLER  
 SALT LAKE CITY UTAH 84107 6905  
 801 262 7299 PHONE  
 801 262 7378 FAX

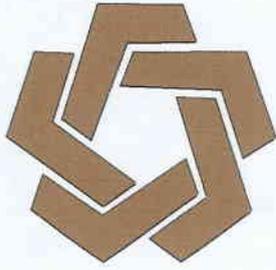


<b>TABLE I</b>		
<b>WATER ANALYSIS OF SUBMITTED SAMPLES</b>		
<b>River Gas Corporation</b>		
<b>Project #SL5612</b>		
<b>Connate &amp; Injection Water Scale Comparison</b>		
<b>Sample</b>	<b>Ratio</b>	<b>mg TSS/L</b>
D11 : D7	75:25	1251.0
D11 :D7	50:50	574.0
D11 : D7	25:75	457.0
D11 Alone	100.0	2624.0 *
D7 Alone	100.0	1493.0*
<b>Comments</b>		
Precipitate was not visible after sample stood overnight		
*All waters were filtered prior to running scaling tendency test. TSS (total Suspended solids) of the unfiltered injection waters is shown for comparison. The combination of Connate and injection water displayed a lower concentration of TSS. Therefore, there should not be a problem with combining the two fluids.		
** Based on previous similar studies, the solids found in this test are most likely calcium carbonate (CaCO <sub>3</sub> ).		

ANALYST Celeste LimamDATE 8/20/99

STIM-LAB is not currently an EPA or OWRB certified laboratory

A CORE LABORATORIES COMPANY



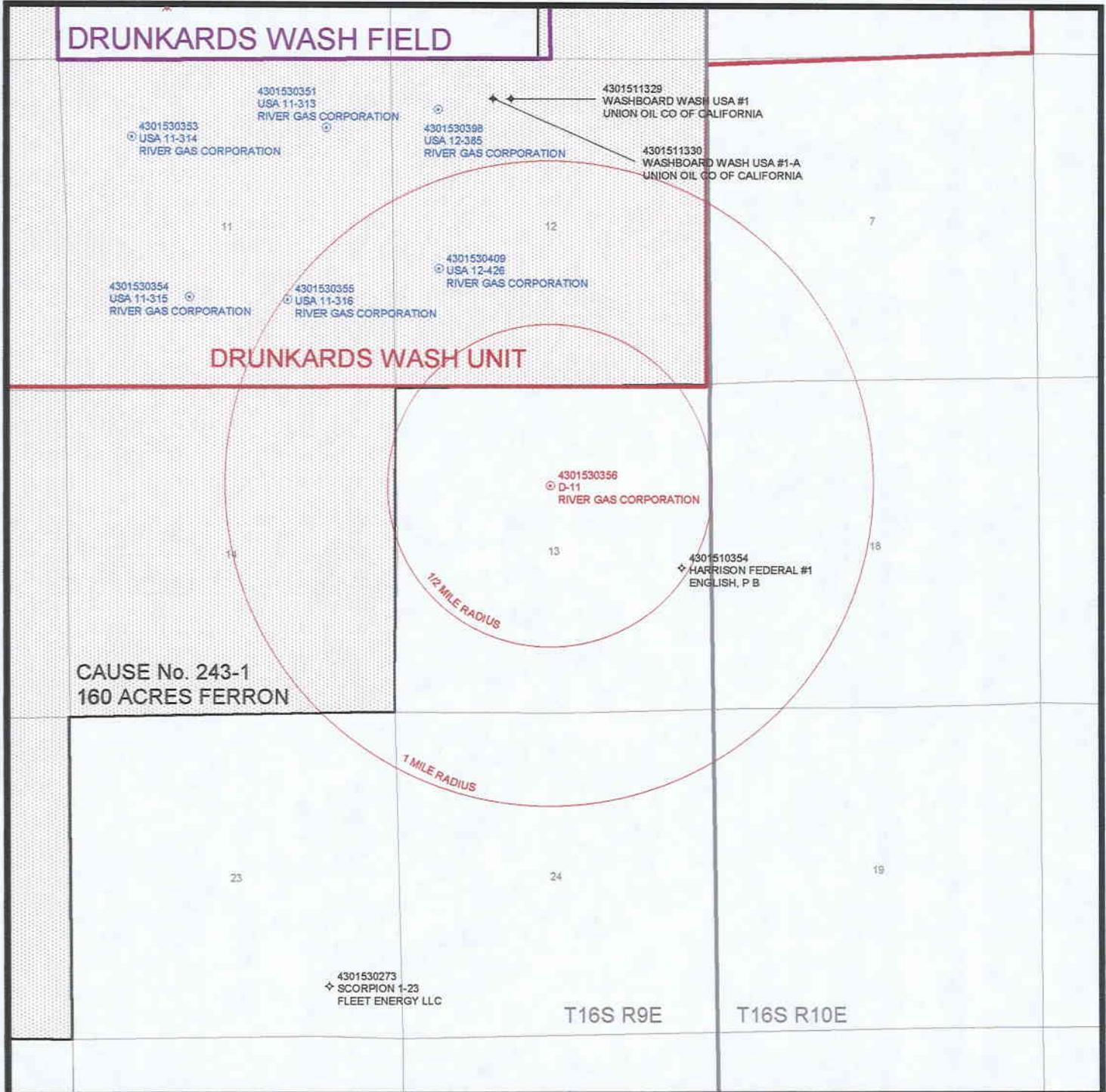
Division of Oil, Gas & Mining

OPERATOR: RIVER GAS CORPORATION (N1605)

FIELD: UNDESIGNATED (002)

SEC. 13 TWP 16 S RNG 9 E

COUNTY: EMERY UNIT: NONE CAUSE No: NONE



PREPARED  
DATE: 2-SEP-1999



## RIVER GAS CORPORATION

511 Energy Center Boulevard  
Northport, Alabama 35473  
Phone (205) 759-3282  
Fax (205) 758-5309

September 14, 1999

Mr. Chris Kierst  
Utah Division of Oil, Gas, and Mining  
1594 West North Temple  
Salt Lake City, Utah 84114

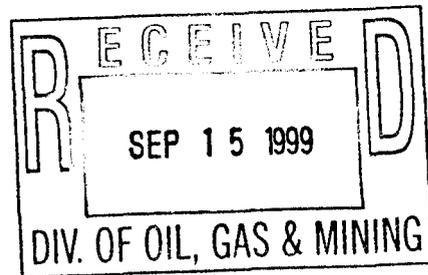
Dear Mr. Kierst:

As you may remember, last year a cross-section of Drunkards Wash injection wells was provided for your files. Please find enclosed an additional cross-section that incorporates our newest disposal wells, RGC D-10 and USA D-11.

Please call me if you have any questions.

Sincerely,

  
Terry Burns



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

---ooOoo---

IN THE MATTER OF THE :  
APPLICATION OF RIVER GAS CORPORATION  
(operator)

NOTICE OF AGENCY  
ACTION

CAUSE NO. UIC- 246

FOR ADMINISTRATIVE APPROVAL :

OF THE RGC D-11 SW 1/4 NE 1/4 :

WELL :

LOCATED IN SECTIONS 13 :

TOWNSHIP 16 SOUTH ,

RANGE 9 EAST ,

S.L.M. or U.S.M. ,

EMERY COUNTY, UTAH,

<sup>A</sup>  
AS CLASS II INJECTION WELL

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of (operator - same as above) for administrative approval of the (same as above) wells, located in Sections (same as above), Township (same as above), Range (same as above), S.L.M. or U.S.M., (same as above) County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The NAVAJO, KAYENTA + WINGATE Formation<sup>s</sup> will be selectively perforated for water injection. The maximum injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by Inland Production Company.

RGC  
Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 15 day of SEPTEMBER 1999.

**GEO SCOUT LAND & TITLE COMPANY**

P.O. Box 11126 • SALT LAKE CITY, UTAH 84147 • (801) 364-7773

September 17, 1999

Mr. John Baza, Associate Director, Oil & Gas  
Utah Division of Oil, Gas & Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: *River Gas Corporation*  
*RGC D-11 Injection Well*  
*Section 13, Township 16 South, Range 9 East, SLM*  
*Emery County, Utah*  
*API No. 43-015-30356*

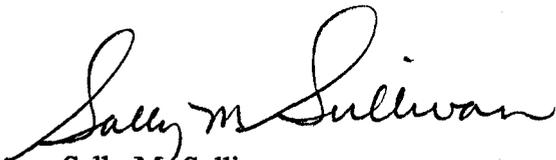
Dear Mr. Baza:

Reference is made to the pending application for injection well, for the captioned well filed by our client River Gas Corporation.

Enclosed are Affidavits fulfilling the requirements as set forth in Utah Admin. Code Rule R649-5-1 and copies of Exhibits "A" and "B" as described in said Affidavits.

If you have any further questions or concerns regarding this application, please do not hesitate to call either me or Joseph L. Stephenson of River Gas Corporation at (205) 759-3282. Thank you for your attention to this matter.

Sincerely,



Sally M. Sullivan  
GeoScout Land & Title Company

enclosures

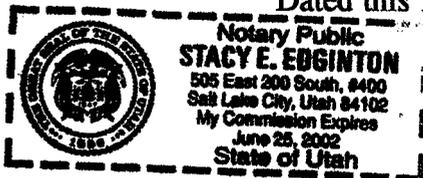
**AFFIDAVIT**

STATE OF UTAH )  
 :SS  
COUNTY OF SALT LAKE )

Thomas P. Sullivan, being duly sworn upon his oath, deposes and states:

1. I am the President of GeoScout Land & Title Company ("GeoScout").
2. GeoScout is a company that specializes in mineral abstracts and mineral title searches. I have over twenty years experience in searching the real estate records of all Utah counties relating to oil, gas and other mineral title.
3. Based solely on my review of the records of the Emery County Recorder as indexed in the abstract (tract) indices against the S½NE¼, N½SE¼, SW¼SE¼ of Section 13, Township 16 South, Range 9 East, SLM, and the SW¼NW¼ of Section 18, Township 16 South, Range 10 East, SLM, I have determined the parties listed on Exhibit "B" include the "owners", "operators" and/or "surface owners" of the said S½NE¼, N½SE¼, SW¼SE¼ of Section 13 and the SW¼NW¼ of Section 18 (as those terms are utilized in Utah Admin. Code Rule R649-5-1) within the ½ mile of the proposed River Gas Corporation D-11 Well, on September 13, 1999.
4. The matters state herein are true of my own knowledge.

Dated this 17th day of September, 1999.



*Thomas P. Sullivan*  
 \_\_\_\_\_  
 THOMAS P. SULLIVAN

Subscribed, sworn and acknowledged to and by Thomas P. Sullivan before me this 17th day of September, 1999.

*Stacy E. Edginton*  
 \_\_\_\_\_  
 NOTARY PUBLIC

## AFFIDAVIT

STATE OF UTAH            )  
                                  :SS  
COUNTY OF SALT LAKE)

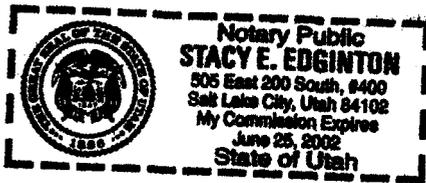
Sally M. Sullivan, being duly sworn upon her oath, deposes and states:

1. I am the Vice President of GeoScout Land & Title Company ("GeoScout").
2. GeoScout is a company that specializes in mineral abstracts and mineral title searches, including searches of the oil and gas records at the United States Department of the Interior, Bureau of Land Management. I have performed such searches on behalf of GeoScout's clients for over nine years.
3. Based solely upon the following:
  - a. Drilling Title Opinion dated October 30, 1998 (effective September 1, 1998) covering Federal Lease UTU-77351 and all of Section 12, Township 16 South, Range 9 East, SLM, among other lands, prepared by Pruitt, Gushee & Bachtell and provided to me by River Gas Corporation, as supplemented by my search of the Bureau of Land Management records, covering Federal Lease UTU-77351, and all of Section 12, Township 16 East, SLM, on September 9, 1999;
  - b. My search of the Bureau of Land Management records covering Federal Lease UTU-65300, and the N $\frac{1}{2}$ , SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ , of Section 13, Township 15 South, Range 9 East, SLM, among other lands, from lease inception, on September 9, 1999; and
  - c. My search of the Bureau of Land Management records covering Federal Lease UTU-78410, and Lot 1 (NWNW), of Section 18, Township 16 South, Range 10 East, SLM, among other lands, from lease inception, on September 9, 1999,

I have determined the parties listed on the attached Exhibit "B" to be the "owners", "operators" and/or "surface owners" of said Section 12, the N $\frac{1}{2}$ , SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$  of said Section 13 and Lot 1 (NWNW) of said Section 18 (as those terms are utilized in the Utah Admin. Code Rule R649-5-1) within the  $\frac{1}{2}$  mile of the proposed River Gas Corporation D-11 Well, on September 9, 1999.

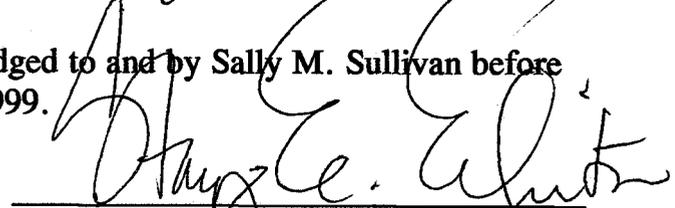
4. Attached hereto as Exhibit "A" is a map showing the location of the proposed Disposal Well D-11, prepared by Mr. Joseph L. Stephenson of River Gas Corporation.
5. Exhibit "B" is a listing of parties to which I mailed via certified mail on September 17, 1999, a copy of the Application Form "UIC Form 1" and a copy of the said Exhibit "A". I also sent a transmittal letter outlining the intent of River Gas Corporation to seek approval to use the well as an injection well, providing the address and telephone number for the Division of Oil, Gas & Mining in the event the party had a question regarding the permitting of said well, and offering to provide said parties with additional information associated with the Application for Injection Well if the party made a written request to either GeoScout or RGC.
6. The matters stated herein are true of my own knowledge.

Dated this 17<sup>th</sup> day of September, 1999.



  
SALLY M. SULLIVAN

Subscribed, sworn and acknowledged to and by Sally M. Sullivan before me this 17<sup>th</sup> day of September, 1999.

  
NOTARY PUBLIC

**Exhibit "B"**

Page 1 of 3

River Gas Corporation  
Proposed Disposal Well D-11  
SW¼NE¼ of Section 13  
Township 16 South, Range 9 East, SLM  
Emery County, Utah

Operators, Owners, Surface Owners within a ½ mile radius  
with last address as shown by the reviewed records

United States Department of Interior  
Bureau of Land Management  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999

Utah Department of Transportation  
4501 South 2700 West  
Salt Lake City, Utah 84119

CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999

River Gas Corporation  
Attn. Mr. Joseph L. Stephenson  
Vice President - Land  
511 Energy Center Boulevard  
Northport, Alabama 35473

NOT APPLICABLE;  
RGC ORIGINATED  
NOTICES TO OTHER  
PARTIES

Texaco Exploration and Production, Inc.  
Attn. Mr. Chuck Snure  
Denver Division  
4601 DTC Boulevard  
Denver, Colorado 80237

CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999

Dominion Reserves - Utah, Inc.  
901 East Byrd  
Richmond, VA 23219

CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999

Kenneth J. and Cherie Brown  
P.O. Box 785  
Wellington, Utah 84542-0785

CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999

Emery County  
Emery County Courthouse  
Castle Dale, Utah 84513

CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999

June Spratling Oliveto, Trustee of the  
June Spratling Oliveto Trust, dated March 9, 1992  
795 North 1400 East  
Price, Utah 84501

CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999

**Exhibit "B"**

**Page 2 of 3**

**River Gas Corporation**

**Proposed Disposal Well D-11**

**SW¼NE¼ of Section 13**

**Township 16 South, Range 9 East, SLM**

**Emery County, Utah**

**Operators, Owners, Surface Owners within a ½ mile radius  
with last address as shown by the reviewed records**

**June Spratling Oliveto, Trustee of the  
Sam Louis Oliveto Marital Trust  
795 North 1400 East  
Price, Utah 84501**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Marilyn Robertson and Judy Hodson  
Co-trustees of the  
Sam Louis Oliveto Family Trust  
160 East 300 North  
Price, Utah 84501-2566**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Dominic Oliveto  
1354 Parkway  
Price, Utah 84501**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Judith Hodson  
c/o Marilyn Robertson  
160 East 300 North  
Price, Utah 84501-2566**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Marilyn Robertson  
160 East 300 North  
Price, Utah 84501-2566**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Maude Davis  
475 West Mill Road  
Ferron, Utah 84523**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**O Varden and Lucille Willson,  
P.O. Box 206  
Elmo, Utah 84521-0206**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**J.A. and Conde Harrison,  
445 South 700 West  
Provo, Utah 84601**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Exhibit "B"**

**Page 3 of 3**

**River Gas Corporation**

**Proposed Disposal Well D-11**

**SW¼NE¼ of Section 13**

**Township 16 South, Range 9 East, SLM**

**Emery County, Utah**

**Operators, Owners, Surface Owners within a ½ mile radius  
with last address as shown by the reviewed records**

**Levi B. and Joy C. Lott  
338 South 4<sup>th</sup> West  
Tooele, Utah 84074**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Pacificorp dba Utah Power & Light  
201 South Main Street, #2200  
Salt Lake City, Utah 84140-0002**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Bill and Jenni Fasselin  
P.O. Box 55  
Elmo, Utah 84521-0055**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Rodney Lott  
P.O. Box 98  
Elberta, Utah 84626-0098**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

**Rodney G. and L. Christine Hooley  
Emery Star Route  
Price, Utah 84501**

**CERTIFIED MAIL  
POSTMARKED:  
September 17, 1999**

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR River Gas Corporation  
ADDRESS 1305 South 100 East  
Price, Utah 84501

Well name and number: RGC D-11

Field or Unit name: undesignated Lease no. Patented

Well location: QQ SW/4NE section 13 township 16 range 19 county Emery

Is this application for expansion of an existing project? . . . Yes  No

Will the proposed well be used for: Enhanced Recovery? . . . Yes  No   
Disposal? . . . . . Yes  No   
Storage? . . . . . Yes  No

Is this application for a new well to be drilled? . . . . . Yes  No

If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes  No

Date of test: 8/15/99

API number: 43-015-30356

Proposed injection interval: from 5080' to 5734'

Proposed maximum injection: rate 14,400 Bbpd pressure 2,000 psig

Proposed injection zone contains  oil,  gas, and/or  fresh water within 1/2 mile of the well.

**IMPORTANT:** Additional information as required by R615-5-2 should accompany this form.

List of Attachments: See Cover Letter

I certify that this report is true and complete to the best of my knowledge.

Name Cal Hurtt  
Title Development Manager  
Phone No. (435)637-8876

Signature \_\_\_\_\_  
Date August 25, 1999

(State use only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:

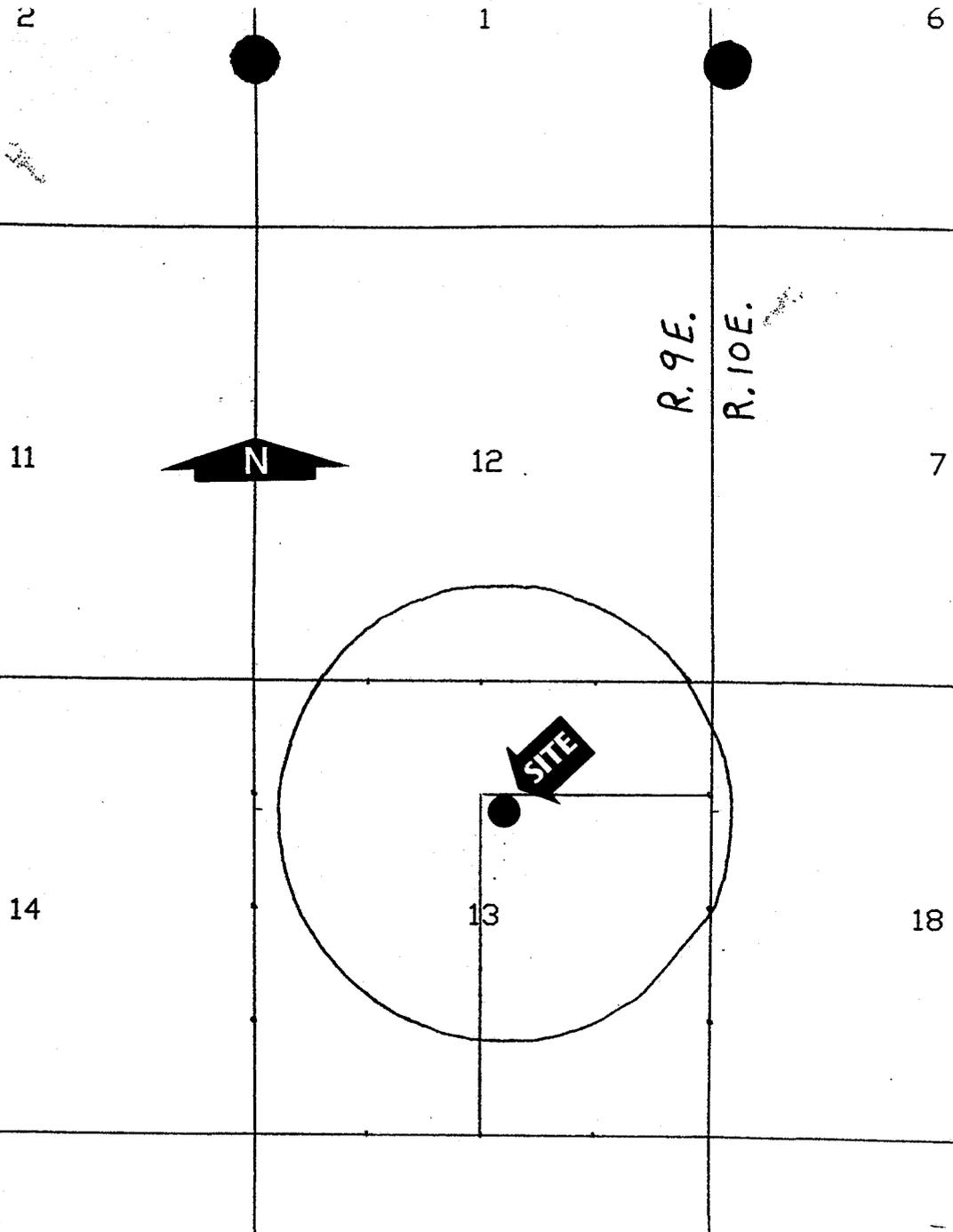


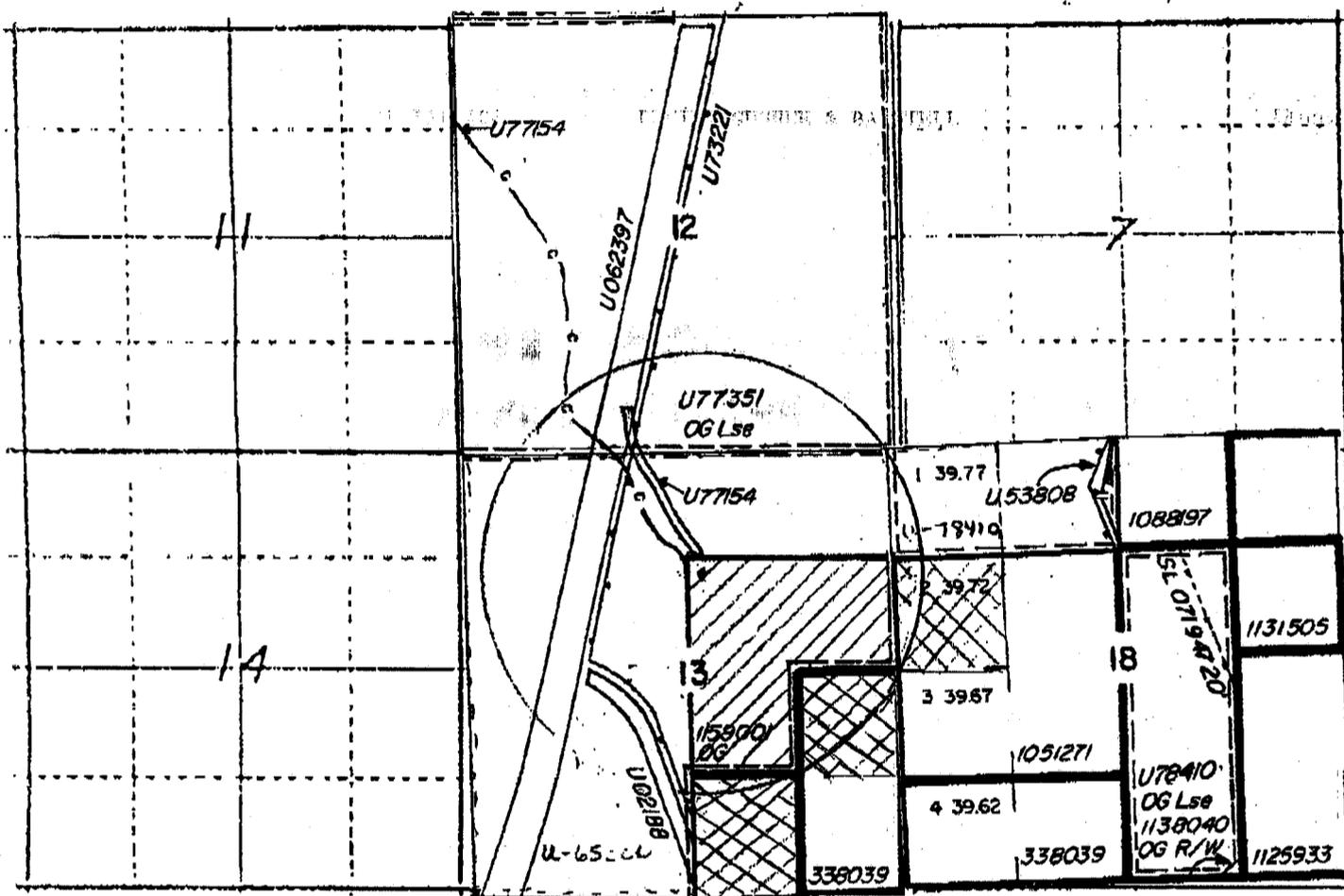
EXHIBIT "A"  
 PAGE \_\_\_\_\_ OF \_\_\_\_\_  
 River Gas Corporation  
 Proposed Disposal Well D-11  
 SW/NE, Section 13, T16S, R9E, S1M  
 Emery County, Utah  
 Operators, Owners, Surface Owners Within 1/2 Mile Radius  
 Exhibit prepared/by:

*Joseph L. Stephenson*  
 Joseph L. Stephenson, September 7, 1999

LAND STATUS PLAT

Township 16S Range 9E, 51M Meridian: Emery County: \_\_\_\_\_

PROJECT: D-11 Injection Well Date: \_\_\_\_\_



LEGEND

LEGEND

	U-77351 (Sec 12: all)		
	U-65300 (Sec 13: N 1/2, SW, ← NWSE)		
	U-78410 (Sec 18: NWNW)		
	Fee Surface & Minerals ← (Sec 13: SWSE, NESE, Sec 18: to		
	Fee Surface / BLM Minerals ← (Sec 13: S 1/2 NE, NESE)		
	BLM Surface & Minerals:		
	all of Sec 12; Sec 18: NWNW and Sec 13: W 1/2, N 1/2 NE		

GEO SCOUT LAND & TITLE COMPANY

P. O. Box 11128 • SALT LAKE CITY, UTAH 84147 • (801) 384-7773

*Sally Sullivan*

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM - FORM 6

OPERATOR River Gas Corporation  
 ADDRESS 1305 South 100 East  
Price, UT 84501

OPERATOR ACCT. NO. N

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	1256A	4300730512	Utah 17-240	NE/SW	17	15S	9E	Carbon	6/18/1999	
WELL 1 COMMENTS: <i>991013 entity added; Drunkards wash w/non P.A. KDR</i> <b>CONFIDENTIAL</b>											
A	99999	1257D	4300730430	Utah 06-223	NE/SE	06	15S	9E	Carbon	8/26/1999	
WELL 2 COMMENTS: <i>991013 entity added; Drunkards wash w/non P.A. KDR</i> <b>CONFIDENTIAL</b>											
A	99999	1257I	4300730513	Utah 17-241	NW/SE	17	15S	9E	Carbon	6/21/1999	
WELL 3 COMMENTS: <i>991013 entity added; Drunkards wash w/non P.A. KDR</i> <b>CONFIDENTIAL</b>											
		→ 1256A	4300730580	Utah 09-412	SW/SW	09	15S	10E	Carbon	8/31/1999	
WELL 4 COMMENTS: <i>entity already added. KDR</i> <b>CONFIDENTIAL</b>											
A	99999	1257A	4601530356	D11	SW/NE	13	16S	9E	Emery	7/1/1999	
WELL 5 COMMENTS: <i>991013 entity added. KDR</i>											

- 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.

Frankie Hathaway  
 Signature  
 Administrative Assistant 9/17/99  
 Title Date  
 Phone No. (435)637-8876



RIVER GAS CORPORATION

UTAH OPERATIONS  
1305 South 100 East  
Price, Utah 84501  
Bus. (435) 637-8876  
FAX (435) 637-8924

September 24, 1999

Mr. Mike Hebertson  
State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
SLC, Utah 84114-5801

RE: RGC D-11  
Sec. 13, T16S, R9E, SLB & M, Emery County, Utah

Dear Mr. Hebertson:

This letter is in response to your request for information regarding the RGC D-11.

Enclosed please find a more accurate exhibit "D" for the RGC D-11 injection application, and a Well Completion Report.

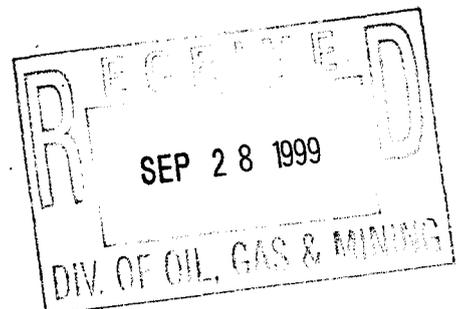
Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads 'Cal Hurtt'.

Cal Hurtt  
Development Manager

cc: Mrs. Tammie Butts, RGC  
RGC Well File





**RIVER GAS CORPORATION**

**511 Energy Center Boulevard  
Northport, Alabama 35473  
Phone (205) 759-3282  
Fax (205) 758-5309**

October 5, 1999

Mr. Mike Hebertson  
State of Utah Division of Oil and Gas Mining  
1594 W North Temple  
Salt Lake City, UT 84114-5801

Dear Mr. Hebertson:

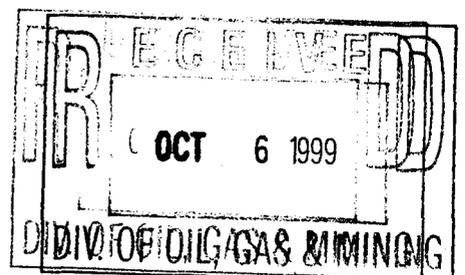
Attached you will find the information you requested regarding USA D-11.

If you have any questions, please feel free to give me a call.

Very truly yours,

A handwritten signature in cursive script that reads "Tammy P. McAteer".

Tammy P. McAteer  
Administrative Assistant



**R649-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.**

**COMMENTS**

1. Injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.

2. The application for an injection well shall include a properly completed UIC Form 1 and the following:

2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.

2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.

2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

2.6. A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.

2.8. The proposed average and maximum injection pressures.

2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

2.10. Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.

2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.

2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well.

2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.

- 2.1 OKAY FOR PLAT OKAY FOR RADIUS 1/2 MILE WELLS & LAND OWNER SHIP.
- 2.2 OK
- 2.3 OK BOND 90% - 100% BONDING 90' ABOVE
- 2.4 OKAY
- 2.5 OKAY
- 2.6 OKAY
- 2.7 #1 OKAY #2 SUBMITTED #3 OKAY
- 2.8 OKAY
- 2.9 DONE OKAY
- 2.10 OKAY
- 2.11 OKAY
- 2.12 OKAY

INJECTION WELLS TO BE 50 TH ANNUAL REPORTS BONDING 100%

2,559 WATER

5080'  
2230  
2200.5  
4430.5

2229.5  
2230  
4459.5

1.6 gal/foot

8,128 gal

4790.0  
4459.5  
329.5

8.441

4780  
4430.5  
349.5

3537.63 HYDRASTATIC

2211.02  
2,230  
14441

2219.9  
2230.0  
4449.9

2218.9  
2230.0  
2248.9  
2531.1

4790.  
4449.9  
331.1

# RGC

## RIVER GAS CORPORATION

UTAH OPERATIONS

1305 South 100 East

Price, Utah 84501

Bus. (435) 637-8876

FAX (435) 637-8924

October 4, 1999

Mike Hebertson  
DOGM  
1594 West North Temple  
SLC, Utah 84114-5801

Dear Mr. Hebertson:

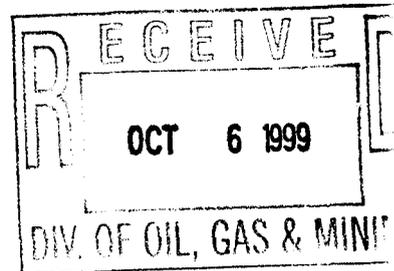
Enclosed please find the Cement Bond Log for the D11 file.

Please let me know if there is anything else you need.

Thank You,



Frankie Hathaway  
Administrative Assistant



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

UTU-65300

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other Injection  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

7. UNIT AGREEMENT NAME

Drunkards Wash UTU-67921X

2. NAME OF OPERATOR

RIVER GAS CORPORATION

8. FARM OR LEASE NAME

RGC

3. ADDRESS OF OPERATOR

1305 South 100 East, Price, UT 84501 (435) 637-8876

9. WELL NO.

Disposal #11

4. LOCATION OF WELL (Report clearly and in accordance with any State requirements)

At surface 1513' FNL, 2437' FEL  
 At top prod. interval reported below

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
 SW/NE, Sec 13, T16S, R09E, SLB&M

14. API NO. 43-007-30356 DATE ISSUED 6/24/99

12. COUNTY

Emery

13. STATE

Utah

15. DATE SPUDDED 7/1/99 16. DATE T.D. REACHED 7/29/99 17. DATE COMPL. (Ready to prod. or Plug & Abd.) 8/17/99 18. ELEVATIONS (DF, REB, RT, GR, ETC.) GR 5795' 19. ELEV. CASINGHEAD N/A  
 20. TOTAL DEPTH, MD & TVD 6029'' 21. PLUG BACK T.D., MD & TVD \_\_\_\_\_ 22. IF MULTIPLE COMPL., HOW MANY N/A 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS to TD \_\_\_\_\_ CABLE TOOLS N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD OR TVD)

Navajo Top 5080' and Wingate Bottom 5755'

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction, Laterolog, SFF, GR, Caliper, Comp Density, & Neutron

27. WAS WELL CORED YES  NO  (Submit analysis)  
 DRILL STEM TEST YES  NO  (See reverse side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
13 3/8"	48#	352'	17.5"	450 sxs Class G, 2% CaCl, 1/4#/sx D-29	
9 5/8"	36#	2551'	12 1/4"	410 sxs Class G, 12% D20, 1% D79, 2% D46, 5% D44 140 sxs 10-1 RFC	
7"	26#	6015'	8 3/4"	115 sxs 50/505 POZ, 175 sxs Class G, 85 sxs 10-1 RFC, 70 sxs 10-1 RFC, tail	

29. LINER RECORD

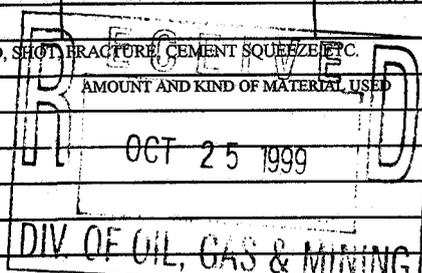
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
							N/A

31. PERFORATION RECORD (Interval, size and number)

Navajo Sandstone: 5080-5145, 5152-5276, 5283-5450  
 Kayenta Formation: 5450-5458, 5467-5516, 5524-5533  
 Wingate Sandstone: 5600-5724, 5734-5755

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED



33. PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) Injection  
 DATE OF TEST \_\_\_\_\_ HOURS TESTED \_\_\_\_\_ CHOKE SIZE \_\_\_\_\_ PROD'N FOR TEST PERIOD \_\_\_\_\_ OIL--BBL. \_\_\_\_\_ GAS--MCF. \_\_\_\_\_ WATER--BBL. \_\_\_\_\_ GAS-OIL RATIO \_\_\_\_\_  
 FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE \_\_\_\_\_ OIL--BBL. \_\_\_\_\_ GAS--MCF. \_\_\_\_\_ WATER--BBL. \_\_\_\_\_ OIL GRAVITY - API (CORR.) \_\_\_\_\_

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

TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS

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

SIGNED Jean Semborski TITLE Permitting Specialist DATE October 22, 1999

**NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-246**

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

IN THE MATTER OF THE  
APPLICATION OF RIVER GAS  
CORPORATION FOR  
ADMINISTRATIVE APPROVAL OF  
THE RGC D-11 WELL LOCATED IN  
SECTION 13, TOWNSHIP 16 SOUTH,  
RANGE 9 EAST, SW NE, S.L.M.,  
EMERY COUNTY, UTAH, AS A  
CLASS II INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED  
MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of River Gas Corporation for administrative approval of the RGC D-11 well, located in Section 13, Township 16 South, Range 9 East, SW NE, S.L.M., Emery County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The Navajo, Kayenta & Wingate Formations will be selectively perforated for water injection. The maximum injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by River Gas Corporation.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 6th day of October, 1999.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
-s- John R. Baza  
Associate Director

Published in the Sun Advocate October 12, 1999.

FORM 9

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

5. Lease Designation and Serial Number:  
**Fee Ownership**

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

7. Unit Agreement Name:  
**N/A**

8. Farm or Lease Name:  
**Fee Ownership**

9. Well Number:  
**D-11**

10. Field or Pool, or Wildcat:  
**Undesignated**

11. Oil/Dry, Section, Township, Range, Meridian:  
**SW/4, NE/4 Section 13, T16S, R09E, SLB&M**

12. County:  
**Carbon**

13. State:  
**UTAH**

14. Distance in miles and direction from nearest town or post office:  
**11.7 miles southwest of Price**

15. Distance to nearest property or lease line (feet): **1513'**

16. Number of acres in lease:  
**1988.41 acres**

17. Number of acres assigned to this well:  
**N/A**

18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): **none'**

19. Proposed Depth:  
**6100'**

20. Rotary or cable tools:  
**Rotary**

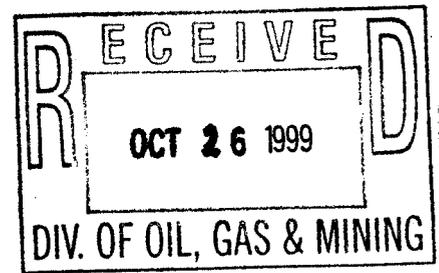
21. Elevations (show whether DF, RT, GR, etc.):  
**5795' GR**

22. Approximate date work will start:  
**June 1999**

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	40'	
17-1/2"	13-3/8"	48#/ft	320'	"see attachment "D"
12-1/2"	9-5/8"	36 & 40 #/ft	2500'	see attachment "D"
8-3/4"	7"	26.29 & 32 #/ft	6100'	see attachment "D"

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



24. Name & Signature: Jean Semborski *Jean Semborski* Title: Permit Specialist Date: 10/26/99

(This space for state use only)

API Number Assigned: \_\_\_\_\_

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

FORM 8

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.  
**FEE**

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

7. UNIT AGREEMENT NAME  
**Drunkards Wash UTU-67921X**

8. FARM OR LEASE NAME  
**FEE**

9. WELL NO.  
**Disposal #11**

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

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA  
**SW/NE, Sec 13, T16S, R09E, S1B&M**

12. COUNTY  
**Emery**

13. STATE  
**Utah**

1a. TYPE OF WELL:  
 OIL WELL  GAS WELL  DRY  Other Injection

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

2. NAME OF OPERATOR  
**RIVER GAS CORPORATION**

3. ADDRESS OF OPERATOR  
**1305 South 100 East, Price, UT 84501 (435) 637-8876**

4. LOCATION OF WELL (Report clearly and in accordance with any State requirements)  
 At surface **1513' FNL, 2437' FEL**  
 At top prod. interval reported below

14. APPLIC. NO. **43-007-30356** DATE ISSUED **6/24/99**

15. DATE SPUDDED **7/1/99** 16. DATE T.D. REACHED **7/29/99** 17. DATE COMPL. (Ready to prod.) **8/17/99** 18. ELEVATIONS (DF, REB, RT, GR, ETC.) **GR 5795'**

20. TOTAL DEPTH, MD & TVD **6029''** 21. PLUG BACK T.D., MD & TVD \_\_\_\_\_ 22. IF MULTIPLE COMPL., HOW MANY **N/A** 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS **to TD** CABLE TOOLS **N/A**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD OR TVD)  
**Navajo Top 5080' and Wingate Bottom 5755'**

25. TYPE ELECTRIC AND OTHER LOGS RUN  
**Dual Induction, Laterolog, SFF, GR, Caliper, Comp Density, & Neutron**

27. WAS WELL CORED YES  NO  DRILL STEM TEST YES  NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
13 3/8"	48#	352'	17.5"	450 sxs Class G, 2% CaCl, 1/4#/sx D-29	
9 5/8"	36#	2551'	12 1/4"	410 sxs Class G, 12% D20, 1% D79, 2% D46, 5% D44 140	sxs 10-1 RFC
7"	26#	6015'	8 3/4"	115 sxs 50/50S POZ, 175 sxs Class G, 85 sxs 10-1 RFC, 70	sxs 10-1 RFC,
				tail	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
							N/A

31. PERFORATION RECORD (Interval, size and number)

Navajo Sandstone: 5080-5145, 5152-5276, 5283-5450  
 Kayenta Formation: 5450-5458, 5467-5516, 5524-5533  
 Wingate Sandstone: 5600-5724, 5734-5755

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping--etc and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) **Injection**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PRODN. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO

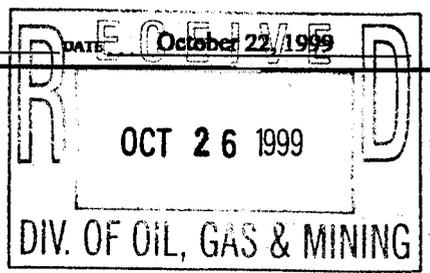
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS \_\_\_\_\_

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

SIGNED **Jean Semborski** *Jean Semborski* m.e. Permitting Specialist

See Spaces for Additional Data on Reverse Side



WELL NUMBER: D-11

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	
Ferron	1293'				
Tunuck	1530'				
Dakota	1908'				
Cedar Mountain	1960'				
Morrison	2760'				
Summerville	3272'				
Curtis Sandstone	3682'				
Entrada	3834'				
Carnel	4493'				
Navajo Sandstone	5062'				
Kayenta	5450'				
Wingate	5601'				
Chinle Shale	5967'				



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

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

October 27, 1999

River Gas Corporation  
1305 South 100 East  
Price, Utah 84501

Re: Utah D-11, Section 13, Township 15 South, Range 9 East, Emery County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by River Gas Corporation.

If you have any questions regarding this approval or the necessary requirements, please contact K. Michael Hebertson at this office.

Sincerely,

John R. Baza

Associate Director, Oil and Gas

lwp

cc: Dan Jackson, Environmental Protection Agency  
Emery County Commission



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

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Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-246

Operator: River Gas Corporation  
Wells: RGC D11  
Location: Section 13, Township 16 South, Range 9 East,  
County: Emery  
API No.: 43-015-30356  
Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on October 27, 1999
2. Maximum Allowable Injection Pressure: 2,250 psig
3. Maximum Allowable Injection Rate: Restricted by pressure limitation.
4. Injection Interval: 5,080 feet to 5,757 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)
5. A tracer survey is to be run within 60 days of the day that injection begins, and annually thereafter.

Approved by:

John R. Baza

Associate Director, Oil and Gas

10/27/99

Date

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other Injection

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

2. NAME OF OPERATOR  
**RIVER GAS CORPORATION**

3. ADDRESS OF OPERATOR  
**1305 South 100 East, Price, UT 84501 (435) 637-8876**

4. LOCATION OF WELL (Report clearly and in accordance with any State requirements) location  
At surface **1513' FNL, 2437' FEL**  
At top prod. interval reported below

14. API NO. **43-007-30356** DATE ISSUED **6/24/99**

15. DATE SPUNDED **7/1/99** 16. DATE T.D. REACHED **7/29/99** 17. DATE COMPL. (Ready to prod. or Plug & Abd.) **8/17/99** 18. ELEVATIONS (DF, REB, RT, GR, ETC.) **GR 5795'**

20. TOTAL DEPTH, MD & TVD **6029''** 21. PLUG BACK T.D., MD & TVD \_\_\_\_\_ 22. IF MULTIPLE COMPL., HOW MANY **N/A** 23. INTERVALS DRILLED BY **→** ROTARY TOOLS to TD \_\_\_\_\_ CABLE TOOLS **N/A**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD OR TVD)  
**Navajo Top 5080' and Wingate Bottom 5755'**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Dual Induction, Laterolog, SFF, GR, Caliper, Comp Density, & Neutron**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
13 3/8"	48#	352'	17.5"	450 sxs Class G, 2% CaCl, 1/4#/sxs D-29	
9 5/8"	36#	2551'	12 1/4"	410 sxs Class G, 12% D20, 1% D79, 2% D46, 5% D44 140 sxs 10-1 RFC	
7"	26#	6015'	8 3/4"	115 sxs 50/505 POZ, 175 sxs Class G, 85 sxs 10-1 RFC, 70 sxs 10-1 RFC, tail	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
		N/A

31. PERFORATION RECORD (Interval, size and number)  
Navajo Sandstone: 5080-5145, 5152-5276, 5283-5450  
Kayenta Formation: 5450-5458, 5467-5516, 5524-5533  
Wingate Sandstone: 5600-5724, 5734-5755

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. \_\_\_\_\_ WATER—BBL. \_\_\_\_\_ OIL GRAVITY - API (CORR.) \_\_\_\_\_

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS \_\_\_\_\_

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

SIGNED Jean Semborski TITLE Permitting Specialist DATE October 22, 1999

5. LEASE DESIGNATION AND SERIAL NO.  
**FEE**

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

7. UNIT AGREEMENT NAME  
**Drunkards Wash UTU-67921X**

8. FARM OR LEASE NAME  
**FEE**

9. WELL NO.  
**Disposal #11**

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

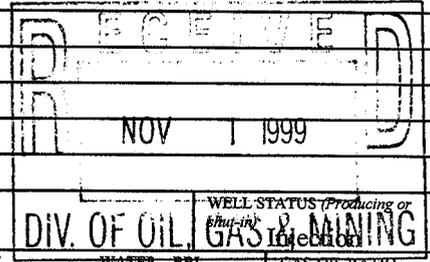
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**SW/NE, Sec 13, T16S, R09E, SLB&M**

12. COUNTY  
**Emery**

13. STATE  
**Utah**

19. ELEV. CASINGHEAD  
**N/A**

25. WAS DIRECTIONAL SURVEY MADE  
**-----**



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1A. Type of Work: DRILL  DEEPEN

B. Type of Well: OIL  GAS  OTHER: SINGLE ZONE  MULTIPLE ZONE

2. Name of Operator: River Gas Corporation

3. Address and Telephone Number: 1305 South 100 East, Price, UT 84501 (435)637-8876

4. Location of Well (Footages)  
At Surface: 1513' FNL, 2437' FEL  
At Proposed Producing Zone:

5. Lease Designation and Serial Number: Fee Ownership

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

7. Unit Agreement Name: N/A

8. Farm or Lease Name: Fee Ownership

9. Well Number: D-11

10. Field or Pool, or Wildcat: Undesignated

11. Qtr/Qtr, Section, Township, Range, Meridian: SW/4, NE/4 Section 13, T16S, R09E, SLB&M

12. County: Carbon 13. State: UTAH

14. Distance in miles and direction from nearest town or post office: 11.7 miles southwest of Price

15. Distance to nearest property or lease line (feet): 1513'

16. Number of acres in lease: 1988.41 acres

17. Number of acres assigned to this well: N/A

18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): none'

19. Proposed Depth: 6100'

20. Rotary or cable tools: Rotary

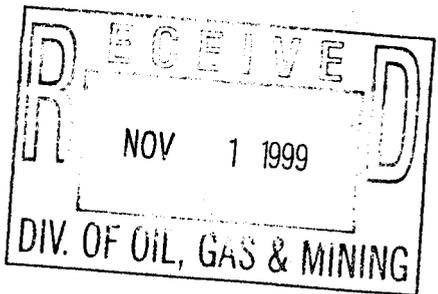
21. Elevations (show whether DF, RT, GR, etc.): 5795' GR

22. Approximate date work will start: June 1999

23. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	40'	
17-1/2"	13-3/8"	48#/ft	320'	"see attachment "D"
12-1/2"	9-5/8"	36 & 40 #/ft	2500'	see attachment "D"
8-3/4"	7"	26.29 & 32 #/ft	6100'	see attachment "D"
				see attachment "D"

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



24. Name & Signature: Jean Semborski *Jean Semborski* Title: Permit Specialist Date: 10/26/99

(This space for state use only)

API Number Assigned: \_\_\_\_\_ Approval: \_\_\_\_\_



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR River Gas Corporation  
ADDRESS 1305 South 100 East  
Price, Utah 84501

Well name and number: RGC D-11  
Field or Unit name: Undesignated Lease no. Fee  
Well location: Q0 SW/NE section 13 township 16 range 19 county Emery

Is this application for expansion of an existing project? . . Yes  No   
Will the proposed well be used for: Enhanced Recovery? . . Yes  No   
Disposal? . . . . . Yes  No   
Storage? . . . . . Yes  No   
Is this application for a new well to be drilled? . . . . . Yes  No   
If this application is for an existing well,  
has a casing test been performed on the well? . . . . . Yes  No   
Date of test: 8/15/99  
API number: 43-015-30356

Proposed injection interval: from 5080' to 5734'  
Proposed maximum injection: rate 4,400Bbpd pressure 2,000 psig  
Proposed injection zone contains  oil,  gas, and/or  fresh water within  $\frac{1}{2}$  mile of the well.  
**IMPORTANT: Additional information as required by R615-5-2 should accompany this form.**

List of Attachments: see Cover Letter

I certify that this report is true and complete to the best of my knowledge.  
Name Jean Semborski Signature \_\_\_\_\_  
Title Permit Specialist Date 10/26/99  
Phone No. (435) 637-8876

(State use only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:  
  
(3/89)

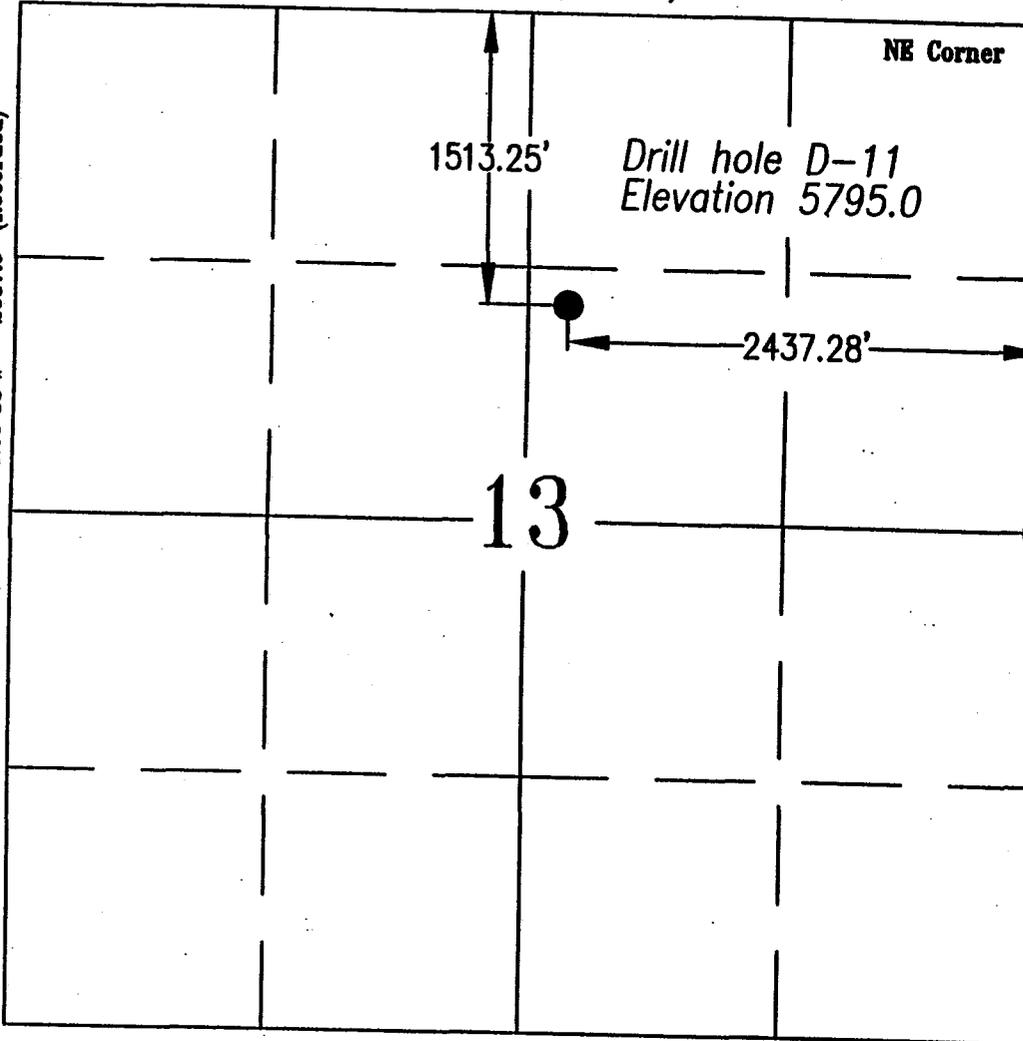
Township 16 South

# Range 9 East

S89°22'W - 5136.1' (Recorded)

N00°33'W - 2687.5' (Recorded)

N00°51'E - 2610.3' (Recorded)



NE Corner

1513.25'

Drill hole D-11  
Elevation 5795.0

2437.28'

13

N89°06'W - 2729.1' (Recorded)

S88°01'W - 2489.1' (Recorded)

N00°26'W - 2653.9' (Recorded)

N00°23'W - 2655.8' (Recorded)

### Location

The Bearings Indicated are per the recorded plat obtained from the U.S. Land Office. The well location was determined using a Trimble 4400 GPS Unit.

### Basis Of Elevation:

Basis of Elevation of 5837' as indicated in the NE Corner of Section 13, Township 16 South, Range 9 East, Salt Lake Base and Meridian, as shown on the Elmo Quadrangle 7.5 Minute Series Map.

### Description of Well Point

Proposed Drill Hole located in the SW 1/4 NE 1/4 of Section 13; 1513.25' South and 2437.28' West from the NE Corner of Section 13, T16S, R9E, Salt Lake Base & Meridian.

### Surveyor's Certificate:

I, John S. Huefner, a Registered Licensed Land Surveyor, holding Certificate #144842, State of Utah, do hereby certify that the information on this drawing is a true and accurate survey of the land, and was conducted under my personal supervision, as shown hereon.



### LEGEND:

- Drill Hole Location
- ⊕ Found Section Corner Monumented w/ Brass Cap unless indicated otherwise.
- Section Corner searched for but not found



SCALE:

250' 0' 500' 1000'

DRAWN BY:	P. BOYLEN
CHECKED BY:	J.S.H.
DATE:	3/22/89
SCALE:	1"=1000'
JOB NO.:	466
DRAWING NO.:	A-1
SHEET	1 of 4

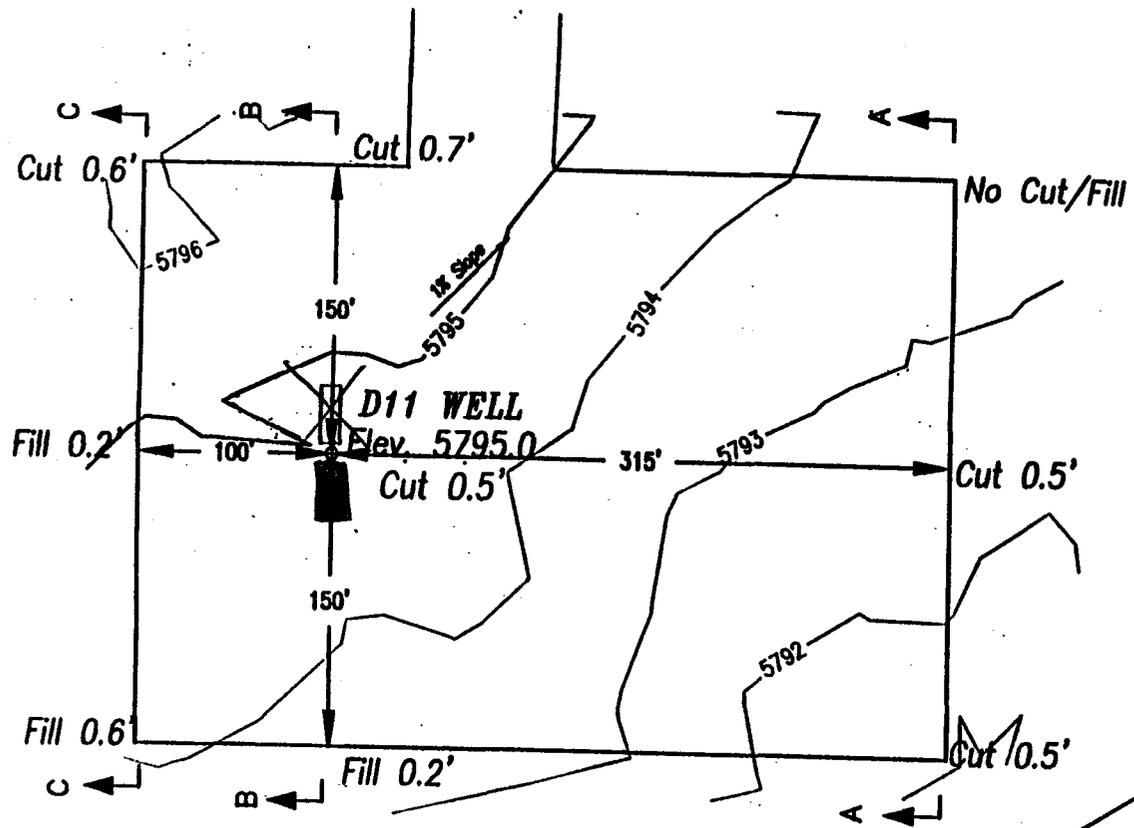
**Castle Valley**

3288 South 125 West  
P.O. Box 81681  
Provo, Utah 84601  
(801) 637-8300  
FAX (801) 637-2838

**Servicos**

**River Gas Corporation**  
Well# D-11  
Section 13, T16S, R9E, S.L.B.&M.  
Emery County, Utah

Exhibit "A" 1 of 3



Elevation Ungraded Ground at Location Stake = 5795.0'  
 Elevation Graded Ground at Location Stake = 5794.5'

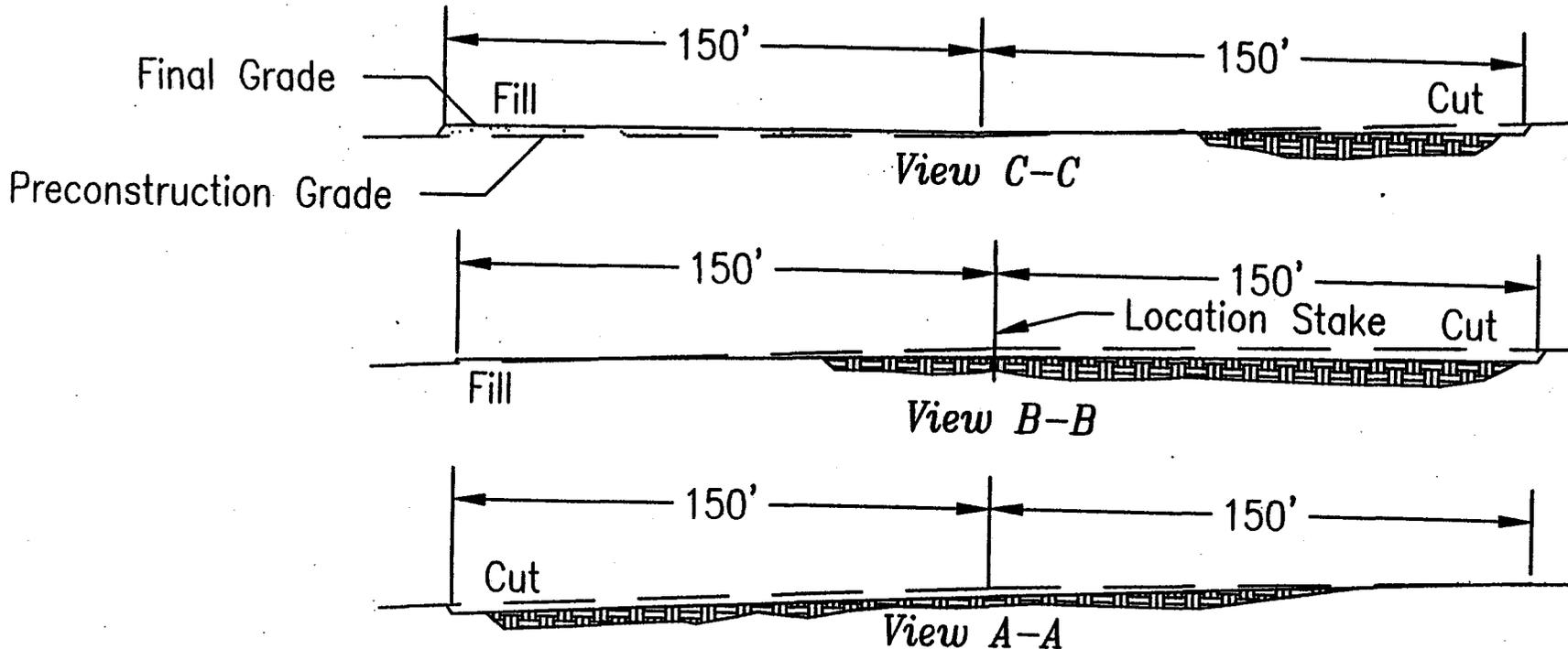


DRAWN BY <b>P. BOYLEN</b>	
CHECKED BY <b>J.S.H.</b>	
DATE <b>3/23/99</b>	3224 South 125 West P.O. Box 84501 Provo, Utah 84601 (801) 637-8300 FAX (801) 637-2838
SCALE <b>1"=100'</b>	
SHEET NO. <b>466</b>	
DRAWING NO. <b>A-2</b>	Section 19, T16S, R9E, S.L.B&M. Well # D-11
SHEET 8 OF 4	

EXHIBIT 2 OF 3

1" = 10'  
 X-Section  
 Scale  
 1" = 50'

Slope = 1 1/2 : 1  
 (Except Pit)  
 Pit Slope = 1 : 1



**APPROXIMATE YARDAGES**

<b>CUT</b>	
(6") Topsoil Stripping	= 2,306.0 Cu. Yds.
Remaining Location	= 1,175.6 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 3,481.6 Cu. Yds.</b>
<b>TOTAL FILL</b>	<b>= 372.6 Cu. Yds.</b>

DRAWN BY: <b>P. BOYLEN</b> CHECKED BY: <b>J.S.H.</b> DATE: <b>3/23/99</b> SCALE: <b>As Shown</b> SHEET NO. <b>466</b> DRAWING NO. <b>C-1</b> SHEET 3 of 4	 3206 South 125 West Prico, Utah 84501 (801) 637-9300 FAX (801) 637-2633 Section <b>River Gas Corporation</b> Typical Cross Sections Section 13, T16S, R9E, S.L.B&M. Well# D-11
---	---

EXHIBIT "A" 3 OF 3

## Statement Regarding Logs Performed on the Well

Logs compiled on the RGC D-11 well have been previously submitted, or will be submitted to your office in the future.

## Description of the Casing Program

### Conductor Casing Description:

20" 93#/ft, H-40, ST&C SMLS, installed from 0' to 57'  
landed 3 joints of casing at 57'

### Surface Casing Description:

13-3/8" 48#/ft, H-40 ST&C SMLS, installed from 0' to 375'  
450 sacks Class G, 2% CaCl + 1/4 lb. Per sack D-29  
15#/gal. Density and 1.15 cu.ft./sack yield (displaced 57.5 bbls. water).  
(circulated 15 bbls. of cement to the surface).  
Landed 9 joints of casing at 351.7'.

### Intermediate Casing Description:

9-5/8" 36#/ft, K-55 LT&C SMLS, installed from 0' to 2562'  
410 sacks lead 50/50 POZ (12.5#/gal. Density and 1.92 cu.ft./sack yield)  
8% gel, 10% D44, 1/4lb. Per sack D-29, 2% S-1  
140 sacks tail 10-1 RFC (14.2#/gal, 1.61 cu.ft./sack)  
(displaced 194 bbls. of water)  
(circulated 20 bbls. of cement to the surface).  
Landed 62 joints of casing at 2550.8'  
Casing shoe installed (1.55' long) at 2552.35'

### Production Casing Description:

7" 26#/ft, J-55 installed from 0' to 6005'  
720 sacks 50/50 POZ (12.5#/gal. Density and 1.92 cu.ft./sack yield)  
8% D-20, 10% D-449bwow0, 1/4 lb. Per sack D-29  
175 sacks "G" + 2% S-1, 1/4 lb. Per sack D-29 )15.8#/gal. Density and 1.15  
cu.ft./sack yield)  
70 sacks 10-1 RFC (14.2#/gal. Density and 1.61 cu.ft./sack yield)

<u>Joint</u>	<u>Description</u>	<u>Length</u>	<u>G.L.</u>
1	7" Float Shoe	1.35'	6005'
1	7" 26# J-55	36.18'	5968.82'
1	7" Float Collar	1.20'	5977.62'
37	7" 26# J-55	161.98'	4346.44'
1	7" Stage Cementing Collar	2.23'	4344.21'
147	7" 26# J-55	4343.47'	0'
			10

RE: Geologic Information regarding Class II injection application for USA well # D-11, Emery County, Utah

The purpose of this letter is to provide the geologic information for River Gas Corporation's disposal well # D-11. The formation tops within D-11, located in the NE/4 Section 13, T16S, R9E, are as follows:

<u>Formation</u>	<u>Top</u>
Mancos Shale	Surface
Ferron Sandstone	1293'
Tununk Shale	1530'
Dakota Sandstone	1908'
Cedar Mountain	1960'
Morrison Formation	2760'
Summerville	3272'
Curtis Sandstone	3682'
Entrada Sandstone	3834'
Carmel Formation	4493'
Navajo Sandstone	5062'
Kayenta Formation	5450'
Wingate Sandstone	5601'
Chinle Shale	5967'

#### Description of Injection Zones Within D-11

The injection interval are located in the following lithologic units:

<b>Formation</b>	<b>Gross Thickness (feet)</b>	<b>Gross Perforated Interval</b>	<b>Description</b>
Navajo Sandstone	388	5080-5145	V. fine gr, lt pink-orange, uncons.in part; well-sorted
Kayenta Formation	151	5450-5601	V. fine-fg, peach, silty ss
Wingate Sandstone	366	5601-5755	V. fine gr, Lt pink-salmon, well-sorted

All of the above units are located within the Glen Canyon Group.

## **Description of Fluid Types**

Water Analysis compiled on the RGC D-11 well will be submitted to your office when they become available.



## Water Analysis Report by Baker Petrolite

**RIVER GAS**  
 DUNKARDS WASH  
 WELL #0-8

Account Manager  
**SCOTT HARBISON**

Summary		Analysis of Sample 23726 @ °F					
Sampling Date	6/22/99	<b>Anions</b>	mg/l	meq/l	<b>Cations</b>	mg/l	meq/l
Analysis Date	7/2/99	Chloride	5064	143	Sodium	4779	208
Analyst	JOANNA RAGAN	Bicarbonate	4408	72.2	Magnesium	32.0	2.63
		Carbonate	0.00	0.00	Calcium	54.0	2.69
TDS (mg/l or g/m <sup>3</sup> )	14439.9	Sulfate	7.00	0.15	Strontium	11.0	0.25
Density (g/cm <sup>3</sup> or tonne/m <sup>3</sup> )	8.4 1.011	Phosphate	N/A	N/A	Barium	39.0	0.57
Anion/Cation Ratio	1.00	Borate	N/A	N/A	Iron	3.00	0.11
Iron Dioxide		Silicate	N/A	N/A	Potassium	43.0	1.10
Open					Aluminum	N/A	N/A
					Chromium	N/A	N/A
					Copper	N/A	N/A
					Lead	N/A	N/A
		pH at time of sampling			Manganese	N/A	N/A
		pH at time of analysis		7.81	Nickel	N/A	N/A
		pH used in Calculations		7.81			

Conditions		Values Calculated at the Given Conditions - Amounts of Scale					lb/1000bbl		
Temp.	Gauge Press.	Calcite		Gypsum		Anhydrite		Celestite	
		CaCO <sub>3</sub>		CaSO <sub>4</sub> · 2H <sub>2</sub> O		CaSO <sub>4</sub>		SrSO <sub>4</sub>	
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.	1.13	41.6	-3.65	-3.72	-2.55		11	5.30
100	0.	1.18	42.3	-3.69	-3.69	-2.54		95	5.06
120	0.	1.20	42.9	-3.71	-3.63	-2.53		83	4.79
140	0.	1.24	43.4	-3.73	-3.56	-2.50		72	4.51

- 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
- 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
- 3: The reported CO<sub>2</sub> pressure is actually the calculated CO<sub>2</sub> fugacity. It is usually nearly the same as the CO<sub>2</sub> partial pressure.

PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET.

## Water Analysis Report by Baker Petrolite

**SERVER GAS**  
**BRUNKARDS WASH**  
**WELL #D-7**

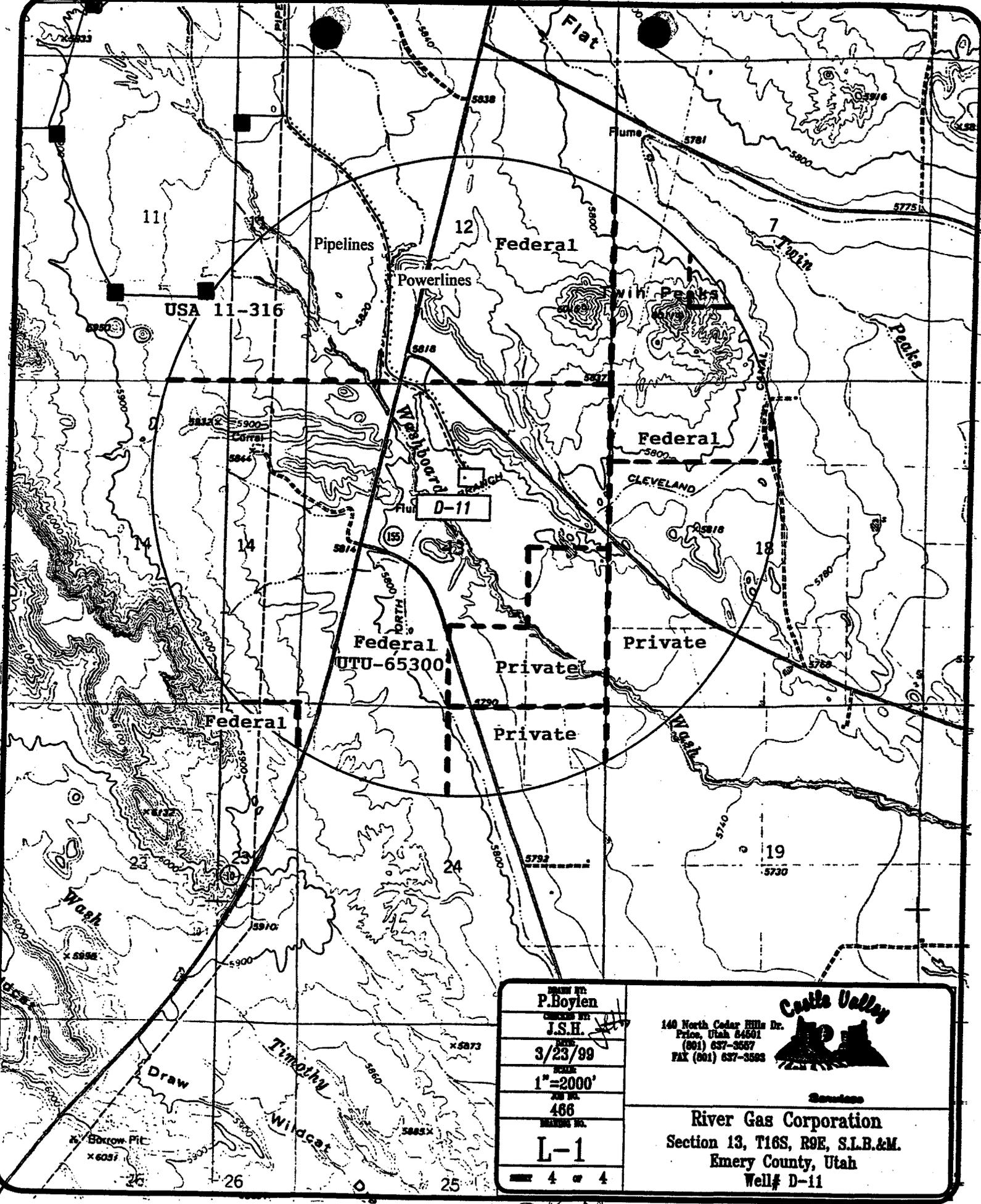
**Account Manager**  
**SCOTT HARBISON**

Summary		Analysis of Sample 23725 @ 75°F							
Sampling Date	8/22/99	<b>Anions</b>		mg/l	meq/l	<b>Cations</b>		mg/l	meq/l
Analysis Date	7/2/99	Chloride	7238	294	Sodium		8447	280	
Analyst	JOANNA RAGAN	Bicarbonate	5205	85.3	Magnesium		52.0	4.28	
		Carbonate	0.00	0.00	Calcium		54.0	2.89	
		Sulfate	19.0	0.40	Strontium		18.0	0.41	
		Phosphate	N/A	N/A	Barium		43.0	0.63	
		Borate	N/A	N/A	Iron		6.00	0.21	
		Silicate	N/A	N/A	Potassium		47.0	1.20	
					Aluminum		N/A	N/A	
					Chromium		N/A	N/A	
					Copper		N/A	N/A	
					Lead		N/A	N/A	
					Manganese		N/A	N/A	
					Nickel		N/A	N/A	
					pH at time of sampling				
					pH at time of analysis		7.81		
					pH used in Calculations		7.81		

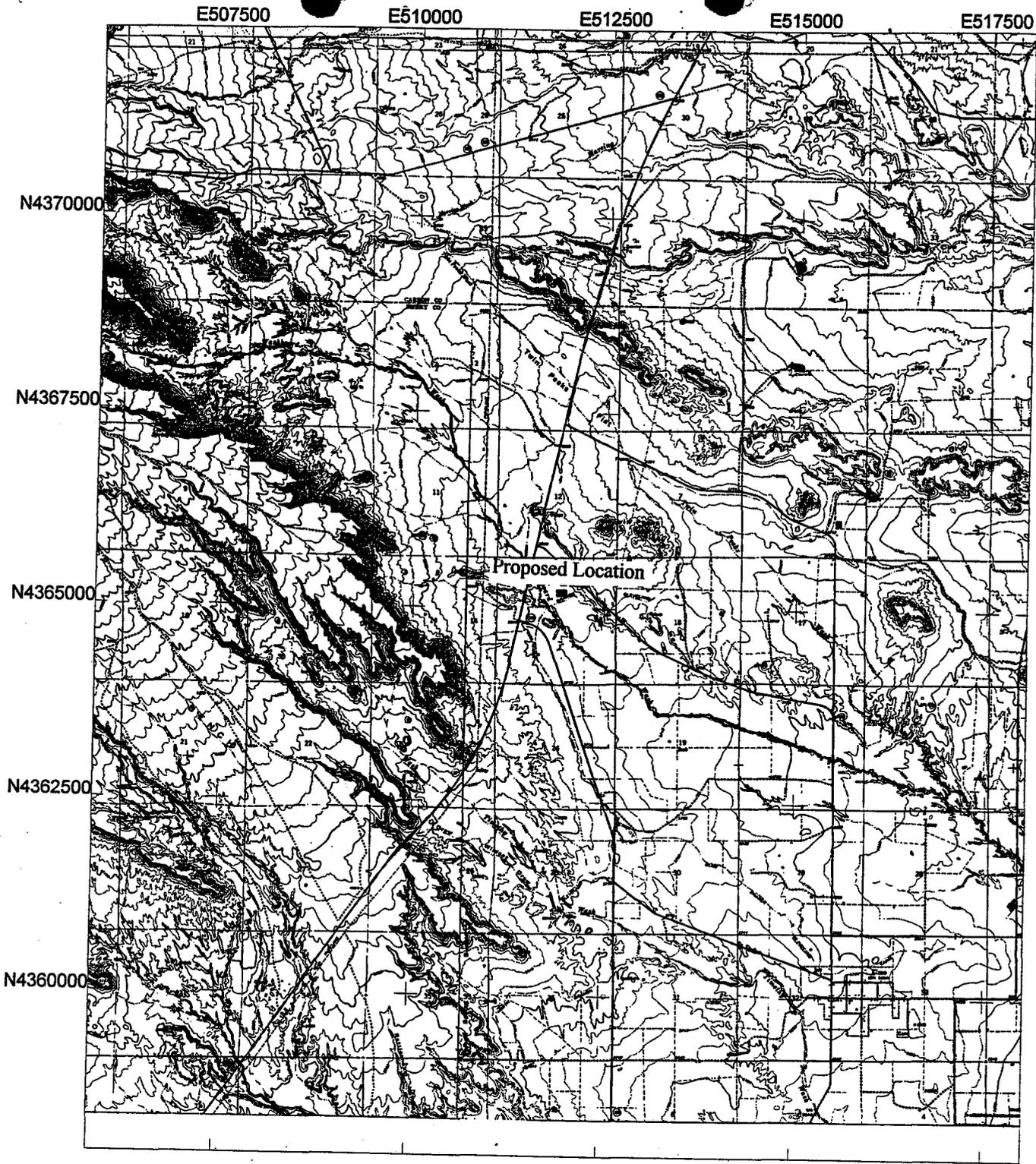
Conditions		Values Calculated at the Given Conditions - Amounts of Scale					in lb/1000bbl					
Temp.	Gauge Press.	Calcite		Gypsum		Anhydrite		Celestite		Barite	CO <sub>2</sub> Press.	
		CaCO <sub>3</sub>		CaSO <sub>4</sub> · 2H <sub>2</sub> O		CaSO <sub>4</sub>		SrSO <sub>4</sub>				
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0.	1.13	41.8	-3.33		-3.39		-2.00		1.49	14.7	0.90
100	0.	1.15	42.3	-3.37		-3.36		-2.00		1.33	14.3	1.41
120	0.	1.18	42.7	-3.40		-3.31		-1.99		1.20	13.8	2.14
140	0.	1.21	43.1	-3.41		-3.24		-1.96		1.09	13.3	3.15

- 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
- 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
- 3: The reported CO<sub>2</sub> pressure is actually the calculated CO<sub>2</sub> fugacity. It is usually nearly the same as the CO<sub>2</sub> partial pressure.

PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET

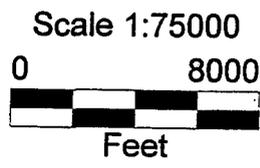


DRAWN BY <b>P. Boylen</b>	
CHECKED BY <b>J.S.H.</b>	
DATE <b>3/23/99</b>	140 North Cedar Hills Dr. Price, Utah 84501 (801) 637-3537 FAX (801) 637-3533
SCALE <b>1"=2000'</b>	Surveyors
SHEET NO. <b>486</b>	<b>River Gas Corporation</b> Section 13, T16S, R9E, S.L.B.&M. Emery County, Utah Well# D-11
MAPING NO. <b>L-1</b>	
SHEET 4 of 4	



# Disposal Well D-11

Universal Transverse Mercator  
North 12  
NAD83 (Conus)



3/31/1999  
Pathfinder Office™  
 Trimble

## **Statement of Geologic and Hydrologic Data**

All available geologic and hydrologic data have been previously submitted or will be submitted to your office in the future.

## Statement of Affidavit

An affidavit certifying that a copy of the application has been provided to all owners within a one-half mile radius is currently being prepared and will be submitted to your office in the future.

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

---ooOoo---

IN THE MATTER OF THE	:	NOTICE OF AGENCY
APPLICATION OF RIVER GAS	:	ACTION
CORPORATION FOR	:	
ADMINISTRATIVE APPROVAL OF	:	CAUSE NO. UIC-246
THE RGC D-11 WELL LOCATED IN	:	
SECTION 13, TOWNSHIP 16 SOUTH,	:	
RANGE 9 EAST, SW NE, S.L.M.,	:	
EMERY COUNTY, UTAH, AS A	:	
CLASS II INJECTION WELL	:	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of River Gas Corporation for administrative approval of the RGC D-11 well, located in Section 13, Township 16 South, Range 9 East, SW NE, S.L.M., Emery County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The Navajo, Kayenta & Wingate Formations will be selectively perforated for water injection. The maximum injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by River Gas Corporation.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 6<sup>th</sup> day of October, 1999.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
\_\_\_\_\_  
John R. Baza  
Associate Director

**AFFIDAVIT OF PUBLICATION**

STATE OF UTAH)

ss.

County of Emery,)

I, Kevin Ashby, on oath, say that I am the Publisher of the Emery County Progress, a weekly newspaper of general circulation, published at Castle Dale, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 2 (Two) consecutive issues, and that the first publication was on the 12th day of October, 1999 and that the last publication of such notice was in the issue of such newspaper dated the 12th day of October, 1999.



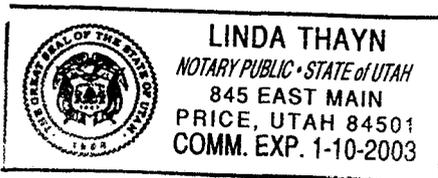
Kevin Ashby - Publisher

Subscribed and sworn to before me this 12th day of October, 1999.



Notary Public My commission expires January 10, 2003 Residing at Price, Utah

Publication fee, \$89.70



**NOTICE OF AGENCY ACTION**  
**CAUSE NO. UIC-246**  
 BEFORE THE DIVISION OF OIL, GAS AND MINING  
 DEPARTMENT OF NATURAL RESOURCES  
 STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF RIVER GAS CORPORATION FOR ADMINISTRATIVE APPROVAL OF THE RGC D-11 WELL LOCATED IN SECTION 13, TOWNSHIP 16 SOUTH, RANGE 9 EAST, SW NE, S.L.M., EMERY COUNTY, UTAH, AS A CLASS II INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

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Dated this 6th day of October, 1999.

STATE OF UTAH  
 DIVISION OF OIL, GAS & MINING  
 -s John R. Baza  
 Associate Director

Published in the Sun Advocate October 12, 1999.

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** River Gas Corporation

**Well:** USA D11

**Location:** T16S, R9E, S13, Emery Co., UT

**API:** 4301530356

**Ownership Issues:**

The well is located on Fee land and is underlain by a federal mineral lease. Affidavits of Notification of surface owners within a half mile radius have been provided.

**Well Integrity:**

Description of the Casings and Cement:

20", 93#/foot, H-40, ST&C seamless conductor pipe installed from 0' to 57'.

13-3/8", 48#/ft H-40, ST&C seamless surface casing, installed from 0' to 375' using 450 sack of Class G cement with 2% CaCl and 1/4 pound/sack D-29. Cement was 15#/gal., 1.15cu. ft./sx, displaced with 58 bbls water, and 15 sx was circulated to surface.

9-5/8", 36#/ft., K-55 LT&C seamless intermediate casing, installed from 0' to 2562' using 410 sacks lead 50/50 Poz mixed at 12.5#/gal, 1.92cu. ft./sx with 8% gel, 10% D-44, 1/4 pound per sack D-29, and 2% S-1, 140 sacks tail 10-1 RFC, mixed at 14.2 #/gal, 1.61 cu.ft./sack. A casing shoe was run so as to be landed at 2552', and 20 bbls of cement was circulated to surface.

7", 26#/ft., J-55 production casing,, installed from 0' to 6005' using 720 sacks 50/50 Poz mixed at 12.5#/gal, and 1.92 cu. ft./sx., with 8% D-20, 10% D-44, 1/4 pound per sack D-29. Also 175 sacks "G" + 2% S-1, 1/4 pound per sack D-29, mixed at 15.8#/gal. density, 1.15cu. ft./sx yield; 70 sacks 10-1 RFC mixed at 14.2 #/gal Density & 1.61 cu.ft./sack. Cement was circulated to the intermediate casing.

At the time the Bond Log was run the casing was pressured to 1000 psi and the log was run under pressured conditions. The casing held 1000 psi pressure during the entire logging operation and indicates that the casing has good mechanical integrity.

The Cement Bond Log was run from 5982' TD to 2246'. The cement appears to be very well bonded over the injection interval from 5080' to 5757'. A zone from 4850' to 4994' shows possible micro channels and a micro annulus. Very good bonding returns from 4850' up to 4356' with one or two small areas that show poorer bonding through washed out areas. This will be adequate to prevent any upward migration of fluid between the 7" casing and the borehole.

The 7" casing was perforated in the Navajo Sandstone, Kayenta Formation and Wingate Sandstone in a gross interval from 5080' to 5757' and a Step Rate injection test was run on August 20, 1999.

### **Ground Water Protection:**

There are no aquifers with high-quality ground water expected to be encountered in the thin slope wash composed of sandstone & clay which covers the Blue Gate Shale Member of the Mancos Formation. Conductor, surface and intermediate casing have been set and cemented in place and will adequately protect the shallow alluvial sediments. For all the casing strings except the 7" production casing, cement was circulated back to surface and the 7" casing was cemented back to the intermediate casing. Other subsurface water is unlikely between the surface alluvium and the Cretaceous-age Ferron Sandstone Member of the Mancos Shale.

The Ferron Sandstone Member including the associated coal seams produces the water to be injected. The Ferron Sandstone is found at 1293' in the RGC USA D11 well. Injection water is collected from nearby wells and will be transferred by pipeline to the injection site. Water produced from nearby wells, has shown Total Dissolved Solids (TDS) levels ranging from 14,439 mg/l to 19,129 mg/l.

The Navajo Sandstone Formation water tested from the injection well has TDS levels, measured by an independent lab, at 166,000 mg/L. The water analysis was run by CHEMTECH-FORD ANALYTICAL LABORATORIES of Salt Lake City, Utah.

The Kayenta and Wingate Formations in the D11 provided water samples which tested 167,000 mg/L Total Dissolved Solids. This value was determined from swabbed samples taken August 17, 1999. Tests on this sample were run by the same lab as those tested for the Navajo Formation.

The Navajo Sandstone is a known fresh water aquifer at many locations in the state. In the San Rafael Swell area, the quality of Navajo Sandstone ground water is generally best near the outcrop and recharge areas and becomes poorer with increased depth and distance from recharge [Utah State Department of Natural Resources (DNR) Technical Publication # 78]. This premise has been supported by test results on samples taken from the subject well and other disposal wells in the field. Injection of produced water from the Ferron formation into the specified

formations will result in the dilution of the more saline Navajo, Kayenta, & Wingate formation waters. According to tests submitted for this well the injected water should not precipitate any scale resulting in other injection problems.

The proposed operation is expected to have little effect on the overall hydrology of the aquifer because of its great extent compared to the volume of fluid that will likely be injected over time. According to DNR Technical Publication #78, the Navajo Sandstone alone contains approximately 94,000,000 acre-feet of water in transient storage. Injection at a rate of 14,400 barrels per day for 10 years would result in approximately 6,775 acre-feet being injected. This equates to about 0.007% of the water already in storage in the Navajo Sandstone. .

During a step rate injection test conducted on the D11 well on August 20, 1999, STIM-LAB, Inc., measured the apparent formation parting pressure at 4,788 psi, gauged by downhole pressure gauge set at 5905', and at a rate of 5.5 BBLS/Min during the initial injection run. As stated by the operator on the application, the maximum injection rate proposed is 10 BPM or 14,400 BPD at maximum 2,000 psig.

According to the Evaluation of Drunkards Wash Injection Wells Past and Future Performance report, prepared by Tesseract Corporation & Stim-Lab fracture propagation occurs in a downward direction in the Navajo Sandstone. This is in part controlled by two zones of impermeable Anhydrite overlying the Navajo Formation. These Anhydrite zones form a seal and thus become the upper bounding beds of the injection zone. The step rate test indicates that the operator could inject with surface pressures approaching 3000 psi without causing a breach in the Anhydrite bounding beds above the injection zone. It is also concluded from the Bond Log that the cement bond through these zones is excellent and that the injected waters should not have an escape conduit up the annulus of the wellbore.

After reviewing applicable information including the application submitted by River Gas Corporation, it is our conclusion that injection into the Navajo Sandstone, Kayenta Formation, and Wingate Sandstone, at this location, would result in some dilution of the saline waters present in these more salty aquifers. Pressure increase near the wellbore, caused by the injection of fluids, will dissipate over time, after injection ceases. It is therefore concluded that no long term negative impacts are anticipated as a result of injection of Ferron Formation produced water into the subject well.

#### **Oil/Gas & Other Mineral Resources Protection:**

The Ferron coal/gas zone is protected by casing and cement which has been reviewed in the Well Integrity portion of this report. No other known potentially producible mineral or hydrocarbon zones were encountered by the well. The

injection zone is isolated nearly 4,000' below the productive interval of the Ferron Sandstone and good to excellent cement bond covers a sufficient length of hole to protect the upper formations including bond of ~100% across the injection zone and for 68 feet above the topmost set of perforations.

A review of the well records of the Division of Oil, Gas and Mining for the half mile area of review indicated that there were no existing well bores within a half mile of the proposed disposal well other than one shallower Ferron Sandstone well which has been plugged and abandoned.

**Bonding:**

River Gas Corporation has An \$80,000 Fee bond in place which provides coverage for this well.

**Actions Taken and Further Approvals Needed:**

Notice of this application was published in the Salt Lake Tribune and The (Price, UT) Sun Advocate. In addition, copies of the notice were provided to the EPA, BLM (Price,UT), Carbon County Planning Office, and River Gas Corporation. The notice stated the proposed interval for injection into the Navajo Sandstone, Kayenta Formation, and Wingate Sandstone was from 5,080' to 5,757'.

A properly designed and constructed injection well, combined with periodic mechanical integrity tests, poses no threat to fresh or useable groundwater supplies. The Division staff recommends approval of this application contingent upon no additional or unforeseen information being presented which will change this analysis or the data presented herein.

Reviewer(s): K. Michael Hebertson

Date: 27 October 1999

**INJECTION WELL - INSPECTION RECORD**

Well Name: <u>D-11</u>	API Number: <u>43-015-30356</u>
Qtr/Qtr: <u>SW/NE</u> Section: <u>13</u> Township: <u>16S</u> Range: <u>10E</u>	
Company Name: <u>River Gas Corporation</u>	
Lease: State _____ Fee _____ Federal <u>X</u> Indian _____	
Inspector: <u>Dennis L. Ingram</u> Date: <u>04/26/00</u>	

Injection Type:

Disposal: WDW Enhanced Recovery: \_\_\_\_\_ Other: \_\_\_\_\_

Injecting: No Shut-In: \_\_\_\_\_

Rate: 0.0 (bpd) Totalizer: 621348 (bbls)

Gauges: Tubing: Yes

Casing: No Casing Pressure: \_\_\_\_\_ (psig)

Tubing Pressure: 0 (psig) Housekeeping: Good

Equipment Condition: Good

COMMENTS: Barton recorder with charts for injection pressure record shows no activity since last Friday. Murphy shut down switch is set for 2250 psi. Location is bermed.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER:	5. Lease Designation and Serial Number:
2. Name of Operator: <p style="text-align: center;">River Gas Corporation</p>	6. If Indian, Allottee or Tribe Name:
3. Address and Telephone Number: 6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777	7. Unit Agreement Name:
4. Location of Well Footages: QQ, Sec., T., R., M.: <p style="text-align: center;">SLB &amp; M</p>	8. Well Name and Number:  9. API Well Number:  10. Field or Pool, or Wildcat:  County: Carbon County State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)																														
<table style="width:100%;"> <tr> <td><input type="checkbox"/> Abandon</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Repair Casing</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recomplete</td> </tr> <tr> <td><input type="checkbox"/> Convert to Injection</td> <td><input type="checkbox"/> Reperforate</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat or Acidize</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> Other <u>Change of Operator</u></td> </tr> <tr> <td colspan="2">Approximate date work will start _____</td> </tr> </table>	<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Reperforate	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>		Approximate date work will start _____		<table style="width:100%;"> <tr> <td><input type="checkbox"/> Abandon *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Repair Casing</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Reperforate</td> </tr> <tr> <td><input type="checkbox"/> Convert to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat or Acidize</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Other _____</td> </tr> <tr> <td colspan="2">Date of work completion _____</td> </tr> </table> <p style="font-size: small;">Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form. * Must be accompanied by a cement verification report.</p>	<input type="checkbox"/> Abandon *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Reperforate	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		Date of work completion _____	
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<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete																														
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<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare																														
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off																														
<input checked="" type="checkbox"/> Other <u>Change of Operator</u>																															
Approximate date work will start _____																															
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<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare																														
<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off																														
<input type="checkbox"/> Other _____																															
Date of work completion _____																															

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that River Gas Corporation is transferring ownership of the attached list of wells to Phillips Petroleum Company 9780 Mt. Pyramid Court, Englewood, CO 80112.  
Please direct all correspondence and reports to: Phillips Petroleum Company P.O. Box 3368, Englewood, CO 80155-3368.  
Effective 1/1/01.

13.

Name & Signature: Cal Hurtt Title: Development Manager Date: 12/19/00

(This space for state use only)

## RGC/Phillips Merger

### List of Affected BLM Leases and Rights-of-Way

#### A. Oil & Gas Leases

UTU-47157	UTU-70219	UTU-75016
UTU-49631	UTU-70400	UTU-75019
UTU-50645	UTU-71390	UTU-75021
UTU-51584	UTU-72003	UTU-75022
UTU-53872	UTU-72004	UTU-76332
UTU-57821	UTU-72350	UTU-76334
UTU-60402	UTU-72355	UTU-77351
UTU-60925	UTU-72358	UTU-77353
UTU-61154	UTU-72377	UTU-77354
UTU-61155	UTU-72470	UTU-78408
UTU-61158	UTU-72477	UTU-78409
UTU-61547	UTU-72624	UTU-78410
UTU-61548	UTU-72723	UTU-78411
UTU-62145	UTU-72724	UTU-78412
UTU-62276	UTU-72746	UTU-78413
UTU-65298	UTU-73004	UTU-78782
UTU-65300	UTU-73075	UTU-78783
UTU-65302	UTU-73330	UTU-79150
UTU-65303	UTU-73331	UTU-79151
UTU-67621	UTU-73523	UTU-79152
UTU-67839	UTU-73752	UTU-79153
UTU-67906	UTU-73884	UTU-79154
UTU-68314	UTU-74376	UTU-79155
UTU-69449	UTU-75015	UTU-79159

#### B. Rights-of-Way

UTU-73226	UTU-77141	UTU-77976
UTU-74319	UTU-77141-01	UTU-77989
UTU-74320	UTU-77151	UTU-77989-01
UTU-76610	UTU-77151-01	
UTU-76629	UTU-77154	

**TRANSFER OF AUTHORITY TO INJECT**

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

EFFECTIVE DATE OF TRANSFER: 1/1/01

**CURRENT OPERATOR**

Company: River Gas Corporation Name: Cal Hurtt  
 Address: 1300 McFarland Blvd. NE, Suite 300 Signature: Cal Hurtt  
city Tuscaloosa state AL zip 35406 Title: Development Supervisor  
 Phone: (205) 759-3282 Date: 12/19/00

Comments: Change in operatorship due to merger of River Gas Corporation into Phillips Petroleum Company effective 12/31/00 at 11:59 p.m.

**NEW OPERATOR**

Company: Phillips Petroleum Company Name:  Billy Stacy  
 Address: 9780 Mt. Pyramid Court Signature: Billy Stacy  
city Englewood state CO zip 80112 Title: Asset Manager  
 Phone: (720) 344-4984 Date: 2-6-01

Comments: Please send all reports and correspondence to:  
 Phillips Petroleum Company  
 P.O. Box 3368  
 Englewood, CO 80155-3368

(This space for State use only)

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

Approval Date: 2-21-01

Comments:

Disposal Wells to be transferred from RGC to Phillips Petroleum Company

Well #	API #	Location	Section	Township	Range
American Quasar D1	4300730040	999FSL, 1552 FWL	31	14S	10E
Arcadia-Telonis D2	4300730093	465 FSL, 560 FEL	19	14S	09E
Utah D3	4300730290	1600 FSL, 1530 FEL	18	15S	10E
Utah D4	4300730314	600 FNL, 500 FWL	24	14S	09E
Fausett D5	4300730351	467 FNL, 1461 FWL	16	14S	09E
Drew D6	4300730100	1300 FSL, 830 FWL	34	14S	09E
Utah D7	4301530338	1371 FSL, 1530 FEL	2	14S	09E
Utah D8	4300730431	1342 FNL, 350 FWL	12	15S	09E
Utah D9	4300730438	1960 FNL, 1487 FWL	32	14S	09E
RGC D10	4300730520	162 FNL, 1557 FEL	28	15S	09E
USA D11	4301530356	1513 FNL, 2437 FEL	13	16S	09E
Sampinos D14	4300730567	1695 FSL, 2133 FEL	16	15S	10E

LAW OFFICES

**PRUITT, GUSHEE & BACHTELL**

SUITE 1850 BENEFICIAL LIFE TOWER

SALT LAKE CITY, UTAH 84111-1495

(801) 531-8446

TELECOPIER (801) 531-8468

E-MAIL: mail@pgblaw.com

THOMAS W. BACHTELL  
A. JOHN DAVIS, III  
JOHN W. ANDERSON  
FREDERICK M. MACDONALD  
GEORGE S. YOUNG  
ANGELA L. FRANKLIN  
JOHN S. FLITTON  
MICHAEL S. JOHNSON  
WILLIAM E. WARD

SENIOR COUNSEL:

ROBERT G. PRUITT, JR.  
OLIVER W. GUSHEE, JR.

OF COUNSEL:

ROBERT G. PRUITT, III  
BRENT A. BOHMAN

January 29, 2001

**HAND DELIVERED**

Mr. Jim Thompson  
Utah Division of Oil, Gas & Mining  
1594 W. North Temple  
Salt Lake City, UT 84116

*Re: River Gas/Phillips Merger*

Dear Mr. Thompson:

As you may know, River Gas Corporation ("RGC") merged into Phillips Petroleum Company ("Phillips") effective December 31, 2000 at 11:59 p.m. I have enclosed a Certificate of Articles of Merger issued by the Utah Department of Commerce and, although duplicative, a sundry notice formally evidencing the merger for your records, and a list of all wells, including injection wells, formerly operated by RGC.

Please change the Division's records to reflect the change in operator of these wells from RGC to Phillips. All operational questions should be directed to Phillips at the following address:

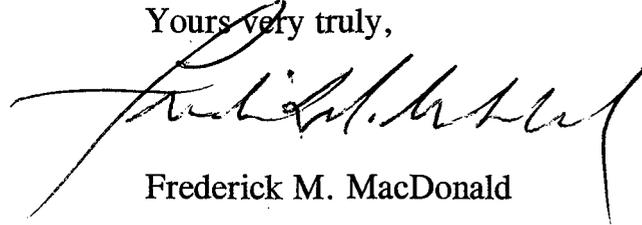
Phillips Petroleum Company  
Attn: Billy Stacy, Operations Manager  
P.O. Box 3368  
Englewood, CO 80155-3368  
Telephone No.: (720) 344-4984

Phillips currently has a bond on file with the Division (a copy of which is enclosed for your reference), but I understand an \$80,000 Letter of Credit is in the process of being substituted.

Mr. Jim Thompson  
January 29, 2001  
Page 2

On behalf of Phillips, I thank you for your cooperation. Should you have any further questions or concerns, please do not hesitate to contact me.

Yours very truly,

A handwritten signature in black ink, appearing to read "Frederick M. MacDonald", written in a cursive style. The signature is positioned above the printed name.

Frederick M. MacDonald

FMM:cs  
2078.16  
Enclosures  
cc: W. H. Rainbolt  
Billy Stacy



Utah Department of Commerce  
Division of Corporations & Commercial Code  
160 East 300 South, 2nd Floor, Box 146705  
Salt Lake City, UT 84114-6705  
Phone: (801) 530-4849  
Toll Free: (877) 526-3994 Utah Residents  
Fax: (801) 530-6438  
Web site: <http://www.commerce.state.ut.us>

Registration Number: 562960-0143  
Business Name: PHILLIPS PETROLEUM COMPANY  
Registered Date: JUNE 14, 1946

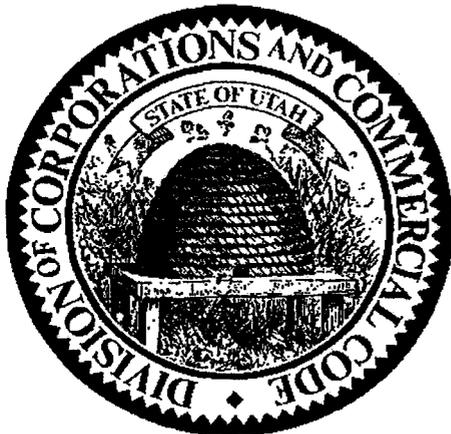
01/12/01

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## CERTIFICATE OF ARTICLES OF MERGER

THE UTAH DIVISION OF CORPORATIONS AND COMMERCIAL CODE ("DIVISION") HEREBY CERTIFIES THAT

ARTICLES OF MERGER WERE FILED WITH THIS OFFICE ON DECEMBER 12, 2000 MERGING RIVER GAS CORPORATION, A CORPORATION OF THE STATE OF ALABAMA, INTO PHILLIPS PETROLEUM COMPANY, THE SURVIVING CORPORATION WHICH IS OF THE STATE OF DELAWARE, AS APPEARS OF RECORD IN THE OFFICE OF THE DIVISION.



*Ric Campbell*

Ric Campbell  
Acting Division Director of  
Corporations and Commercial Code

---

Dept. of Professional Licensing  
(801)530-6628

Real Estate  
(801)530-6747

Public Utilities  
(801)530-6651

Securities  
(801)530-6600

Consumer Protection  
(801)530-6601

6210000000  
00171191

Office of the Secretary of State

TS

12/13/2000  
Receipt Number: 188532  
Amount Paid: \$145.00

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"RIVER GAS CORPORATION", A ALABAMA CORPORATION, WITH AND INTO "PHILLIPS PETROLEUM COMPANY" UNDER THE NAME OF "PHILLIPS PETROLEUM COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SIXTH DAY OF DECEMBER, A.D. 2000, AT 10 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2000, AT 11:59 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

12-12-00P04:02 RCVD

State of Utah  
Department of Commerce  
Division of Corporations and Commercial Code  
I Hereby certify that the foregoing has been filed and approved on this 12 day of Dec 20 00 in the office of this Division and hereby issue this Certificate thereof.

Examiner [Signature] Date 12/13/00  
[Signature]  
RIC CAMPBELL  
ACTING DIRECTOR



TAB  
FILED  
DEC 12 2000

Utah Div. Of Corp. & Comm. Code



[Signature]  
Edward J. Freel, Secretary of State  
AUTHENTICATION: 0837738

0064324 8100M  
001609453

DATE: 12-07-00

**CERTIFICATE OF OWNERSHIP AND MERGER**

**OF**

**RIVER GAS CORPORATION**

**(an Alabama corporation)**

**into**

**Phillips Petroleum Company**

**(a Delaware corporation)**

It is hereby certified that:

1. Phillips Petroleum Company [hereinafter sometimes referred to as the "Corporation"] is a business corporation of the State of Delaware.

2. The Corporation is the owner of all of the outstanding shares of each class of stock of River Gas Corporation, which is a business corporation of the State of Alabama.

3. The laws of the jurisdiction of organization of River Gas Corporation permit the merger of a business corporation of that jurisdiction with a business corporation of another jurisdiction.

4. The Corporation hereby merges River Gas Corporation into the Corporation.

5. The following is a copy of the resolutions adopted on November 21, 2000 by the Board of Directors of the Corporation to merge the said River Gas Corporation into the Corporation:

"1. Phillips Petroleum Company, which is a business corporation of the State of Delaware and is the owner of all of the outstanding shares of River Gas Corporation, which is a business corporation of the State of Alabama, hereby merges River Gas Corporation into Phillips Petroleum Company pursuant to the provisions of the Alabama Business Corporation Act and pursuant to the

12-12-00P04:02 RCVD

provisions of Section 253 of the General Corporation Law of Delaware.

"2. The separate existence of River Gas Corporation shall cease at the effective time and date of the merger pursuant to the provisions of the Alabama Business Corporation Act; and Phillips Petroleum Company shall continue its existence as the surviving corporation pursuant to the provisions of Section 253 of the General Corporation Law of Delaware.

"3. The Articles of Incorporation of Phillips Petroleum Company are not amended in any respect by this Plan of Merger.

"4. The issued shares of River Gas Corporation shall not be converted or exchanged in any manner, but each said share which is issued immediately prior to the effective time and date of the merger shall be surrendered and extinguished.

"5. Each share of Phillips Petroleum Company outstanding immediately prior to the effective time and date of the merger is to be an identical outstanding share of Phillips Petroleum Company at the effective time and date of the merger.

"6. No shares of Phillips Petroleum Company and no shares, securities, or obligations convertible into such shares are to be issued or delivered under this Plan of Merger.

"7. The Board of Directors and the proper officers of Phillips Petroleum Company are hereby authorized, empowered, and directed to do any and all acts and things, and to make, execute, deliver, file, and/or record any and all instruments, papers, and documents which shall be or become necessary, proper, or convenient to carry out or put into effect any of the provisions of this Plan of Merger or of the merger herein provided for. "

" This Company approves that the effective time and date of the merger herein provided for in the State of Alabama shall be 11:59 p.m. on December 31, 2000."

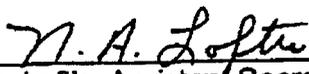
"Any Vice President, the Treasurer, any Assistant Treasurer, the Secretary, any Assistant Secretary, and each of them severally, be and hereby is authorized to make, execute,

deliver, file, and/or record any and all instruments, papers, and documents which shall be or become necessary, proper, or convenient to carry out or put into effect any of the provisions of these resolutions and to do or cause to be done all such acts as are necessary to give effect to the purpose and intent of the approval herein set forth."

6. This Certificate of Ownership and Merger shall be effective at 11:59 p.m. on December 31, 2000.

Executed on November 27, 2000

Phillips Petroleum Company

  
\_\_\_\_\_  
N. A. Loftis, Assistant Secretary



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

In Reply Refer To:  
3106  
UTU-47157 et al  
(UT-932)

JAN 30 2001

### NOTICE

Phillips Petroleum Company : Oil and Gas  
Attn: W. H. Rainbolt, Rocky Mtn. Region-Land :  
Box 1967 :  
Houston, TX 77251-1967 :

### Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of River Gas Corporation into Phillips Petroleum Company with Phillips Petroleum Company being the surviving entity.

The oil and gas lease files and rights-of-way files identified on the enclosed exhibit have been noted as to the merger. The exhibit is the list supplied by the representative of the companies, and verified by our computerized records. We have not adjudicated the case files to determine if the entity affected by the merger holds an interest in the leases identified, nor have we attempted to identify leases where the entity is the operator on the ground, maintaining no vested record title or operating rights interest. We are notifying the Minerals Management Service and all applicable BLM offices of the merger by a copy of this notice. If additional documentation for a change of operator is required by our Field Offices, you will be contacted by them.

By recognition of the merger the obligor is automatically changed by operation of law from River Gas Corporation to Phillips Petroleum Company on Letter of Credit No. P-207337 (BLM Bond No. UT0829). A rider to BLM Bond No. ES0048 assuming any and all liabilities of BLM Bond No. UT0829 must be submitted for approval to the Eastern States Office, Attn: Bill Forbes, 7450 Boston Boulevard, Springfield, VA 22153. After the rider is approved, the Letter of Credit will be returned to the financial institution that issued it.

**ROBERT LOPEZ**

Robert Lopez  
Chief, Branch of  
Minerals Adjudication

Enclosure  
Exhibit of Leases

RECEIVED

FEB 02 2001

DIVISION OF  
OIL, GAS AND MINING

cc: Moab Field Office  
Vernal Field Office  
Price Field Office  
MMS-Reference Data Branch, MS 3130, P.O. Box 5860, Denver, CO 80217  
State of Utah, DOGM, Attn: Jim Thompson (Ste. 1210), Box 145801, SLC, UT 84114  
The Chase Manhattan Bank, Attn: Standby Letter of Credit Dept., 4 Chase Metrotech Center, 8<sup>th</sup> Floor  
Brooklyn, NY 11245  
Teresa Thompson (UT-931)  
LaVerne Steah (UT-942)  
Pruitt, Gushee & Bachtell, Attn: Frederick M. MacDonald, Suite 1850 Beneficial Life Tower,  
Salt Lake City, Utah 84111-1495  
BLM, Eastern States Office (Attn: Bill Forbes)

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH	<input checked="" type="checkbox"/>	4-KAS	<input checked="" type="checkbox"/>
2. CDW		5- <del>STP</del>	<input checked="" type="checkbox"/>
3. JLT		6-FILE	

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

**X Merger**

The operator of the well(s) listed below has changed, effective: **12-31-2000**

<b>FROM: (Old Operator):</b>
RIVER GAS CORPORATION
Address: 6825 S. 5300 W. P. O. BOX 851
PRICE, UT 84501
Phone: 1-(435)-613-9777
Account N1605

<b>TO: (New Operator):</b>
PHILLIPS PETROLEUM COMPANY
Address: P. O. BOX 3368
ENGLEWOOD, CO 80155-3368
Phone: 1-(720)-344-4984
Account N1475

**CA No.**

**Unit: DRUNKARDS WASH**

**WELL(S)**

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
FAUSETT D5	43-007-30351	12165	16-14S-09E	Fee	SWD	A
ARCADIA-TELONIS 1 (D-2)	43-007-30093	99990	19-14S-09E	Fee	SWD	A
UTAH D-4	43-007-30314	11256	24-14S-09E	State	SWD	A
UTAH M-1	43-007-30199	11256	26-14S-09E	State	SWD	A
UTAH D-9	43-007-30438	12771	32-14S-09E	State	SWD	A
USA D6	43-007-30100	12466	34-14S-09E	Federal	SWD	A
DRUNKARDS WASH 31-1 (D-1)	43-007-30040	11256	31-14S-10E	State	SWD	A
UTAH D8	43-007-30431	11256	12-15S-09E	State	SWD	A
RGC D-10	43-007-30520	12545	28-15S-09E	Fee	SWD	A
UTAH M-2	43-007-30066	2889	34-15S-09E	Federal	TW	A
SAMPINOS D-14	43-007-30567	12729	16-15S-10E	Fee	SWD	A
UTAH D-3	43-007-30290	11256	18-15S-10E	State	SWD	A
UTAH D7	43-015-30338	12404	02-16S-09E	State	SWD	A
D-11	43-015-30356	12572	13-16S-09E	Federal	SWD	A

**OPERATOR CHANGES DOCUMENTATION**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 01/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 01/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 02/15/2001

4. Is the new operator registered in the State of Utah: YES Business Number: 562960-0143
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: 01/30/2001
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
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") Pro:** 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: 02/22/2001

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 02/20/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 02/20/2001
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.: 5952189

**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: P-207328
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: N/A

**FILMING:**

1. All attachments to this form have been **MICROFILMED** on: 2.22.01

**FILING:**

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

**COMMENTS:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



9780 Mt. Plover, O.G. Ste. 200  
Englewood, CO 80112

Divisions of Oil, Gas, and Mining  
Attn: Mr. John Baza  
1594 West North Temple,  
Suite 1210, P. O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Notice of Address Change, Merger and Name Change  
Address Change effective **December 2, 2002**  
Merger and Name Change effective **December 31, 2002**

Gentlemen:

1. Effective December 2, 2002, Phillips Petroleum Company will close its Englewood, Colorado Rocky Mountain Region office. After that time, all correspondence, notices and invoice for Land related matters should be directed to the address(es) noted below. Note that until December 31, 2002, all properties in which Phillips held an interest will continue to be operated by Phillips Petroleum Company, a wholly-owned subsidiary of ConocoPhillips.

2. On December 31, 2002, Phillips Petroleum Company and Conoco Inc. will merge, and the surviving corporation will be renamed "ConocoPhillips Company".

In accordance with the notice provisions of the Operating Agreements and other agreements, if any, between our companies, please adjust your company/organization records, effective for address purposes as of December 2, 2002, and for company name purposes, as of January 1, 2003, to reflect the following information for addressing and delivery of notices, invoicing and payment, and communications with ConocoPhillips Company. This will also apply to Lease Sale notices and other lease-related correspondence and notifications.

**U.S. Mail Address:**

ConocoPhillips Company  
P.O. Box 2197  
Houston, Texas 77252  
Attn: Chief Landman,  
San Juan/Rockies

**Physical Address & Overnight Delivery:**

ConocoPhillips Company  
550 Westlake Park Blvd.  
Three Westlake Park  
3WL, Room WL 9000  
Houston, Texas 77079  
Attn: Chief Landman,  
San Juan/Rockies

**All ballots and official notices/responses sent by facsimile transmission should be sent to the following contact:**

Attn: Chief Landman,  
San Juan/Rockies

Fax No.: 832-486-2688 or  
832-486-2687

Please contact the undersigned immediately if you have any questions. This notice does not apply to royalty inquiries, joint interest billings, or revenue remittances. Please continue to use the same addresses you are currently using for these matters

Sincerely,

*William Rainbolt*

**RECEIVED**

DEC 02 2002

DIVISION OF  
OIL, GAS AND MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>All</u>		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: <b>Phillips Petroleum Company</b>		8. WELL NAME and NUMBER: <b>See Attached List</b>
3. ADDRESS OF OPERATOR: <b>980 Plaza Office</b> CITY <b>Bartlesville</b> STATE <b>OK</b> ZIP <b>74004</b>		9. API NUMBER: <b>See List</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>See Attached List</b>		10. FIELD AND POOL, OR WILDCAT:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY:
		STATE: <b>UTAH</b>

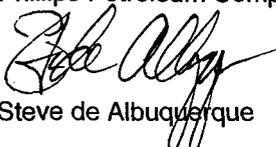
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

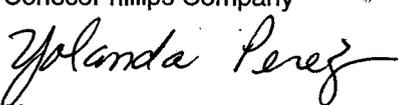
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT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

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

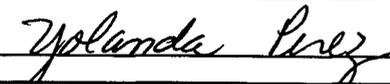
Conoco Inc. was merged into Phillips Petroleum Company, the surviving corporation, on December 31, 2002. In connection with this merger and effective on the same date, the name of the surviving corporation was changed to "ConocoPhillips Company". We are requesting that a new Operator Number be assigned to ConocoPhillips Company.

Please send production reporting forms to Herb Henderson at ConocoPhillips Company, 315 S. Johnstone, 980 Plaza Office, Bartlesville, OK 74004. Herb's phone number is 918-661-4415.

Current Operator  
Phillips Petroleum Company  
  
Steve de Albuquerque

New Operator  
ConocoPhillips Company  
  
Yolanda Perez

**RECEIVED**  
**JAN 08 2003**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Yolanda Perez</u>	TITLE <u>Sr. Regulatory Analyst</u>
SIGNATURE 	DATE <u>12/30/2002</u>

(This space for State use only)

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

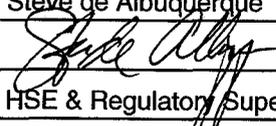
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

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

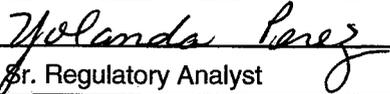
**EFFECTIVE DATE OF TRANSFER:** 1/1/2003

**CURRENT OPERATOR**

Company: <u>Phillips Petroleum Company</u>	Name: <u>Steve de Albuquerque</u>
Address: <u>980 Plaza Office</u>	Signature: 
city <u>Bartlesville</u> state <u>OK</u> zip <u>74004</u>	Title: <u>HSE &amp; Regulatory Supervisor</u>
Phone: <u>(918) 661-4415</u>	Date: <u>12/30/2002</u>

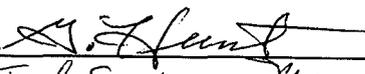
Comments: Conoco Inc. and Phillips Petroleum Company merged to form ConocoPhillips Company. Please see attached list of wells effected by name change.

**NEW OPERATOR**

Company: <u>ConocoPhillips Company</u>	Name: <u>Yolanda Perez</u>
Address: <u>P. O. Box 2197, WL3 4066</u>	Signature: 
city <u>Houston</u> state <u>TX</u> zip <u>77252</u>	Title: <u>Sr. Regulatory Analyst</u>
Phone: <u>(832) 486-2329</u>	Date: <u>12/30/2002</u>

Comments: Conoco Inc. and Phillips Petroleum Company merged to form ConocoPhillips Company. Please see attached list of wells effected by name change.

(This space for State use only)

Transfer approved by:   
Title: Tech. Services Manager

Approval Date: 2-3-03

Comments: D5, D2 + D3 are due for MIT.

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**JAN 08 2003**

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UIC Well List

SWD WELLS							
api	well_name	section	township	range	well_type	well_status	lease_type
4300730093	ARCADIA-TELONIS 1 (D-2)	19	140S	090E	WD	A	FEE
4301530356	D-11	13	160S	090E	WD	A	FEDERAL
4300730040	DRUNKARDS WASH 31-1 (D-1)	31	140S	100E	WD	A	STATE
4300730351	FAUSETT D5	16	140S	090E	WD	A	FEE
4301530531	PPCO D13	30	160S	090E	WD	DRL	FEE
4300730520	RGC D-10	28	150S	090E	WD	A	FEE
4300730567	SAMPINOS D-14	16	150S	100E	WD	A	FEE
4300730100	USA D6	34	140S	090E	WD	A	FEDERAL
4300730819	UTAH D15	34	130S	090E	WD	APD	STATE
4300730290	UTAH D-3	18	150S	100E	WD	A	STATE
4300730314	UTAH D-4	24	140S	090E	WD	A	STATE
4301530338	UTAH D7	02	160S	090E	WD	A	STATE
4300730431	UTAH D8	12	150S	090E	WD	A	STATE
4300730438	UTAH D-9	32	140S	090E	WD	A	STATE
4300730199	UTAH M-1	26	140S	090E	TW	A	STATE
4300730066	UTAH M-2	34	150S	090E	TW	A	FEDERAL

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List of Produced Water Ponds/Pits

	Permit/ License No.	State/Federal		Immediate Name Change Required		Other Immediate Actions Required*		Agency	Agency Contact Name	Agency Contact Number
		S	F	Y	N	Y	N			
1	EVAPORATION POND	X		X				Utah Dept of Natural Resources, Dept. of Oil Gas and Mining	Gil Hunt	(801) 538-5340
2	D-1 POND	X		X				Utah Dept of Natural Resources, Dept. of Oil Gas and Mining	Gil Hunt	(801) 538-5340
3	D-2 (C-2) POND	X		X				Utah Dept of Natural Resources, Dept. of Oil Gas and Mining	Gil Hunt	(801) 538-5340
4	D-3 POND	X		X				Utah Dept of Natural Resources, Dept. of Oil Gas and Mining	Gil Hunt	(801) 538-5340

\* Describe: OPERATIONAL PERMITS FOR PRODUCED WATER PONDS

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DIV. OF OIL, GAS & MINING

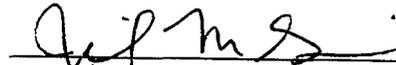


## SECRETARY'S CERTIFICATE

I, the undersigned, Jennifer M. Garcia, Assistant Secretary of ConocoPhillips Company, formerly Phillips Petroleum Company, organized and existing under and by virtue of the laws of the State of Delaware (the "Corporation"), hereby certify that:

1. As Assistant Secretary I am authorized to execute this certificate on behalf of the Corporation.
2. The attached photocopy of the Certificate of Amendment to the Restated Certificate of Incorporation of Phillips Petroleum Company (to be renamed ConocoPhillips Company) is a true and correct copy as filed in the office of the Secretary of State of Delaware on the 12<sup>th</sup> day of December 2002, with an effective date of January 1, 2003 and such Certificate of Amendment has not been modified, amended, rescinded or revoked and is in full force and effect as of the date hereof.
3. The attached photocopy of the Certificate of Merger of Conoco Inc. with and into ConocoPhillips Company is a true and correct copy as filed in the office of the Secretary of State of Delaware on the 12<sup>th</sup> day of December 2002, with an effective date of December 31, 2002 and such Certificate of Merger has not been modified, amended, rescinded or revoked and is in full force and effect as of the date hereof.

IN WITNESS WHEREOF, I have hereunto set my hand as Assistant Secretary and affixed the corporate seal of the Corporation this 7th day of January 2003.

  
 Assistant Secretary  
 ConocoPhillips Company

STATE OF TEXAS

§  
§  
§

COUNTY OF HARRIS

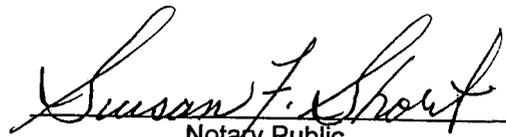
This instrument was acknowledged before me on January 7, 2003, by Jennifer M. Garcia, Assistant Secretary of ConocoPhillips Company, a Delaware corporation, on behalf of said Corporation.



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JAN 08 2003

DIV. OF OIL, GAS & MINING

  
 Notary Public

# Delaware

PAGE 1

*The First State*

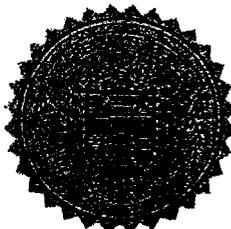
I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "PHILLIPS PETROLEUM COMPANY", CHANGING ITS NAME FROM "PHILLIPS PETROLEUM COMPANY" TO "CONOCOPHILLIPS COMPANY", FILED IN THIS OFFICE ON THE TWELFTH DAY OF DECEMBER, A.D. 2002, AT 1:41 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2002, AT 11 O'CLOCK P.M.

RECEIVED

JAN 08 2003

DIV. OF OIL, GAS & MINING



0064324 8100

030002793

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 2183360

DATE: 01-02-03

**CERTIFICATE OF AMENDMENT**

to the

**RESTATED CERTIFICATE OF INCORPORATION**

of

**PHILLIPS PETROLEUM COMPANY  
(to be renamed ConocoPhillips Company)**

Phillips Petroleum Company ("Phillips"), a corporation organized and existing under the General Corporation Law of the State of Delaware (the "DGCL"), hereby certifies that:

1. The amendments to Phillips' Restated Certificate of Incorporation set forth below were duly adopted in accordance with the provisions of Section 242 of the DGCL and have been consented to in writing by the sole stockholder of Phillips in accordance with Section 228 of the DGCL.

2. Phillips' Restated Certificate of Incorporation is hereby amended by deleting Article I thereof and replacing in lieu thereof a new Article I reading in its entirety as follows:

"The name of the corporation (which is hereinafter referred to as the "Corporation") is ConocoPhillips Company."

3. Phillips' Restated Certificate of Incorporation is hereby amended by deleting Section 1 of Article IV thereof and replacing in lieu thereof a new Section 1 reading in its entirety as follows:

"Section 1. The Corporation shall be authorized to issue 2,100 shares of capital stock, of which 2,100 shares shall be shares of Common Stock, \$.01 par value ("Common Stock")."

4. Pursuant to Section 103(d) of the DGCL, this amendment will become effective at 11:00 p.m., Eastern time, on December 31, 2002.

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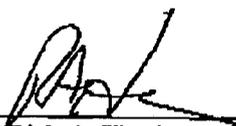
DIV. OF OIL, GAS & MINING

IN WITNESS WHEREOF, Phillips has caused this certificate to be executed this 12th day of December, 2002.

PHILLIPS PETROLEUM COMPANY

W

By: \_\_\_\_\_



Name:

Rick A. Harrington

Title:

Senior Vice President, Legal,  
and General Counsel

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DIV. OF OIL, GAS & MINING

# Delaware

PAGE 1

*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"CONOCO INC.", A DELAWARE CORPORATION,

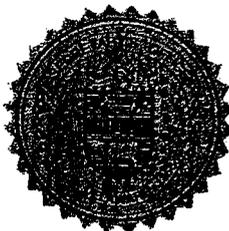
WITH AND INTO "CONOCOPHILLIPS COMPANY" UNDER THE NAME OF "CONOCOPHILLIPS COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWELFTH DAY OF DECEMBER, A.D. 2002, AT 1:44 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2002, AT 11:59 O'CLOCK P.M.

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JAN 08 2003

DIV. OF OIL, GAS & MINING



0064324 8100M

030002793

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 2183370

DATE: 01-02-03

**CERTIFICATE OF MERGER**

of

**Conoco Inc.**  
(a Delaware corporation)

with and into

**ConocoPhillips Company**  
(a Delaware corporation)

Phillips Petroleum Company, a Delaware corporation to be renamed ConocoPhillips Company prior to the effective time of this certificate of merger (the "Surviving Corporation"), in compliance with the requirements of the General Corporation Law of the State of Delaware (the "DGCL") and desiring to effect a merger of Conoco Inc., a Delaware corporation formerly incorporated under the name Du Pont Holdings, Inc. (the "Merging Corporation" and together with the Surviving Corporation, the "Constituent Corporations"), with and into the Surviving Corporation, and acting by its duly authorized officer, DOES HEREBY CERTIFY that:

**First:** As of the date hereof, the name and state of incorporation of each of the Constituent Corporations of the merger are as follows:

<u>NAME</u>	<u>STATE OF INCORPORATION</u>
PHILLIPS PETROLEUM COMPANY	Delaware
CONOCO INC.	Delaware

**Second:** An agreement and plan of merger has been approved, adopted, certified, executed and acknowledged by each of the Constituent Corporations in accordance with the requirements of Section 251 of the DGCL;

**Third:** The name of the Surviving Corporation will be ConocoPhillips Company;

**Fourth:** The Certificate of Incorporation of ConocoPhillips Company immediately prior to the merger shall be the Certificate of Incorporation of the Surviving Corporation until such time as it may be amended in accordance with applicable law and the provisions thereof;

**Fifth:** The executed agreement and plan of merger is on file at an office of the Surviving Corporation, the address of which is 600 North Dairy Ashford, Houston, Texas 77079;

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DIV. OF OIL, GAS & MINING

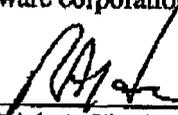
**Sixth:** A copy of the agreement and plan of merger will be furnished by the Surviving Corporation, on request and without cost, to any stockholder of any Constituent Corporation; and

**Seventh:** Pursuant to Section 103(d) of the DGCL, this certificate of merger will become effective at 11:59 p.m., Eastern time, on December 31, 2002.

Dated: December 12, 2002

**PHILLIPS PETROLEUM COMPANY**  
(a Delaware corporation)

27

By:   
Name: Rick A. Harrington  
Title: Senior Vice President, Legal,  
and General Counsel

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JAN 08 2003  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF COMMERCE  
REGISTRATION

CONOCOPHILLIPS COMPANY

EFFECTIVE  
06/14/1946

EXPIRATION  
\*RENEWAL

REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S)

Corporation - Foreign - Profit  
562960-0143

UNITED STATES CORP CO  
CONOCOPHILLIPS COMPANY  
GATEWAY TOWER EAST STE 900  
10 EAST SOUTH TEMPLE  
SLC UT 84133

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JAN 08 2003

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF COMMERCE  
DIVISION OF CORPORATIONS & COMMERCIAL CODE  
REGISTRATION

EFFECTIVE DATE: 06/14/1946  
EXPIRATION DATE: \*RENEWAL  
ISSUED TO: CONOCOPHILLIPS COMPANY



REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S)

562960-0143 Corporation - Foreign - Profit

\*RENEWAL

You will need to renew your registration each anniversary date of the effective date.  
Exceptions: DBAs and Business Trusts renew every three (3) years from the effective date.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Eastern States Office  
7450 Boston Boulevard  
Springfield, Virginia 22153

IN REPLY REFER TO  
3106.8(932.34)WF

January 16, 2003

### NOTICE

ConocoPhillips Company	:	Oil & Gas Leases
P.O. Box 7500	:	
Bartlesville, Oklahoma 74005	:	

#### Merger/Name Change Recognized

Acceptable evidence was received in this office on January 14, 2003, concerning the change of name of Phillips Petroleum Company to **ConocoPhillips Company** and the merger of **Conoco Incorporated** into **ConocoPhillips Company** on Federal oil and gas leases, with **ConocoPhillips Company being the surviving entity.**

The Secretary of the State of Delaware certified the effective date of this merger effective December 31, 2002.

The oil and gas lease files identified on the enclosed exhibit have been noted to the merger. The exhibit was compiled from a list of leases obtained from your list of leases. Eastern States has not abstracted the lease files to determine if the entities affected by this merger hold an interest in the leases identified nor have we attempted to identify leases where the entities are the operator on the ground maintaining no vested record title or operating rights interest. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of this merger and name change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

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

By Operation of law the name of the principal on Nationwide Oil and Gas Bond held by Conoco Incorporated (ES0085) has been changed to ConocoPhillips Company.

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

*S/ Wilbert B. Forbes*

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

bc: JFO, BLM State Offices, MMS, ES RF, 930 RF, ES-932:  
Bforbes:wbf:01/16/03:440-1536/ConocoPhillips Co

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH	<input checked="" type="checkbox"/>
2. CDW	<input type="checkbox"/>
3. FILE	<input type="checkbox"/>

Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

**X Merger**

The operator of the well(s) listed below has changed, effective: **12-31-02**

<b>FROM: (Old Operator):</b>	<b>TO: (New Operator):</b>
PHILLIPS PETROLEUM COMPANY	CONOCOPHILLIPS COMPANY
Address: 980 Plaza Office	Address: P O BOX 2197, WL3 4066
Bartlesville, OK 74004	HOUSTON, TX 77252
Phone: 1-(918)-661-4415	Phone: 1-(832)-486-2329
Account No. N1475	Account No. N2335

**CA No.**

**Unit:**

**WELL(S)**

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
UTAH D-15	34-13S-09E	43-007-30819	99999	STATE	SWD	APD
FAUSETT D-5	16-14S-09E	43-007-30351	12165	FEE	SWD	A
ARCADIA-TELONIS 1 (D-2)	19-14S-09E	43-007-30093	99990	FEE	SWD	A
UTAH D-4	24-14S-09E	43-007-30314	11256	STATE	SWD	A
UTAH M-1	26-14S-09E	43-007-30199	11256	STATE	TW	A
UTAH D-9	32-14S-09E	43-007-30438	12771	STATE	SWD	A
USA D-6	34-14S-09E	43-007-30100	12466	FEDERAL	SWD	A
UTAH D-8	12-15S-09E	43-007-30431	11256	STATE	SWD	A
RGC D-10	28-15S-09E	43-007-30520	12545	FEE	SWD	A
UTAH M-2	34-15S-09E	43-007-30066	2889	FEDERAL	TW	A
DRUNKARDS WASH 31-1 (D-1)	31-14S-10E	43-007-30040	11256	STATE	SWD	A
SAMPINOS D-14	16-15S-10E	43-007-30567	12729	FEE	SWD	A
UTAH D-3	18-15S-10E	43-007-30290	11256	STATE	SWD	A
UTAH D-7	02-16S-09E	43-015-30338	12404	STATE	SWD	A
D-11	13-16S-09E	43-015-30356	12572	FEDERAL	SWD	A
PPCO D13	30-16S-09E	43-015-30531	99999	FEE	SWD	DRL

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 01/08/2003
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 01/08/2003
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 02/03/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 562960-0143
5. If **NO**, the operator was contacted on: \_\_\_\_\_

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

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 01/14/2003

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 01/14/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: 01/14/2003

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 02/04/2003

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 02/03/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 02/03/2003
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

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

1. State well(s) covered by Bond Number: 8140-60-24

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

1. Federal well(s) covered by Bond Number: 8015-16-69

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

1. Indian well(s) covered by Bond Number: N/A

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

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 6196922
2. The **FORMER** operator has requested a release of liability from their bond on: N/A  
The Division sent response by letter on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Disposal Well</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>FEE</b>
2. NAME OF OPERATOR: <b>ConocoPhillips Company</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>NA</b>
3. ADDRESS OF OPERATOR: <b>P.O. Box 851</b> CITY <b>Price</b> STATE <b>UT</b> ZIP <b>84501</b>		7. UNIT or CA AGREEMENT NAME: <b>Drunkards Wash UTU-67921X</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1513' FNL, 2437' FEL</b>		8. WELL NAME and NUMBER: <b>D-11</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWNE 13 T16 R09 S</b>		9. API NUMBER: <b>4309730356</b>
COUNTY: <b>Carbon Emery</b>		10. FIELD AND POOL, OR WILDCAT: <b>Drunkards Wash</b>
STATE: <b>UTAH</b>		

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

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

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

Please find the copy of the D-11 RATS as required by the UIC permit, issued 10/27/1999.

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

Date: 08-11-04  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 8-13-04  
Initials: [Signature]

**RECEIVED**  
**AUG 11 2004**

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Frankie Hathaway</u>	TITLE <u>Sr. Planning, Compliance &amp; HSE Assistant</u>
SIGNATURE <u>[Signature]</u>	DATE <u>8/9/2004</u>

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**ORIGINAL**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:  
~~FEE~~ UTU-65300

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

7. Unit Agreement Name:  
UTU67921X Drunkards Wash

8. Well Name and Number:  
Disposal #11

9. API Well Number:  
43-007-30356

10. Field or Pool, or Wildcat:  
Drunkards Wash

County: EMERY Carbon County

State: Utah

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator:  
ConocoPhillips Company

3. Address and Telephone Number:  
6825 South 5300 West, P.O. Box 851, Price, UT 84501 (435) 613-9777

4. Location of Well Footages:  
1513' FNL, 2437' FEL

QQ, Sec., T., R., M.:  
SW/NE, SEC. 13, T16S, R09E, SLB & M

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ Approximate date work will start _____	<input type="checkbox"/> Abandon * <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input checked="" type="checkbox"/> Other <u>Mechanical Integrity Test</u> Date of work completion <u>09/08/04</u>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Csg <input type="checkbox"/> Recomplete <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Csg <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  
\* Must be accompanied by a cement verification report.

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

A Mechanical Integrity test was conducted on the D-11 disposal well on 9/8/04. Prior to the test, a seal bore packer with tailpipe assembly was run and set with top of packer at 4900' GL. Top perforation is at 5080' GL. An "XN" plug was set in a profile nipple on the tailpipe below the packer and the 7" casing was tested to 1100 psi fir 30 minutes with no leak-off.

A DOGM representative was not present for the test because an injection profile/temperature log survey was run earlier this year, satisfying permit requirements for an annual MIT.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 11-15-04  
By: [Signature]

RECEIVED  
OCT 01 2004

DIV. OF OIL, GAS & MINING

13. Name & Signature: Michael Ward Michael E Ward Title: Engineer Date: 09/27/2004

(This space for state use only)

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 65300
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: Drunkards Wash UTU67921X
		8. WELL NAME and NUMBER: Utah D 11
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Disposal</u>	9. API NUMBER: 4301530356	
2. NAME OF OPERATOR: ConocoPhillips Company	10. FIELD AND POOL, OR WILDCAT: Drunkards Wash	
3. ADDRESS OF OPERATOR: P.O. Box 51810 CITY Midland STATE TX ZIP 79710	PHONE NUMBER: (432) 688-6943	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1513 FNL & 2437 FEL COUNTY: Emery		
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 16S 9E STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>12/1/2008</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Testing</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

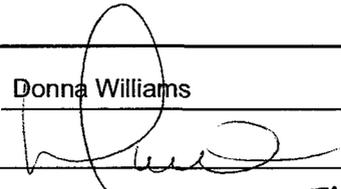
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

To follow up the conversation with Dustin Doucet, ConocoPhillips Company respectfully request the following procedure:

1. TIH w/slickline set blanking plug and set in X nipple.
2. Load hole and let stand for a couple of days. Schedule witnessed test with DOGM representative
3. Pressure test and chart to 1000 psi. File w/DOGM

The integrity test performed during this procedure will meet the permit requirements. The next scheduled MIT would be in five years.

**COPY SENT TO OPERATOR**  
Date: 12.4.2008  
Initials: KS

NAME (PLEASE PRINT) <u>Donna Williams</u>	TITLE <u>Sr. Regulatory Specialist</u>
SIGNATURE 	DATE <u>11/18/2008</u>

(This space for State use only)

**APPROVED BY THE STATE**  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 11/26/08  
BY: [Signature]  
(See Instructions on Reverse Side)

**RECEIVED**  
NOV 20 2008  
DIV. OF OIL, GAS & MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>D-11</u>	API Number: <u>4301530356</u>
Qtr/Qtr: <u>SWNE</u> Section: <u>13</u>	Township: <u>16 S</u> Range: <u>9 E</u>
Company Name: <u>Conoco Phillips</u>	
Lease: State _____ Fee _____	Federal <u>X</u> Indian _____
Inspector: <u>Mark Jones</u>	Date: <u>12/11/08</u>

Initial Conditions:

Tubing - Rate: 0 Pressure: 0 psi  
 Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1060 #</u>	<u>0</u>
5		
10	<u>1060 #</u>	<u>0</u>
15		
20	<u>1060 #</u>	<u>0</u>
25		
30	<u>1060 #</u>	<u>0</u>

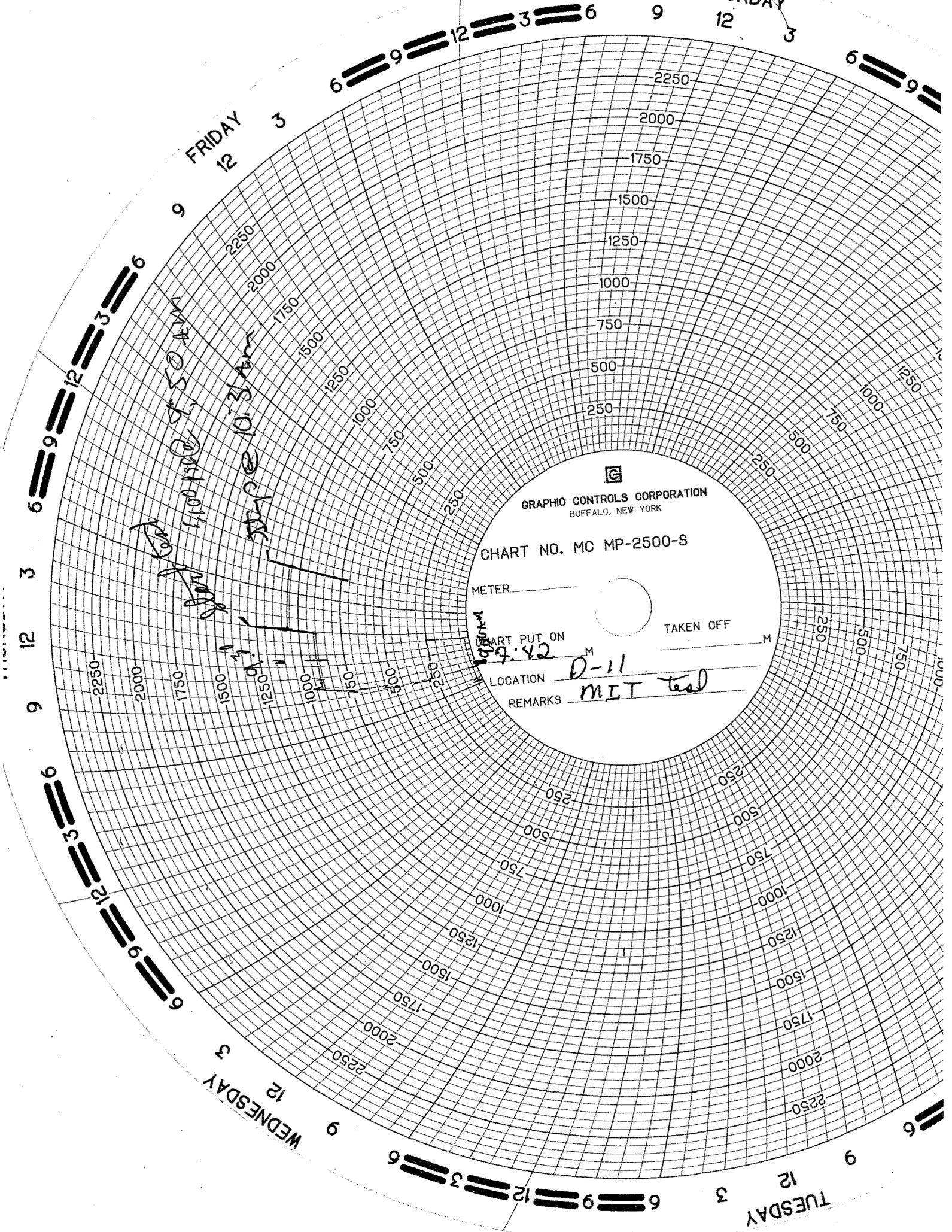
Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psi  
 Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: Plug set in xN nipple 4926'. Packer @ 4899'.  
5080 - 5193'. No tubing.

Tolly J. O'Dell  
 Operator Representative



FRIDAY  
12 3

SATURDAY  
9 12 3

WEDNESDAY  
12 3

TUESDAY  
3 9 12

GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO. MC MP-2500-S

METER \_\_\_\_\_

CHART PUT ON

TAKEN OFF \_\_\_\_\_

7:42 M  
LOCATION

D-11

REMARKS

MIT test