

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

3 1095  
Lease Designation and Serial No.  
ML-38669

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work  
DRILL  DEEPEN  PLUG BACK

b. Type of Well  
Oil Well  Gas Well  Other Coalbed Methane  Single Zone  Multiple Zone

2. Name of Operator  
River Gas Corporation

3. Address of Operator  
511 Energy Center Boulevard Northport, Al. 35476

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
At surface 1320' FNL, 1320' FWL, Sec. 8, T15S, R10E

At proposed prod. zone same

14. Distance in miles and direction from nearest town or post office\*  
3.5 miles south-southwest of Price, Ut.

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest driz. line, if any) 1320'

13. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft. 2500'

21. Elevations (Show whether DF, RT, GR, etc.)  
5737' GR Surveyed

22. Approx. date work will start\*  
July 1, 1995

16. No. of acres in lease 640

17. No. of acres assigned to this well 160

19. Proposed depth 2600'

20. Rotary or cable tools  
Rotary

12. County or Parrish Carbon

13. State Ut.

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name  
Drunkards Wash UTU67921X

8. Farm or Lease Name  
Utah

9. Well No.  
08-98

10. Field and Pool, or Wildcat  
Wildcat

11. Q., Sec., T., R., M., or Blk. and Survey or Area  
NW/4 Sec. 8, T15S, R10E

23. PROPOSED CASING AND CEMENTING PROGRAM

| Size of Hole | Size of Casing | Weight per Foot | Setting Depth | Quantity of Cement |
|--------------|----------------|-----------------|---------------|--------------------|
| 11"          | 8 5/8"         | 24#             | 300'          | 110 SX             |
| 7-7/8"       | 5-1/2"         | 17#             | 2570'         | 265 SX             |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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. I hereby certify that this report is true and complete to the best of my knowledge.

Signed Terry D. Burns *Terry D. Burns* Title Geologist Date March 30, 1995

(This space for Federal or State office use)

API NO. 43-007-30273 Approval Date

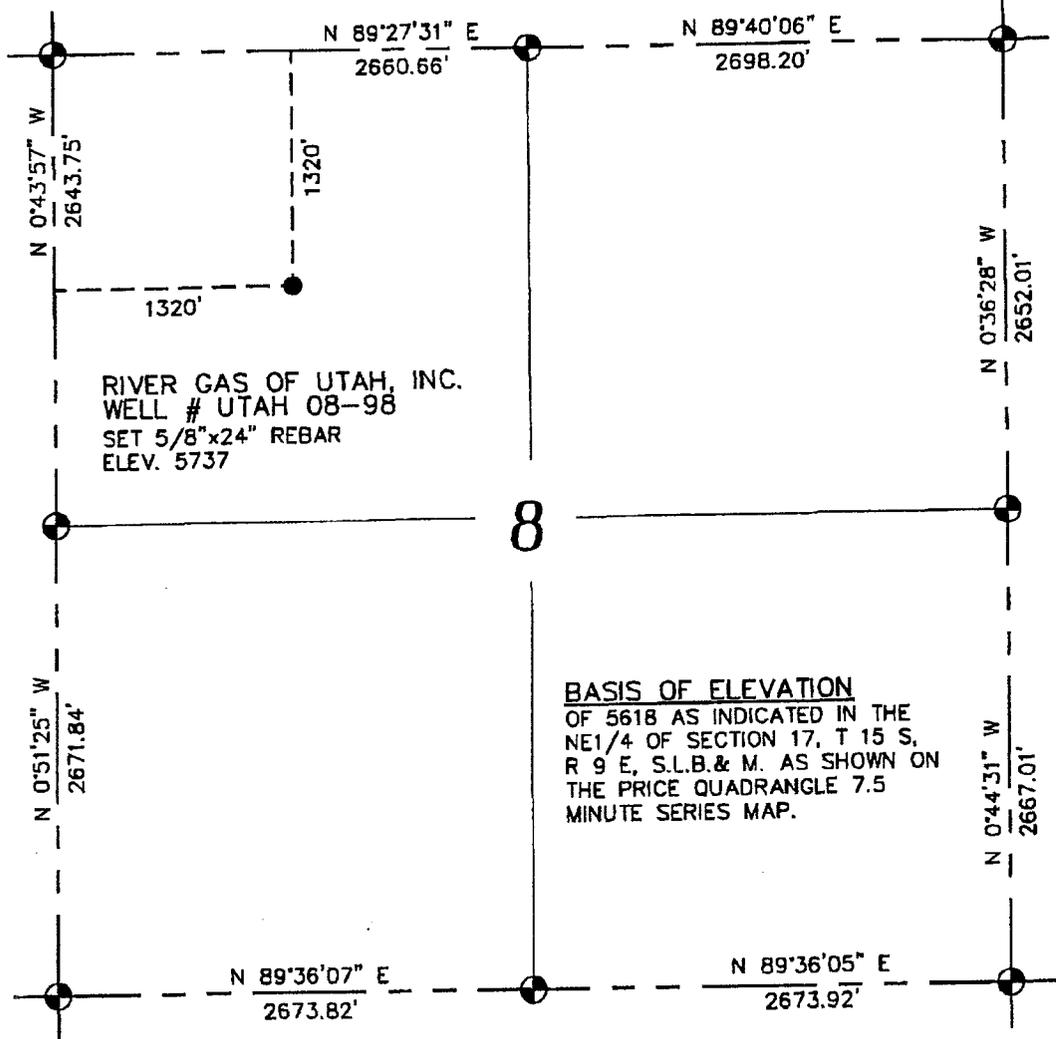
Approved by *J.P. Matthews* Title Petroleum Engineer Date 5/19/95

Conditions of approval, if any:

\*See Instructions On Reverse Side

TOWNSHIP 15 SOUTH

RANGE 10 EAST



RIVER GAS OF UTAH, INC.  
WELL # UTAH 08-98  
SET 5/8"x24" REBAR  
ELEV. 5737

**BASIS OF ELEVATION**  
OF 5618 AS INDICATED IN THE  
NE1/4 OF SECTION 17, T 15 S,  
R 9 E, S.L.B. & M. AS SHOWN ON  
THE PRICE QUADRANGLE 7.5  
MINUTE SERIES MAP.



**LEGEND**

- FOUND BRASS CAP
- SEARCHED FOR BUT NOT FOUND
- ◇ FOUND ROCK CORNER

**BASIS OF BEARING**

BASIS OF BEARING N 0°36'28" W MEASURED  
BETWEEN THE E1/4 CORNER AND THE NE CORNER  
OF SECTION 8, TOWNSHIP 15 SOUTH, RANGE 10  
EAST, SALT LAKE BASE AND MERIDIAN.



**ENGINEER'S CERTIFICATE**

I, EVAN E. HANSEN, DO HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR AND PROFESSIONAL ENGINEER HOLDING CERTIFICATE NO. 145656 AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH. I FURTHER CERTIFY THAT I HAVE MADE A SURVEY OF THE TRACT OF GROUND SHOWN AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

*Evan E. Hansen* 3/25/95  
EVAN E. HANSEN DATE

NW1/4 SEC. 8, T 15 S, R 10 E, S.L.B. & M.

**Empire Engineering**

1665 E. Sagewood Rd. Price, Utah 84501

RIVER GAS OF UTAH, INC.  
WELL # UTAH 08-98

|                  |                     |                           |
|------------------|---------------------|---------------------------|
| Drawn By:<br>THK | Approved By:<br>EEH | Drawing No.<br>EEOG-95-21 |
| Date:<br>3-25-95 | Scale:<br>1"=1000'  | SHEET 1 OF 2              |

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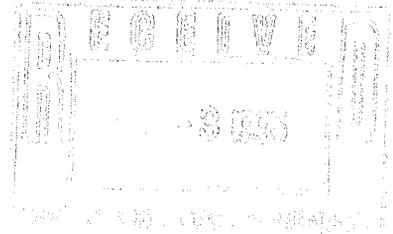


**RIVER GAS CORPORATION**

511 Energy Center Blvd.  
Northport, Alabama 35476  
Phone (205) 759-3282  
Fax (205) 759-3188

March 31, 1995

Mr. Michael Hebertson  
Utah Board of Oil, Gas, and Mining  
Suite 350, 3 Triad Center  
355 West North Temple  
Salt Lake City, Utah 84180-1203



RE: Application for Permit to Drill -  
Utah 08-98, NW 1/4 of Sec. 8, T15S, R10E  
S.L.B. & M., Carbon County, Utah

Dear Mr. Hebertson:

Enclosed is an original and one copy of an "Application for Permit to Drill" the well described above. Attached to the APD is the following information:

- Attachment #1 - Copy of survey plat of proposed well site
- Attachment #2 - Information regarding use of water at the site
- Attachment #3 - Schematic of B.O.P.
- Attachment #4 - Portion of topographic map indicating proposed well site
- Attachment #5 - Additional drilling information furnished according to State regulations
- Attachment #6 - Typical road cross-section
- Attachment #7 - Well location map
- Attachment #8 - Evidence of bond sent to State Lands and Forestry Division

Page Two

Also, please accept this letter as our request that all information regarding this permit be kept confidential, if said information is eligible for such consideration. This request is made in accordance with State of Utah Oil and Gas rule # R649-2-11.

Thank you for your assistance. Please feel free to contact me if you have questions.

Sincerely,



Terry D. Burns

Geologist

cc: Mr. Edward W. Bonner, Utah Department of Natural Resources  
Mr. Eric Jones, BLM in Moab, Utah  
Mr. Dean Nyffler, BLM in Price, Utah  
Mr. Robert A. Hendricks, BLM in Salt Lake City, Utah  
Mr. J.R. French, Texaco  
Mr. R.A. Lamarre, Texaco  
Mr. Gee Lake, Jr., Dominion Reserves



**RIVER GAS CORPORATION**

511 Energy Center Blvd.  
Northport, Alabama 35476  
Phone (205) 759-3282  
Fax (205) 759-3188

May 9, 1995

MAY 15 1995

Mr. Michael Hebertson  
Utah Board of Oil, Gas, and Mining  
Suite 350, 3 Triad Center  
Salt Lake City, Utah 84180-1203

Dear Mr. Hebertson:

The archaeological and "paleo" studies covering our area of 1995 development are complete. Please find enclosed the additions to the 10 permits that were filed around the 1st of April. If you have any questions, please give me a call.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Terry', written over a diagonal line.

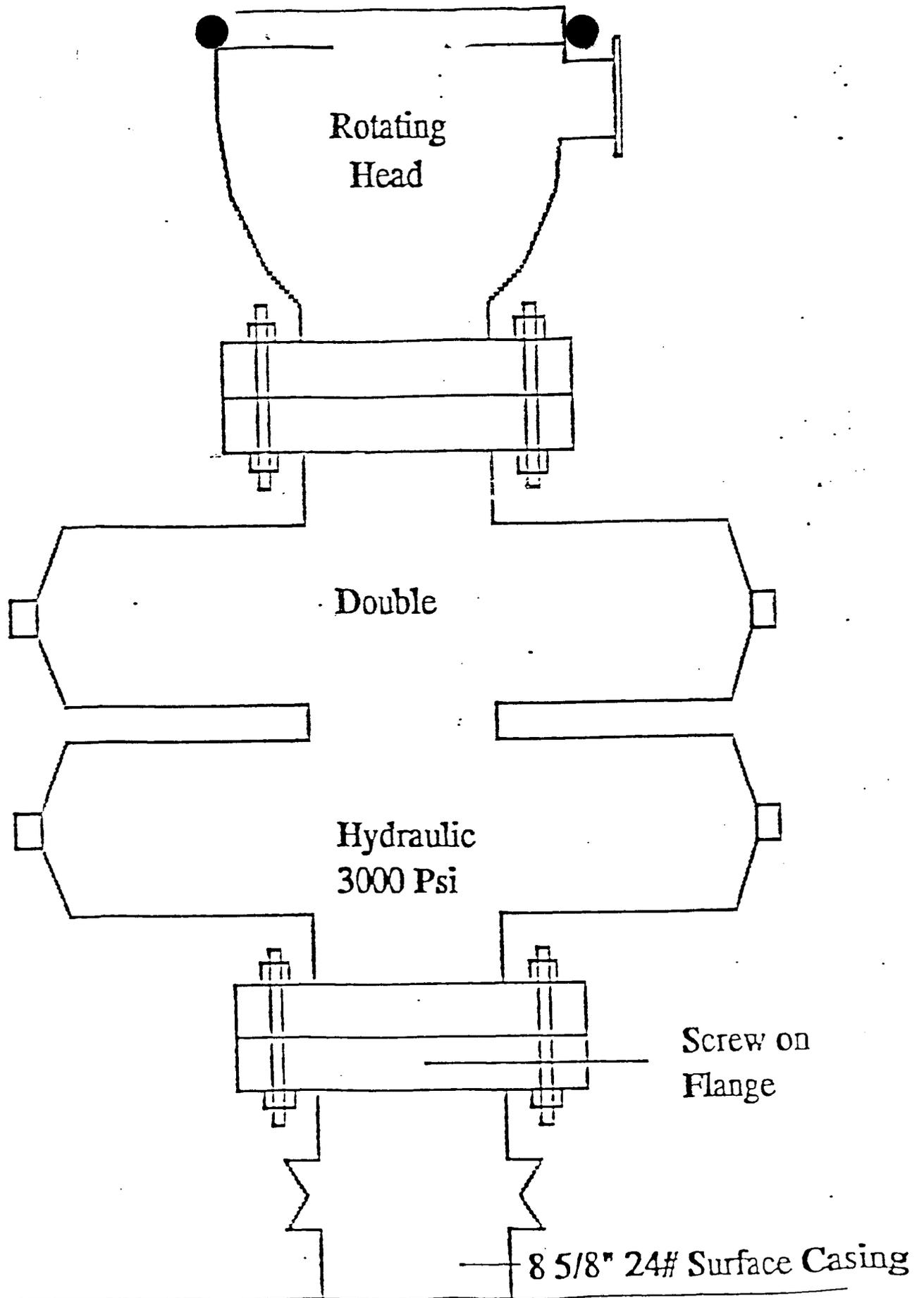
Terry D. Burns

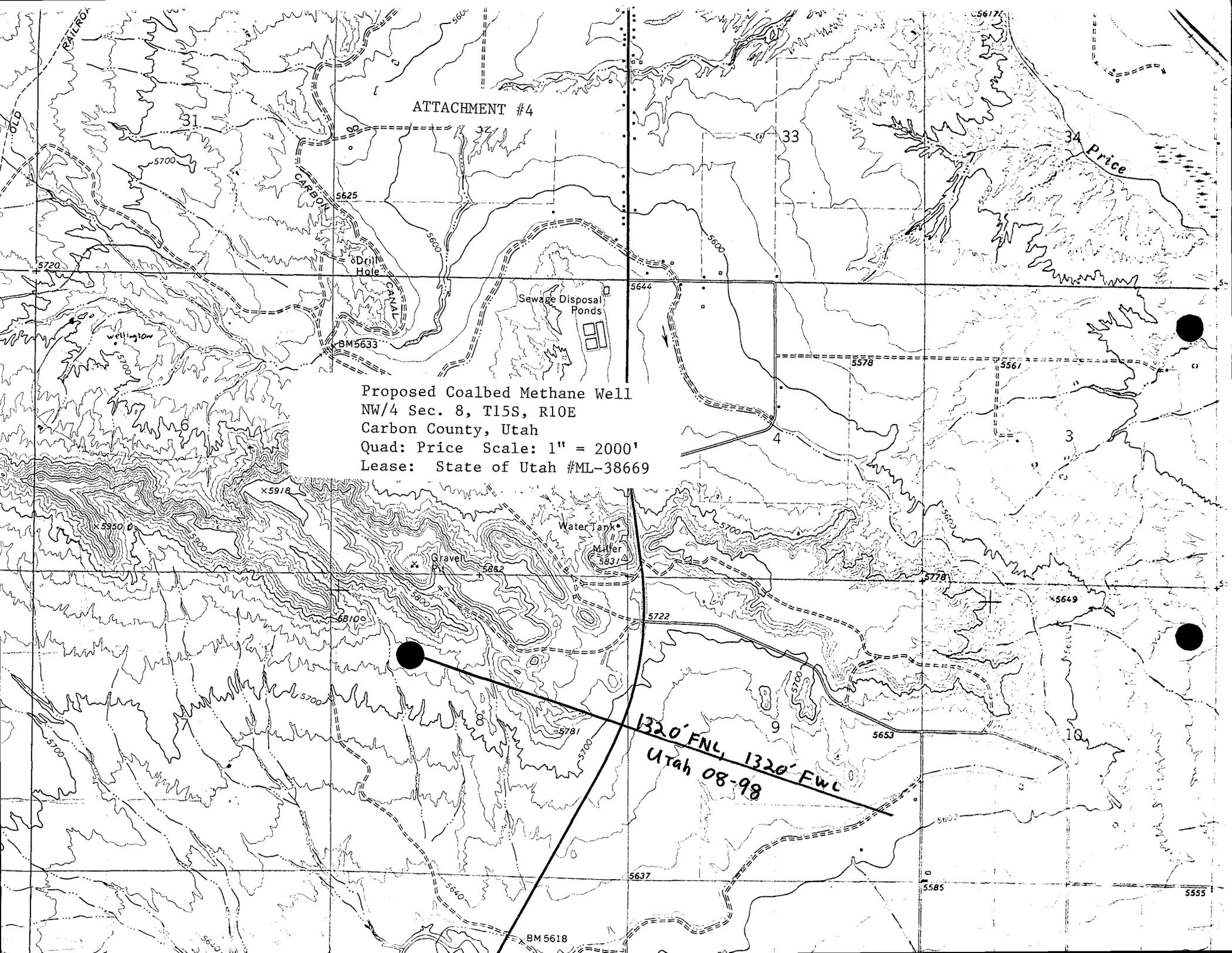
cc: Mr. Edward W. Bonner, S.I.T.L.A., Salt Lake City  
Mr. Robert A. Hendricks, BLM in Salt Lake City

RIVER GAS CORPORATION  
ATTACHMENT #2

RE: Use of Water During Drilling Operations

As stated, water which we will be using is to be purchased from the Price River Water Improvement District (Tel. 801-637-6350). This has been arranged by Mr. Michael J. Farrens, Drilling Supervisor for River Gas of Utah, Inc. He has been in contact with Mr. Phillip Palmer. Mr. Farrens has discussed this arrangement with Mark Page of the Division of Water Rights (Tel. 801-637-1303) over the telephone. The Division of Water Rights is to furnish the Oil & Gas Division with a letter of approval concerning this matter.





ATTACHMENT #4

Proposed Coalbed Methane Well  
NW/4 Sec. 8, T15S, R10E  
Carbon County, Utah  
Quad: Price Scale: 1" = 2000'  
Lease: State of Utah #ML-38669

1320' FWL, 1320' FWL  
Utah 08-98

BM 5618

Water Tank  
Miller 58374

Gravel Pit 5882

Sewage Disposal Ponds

Drill Hole

BM 5633

CARBON CANAL

Price

RAILROAD

31

33

34

4

3

10

X 5916

X 5920

58100

5722

5778

X 5649

5653

5637

5585

5555



**RIVER GAS CORPORATION**  
Additional Drilling Information

Utah 08-98

1320' FWL & 1320' FNL  
Section 08, Township 15 South, Range 10 East

**R649-3-4 Permitting of Wells to be Drilled, Deepened or Plugged Back**

2.1 Telephone numbers for additional information:

|  |  |
|--|--|
| Steven L. Prince<br>Operations Manager | (801)637-8876 Office<br>(801)650-1211 Mobile                       |
| Fred Passarella<br>Pumper              | (801)637-8876 Office<br>(801)650-1296 Mobile                       |
| Randy Nairemore                        | (801)637-8876 Office<br>(801)650-1210 Mobile                       |
| Michael J. Farrens<br>Vice President   | (205)759-3282 Office<br>(205)758-8535 Home<br>(801)650-1162 Mobile |

2.2 Lease: State of Utah ML-38669

2.3 This gas well will be drilled within the Drunkards Wash Unit. The Unit No. is UTU 67921X.

2.4 Survey Plat: See Attachment #1

2.5 Water will be purchased from Price River Water Improvement District: See Attachment #2.

2.6 Drilling program.

2.6.1 The following geologic units are expected to be penetrated in the well.

| <u>Formation/Unit</u>      | <u>Depth (ft)</u> |
|----------------------------|-------------------|
| Upper Mancos Shale         | Surface           |
| Blue Gate/Ferron Sandstone | 1560              |
| Ferron/Tununk Shale        | 1815              |
| TD                         | 2600              |

2.6.2 The coals within the Ferron Sandstone will be the target gas and water bearing formations at approx. 1585-1705'. 5-1/2" 17# WC75 casing will be run and cemented with approximately 200 sacks 50/50 Pozmix cement and tail-in with 65 sacks "RFC".

2.6.3 A double gate 3000 psi BOPE will be used with a rotating head. This equipment will be tested to 2100 psi or 70% of the minimum internal yield pressure. All tests will be recorded in a Driller's Report Book. Physical operation of BOP's will be checked on each trip. See Attachment #3 for Schematic.

2.6.4 None.

2.6.5 Mud Program:

Depth

|          |             |   |
|----------|-------------|---|
| 0-300    | 11" hole    | Drill with air, will mud-up if necessary.   |
| 300-2600 | 7-7/8" hole | Drill with air.<br>400 psi @ 1500-1800 Scf. |

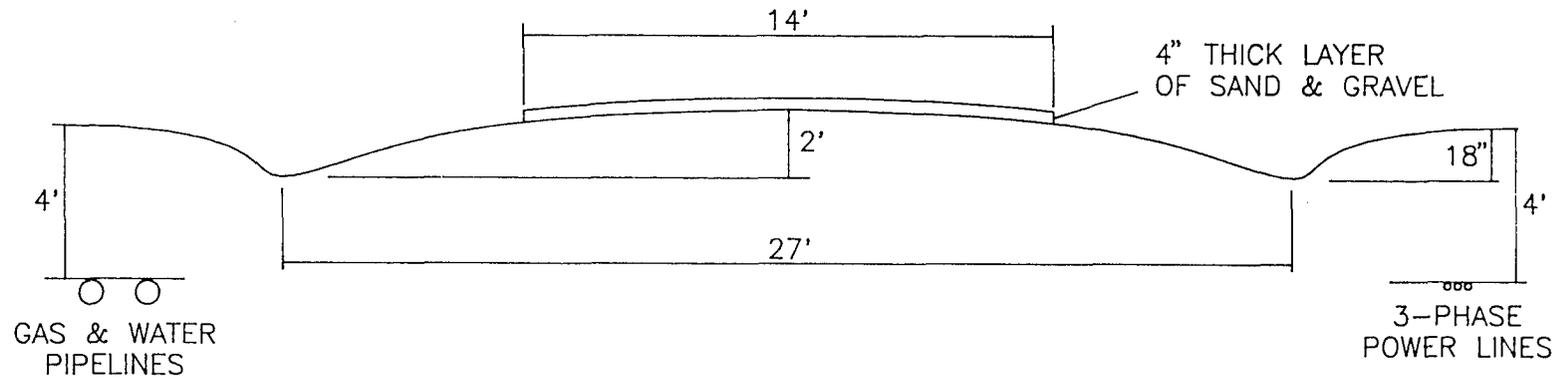
2.6.6 Logging Program:

Depth

|          |  |
|----------|--|
| 0-300    | Gamma Ray  |
| 300-2600 | Gamma Ray, Density, Neutron porosity, Induction, Caliper |

2.6.7 We expect 1100 psi for bottom hole pressure.  
No hazards are expected.

# RIVER GAS CORPORATION



## TYPICAL ROAD CROSS-SECTION

NOT TO SCALE

3/23/95

ATTACHMENT #6

BOUNDARY SURFACE ELEVATION

14S 9E 14S 10E

PRICE PETROLEUM

CITY OF PRICE

YOUNG KELLY PRICE

COUNTY ENGINEERING  
MCKINNON DR LG & DEVELOP  
UTAH PET&GAS-JENSEN

RIVER GAS OF UTAH  
DRUNKARDS WASH PROJECT  
CARBON COUNTY, UTAH  
WELL & PIPELINE MAP

- GAS WELL
- CORE/GAS WELL
- PROPOSED WELL
- EXISTING ROAD
- PROPOSED ROAD
- GAS LINE
- WATER LINE

3/10/95

4

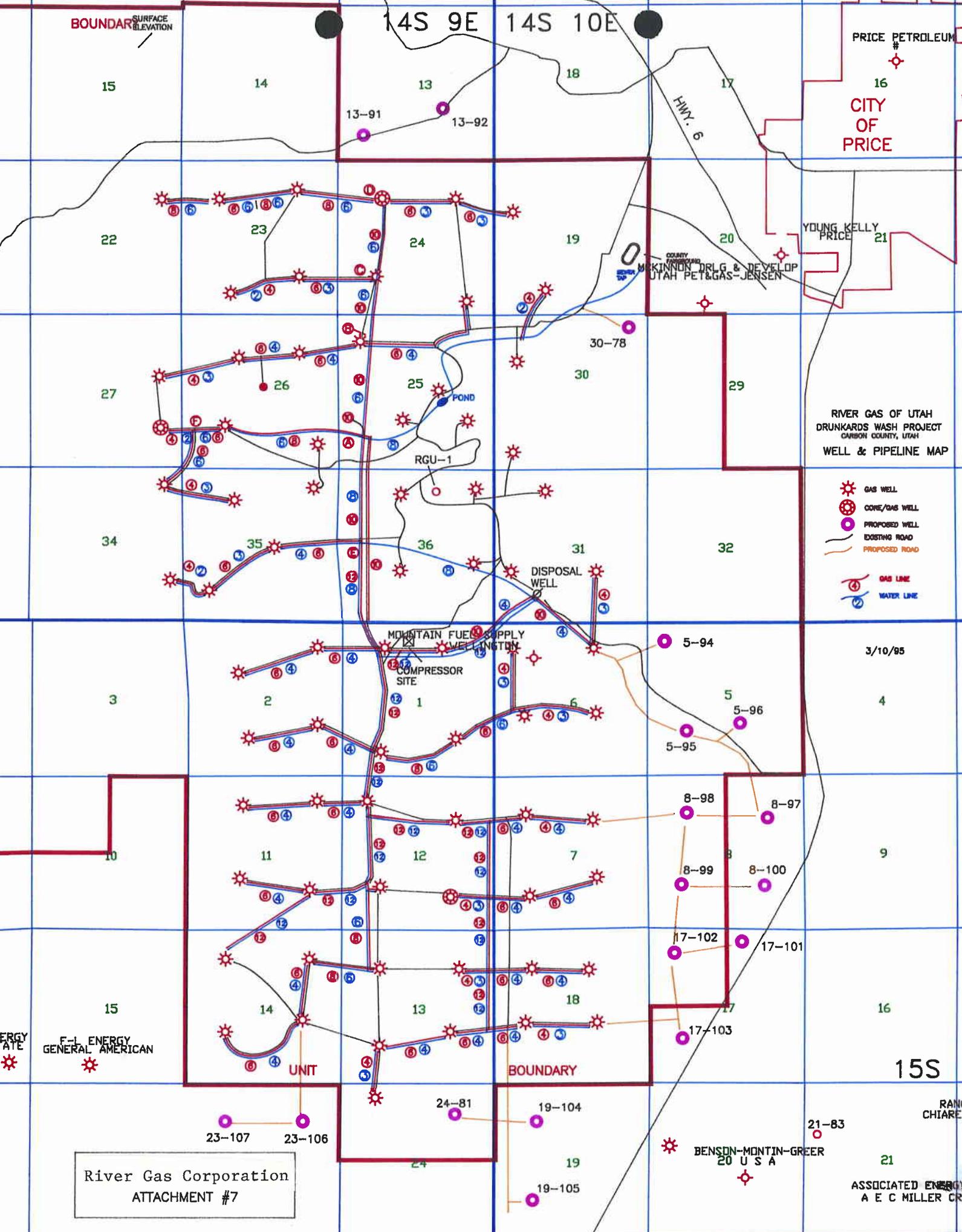
9

16

15S 10E

RANCH CHIARET

ASSOCIATED ENERGY  
A E C MILLER CRE



River Gas Corporation  
ATTACHMENT #7

ENERGY STATE  
F-1 ENERGY GENERAL AMERICAN

BENSON-MONTIN-GREER  
20 U S A

AmSouth Bank N.A.  
1900 5th Avenue North  
Birmingham, Alabama 35203-2610 USA

International Department

TELEX: 6827189  
Cable: AMSOUBK8HM  
S.W.I.F.T. AMSB US 44

AMENDMENT NUMBER: 003  
TO LETTER OF CREDIT NUMBER: 6304606  
DATE: DECEMBER 29, 1993

BENEFICIARY:  
STATE OF UTAH, DEPARTMENT OF  
NATURAL RESOURCES, DIVISION OF  
STATE LANDS AND FORESTRY  
#3 TRIAD CENTER SUITE 400  
355 WEST TEMPLE  
SALT LAKE CITY, UTAH 84180-1204

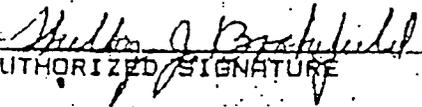
AT THE REQUEST OF RIVER GAS OF UTAH, INC.  
AND FOR THE ACCOUNT OF SAME  
WE HEREBY AMEND OUR LETTER OF CREDIT NUMBER 6304606  
DATED DECEMBER 14, 1990  
OPENED IN YOUR FAVOR AS FOLLOWS:

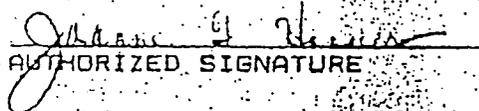
ACCOUNT PARTY'S ADDRESS IS NOW TO READ:  
3600 WATERMELON ROAD, SUITE 204, NORTHPORT, ALABAMA 35476.

-LATEST NEGOTIATION DATE IS EXTENDED TO DECEMBER 13, 1994.

-ADD: THIS LETTER OF CREDIT WILL BE AUTOMATICALLY RENEWED  
WITHOUT AMENDMENT FOR SUCCESSIVE PERIODS OF ONE (1) YEAR EACH,  
UNLESS AT LEAST 60 DAYS PRIOR TO THE INITIAL EXPIRATION DATE  
OR ANY SUCCESSIVE EXPIRATION DATE THE ISSUING BANK GIVES THE  
BENEFICIARY NOTICE BY REGISTERED LETTER TO THE ADDRESS ABOVE  
THAT THE ISSUING BANK ELECTS NOT TO HAVE THIS LETTER OF CREDIT  
RENEWED FOR SUCH ADDITIONAL ONE YEAR PERIOD.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.  
THIS AMENDMENT BECOMES AN INTEGRAL PART OF THE ORIGINAL LETTER OF  
CREDIT AND IS TO BE ATTACHED THERETO.

  
AUTHORIZED SIGNATURE

  
AUTHORIZED SIGNATURE

RIVER GAS OF UTAH, INC.  
ATTACHMENT #8

AmSouth Bank N.A.  
1900 5th Avenue North  
Birmingham, Alabama 35203-2610 USA

International Department

TELEX: 6827189  
Cable: AMSOUBKBHM  
S.W.I.F.T.AMSB US 44

AMENDMENT NUMBER: 004  
TO LETTER OF CREDIT NUMBER: S304606  
DATE: JANUARY 24, 1995

BENEFICIARY:  
STATE OF UTAH, DEPARTMENT OF  
NATURAL RESOURCES, DIVISION OF  
STATE LANDS AND FORESTRY  
#3 TRIAD CENTER SUITE 400  
355 WEST TEMPLE  
SALT LAKE CITY, UTAH 84180-1204

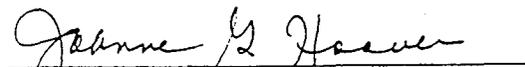
AT THE REQUEST OF RIVER GAS OF UTAH, INC. 3600 WATERMELON ROAD  
SUITE 204 NORTHPORT, ALABAMA 35476  
AND FOR THE ACCOUNT OF SAME  
WE HEREBY AMEND OUR LETTER OF CREDIT NUMBER S304606  
DATED DECEMBER 14, 1990  
OPENED IN YOUR FAVOR AS FOLLOWS:

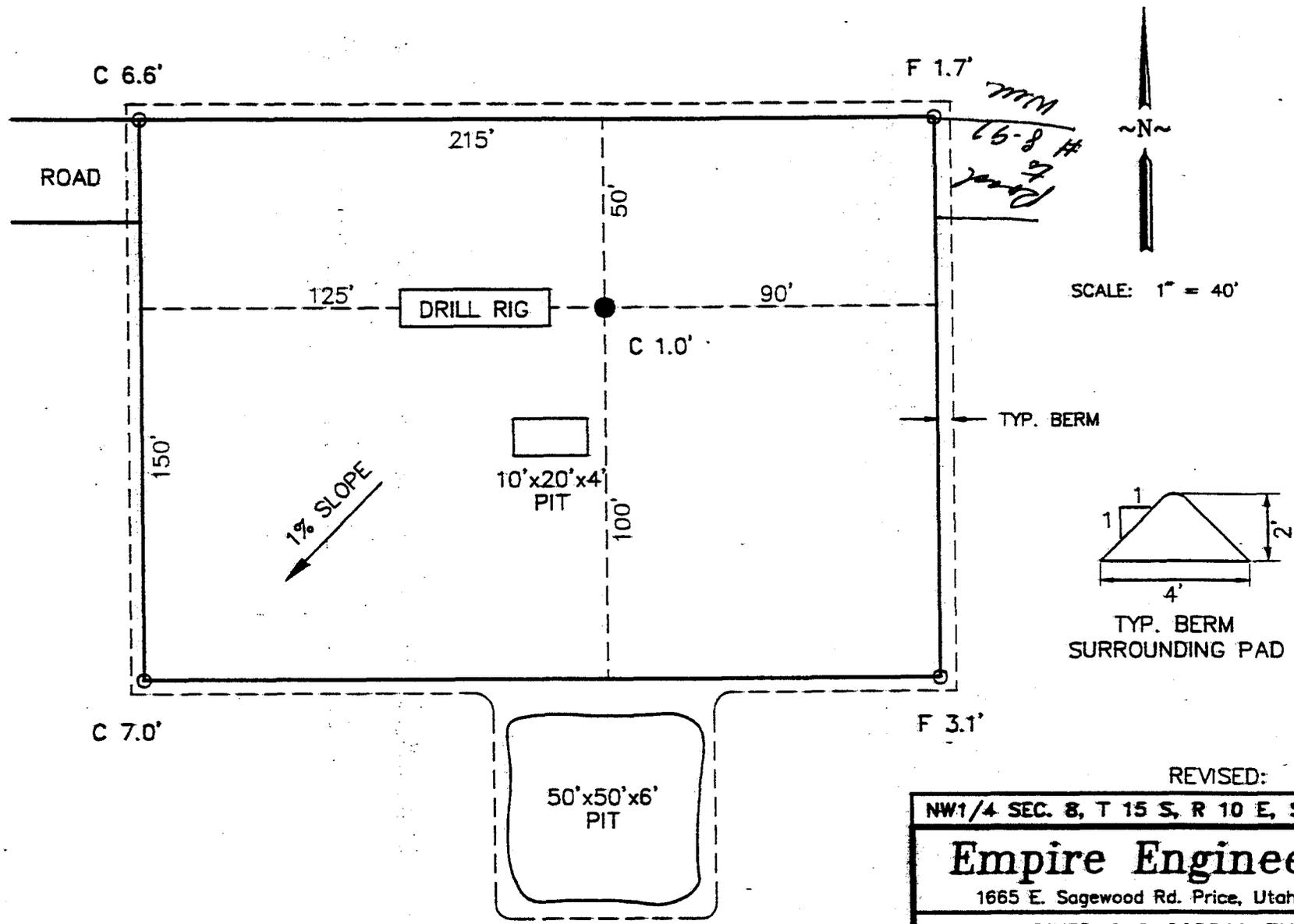
★ -ACCOUNT PARTY'S NAME IS NOW CHANGED TO:  
RIVER GAS CORPORATION

-THE NAME OF THE ISSUING BANK IS CHANGED FROM AMSOUTH BANK N.A.  
TO AMSOUTH BANK OF ALABAMA.

\*\*REFERENCES HEREIN TO AMSOUTH BANK N.A. SHALL BE DEEMED TO REFER  
TO AMSOUTH BANK OF ALABAMA.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.  
THIS AMENDMENT BECOMES AN INTEGRAL PART OF THE ORIGINAL LETTER OF  
CREDIT AND IS TO BE ATTACHED THERETO.

  
\_\_\_\_\_  
AUTHORIZED SIGNATURE



○ INDICATES 1"x2"x24" WOOD STAKE

REVISED: 4-22-95

NW1/4 SEC. 8, T 15 S, R 10 E, S.L.B. & M.

**Empire Engineering**

1665 E. Sagewood Rd. Price, Utah 84501

**RIVER GAS CORPORATION**  
**WELL # UTAH 08-98**

|                  |                     |                             |
|------------------|---------------------|-----------------------------|
| Drawn By:<br>THK | Approved By:<br>EEH | Drawing No.                 |
| Date:<br>4-15-95 | Scale:<br>1" = 40'  | EEOG-95-21<br>Sheet: 2 of 2 |

**ADDENDUM TO APPLICATION FOR  
PERMIT TO DRILL:**

**UTAH 08-98  
1320' FNL, 1320' FWL SEC. 8, T15S, R10E**

MAY 15 1995

**Selected Points to be Addressed in On-site Pre-drill Evaluation**

**Drilling Program**

- Point #2. Expected Depths of Water and Gas Zones - The only water and gas - bearing zones expected in the well will be from the sandstones and coals within the Ferron Sandstone member of the Mancos Shale. Expected interval: 1560-1700'. No near - surface water is expected to be encountered.
- Point #4. Cement used for surface casing will be Class "G" with 2% Calcium Chloride. Density: 15.80 lbs/gal

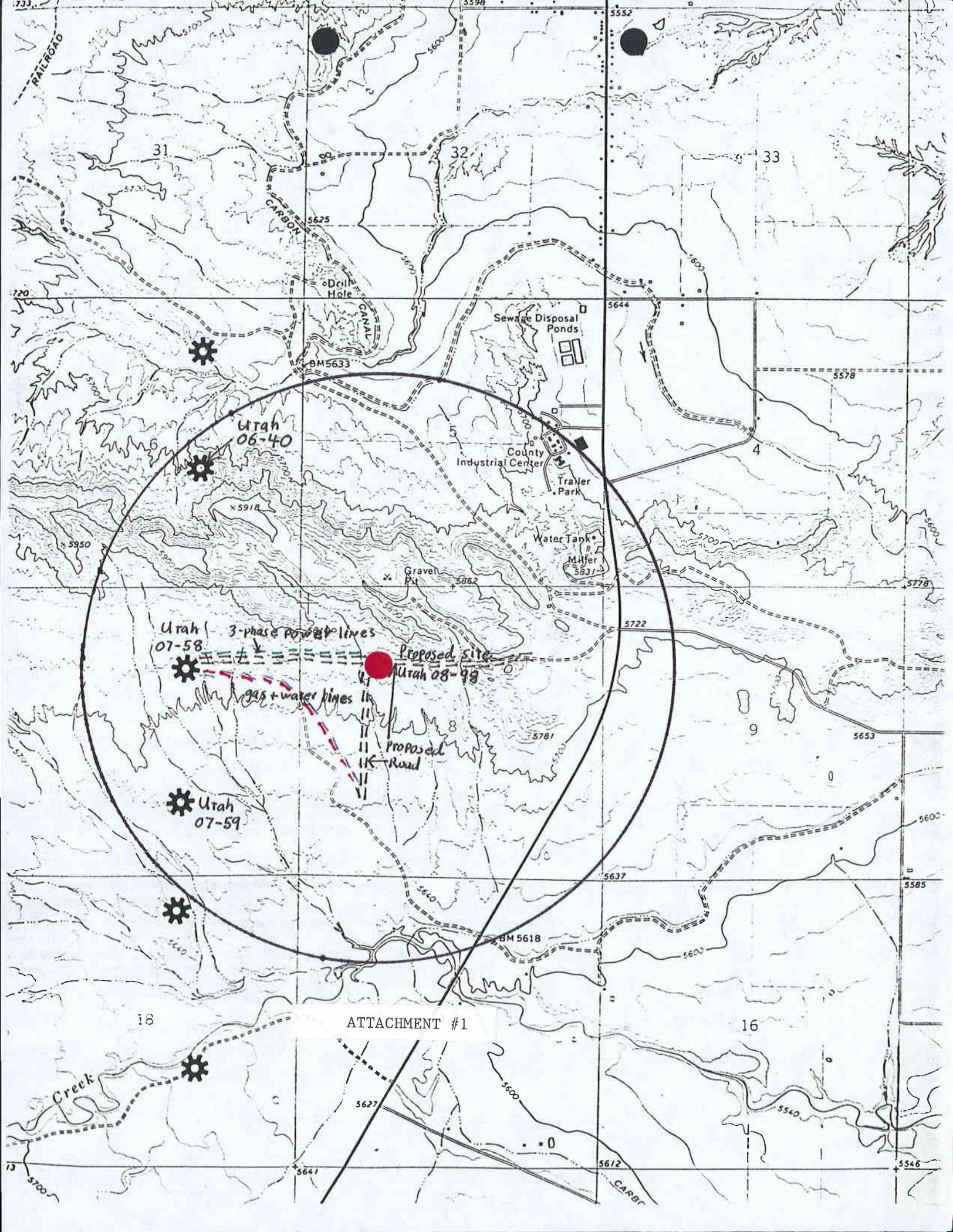
**Surface Use Plan**

Current Surface Use - Grazing permit # GP 22930 Leased to Boyd Marsing

- Point #2 Planned Access Roads - A new road will be constructed, approx. 1 mile in length, eastward from well #7-58 to prop. well # 8-98 (see Attachment #1)
- Point #3 Wells within 1-mile radius of proposed location - Three producing gas wells, operated by River Gas Corporation, are located < 1 mile west of proposed location. (See Attachment #1)
- Point #4 Location of Production Facilities and Pipelines - see Attachment #1
- Point #6 Source of Construction Material - Other than native Mancos Shale, sand and gravel will be purchased from a local construction company
- Point #7 Waste Management Plan - All drill cuttings will be diverted to pit, as well as fluids encountered. Afterwards, the fluids will be allowed to evaporate and cuttings will be buried. Also, a portable bathroom facility will be provided during drilling operations
- Point #9 Well Site Layout - The separator will be located on the "cut" side of the location (see Attachment #2)

**Other Observations**

Archaeological/Paleontological report - see Attachment #3



ATTACHMENT #1

18

16

Creek

Proposed site

Utah 08-98

Utah 06-40

Utah 07-58

Utah 07-59

3-phase power lines

gas + water lines

Proposed Road

Sewage Disposal Ponds

County Industrial Center

Trailer Park

Water Tank Miller

Gravel Pit

Deer Hole

RAILROAD

CARBON CANAL

CARBON

31

32

33

4

9

13

5546

5585

5653

5778

5578

5644

5552

5598

5612

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5882

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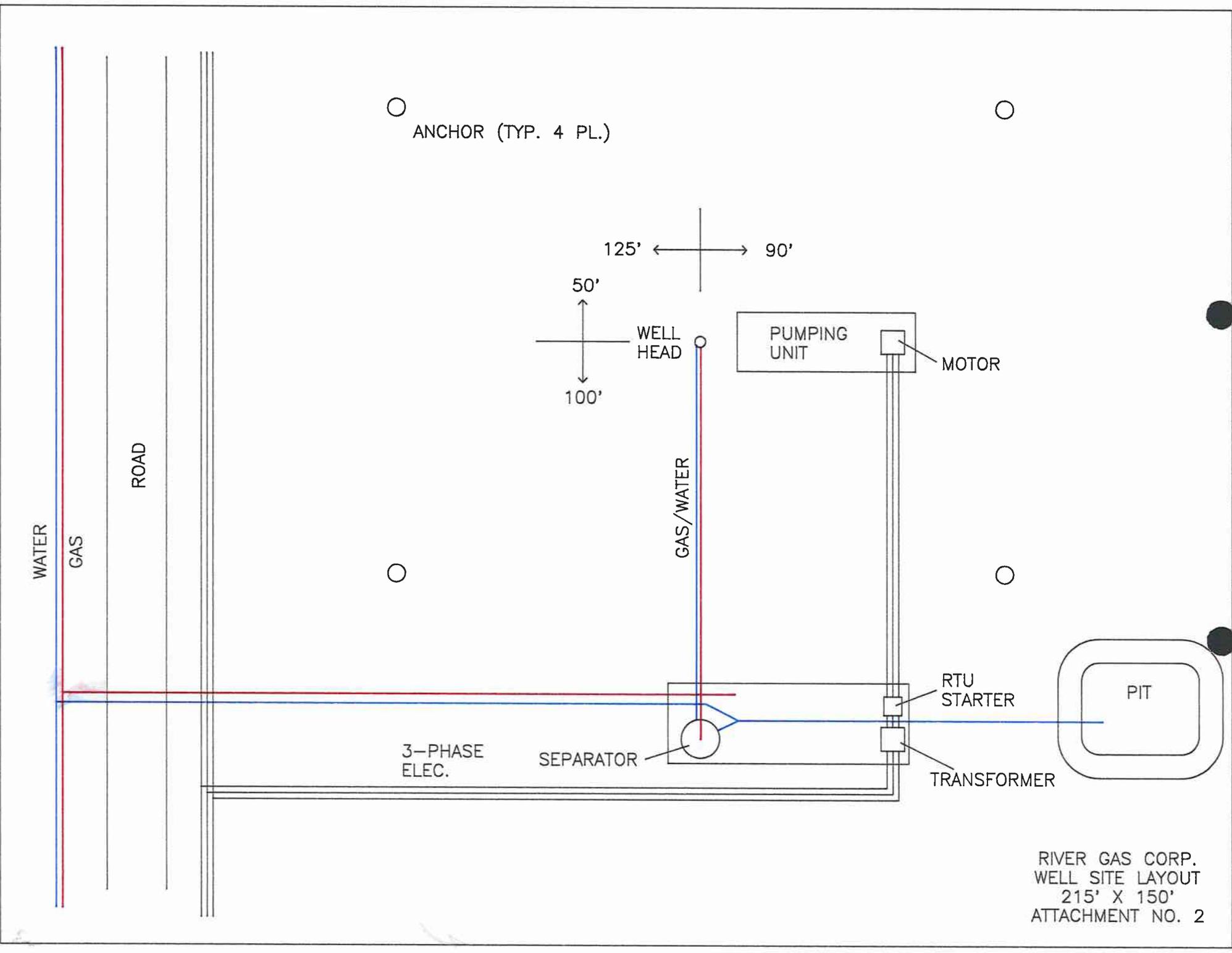
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RIVER GAS CORP.  
 WELL SITE LAYOUT  
 215' X 150'  
 ATTACHMENT NO. 2

PRELIMINARY REPORT OF THE CULTURAL RESOURCE INVENTORY  
FOR RIVER GAS OF UTAH'S 1995 DRILLING SEASON NEAR  
PRICE, CARBON COUNTY, UTAH, ON STATE, PRIVATE AND FEDERAL

### *INTRODUCTION*

Baseline Data, Inc., has completed a cultural and paleontological resource inventory of 32 new well locations and associated access corridors in Carbon County, for River Gas Company of Utah, Inc. The inventory was requested by Mr. Steve Prince of River Gas.

Field conditions for the inventory were excellent. Ground visibility was near 100%, hampered only by sparse native vegetation. The inventory was carried out under Utah State Project Authorization No. U95-BS-118bsp, and Federal Antiquities Permit No. 93UT576532.

The preliminary report provides information on the surveyed well locations and associated Utility Corridors. All location information has been summarized in Tables 1 and 2. The Utility Corridors may serve as access roads, water, or gas pipelines. The well locations and access corridors are found on the attached U.S.G.S. maps.

### *Inventory Methods*

Two different methods were employed to accomplish the inventory. Access roads were flagged down the center line by River Gas prior to the inventory or followed existing roads marked on U.S.G.S. maps. A corridor approximately 20 m wide (10+ meters on each side of the center line) was examined by walking zig-zag transects, along the center of each line. Each well location is about 75 x 75 m and were examined by completing several transects over the location, spaced about 15 m apart.

Sites and isolated artifacts were plotted on a U.S.G.S. map and were noted on field recording forms. No artifacts from any of the sites were collected. Photographs were taken of the sites and field maps were drawn. None of the isolated artifacts were unique enough to be collected or photographed. Notes on the general flora, fauna and geology were completed as the survey progressed.

Table 2 Utility Corridor Location

| Utility Corridor      | Beginning                                     | End   | Distance     |
|-----------------------|---|---|--------------|
| UC-1                  | SE1/4 NE1/4 SE1/4 NE1/4 Sec. 36 T. 15 S R. 9E | NW1/4 NW1/4 NE1/4 NE1/4 Sec. 1 T. 16S R. 9E     | 2.6 km       |
| UC-2                  | NE1/4 SE1/4 SE1/4 NW1/4 Sec. 36 T. 15S R. 9E  | SE1/4 SE1/4 SE1/4 NW1/4 Sec. 36 T. 15S R. 9E    | .15 km       |
| UC-3                  | SE1/4 SE1/4 SW1/4 SE1/4 Sec. 17 T. 15S R. 10E | SE1/4 SE 1/4 NW 1/4 SE1/4 Sec. 17 T. 15S R. 10E | .42 km       |
| UC-4                  | SW1/4 SW1/4 SW1/4 SE1/4 Sec. 17 T. 15S R. 10E | SE1/4 SW1/4 NW1/4 SW1/4 Sec. 17 T. 15S R. 10E   | .8 km        |
| UC-5                  | SW1/4 NW1/4 SW1/4 NW1/4 Sec. 21 T. 15S R. 10E | SE1/4 SW1/4 NW1/4 SW1/4 Sec. 17 T. 15S R. 10E   | 1.5 km       |
| UC-6                  | SE1/4 SW1/4 NW1/4 SW1/4 Sec. 17 T. 15S R. 10E | SW1/4 SW1/4 NE1/4 NW1/4 Sec. 8 T. 15S R. 10E    | 3.9 km       |
| UC-7                  | NW1/4 SE1/4 NW1/4 NW1/4 Sec. 17 T. 15S R. 10E | NE1/4 SW1/4 SW1/4 NE1/4 Sec. 17 T. 15S R. 10E   | .75 km       |
| UC-8                  | SE1/4 SE1/4 NW1/4 SW1/4 Sec. 8 T. 15S R. 10E  | SE1/4 SE1/4 NW1/4 SE1/4 Sec. 8 T. 15S R. 10E    | .77 km       |
| UC-9                  | NW1/4 NW1/4 SE1/4 NE1/4 Sec. 8 T. 15S R. 10E  | SE1/4 SE1/4 NW1/4 NW1/4 Sec. 7 T. 15S R. 10E    | 2.3 km       |
| UC-10                 | SE1/4 SE1/4 NW1/4 NW1/4 Sec. 7 T. 15S R. 10E  | SW1/4 NW1/4 NE1/4 NW1/4 Sec. 1 T. 15S R. 10E    | 2.4 km       |
| UC-11                 | NW1/4 NE1/4 NW1/4 SE1/4 Sec. 6 T. 15S R. 10E  | NE1/4 SW1/4 NW1/4 SE1/4 Sec. 5 T. 15S R. 10E    | 1.6 km       |
| UC-12                 | SW1/4 SW1/4 SW1/4 SE1/4 Sec. 19 T. 14S R. 10E | NW1/4 NE1/4 NE1/4 NE1/4 Sec. 30 T. 14S R. 10E   | .7 km        |
| UC-13                 | SW1/4 SE1/4 SW1/4 SW1/4 Sec. 18 T. 14S R. 10E | SW1/4 NE1/4 NW1/4 SE1/4 Sec. 13 T. 14S R. 9E    | 1.2 km       |
| UC-14                 | NW1/4 NE1/4 SW1/4 SW1/4 Sec. 13 T. 14S R. 9E  | SW1/4 NE1/4 SW1/4 SW1/4 Sec. 13 T. 14S R. 9E    | .05 km       |
| UC-15                 | NE1/4 SE1/4 SW1/4 NW1/4 Sec. 13 T. 14S R. 9E  | SE1/4 NE1/4 SW1/4 NW1/4 Sec. 13 T. 14S R. 9E    | .09 km       |
| UC-16                 | NE1/4 NE1/4 SW1/4 SW1/4 Sec. 19 T. 15S R. 10E | NW1/4 SW1/4 SE1/4 SW1/4 Sec. 18 T. 15S R. 10E   | 1.5 km       |
| UC-17                 | SE1/4 SE1/4 NW1/4 NW1/4 Sec. 19 T. 15S R. 10E | SW1/4 SW1/4 NE1/4 NE1/4 Sec. 24 T. 15S R. 9E    | .85 km       |
| UC-18                 | SW1/4 SW1/4 NE1/4 NE1/4 Sec. 24 T. 15S R. 9E  | NE1/4 NE1/4 NW1/4 SE1/4 Sec. 24 T. 15S R. 9E    | .54 km       |
| UC-19                 | NW1/4 SE1/4 SW1/4 SW1/4 Sec. 18 T. 15S R. 10E | NW1/4 SE1/4 SW1/4 SW1/4 Sec. 18 T. 15S R. 10E   | .03 km       |
| UC-20                 | NE1/4 SW1/4 NE1/4 NE1/4 Sec. 24 T. 15S R. 9E  | NW1/4 SE1/4 NE1/4 NW1/4 Sec. 24 T. 15S R. 9E    | .7 km        |
| UC-21                 | NW1/4 SE1/4 NE1/4 NW1/4 Sec. 23 T. 15S R. 9E  | NW1/4 SE1/4 SE1/4 SW1/4 Sec. 14 T. 15S R. 9E    | .36 km       |
| UC-22                 | NW1/4 NW1/4 SE1/4 SW1/4 Sec. 14 T. 15S R. 9E  | NW1/4 SW1/4 NE1/4 SE1/4 Sec. 14 T. 15S R. 9E    | 1.3 km       |
| UC-23                 | NW1/4 NE1/4 NW1/4 SE1/4 Sec. 19 T. 14S R. 9E  | NE1/4 NE1/4 SW1/4 NE1/4 Sec. 19 T. 14S R. 9E    | .45 km       |
| UC-24                 | SW1/4 SE1/4 SW1/4 SW1/4 Sec. 18 T. 14S R. 9E  | SW1/4 NE1/4 SW1/4 SW1/4 Sec. 18 T. 14S R. 9E    | .3 km        |
| UC-25                 | SW1/4 NW1/4 SW1/4 SW1/4 Sec. 14 T. 14S R. 9E  | NE1/4 NE1/4 SW1/4 SW1/4 Sec. 14 T. 14S R. 9E    | .3 km        |
| UC-26                 | SW1/4 NW1/4 SW1/4 SE1/4 Sec. 14 T. 14S R. 9E  | NE1/4 NW1/4 SW1/4 SE1/4 Sec. 14 T. 14S R. 9E    | .13 km       |
| UC-27                 | NW1/4 SE1/4 NE1/4 NW1/4 Sec. 22 T. 14S R. 9E  | NW1/4 SE1/4 NE1/4 NW1/4 Sec. 22 T. 14S R. 9E    | .03 km       |
| UC-28                 | SE1/4 NE1/4 NE1/4 NE1/4 Sec. 6 T. 15S R. 10E  | SE1/4 NW1/4 NW1/4 NW1/4 Sec. 5 T. 15S R. 10E    | .21 km       |
| UC-29                 | SE1/4 NW1/4 SW1/4 SW1/4 Sec. 14 T. 14S R. 9E  | SE1/4 NW1/4 SW1/4 SW1/4 Sec. 14 T. 14S R. 9E    | .02 km       |
| <b>TOTAL DISTANCE</b> |   |   | <b>26.14</b> |

**Inventory Results**

Baseline recorded a total of seven new cultural resource sites and four new paleontology localities. Each is briefly summarized below.

Site 42Cb 1009 is a light scatter of historic trash found near Well No. 17-103. It is on private land in the NW1/4 NE1/4 SW1/4 SW1/4 of Section 17, T.15S R.10E. The site consists of a scatter of crushed cans, a galvanized wash tub, several fragments of porcelain dinnerware, Mason jar glass fragments, and a 1935 auto licence plate. There are no features or depth at the site. The site is not eligible for the National Register and no mitigation is recommended.

Site 42Cb 1010 is an abandoned collector ditch or irrigation system. It is found about 50 m west of Well No. 17-103 on private land. The feature is about 1.5 m wide and averages about .70 m deep. It has been breached in several locations and alluvial fill has covered the ditch in others. Greasewood growing in the ditch is more than 1 m high. It appears to be a collector system that drained water north into Miller Creek. The site is no eligible for the National Register and no mitigation is recommended.

Site 42Cb 1011 is a large scatter of trash found near Well No. 8-99 on private land. The site is on the slope of a ridge and scatters over an area of nearly 150 x 150 M in the SE1/4 SE1/4 NW1/4 SW1/4 and the NE1/4 NE1/4 SW1/4 SW1/4 of Section 8, T. 15S R.10E.. It consists of crushed cans, fragments from a wood burning stove, porcelain dinnerware, earthenware crockery, and amethyst glass fragments. There are no features or depth at the site. The site is no eligible for the National Register and no mitigation is recommended.

Site 42Cb 1012 is a light scatter of historic trash found on the east side of Well No. 5-94. It is in the NE1/4 SW1/4 NW1/4 SE1/4 of Section 5, T.15S R.10E, and is on private land. The trash consists of crushed cans, a fragment of milled wood and a single Dr. Nunn's Black Oil Healing Baslam bottle. The bottle is made from a light amethyst glass and was blown into a wood mold. The neck and cork stop were hand finished. There are no features or depth at the site. The material is in a high erosion environment and the wash the site is on is scattering artifacts south toward the Carbon Canal. The site is not eligible for the National Register and no mitigation is recommended.

Site 42Cb 1013 is a possible prehistoric camp site or storage site. It is found near Core Well No. 18-?. It is found in the SE1/4 NE1/4 SW1/4 SW1/4 of Section 18, T.14S R.9E, and is on land administered by the Bureau of land Management. The site consists of several interior secondary chert flakes, three fragments of basin metates, a possible one-handed mano and the remains of what may be a slab-lined cist. The cist area has several fragment of thin limestone slabs and discolored soil. The entire surface of the site has been impacted by chaiming. The artifacts were noted in the bottom of small erosions channels. The impact from chaiming has made the site difficult to evaluated for the National Register. It is suggested that the site be avoided until the site can be properly evaluated. River Gas has dropped plans for drilling this core well and the site will not be impacted by River Gas.

Site 42Cb 1014 is along Utility Corridor No. 12 in SE1/4 SW1/4 SW1/4 SE1/4 Section 19, T.14S R.10E. The site is a non-significant historic trash scatter consisting mostly of tins cans and a few fragments of milled lumber. The site covers an area of about 30 X 30 m on private land. There are no significant features or artifacts associated with this site and it is not eligible for the National Register.

Site 42Cb 1015 is located within Well Location No. 13-92 in the SW1/4 NE1/4 NW1/4 SE1/4 of Section 13, T.14S R.9E. This site is a historic trash scatter covering an area of 40 x 20 m and is located on private land. The site consists of 100+ solder sealed tin cans, most of which have been knife cut. There are 80+ fragments of clear glass, two pieces of white china, 40 fragments of green glass and 40+ fragments of brown beverage bottle glass. Most of the glass is modern with some being of an undetermined age. None of the artifacts are significant and there are no features or structure associated with this site. It is not eligible for the National Register. No mitigation is recommended at the site.

*Paleontological Sites-* A total of four paleontological sites were noted during the inventory, two of which are sensitive, one may be and the other is not sensitive.

Site 95RG-1 is located along the east edge of the proposed Well No. 30-78 in the SW1/4 NE1/4 NE1/4 Section 30 T. 14S R. 10E. The site is found on a small rise and covers an area of about 40 X 40 on privately owned land. The site consists of invertebrate marine fossils that are sensitive enough to be avoided. The well location only needs to be moved 125 feet to the west to avoid any paleontological disturbance.

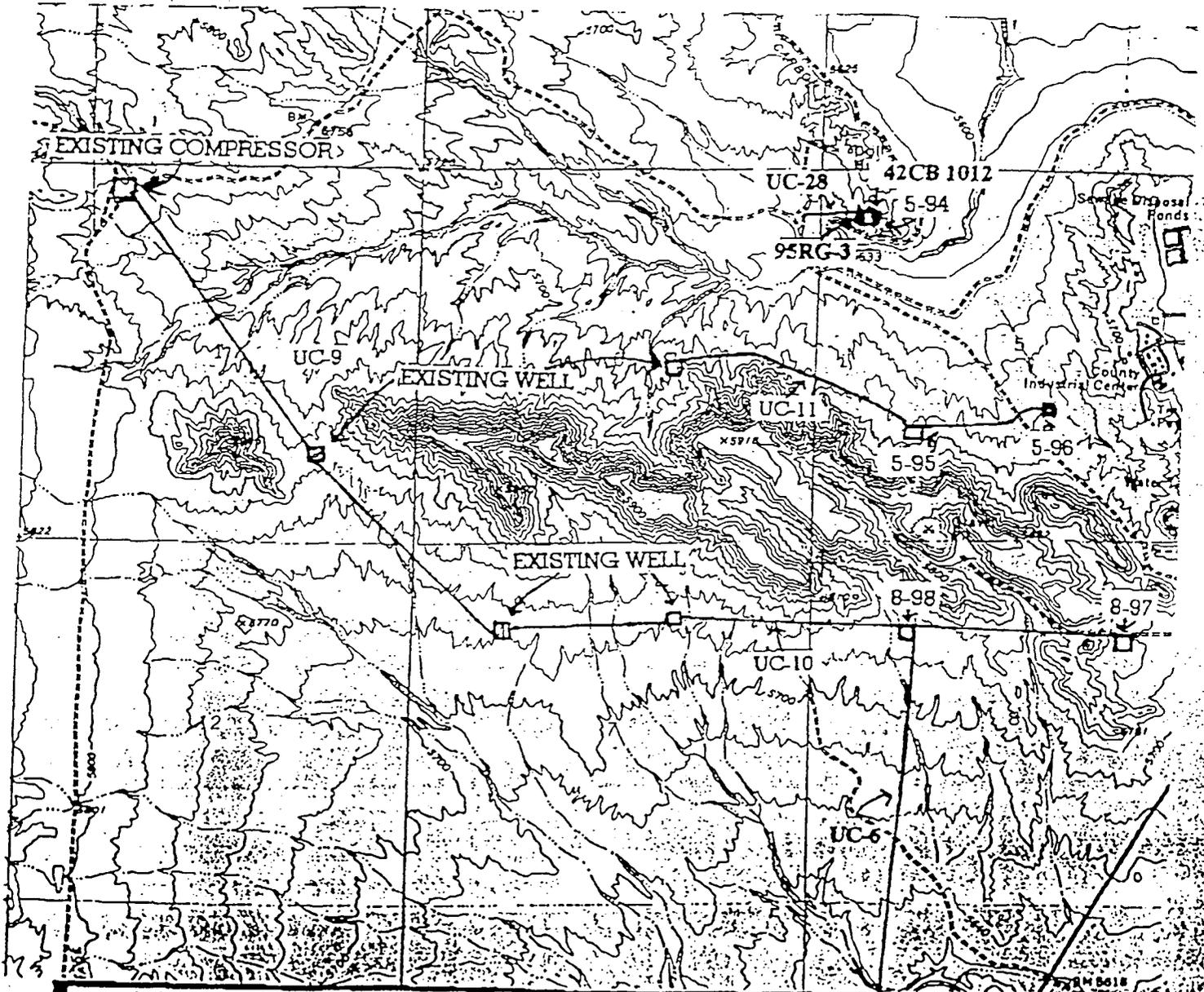
Site 95RG-2 is along Utility Corridor No. 8 just west of the proposed Well No. 8-100. The site covers an area of about 50 x 50 and is in the NE1/4 SE1/4 NW1/4 SE1/4, Section 8 T. 15S R. 10E. The site is located on State owned land. This site consists of invertebrate marine fossils that are sensitive enough to avoid. To avoid the site it is recommended that the utility corridor be bent about 70 feet north around a small ravine. This should avoid any disturbance of the paleontological site.

Site 95RG-3 was noted near a proposed Utility Corridor No. 11 just west of Well No. 5-95. The site is found on the side of a ridge in the NE1/4 SW1/4 NW1/4 SE1/4 of Section 5, T.15S R.10E. It is on private land. The site consists of invertebrate marine fossils that may be sensitive. The existing access road will be used for the utility corridor and will not disturb any of the observed fossils. No mitigation is recommended.

Site 95RG-4 is a deposit of non-sensitive marine fossils found near Well Location 36-109 Alt. The site is found along the top of a ridge in the C, N1/2 NE1/4 SW1/4 of Section 36, T. 16S R.9E. It is on land administered by the State of Utah. The site will not be impacted by the well location or access road. No mitigation is recommended for this site.

### **RECOMMENDATIONS**

Prehistoric site 42Cb 1013 has not been evaluated for the national Register. The site surface is too disturbed to adequately assess the site. The proposed well will not be drilled and the site will not be impacted. None of the other cultural resource sites are eligible for the National Register and no mitigation is recommended for those sites. Paleontological site 95RG-1 is sensitive. It can be avoided by moving Well No. 30-78 about 125 feet to the west. Site 95RG-2 is a sensitive locality found on Utility corridor No. 8 just west of Well No. 8-100. The site can be easily avoided by moving the utility corridor about 70 m north around the edge of a small wash.



|  |  |  |  |
|--|--|--|--|
|  |  | <b>BASELINE DATA INC.</b><br><b>OREM, UTAH</b> |  |
| <b>LEGEND</b><br>WELL LOCATION<br>UTILITY CORRIDOR<br> |  | <b>PROJECT: RIVER GAS DRILLING</b>             |  |
|  |  | <b>COUNTY: CARBON</b>                          |  |
|  |  | <b>QUAD: PRICE</b>                             |  |
|  |  |  |  |

Utah 8-98  
43-007-30273  
Sec 8, T 15S, R 10E

STATE OF ALABAMA                    )  
  : ss.  
COUNTY OF TUSCALOOSA            )

**AFFIDAVIT CONCERNING NOTIFICATION  
TO GRAZING PERMITTEE**

**JOSEPH L. STEPHENSON**, being first duly sworn upon his oath,  
deposes and states:

1. I am Vice President - Land of River Gas Corporation ("RGC"), an Alabama corporation duly authorized to transact business in the State of Utah, and am authorized to execute this Affidavit on behalf of said corporation.

2. As Vice President - Land, I am responsible for supervision of lease records and reviewing title records and legal opinions affecting lands where RGC proposes to conduct operations.

3. RGC owns an interest in Oil, Gas and Hydrocarbon Lease ML-38669 on which RGC proposes to drill a coalbed methane gas well named the Utah 08-98, the surface of said lands being owned by the School and Institutional Trust Lands Administration.

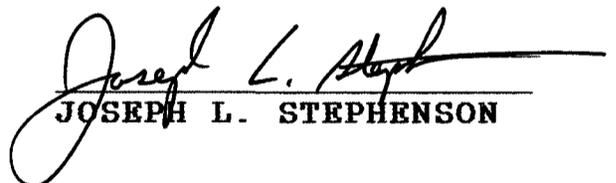
4. While reviewing title records associated with the above described Oil, Gas and Hydrocarbon Lease, it was noted that RGC's proposed well and its access road and associated production facilities would affect lands which were subject to Grazing Permit GP-22930 held by Boyd Marsing.

5. As evidenced by copy of letter dated February 21, 1995 attached hereto as Exhibit "A", and by this reference incorporated herein, RGC notified the above described grazing permittee of RGC's proposed activities and requested the grazing permittee to contact RGC if the proposed activity would conflict with his present use of the surface.

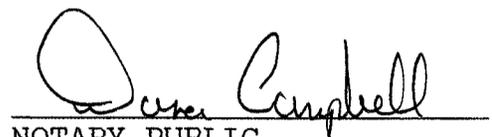
6. To the best of my knowledge, the grazing permittee has not contacted RGC regarding any conflict that the proposed activity has with his use of the surface.

7. The matters stated herein are true of my own knowledge, except to any matters stated herein upon information and belief, and, as to those matters, I believe them to be true.

DATED this 16th day of May, 1995.

  
JOSEPH L. STEPHENSON

Subscribed, sworn and acknowledged to and by Joseph L. Stephenson before me this 16th day of May, 1995.

  
NOTARY PUBLIC  
Residing at:  
1429 20th Avenue East  
Tuscaloosa, AL 35404

(SEAL)

My Commission Expires: 3/8/98



**RIVER GAS CORPORATION**

511 Energy Center Blvd.  
Northport, Alabama 35476  
Phone (205) 759-3282  
Fax (205) 759-3188

COPY

February 21, 1995

EXHIBIT "A"

Page 1 of 2

Mr. Boyd Marsing  
P. O. Box 806  
Price, UT 84501

RE: Grazing Permit-22930

Dear Mr. Marsing:

Attached is a map which shows well locations we propose to drill this year where you have a grazing permit with the State. I don't know if the proposed sites have been staked in the field yet.

We are in the process of having the wells we propose to drill surveyed. We would then submit APDs to the Division of Oil, Gas and Mining ("DOG M"). When DOGM conducts their field inspection of the proposed sites, we may have to make changes in the locations due to topography, etc. in the process of obtaining approval for the drilling permits.

This year, we hope to begin site construction work around April 1 with drilling activity starting around June 1. If this 1995 plan conflicts with your present use of the surface under your grazing permit, please contact Mr. Michael J. Farrens or Mr. Steven Prince at our office in Price. That telephone number is 637-4455. They could meet you on the property for a more detailed explanation of the proposed development.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Joseph L. Stephenson", is written over a horizontal line.

Joseph L. Stephenson, RLP  
Vice President - Land

Enc.

cc: Mr. Edward W. Bonner, SITLA  
Mr. Michael J. Farrens, RGC

PROPOSED ROAD

SCALE: 1"=200'

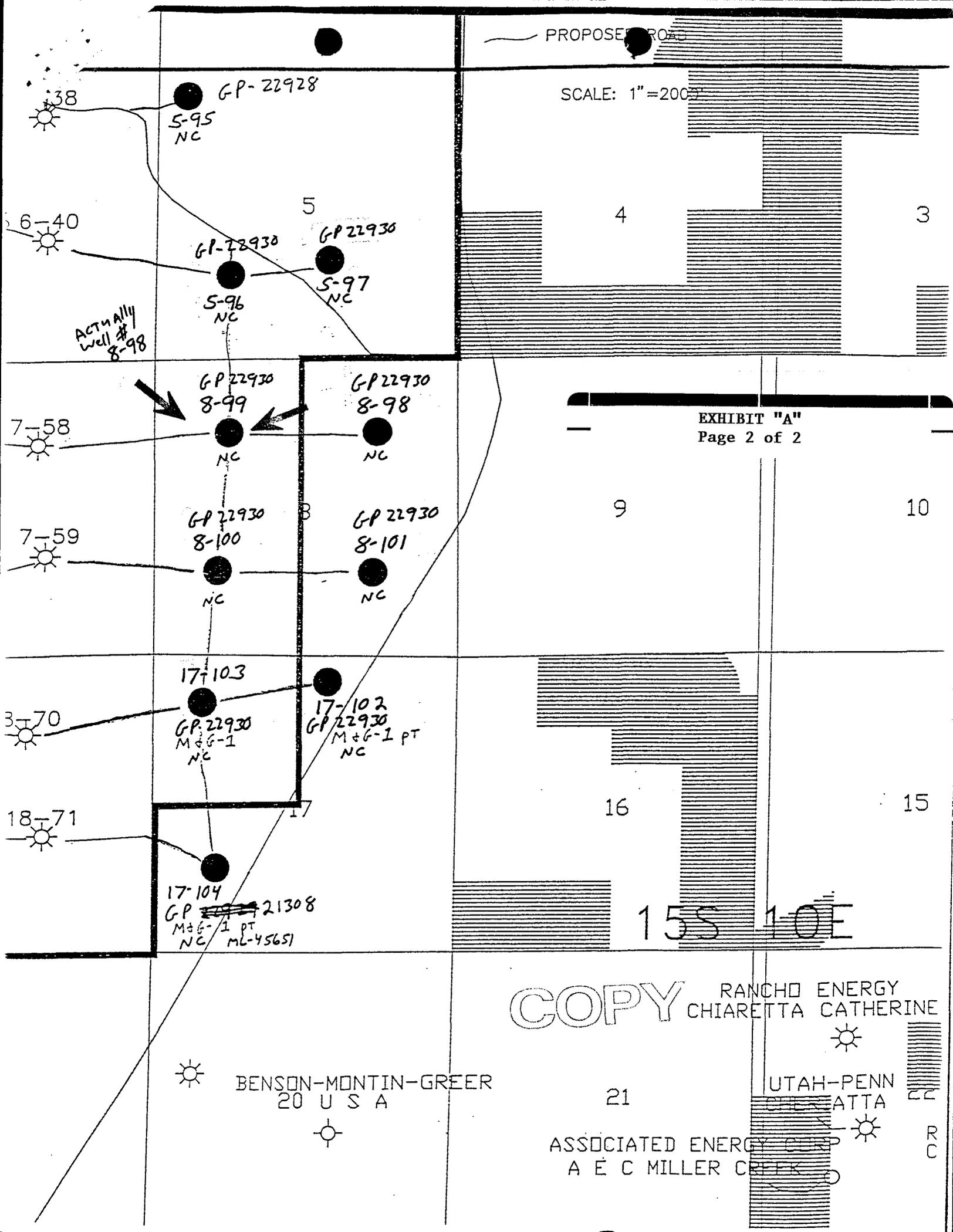


EXHIBIT "A"  
Page 2 of 2

COPY RANCHO ENERGY  
CHIARETTA CATHERINE

BENSON-MONTIN-GREER  
20 U S A

21

ASSOCIATED ENERGY CORP  
A E C MILLER CREEK

UTAH-PENN  
CHIARETTA

R  
C

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING (OGM)  
ON-SITE PREDRILL EVALUATION AND REVIEW

OPERATOR: River Gas Corporation

WELL NO: Utah 8 - 98 LEASE NO: ML - 38669

API NUMBER: 43 - 007 - 30273 LEASE TYPE: STATE Y FEE     

PROPOSED LOCATION: CONFIDENTIAL

SURFACE: 1320 FNL 1320 FWL

SURFACE: QTR/QTR: NW/ 4 SEC: 8 TWP: 15 S RNG: 10 E

BOTTOM HOLE: Same as Above

BOTTOM HOLE: QTR/QTR:      SEC:      TWP:      RNG:     

COUNTY: CARBON FIELD: CODE/NAME: 048 Drunkards Wash

GPS COORDINATES: 4376415 N 514709 E

SURFACE OWNER: State of Utah SURFACE AGREEMENT(Y/N): Y

LOCATION AND SITING:

Y Plat Y R649-2-3. Unit: UTU 67921X

Y Bond Sta Y Fee           R649-3-2. General

Number: Letter of credit      R649-3-3. Exception

N Potash (Y/N)      UCA 40-6-6. Drilling Unit

N Oil Shale (Y/N) Cause No:     

Y Water Permit City of Price Date:     

N RDCC Review     

ARCHEOLOGICAL AND PALEONTOLOGY SURVEY RECEIVED: (Y/N) Y

SITE PROBLEMS: Archeological clearance has been completed, but not submitted to DOGM.



6. Coring, Logging, and Testing Program  
No cores will be taken from this well.

0 - 300' Gamma Ray  
300 - 2600' Gamma Ray, Density, Porosity, Induction

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards, also list anticipated lost circulation zones, abnormal temperature zones and possible hydrogen sulfide bearing zones  
Bottom hole pressure will be about 1100 PSI.

No other hazards are expected.

**SURFACE USE PLAN:**

Current Surface Use: Cattle grazing under permit NO GP 22930.  
Land is normally not in use.

Proposed Surface Disturbance: The location pad will be 200' X 215' including the pit.

- Existing Roads  
Main surface roads to the location are state road 10 and several maintained field roads south of the city of Price.
- Planned Access Roads - include length of new road, length of existing road to be upgraded, maximum disturbed and travel surface widths, maximum grades, turnouts, surface materials, drainage, cattleguards  
A new road will be constructed about 2650 feet from the field road to the location. 13 culverts will be installed from existing road to the location. An additional 2500 feet of access road from the northeast corner of this location will be constructed east to the 8-97 well.

3. Location of existing wells within one-mile radius of proposed location, include water, injection, producing, drilling with present status of each well  
See the attached map included with the APD.

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4. Location of Production Facilities and Pipelines  
This well will be a field production well that will be used to delineate the field extent. the pipeline will follow the existing and proposed roads and field production facilities already exist.

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5. Location and Type of Water Supply (include Division of Water Rights approval or identifying number)  
Water will be purchased from an existing agreement with the City of Price

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6. Source of Construction Material  
Natural soils and spoil from the construction of the pad will be used. extra material and top soil will be stock piled in the berm of the edge of the location.

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7. Waste Management Plan  
All of the drill cuttings will be diverted to the pit along with all the drilling fluids generated while drilling. The cuttings will be buried after the pit is dry. A Porta-Potty and trash basket will be used for human and other solid wastes.

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8. Ancillary Facilities  
None.

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9. Well Site Layout  
See the attachment in the APD.

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10. Surface Restoration Plans

Unless otherwise agreed to the surface will be restored to the condition as found and all cuts slopes and drainage will be re-established. The vegetation seed mixtures and methods of planting will follow the standards that are current at the time of abandonment

**ENVIRONMENTAL PARAMETERS:**

Affected Floodplain and/or Wetlands:

Is a 404 dredge and fill permit required? (Any activity which will change the bottom elevation of the "waters of the United States" including wetlands, natural and artificially created waters, and even some drainage may require a permit from the Army Corps of Engineers) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Flora/Fauna:

Briefly describe the flora found on the proposed site and the fauna evidenced or sighted on or near the proposed location. This area serves as a minor deer and elk winter range. Some raptor species, coyote, rabbits, lizards, cattle, snakes. The vegetation is Upper Sonoran Transitional Flora and Fauna with a dominance of sagebrush and various types of grasses.

**SURFACE GEOLOGY**

Soil Type and Characteristics: The soils are made up of decomposed clays and sands of the Mancos Shale and the overlying Mesa Verde sandstone cliffs. The whole weathers to a light tan with gypsum flakes and small pebbles of chert.

Surface Formation & Characteristics: Light tan clay and sand about 75% clay and 25% other. Very low porosity due to the clay content but medium permeability due to the fractures and surface jointing.

Erosion/Sedimentation/Stability: This area is not highly active with water or erosion from runoff. There are many small drainage that exist and runoff is of a sheeting nature that is active during thunder storms or high water cycles.

Paleontological Potential Observed: None  
\_\_\_\_\_  
\_\_\_\_\_

RESERVE PIT

Characteristics: The reserve pit will be 50' x 50' x 10'  
and will be included as part of the pad.

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Lining (Site ranking form attached): No liner will be  
necessary. See the site ranking form attached.

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OTHER OBSERVATIONS

Cultural Resources/Archaeology (if proposed location is on State  
land, has an archaeology clearance been obtained?): Clearance has  
been completed, but not submitted to DOGM.

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Comments: The drainage running north to south will be diverted  
around the east side of the location. One culvert will be placed  
on the east side of location.

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J. Thompson/M. Hebertson

5/10/95 1:40 pm

OGM Representative

Date and Time

**STATEMENTS OF BASIS**

OGM Review of Application for Permit to Drill (APD)

**ENGINEERING/LOCATION and SITING:**

The proposed location meets the location and siting requirements of R649-2-3. The application and proposed casing and drilling plan appear to be consistent with accepted industry standards of practice and sound engineering design. A casing design safety check is attached. Blow out prevention contingency plans are adequate. H2S has not been found in this area.

Signature F. R. Matthews Date 5/18/95

**GEOLOGY/GROUND WATER:**

There are no USDW's in the area. The proposed casing and cement program will adequately protect any ground water.

Signature D. Jarvis Date 5/15/95

**SURFACE:**

The onsite investigation was conducted on 5/10/95. The Division met with a representative from River Gas of Utah. The location construction was discussed. Empire Engineering from Price, Utah has surveyed the proposed location. Cut and fill diagrams and a location plat were provided. A pit lining evaluation was conducted, and it was determined a pit liner was not necessary. Construction of the location should cause no adverse environmental issues.

Signature J. Thompson/M. Hebertson Date 5/10/95

**STIPULATIONS for APD Approval:**

1. A biology survey of the access road and pipeline right-of-way will be completed to determine status of a pediocactus species of cactus.

**ATTACHMENTS:**

Pictures #17,18,19,20

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

| Site-Specific Factors  | Ranking Score                       | Final Ranking Score |
|--|-------------------------------------|---------------------|
| <p>Distance to Groundwater (feet)</p> <p>&gt;200<br/>100 to 200<br/>75 to 100<br/>25 to 75<br/>&lt;25 or recharge area</p> | <p>0<br/>5<br/>10<br/>15<br/>20</p> | <p>0</p>            |
| <p>Distance to Surf. Water (feet)</p> <p>&gt;1000<br/>300 to 1000<br/>200 to 300<br/>100 to 200<br/>&lt; 100</p>           | <p>0<br/>2<br/>10<br/>15<br/>20</p> | <p>0</p>            |
| <p>Distance to Nearest Municipal Well (feet)</p> <p>&gt;5280<br/>1320 to 5280<br/>500 to 1320<br/>&lt;500</p>              | <p>0<br/>5<br/>10<br/>20</p>        | <p>0</p>            |
| <p>Distance to Other Wells (feet)</p> <p>&gt;1320<br/>300 to 1320<br/>&lt;300</p>  | <p>0<br/>10<br/>20</p>              | <p>0</p>            |
| <p>Native Soil Type</p> <p>Low permeability<br/>Mod. permeability<br/>High permeability</p>                                | <p>0<br/>10<br/>20</p>              | <p>10</p>           |

|   |                              |    |
|---|------------------------------|----|
| <b>Fluid Type</b><br>Air/mist<br>Fresh Water<br>TDS >5000 and <10000<br>TDS >10000 or<br>Oil Base Mud<br><br>Fluid containing<br>significant levels of<br>hazardous<br>constituents | 0<br>5<br>10<br>15<br><br>20 | 0  |
| <b>Drill Cuttings</b><br><br>Normal Rock<br>Salt or detrimental   | 0<br>10                      | 0  |
| <b>Annual Precipitation<br/>(inches)</b><br><br><10<br>10 to 20<br>>20  | 0<br>5<br>10                 | 2  |
| <b>Affected Populations</b><br><br><10<br>10 to 30<br>30 to 50<br>>50   | 0<br>6<br>8<br>10            | 0  |
| <b>Presence of Nearby<br/>Utility Conduits</b><br><br>Not Present<br>Unknown<br>Present   | 0<br>10<br>15                | 0  |
| <b>Final Score</b>  |                              | 12 |

The summation of all of the above ranking scores will yield one value which shall be used to determine the appropriate type of containment, on a case-by-case basis. The sensitivity levels are as follows:

- Level I Sensitivity: For scores totaling  $\geq 20$
- Level II Sensitivity: For scores totaling 15 to 19
- Level III Sensitivity: For scores totaling <15

**Containment Requirements According to Sensitivity Level**

Level I: Requires total containment by synthetic liner, concrete structure or other type of total containment structure or

material.

Level II: Bentonite or other compatible lining is discretionary depending on the fluid to be contained and environmental sensitivity.

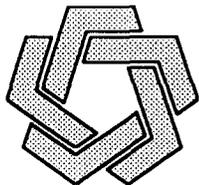
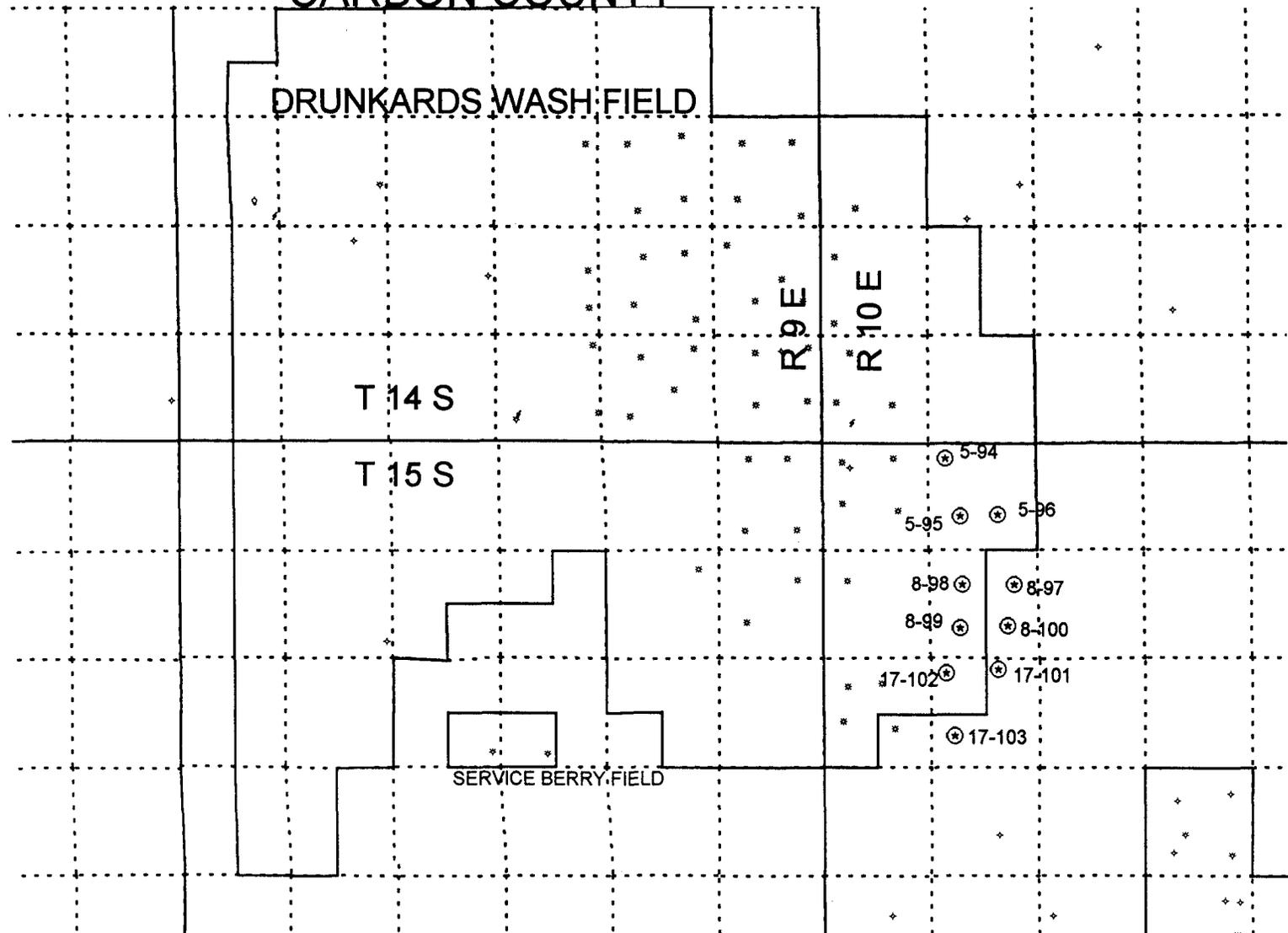
Level III: No specific lining requirements.

OTHER GUIDELINES FOR PITS

1. Unlined pits shall not be constructed on areas of fill materials.
2. A pit shall not be constructed in a drainage or floodplain of flowing or intermittent streams.
3. Synthetic liners used for lining reserve pits, shall be of 12 mil thickness or greater and shall be compatible with the fluid to be contained. Synthetic liners used for lining onsite pits with a longer expected life shall be a minimum of 30 mil thickness or as approved by the Division.
4. Synthetic liners shall be installed over smooth fill material which is free of pockets, loose rocks or other materials which could damage the liner.
5. Monitoring systems for pits or closed mud systems may be required for drilling in sensitive areas.



RIVER GAS CORP  
COAL GAS DEVELOPMENT  
SEC. 5, 8, 17, T 15 S, R 9 E  
CARBON COUNTY





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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

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

May 19, 1995

River Gas Corporation  
511 Energy Center Boulevard  
Northport, Alabama 35476

Re: Utah 8-98 Well, 1320' FNL, 1320' FWL, NW/4, Sec. 8, T. 15 S., R. 10 E., Carbon County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-015-30273.

Sincerely,

R. J. Eirth  
Associate Director

Idc

Enclosures

cc: Carbon County Assessor

Bureau of Land Management, Salt Lake District Office

WAPD



Operator: River Gas Corporation

Well Name & Number: Utah 8-98

API Number: 43-015-30273

Lease: ML-38669

Location: NW/4 Sec. 8 T. 15 S. R. 10 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 following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

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. Onsite Inspection

Compliance with the requirements and stipulations of the On-site Predrill Evaluation and Review.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



3. Lease Designation and Serial No.  
ML-38669

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Indian, Allottee or Tribe Name

1a. Type of Work  
 DRILL  DEEPEN  PLUG BACK

7. Unit Agreement Name  
Drunkards Wash UTU67921X

b. Type of Well  
 Oil Well  Gas Well  Other Coalbed Methane  Single Zone  Multiple Zone

3. Farm or Lease Name  
Utah

2. Name of Operator  
River Gas Corporation

9. Well No.  
08-98

5. Address of Operator  
511 Energy Center Boulevard Northport, Al. 35476

10. Field and Pool, or Wildcat  
Wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
 At surface 1320' FNL, 1320' FWL, Sec. 8, T15S, R10E

11. Co. Sec., T., R., N., or S. and Survey or Area  
NW/4 Sec. 8, T15S, R10E

At proposed prod. zone  
same

14. Distance in miles and direction from nearest town or post office\*  
3.5 miles south-southwest of Price, Ut.

12. County or Parrish | 13. State  
Carbon | Ut.

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drilg. line, if any) 1320'

16. No. of acres in lease 640

17. No. of acres assigned to this well 160

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft. 2500'

19. Proposed depth 2600'

20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.)  
5737' GR Surveved

22. Approx. date work will start\*  
July 1, 1995

PROPOSED CASING AND CEMENTING PROGRAM

| Size of Hole | Size of Casing | Weight per Foot | Setting Depth | Quantity of Cement |
|--------------|----------------|-----------------|---------------|--------------------|
| 11"          | 8 5/8"         | 24#             | 300'          | 110 sx             |
| 7-7/8"       | 5-1/2"         | 17#             | 2570'         | 265 sx             |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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. I hereby certify that this report is true and complete to the best of my knowledge.  
 Signed Terry D. Burns *Terry D. Burns* Title Geologist Date March 30, 1995

(This space for Federal or State office use)

API No. 43-007-30273 Approval Date Branch of Utah Wildcat

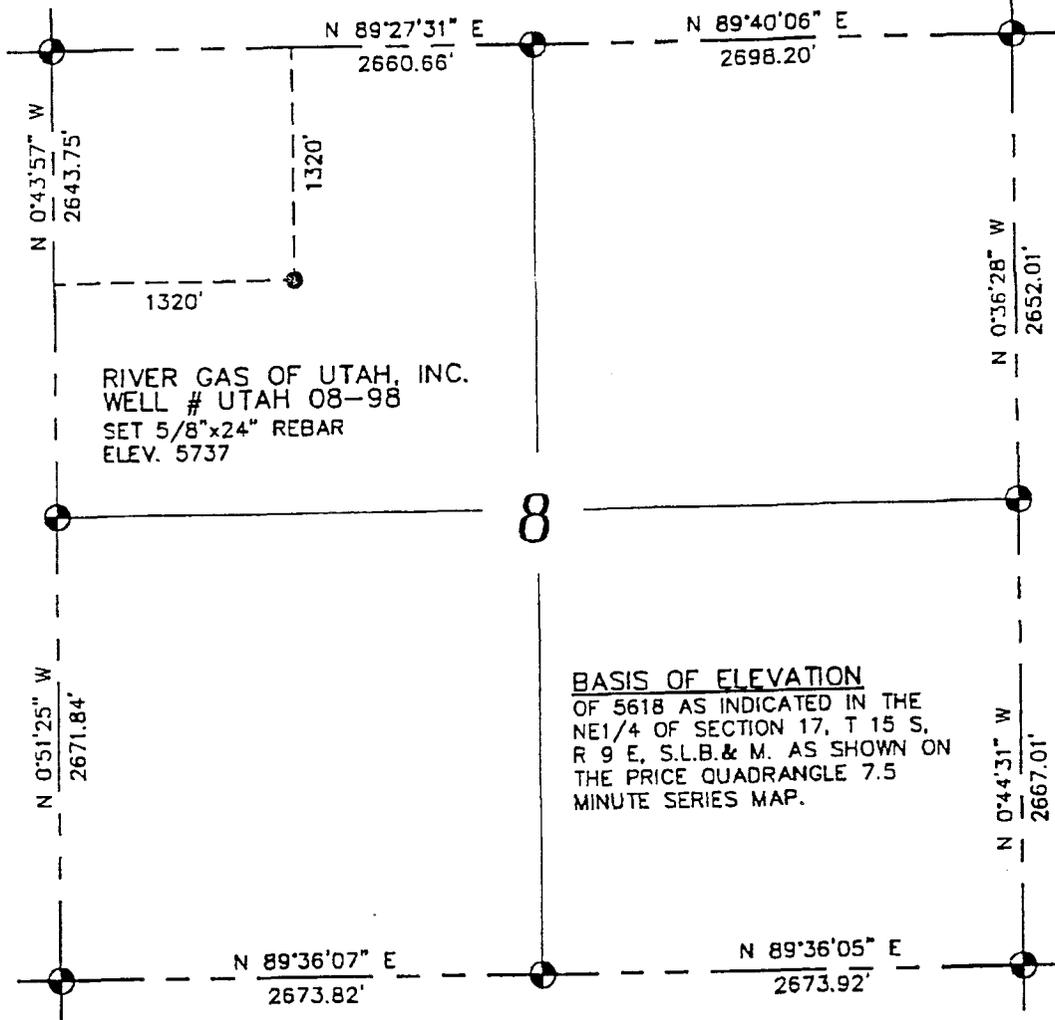
Approved by Moab District Title Moab District Date MAY 23 1995

Conditions of approval, if any:

\*See Instructions On Reverse Side

RANGE 10 EAST

TOWNSHIP 15 SOUTH



BASIS OF ELEVATION

OF 5618 AS INDICATED IN THE NE1/4 OF SECTION 17, T 15 S, R 9 E, S.L.B.& M. AS SHOWN ON THE PRICE QUADRANGLE 7.5 MINUTE SERIES MAP.

LEGEND

- ⊕ FOUND BRASS CAP
- SEARCHED FOR BUT NOT FOUND
- ◻ FOUND ROCK CORNER

BASIS OF BEARING

BASIS OF BEARING N 0°36'28" W MEASURED BETWEEN THE E1/4 CORNER AND THE NE CORNER OF SECTION 8, TOWNSHIP 15 SOUTH, RANGE 10 EAST, SALT LAKE BASE AND MERIDIAN.



ENGINEER'S CERTIFICATE

I, EVAN E. HANSEN, DO HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR AND PROFESSIONAL ENGINEER HOLDING CERTIFICATE NO. 145656 AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH. I FURTHER CERTIFY THAT I HAVE MADE A SURVEY OF THE TRACT OF GROUND SHOWN AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

*Evan E. Hansen*  
EVAN E. HANSEN

3/25/95  
DATE

NW1/4 SEC. 8, T 15 S, R 10 E, S.L.B.& M.

**Empire Engineering**

1665 E. Sagewood Rd. Price, Utah 84501

RIVER GAS OF UTAH, INC.  
WELL # UTAH 08-98

|                  |                     |                           |
|------------------|---------------------|---------------------------|
| Drawn By:<br>THK | Approved By:<br>EEH | Drawing No.<br>EEOG-95-21 |
| Date:<br>3-25-95 | Scale:<br>1"=1000'  | SHEET 1 OF 2              |



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

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

May 19, 1995

River Gas Corporation  
511 Energy Center Boulevard  
Northport, Alabama 35476

Re: Amended Approval  
Utah 8-98 Well, 1320' FNL, 1320' FWL, NW/4, Sec. 8, T. 15 S., R. 10 E., Carbon  
County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30273.

Sincerely,

R. J. Firth  
Associate Director

ldc

Enclosures

cc: Carbon County Assessor

Bureau of Land Management, Salt Lake District Office

WAPD



Operator:     River Gas Corporation    

Well Name & Number:     Utah 8-98    

API Number:     43-007-30273    

Lease:     ML-38669    

Location:     NW/4     Sec.     8     T.     15 S.,     R.     10 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 following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

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. Onsite Inspection

Compliance with the requirements and stipulations of the On-site Predrill Evaluation and Review.

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

**RECEIVED**  
JUL 17 1995  
DIV. OF OIL, GAS & MINING

|  |                          |
|--|--------------------------|
| 6. Lease Designation and Serial Number | ML-38669                 |
| 7. Indian Allottee or Tribe Name       | n/a                      |
| 8. Unit or Communitization Agreement   |                          |
| 9. Well Name and Number                | Drunkards Wash UTU67921X |
| 10. API Well Number                    | UTAH 8-98                |
| 11. Field and Pool, or Wildcat         | WILDCAT                  |

**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 for such proposals.

1. Type of Well  
 Oil Well     Gas Well     Other (specify)

2. Name of Operator  
RIVER GAS CORPORATION

3. Address of Operator  
511 ENERGY CENTER BLVD. NORTHPORT, AL 35476

4. Telephone Number  
(205) 759-3282

5. Location of Well  
Footage 1320' FNL & 1320' FWL  
OO, Sec. T., R., M. : NW/NW, SEC 8, T15S, R10E  
County :  
State : UTAH

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

**NOTICE OF INTENT**  
(Submit in Duplicate)

|  |   |
|--|---|
| <input type="checkbox"/> Abandonment             | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans         | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Treat          | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion     | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____             |   |

Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

|   |   |
|---|---|
| <input type="checkbox"/> Abandonment *                                  | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair                                  | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                                | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Conversion to Injection                        | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat                                 | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>WEEKLY PROGRESS REPORT</u> |   |

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\* Must be accompanied by a cement verification report.

13. 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.)

SEE ATTACHED

**CONFIDENTIAL**

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

Name & Signature DENNIS PLOWMAN *Dennis Plowman* Title RESERVOIR TECHNICIAN Date 7/14/95

(State Use Only)

DAILY WELL REPORT

RIVER GAS CORPORATION

UTAH 8-98

1320' FNL & 1320' FWL

NW/4, SEC 8, T15S, R10E

CARBON COUNTY, UTAH

SURVEYED ELEVATION:

API #: 43-015-30273

DRILLING CONTRACTOR: PENSE BROS. DRILLING COMPANY

PAGE 1

07/13/95

Day 1. Present Operation: WOC. Current Depth: 343'. Depth drilled in 24 hrs: 343'. Drilling fluid: Air, 350PSI, & 1700 cfm. drilled 0' to 18' w/#1 14-3/4" Tricone bit in 1 hr. drilled 18' to 343' w/#2 11" Hammer bit in 4 hrs. Total rotating hrs: 5. Spud Well 10:00pm, 7/12/95. Set 1 jnt 12-3/4" P.E. conductor csg @ 18' in a 14-3/4" conductor borehole. Set 10 jnts 8-5/8" surface csg @ 312.8' in a 11" surface borehole using 135 sks Class G + 2% S-1 + 1/4#/sk D-29.

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: RIVER GAS CORP.

Well Name: UTAH 8-98

Api No. 43-007-30273

Section 8 Township 15S Range 10E County CARBON

Drilling Contractor PENSE BROS.

Rig # 11

SPUDDED: Date 7/12/95

Time 10:30 PM

How ROTARY

Drilling will commence

Reported by GREG MUELLER

Telephone # 1-801-636-5562

Date: 7/17/95 Signed: JLT

OPERATOR RIVER GAS CORPORATION  
ADDRESS 511 ENERGY CENTER BLVD.  
NORTHPORT, AL 35476

OPERATOR ACCT. NO. N 11600

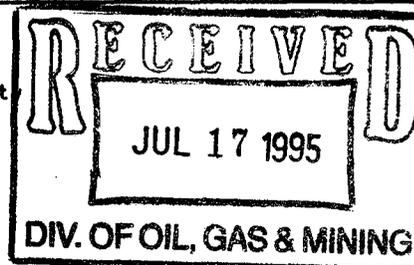
| ACTION CODE   | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER          | WELL NAME        | WELL LOCATION |          |            |            |               | SPUD DATE      | EFFECTIVE DATE |
|---|--------------------|----------------|---------------------|------------------|---------------|----------|------------|------------|---------------|----------------|----------------|
|   |                    |                |                     |                  | QQ            | SC       | TP         | RG         | COUNTY        |                |                |
| <u>AB</u>   | <u>99999</u>       | <u>11256</u>   | <u>43-007-30273</u> | <u>UTAH 8-98</u> | <u>NW/NW</u>  | <u>8</u> | <u>15S</u> | <u>10E</u> | <u>CARBON</u> | <u>7/12/95</u> |                |
| WELL 1 COMMENTS: <u>Entity added 7-18-95. fee (Drunkards Wash Unit)</u> |                    |                |                     |                  |               |          |            |            |               |                |                |
| WELL 2 COMMENTS:  |                    |                |                     |                  |               |          |            |            |               |                |                |
| WELL 3 COMMENTS:  |                    |                |                     |                  |               |          |            |            |               |                |                |
| WELL 4 COMMENTS:  |                    |                |                     |                  |               |          |            |            |               |                |                |
| WELL 5 COMMENTS:  |                    |                |                     |                  |               |          |            |            |               |                |                |

**ACTION CODES** (See instructions on back of form)

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

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

(3/89)



Dennis Plowman  
Signature  
RESERVOIR TECHNICIAN 7/14/95  
Title Date  
Phone No. (205) 759-3282

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. Utah 8-98

FIELD-POOL Price

COUNTY/PARISH Carbon

NAME River Gas

AND \_\_\_\_\_

ADDRESS \_\_\_\_\_

ZIP CODE \_\_\_\_\_

LOCATION (LEGAL) Sec T R

FORMATION Plug

STATE Utah

API. NO. \_\_\_\_\_

RIG NAME Pruse Bios.

WELL DATA: BOTTOM TOP

BIT SIZE 7 7/8 CSG/Liner Size \_\_\_\_\_

TOTAL DEPTH 750' WEIGHT \_\_\_\_\_

ROT  CABLE FOOTAGE \_\_\_\_\_

MUD-TYPE \_\_\_\_\_ GRADE \_\_\_\_\_

BHST  BHCT THREAD \_\_\_\_\_

MUD-DENSITY \_\_\_\_\_ LESS FOOTAGE SHOE JOINT(S) \_\_\_\_\_

MUD-VISC. \_\_\_\_\_ Disp. Capacity \_\_\_\_\_

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS

Pump Cement Plug to abandon 750 FT 7 7/8" open hole with 240 sbs class G cement.

|       |       |            |       |
|-------|-------|------------|-------|
| Float | TYPE  | Stage Tool | TYPE  |
|       | DEPTH |            | DEPTH |
| Shoe  | TYPE  | Stage Tool | TYPE  |
|       | DEPTH |            | DEPTH |

Head & Plugs  TBG  D.P.

Double  Single  Swage  Knockoff

SIZE  WEIGHT  GRADE  THREAD

SQUEEZE JOB

TOOL TYPE DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE \_\_\_\_\_ PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT \_\_\_\_\_ PSI BUMP-PLUG TO \_\_\_\_\_ PSI

ROTATE \_\_\_\_\_ BPM RECIPROCATATE \_\_\_\_\_ FT No. of Centralizers \_\_\_\_\_

| TIME         | PRESSURE    |        | VOLUME PUMPED BBL |     | JOB SCHEDULED FOR |       |            | ARRIVE ON LOCATION |            | LEFT LOCATION |  |
|--------------|-------------|--------|-------------------|-----|-------------------|-------|------------|--------------------|------------|---------------|--|
|              | TBG OR D.P. | CASING | INCREMENT         | CUM | TIME: ASHP        | DATE: | TIME: 7:30 | DATE: 7-16-95      | TIME: 7:00 | DATE: 7-16-95 |  |
| 0001 to 2400 |             |        |                   |     |                   |       |            |                    |            |               |  |
| 20:30        |             |        |                   |     |                   |       |            |                    |            |               |  |
| 20:45        |             |        |                   |     |                   |       |            |                    |            |               |  |
| 20:51        | 4           |        | 49                | 4   | com               | 15.8  |            |                    |            |               |  |
| 21:06        | 4           |        | 49                | 4   | com               | 15.8  |            |                    |            |               |  |

SERVICE LOG DETAIL

PRE-JOB SAFETY MEETING

Dowell arrive on loc. rig up hold Pte job safety meeting

Start cement slurry

Shut down cement to surface which 15 min. didn't fall cement holding

Job complete

REMARKS

| SYSTEM CODE | NO. OF SACKS | YIELD CU. FT/SK | COMPOSITION OF CEMENTING SYSTEMS |  | SLURRY MIXED |         |
|-------------|--------------|-----------------|----------------------------------|--|--------------|---------|
|             |              |                 |                                  |  | BBLs         | DENSITY |
| 1.          | 740          | 1.15            | D G Cement                       |  | 49           | 15.8    |
| 2.          |              |                 |                                  |  |              |         |
| 3.          |              |                 |                                  |  |              |         |
| 4.          |              |                 |                                  |  |              |         |
| 5.          |              |                 |                                  |  |              |         |
| 6.          |              |                 |                                  |  |              |         |

BREAKDOWN FLUID TYPE \_\_\_\_\_ VOLUME \_\_\_\_\_ DENSITY \_\_\_\_\_ PRESSURE \_\_\_\_\_ MAX \_\_\_\_\_ MIN \_\_\_\_\_

HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO Bbls

BREAKDOWN \_\_\_\_\_ PSI FINAL \_\_\_\_\_ PSI DISPLACEMENT VOL. \_\_\_\_\_ Bbls

Washed Thru Perfs  YES  NO TO \_\_\_\_\_ FT. MEASURED DISPLACEMENT  \_\_\_\_\_  WIRELINE

PERFORATIONS \_\_\_\_\_ CUSTOMER REPRESENTATIVE Dave DS SUPERVISOR Selwyn Simper

Schlumberger

Dowell

Dowell Schlumberger Incorporated  
1170 East Main  
Box 940  
Vernal, Utah 84078  
(801) 789-0411  
(801) 789-0138 (fax)

To Whom it may Concern:

On July 16, 1995 Dowell, A Division of Schlumberger Technologies, was called out by Pense Brothers Drilling Co. Inc. to perform a Plug to abandon on the Utah 898 well in Carbon County, Utah for River Gas Company.

Dowell set one (1) plug using 240 sacks of Class G Cement, mixed at 15.8 lb/gal.

Open hole size: 7 7/8"

Depth: 7,10'

Plug 1 - 240 sk G cement from 750' to Surface.

  
Garth McCorkie  
District Sales

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

RECEIVED  
JUL 26 1995

SUNDRY NOTICES AND REPORTS ON OIL, GAS & MINING

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:

ML-38669

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name: UTU67921X  
Drunkards Wash

8. Well Name and Number:

8-98

9. API Well Number:

43-007-30273

10. Field and Pool, or Wildcat:

Wildcat

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator:

River Gas Corporation

3. Address and Telephone Number:

511 Energy Center Blvd, Northport, Alabama 35476

4. Location of Well

Footages: 1320' FNL, 1320' FWL

OQ, Sec., T., R., M.:

Sec 8, T15S, R10E

County:

CARBON

State:

UTAH

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

NOTICE OF INTENT

(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

SUBSEQUENT REPORT

(Submit Original Form Only)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion July 19, 1995

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION 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)

The top of the Hammer was @ 750', fishing attempts failed to recover this obstruction. After verbal permission given by Mr. Hebertson-State of Utah-DOGM, at approximately 4:00pm 7/19/95, Dowell was called to fill the hole w/cmt. At 8:30pm 7/19/95, Dowell arrived on location rigged up & held their safety meeting & pumped 240 sks Class G cmt. This volume completely filled the hole. After the cmt set up, the csg was cut off 4' below ground and a steel cap w/the Well Name & section number was welded on (7/19/95). Pictures included.

Well Data

8-5/8" 24#/ft @ 312.8'  
12-3/4" conductor @ 18.2'

7-7/8" hole to 750-top of fish

Cement Data

1.15 cu. ft/sk  
240 sks Class G

15.8#/gal. Total Volume 49bbls

13.

Name & Signature:

STEVEN L. PRINCE

*Steven L. Prince*

Title:

UTAH OPERATIONS MGR.

Date:

7-24-95

(This space for State use only)

Confidential

RECEIVED  
OCT 18 1995

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 Coalbed Methane

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other Plug/Abandon

2. NAME OF OPERATOR  
River Gas Corporation (205) 759-3282

3. ADDRESS OF OPERATOR  
511 Energy Center Blvd.; Northport, AL 35476

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 1320' FNL & 1320' FWL Sec 8, T15S, R10E  
At top prod. interval reported below  
At total depth

5. LEASE DESIGNATION AND SERIAL NO.

ML 38669

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Drunkards Wash UTU67921X

8. FARM OR LEASE NAME

Utah

9. WELL NO.

8-98

10. FIELD AND POOL, OR WILDCAT

wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

NW/4, Sec 8, T15S, R10E

14. API NO.

43-007-30273

DATE ISSUED

05/19/95

12. COUNTY

Carbon

13. STATE

Utah

15. DATE SPUNDED

07/12/95

16. DATE T.D. REACHED

07/15/95

17. DATE COMPL. (Ready to prod.)

07/16/95

(Plug & Abd.)

18. ELEVATIONS (DF, RKB, ST, CR, ETC.)

5737' GR surveyed

19. ELEV. CASINGHEAD

----

20. TOTAL DEPTH, MD & TVD

790'

21. PLUG BACK T.D., MD & TVD

----

22. IF MULTIPLE COMPL. HOW MANY

----

23. INTERVALS DRILLED BY

ROTARY TOOLS

to TD

CABLE TOOLS

----

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

25. WAS DIRECTIONAL SURVEY MADE

----

26. TYPE ELECTRIC AND OTHER LOGS RDN

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 | CEMENTING RECORD                      | AMOUNT PULLED |
|-----------------|-----------------|----------------|-----------|---------------------------------------|---------------|
| 12-3/4"         |                 | 18.2           | 14"       | conductor                             |               |
| 8-5/8"          | 24              | 312.7          | 11"       | 135 sx class "G", 2% S-1, 1/4# per sk | D-29          |
| P&A on 07/16/95 |                 |                |           | 240 sx class "G"                      |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT | SCREEN (MD) | 30. TUBING RECORD | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|--------------|-------------|-------------------|------|----------------|-----------------|
|      |          |             |              |             |                   |      |                |                 |

31. PERFORATION RECORD (Interval, size and number)

| 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) |               |
|-----------------------|-----------------|--|-------------------------|----------|------------|------------------------------------|---------------|
| DATE OF TEST          | HOURS TESTED    | CHOKER SIZE  | PROD'N. FOR TEST PERIOD | OIL—BSL. | GAS—MCF.   | WATER—BSL.                         | GAS-OIL RATIO |
|                       |                 |  |                         |          |            |                                    |               |
| FLOW. TUBING PRESS.   | CASING PRESSURE | CALCULATED 24-HOUR RATE  | OIL—BSL.                | GAS—MCF. | WATER—BSL. | 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 Dennis Plowman  
Dennis Plowman

TITLE Reservoir Technician

DATE 10/06/95

See Spaces for Additional Data on Reverse Side

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments. ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

| 37. SUMMARY OF POROUS ZONES:<br>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               | Name  |             |                  |  |  |
|   |                  |                      | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 2px;">Meas. Depth</th> <th style="width: 50%; padding: 2px;">True Vert. Depth</th> </tr> <tr> <td style="height: 100px;"></td> <td></td> </tr> </table> | Meas. Depth | True Vert. Depth |  |  |
| Meas. Depth   | True Vert. Depth |                      |   |             |                  |  |  |
|   |                  |                      |   |             |                  |  |  |
|   |                  |                      |   |             |                  |  |  |

INSPECTION FORM 4 STATE OF UTAH  
 DIVISION OF OIL GAS AND MINING

**OIL AND GAS PRODUCTION FACILITIES**

|                                  |  |
|----------------------------------|--|
| Well Name: <u>Utah 8-98</u>      | API Number: <u>43-007-30273</u>          |
| Qtr/Qtr: _____ Section: <u>8</u> | Township: <u>15 S</u> Range: <u>10 E</u> |
| Company Name: <u>River Gas</u>   |  |
| Lease: State <u>X</u>            | Fee _____ Federal _____ Indian _____     |
| Inspector: <u>Mark L. Jones</u>  | Date: <u>8/30/2001</u>                   |

Type of Inspection: Routine  Complaint  Other  Bond Release

Well status at time of visit: Producing  Shut-in  Other PA

COMMENTS: There is a producing gas well on this location with the operating name of "Utah 8-98X" and operating under a different API# (43-007-30285). According to records on file with DOGM and produced by River Gas (now Phillips) the well in question was PA due to problems at 750' down-hole. Permission was given by M. Hebertson (DOGM) on 7/19/95 to abandon the hole cement it in and skid the rig to commence drilling of a new well. The location looks good and was built per APD specifications. Standing runoff water was on the location at time of inspection due to heavy local rainfall. Photos were taken at time of inspection.



INSPECTION FORM 4 STATE OF UTAH  
DIVISION OF OIL GAS AND MINING

OIL AND GAS PRODUCTION FACILITIES

|                                  |  |
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| Well Name: <u>Utah 8-98</u>      | API Number: <u>43-007-30273</u>          |
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66  
 PHILLIPS PETROLEUM COMPANY

6825 S 5300 W  
 PRICE, UTAH 84501  
 (435)-613-9777

NO SMOKING  
 HARD HATS REQUIRED

DRUNKARDS WASH FEDERAL UNIT  
 UTU67921X

WELL NAME UTAH  
 WELL NO. 8-98  
 CARBON COUNTY

QUARTER NW 4 / NW 4  
 SEC 8 T 15 S

R 10 E  
 30 UTAH