

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS WATER SANDS LOCATION INSPECTED

SUB. REPORT/abd.

981023 Int to Drj; Conf Removal; 981102 CBL Rec.;

DATE FILED FEBRUARY 20, 1998

LAND: FEE & PATENTED STATE LEASE NO. ML-46094

PUBLIC LEASE NO.

INDIAN

DRILLING APPROVED: MAY 7, 1998

SPUDED IN: 6-23-98

COMPLETED: 8-22-98 56W PUT TO PRODUCING: 11-11-98

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES: 5665-6485'

TOTAL DEPTH: 6573'

WELL ELEVATION: 5827' GR

DATE ABANDONED:

FIELD: UNDESIGNATED

UNIT:

COUNTY: EMERY

WELL NO. UTAH D7

API NO. 43-015-30338

LOCATION 1371 FSL FT. FROM (N) (S) LINE, 1530 FEL

FT. FROM (E) (W) LINE SW SE

1/4 - 1/4 SEC. 2

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
16S	9E	2	RIVER GAS CORP.				

GEOLOGIC TOPS:

QUATERNARY	Star Point		Chinle	8530	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 TUNUCK	1765 2030 2406	Phosphoria		Elbert
	Dakota		Park City		McCracken
	Burro Canyon		Rico (Goodridge)		Aneth
	Cedar Mountain	2464	Supai		Simonson Dolomite
	Buckhorn		Wolfcamp		Sevy Dolomite
	JURASSIC		CARBON I FEROUS		North Point
Wasatch	Morrison	3230	Pennsylvanian		SILURIAN
Stone Cabin	Salt Wash		Oquirrh		Laketown Dolomite
Colton	San Rafael Gr.		Weber		ORDOVICIAN
Flagstaff	Summerville	3718	Morgan		Eureka Quartzite
North Horn	Bluff Sandstone		Hermosa		Pogonip Limestone
Almy	Curtis	4120			CAMBRIAN
Paleocene	Entrada	4271	Pardox		Lynch
Current Creek	Moab Tongue		Ismay		Bowman
North Horn	Carmel	4996	Desert Creek		Tapcats
CRETACEOUS	Glen Canyon Gr.		Akah		Ophir
Montana	Navajo	5696	Barker Creek		Tintic
Mesaverde	Kayenta	6036			PRE - CAMBRIAN
Price River	Wingate	6190	Cane Creek		
Blackhawk	TRIASSIC				



7406 N. 81 HIGHWAY • P. O. BOX 1644 • DUNCAN, OKLAHOMA 73534
TELEPHONE 405/252-4309 • FAX NUMBER 405/252-6979

GLENN PENNY
President

May 6, 1996

John Hollingshead
River Gas Corp.
3600 Watermelon Rd..
Suite 205
Northport, AL 35476

RE: Analysis of Injection Water Compatibility with Navajo Connate Water, Project SL 4377

Dear Mr. Hollingshead,

STIM-LAB Inc. has completed both water analysis and simple compatibility study for mixing the proposed injection water at Drunkards Wash Field with a connate water sample from the proposed injection zone of the D-3 disposal well. Table 1 gives the analysis of both waters as received. Since neither were maintained in a pressurized state, the pH and carbonate values are most probably higher than would be the case in their natural state due to CO₂ release. Also, a considerable amount of precipitation of iron carbonate hydrate was present in the bottom of the connate water sample. Therefore, the dissolved iron value for this sample is most probably low. This may be the case also for the injection water as it was obtained from the holding pond where some settling of any precipitant may have also occurred. Previous experience with this injection water has shown that it has in the past precipitated iron carbonate hydrate requiring filtration before injection.

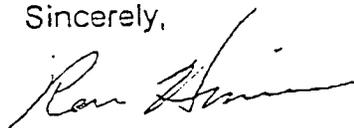
The compatibility study looked at mixing the two waters at three volume ratios as shown in Table 1. These were compared with a control mixed with deionized water. These show that some amount of carbonate formation occurred at all ratios with the injection water. A slight amount also occurred with the deionized water at the higher connate water ratio. The precipitant was mostly orange in color and readily soluble in 5% HCl with effervescence which would suggest at least a portion of it was iron carbonate hydrate. I would expect that with fresh samples maintained under pressure that the precipitation would be less or possibly not occur at all as CO₂ retained in solution would maintain a lower pH with mixing and limit precipitant formation.

Mr. John Hollingshead
May 6, 1996
Page 2

I understand an injection test was previously performed on the well with 6000 barrels of tap water. If the well was not flowed back and no formation crossflow is present, this should provide a suitable barrier to prevent any near-wellbore contact of fluids and limit the potential for scaling near the wellbore. If the well has been flowed since that time, I would recommend a preflush of tap water be injected ahead of the flood water. We can discuss the volumes further if needed. Keeping the injection water under pressure from the point of production to re-injection would also limit the amount of CO₂ evolution and reduce the possibility of carbonate formation. It should be pointed out that acid jobs performed on the D-1 well had minimal effect on injection pressure. This would indicate that carbonate precipitation near the wellbore was not a problem with the current injection system.

STIM-LAB Inc. appreciates the opportunity work with you on this project. If you have any questions regarding this testing, please feel free to give Mike Conway or myself a call.

Sincerely,



Ron Himes, Group Leader
Core Testing Group

RH



Table 1
 SL 4377
 River Gas Corporation
 D-3 Connate and Injection Water Analysis
 Analyzed 5/1-5/2/96

	<u>Injection</u>	<u>Connate</u>
pH	8.71	6.14
Carbonate	420 mg/L	0 mg/L
Bicarbonate	3890 mg/L	705 mg/L
Chlorides	2518 mg/L	116163 mg/
TDS	8402 mg/L	217264 mg/
Sulfate	<1.6 mg/L	3390 mg/L
Calcium	17.5 mg/L	1390 mg/L
Magnesium	15.8 mg/L	465 mg/L
Iron	<2.5 mg/L	10.9 mg/L
Aluminum	<5.0 mg/L	<5.0 mg/L
Sodium	2600 mg/L	78500 mg/L
Potassium	63 mg/L	1500 mg/L
Hardness	109 mg/L	5386 mg/L

Examination of Injection and
 Connate Water Compatibility

Mixing Ratio Connate/Injection	FeCO ₃ /CaCO ₃ (mg/L)	Final pH
75/25	95	6.88
50/50	127	7
25/75	85	7.38
Mixing Ratio Connate & DI		
75/25	24	6.68
50/50	1	6.78
25/75	0	6.97

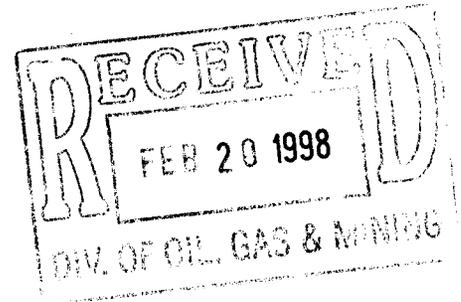


CONFIDENTIAL

ORIGINAL

RIVER GAS CORPORATION

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



February 20, 1998

Mr. Michael Hebertson
State of Utah
Div. of Oil, Gas and Mining
1594 W. North Temple-Suite 1210
SLC, Utah 84114-5801

RE: Application for Permit to Drill-
Disposal Well 7, SW/4, SE/4, Sect.2
T16S, R09E, SLB & M, Emery County, Utah

Dear Mr. Hebertson:

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" - Well Site Plan;
- Exhibit "F" - Typical Road Cross-section;
- Exhibit "G" - BOP Diagram;

A surface land use agreement is currently being negotiated. Upon completion, an affidavit regarding the agreement 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.

Sincerely,

Don S. Hamilton

Don S. Hamilton
Permit Specialist

cc: Mr. Gilbert Hunt, DOGM
Mr. Chuck Snure, Texaco
Mr. R.A. Lamarre, Texaco
Mr. Gee Lake, Jr., 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

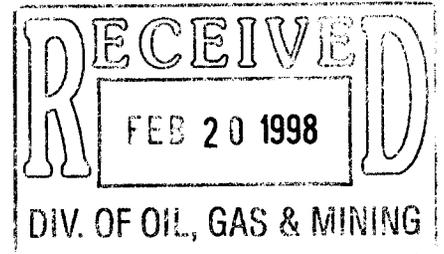
APPLICATION FOR PERMIT TO DRILL OR DEEPEN		5. Lease Designation and Serial Number: ML-46094	
		6. If Indian, Allottee or Tribe Name: N/A	
1A. Type of Work: DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		7. Unit Agreement Name: Drunkards Wash UTU-67921X	
8. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: <small>Water Disposal</small> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name: Utah	
2. Name of Operator: River Gas Corporation		9. Well Number: D7	
3. Address and Telephone Number: 1305 South 100 East, Price, UT 84501 (801)637-8876		10. Field or Pool, or Wildcat: Drunkards Wash	
4. Location of Well (Footages) At Surface: 1371' FSL & 1530' FEL At Proposed Producing Zone:		11. Qtr/Qtr, Section, Township, Range, Meridian: SW/4, SE/4, Sec.2, T16S, R9E, SLB&M	
14. Distance in miles and direction from nearest town or post office: 10.2 miles southwest of Price, Utah		12. County: Emery	13. State: UTAH
15. Distance to nearest property or lease line (feet): 1371'	16. Number of acres in lease: 638.40 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): 750'	19. Proposed Depth: 6800'	20. Rotary or cable tools: Rotary	
21. Elevations (show whether DF, RT, GR, etc.): 5826.5' GR		22. Approximate date work will start: March 1998	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"	Conductor	40'	See below attached cement program
17 1/2"	13 3/8"	48#	300'	
12 1/4"	9 5/8"	36#	2100'	
8 1/2"	7"	26#	6800'	

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.

320 sks G+2%CaCl + 1/4#per sack flocel
 315 sks 50/50 poz +8%gel+2%CaCl+10%extender.200 sks 10-1 RFC
 350 sks 50/50 poz +8%gel+2%CaCl+10%extender.312 sks 10-1 RFC
 230 sks 6 +2%CaCl+1/4#per sack flocel;115 sks 6+2%CaCl+1/4#per sack flocel



24. Name & Signature: Don S. Hamilton *Don S. Hamilton* Title: Permit Specialist Date: 2/20/98

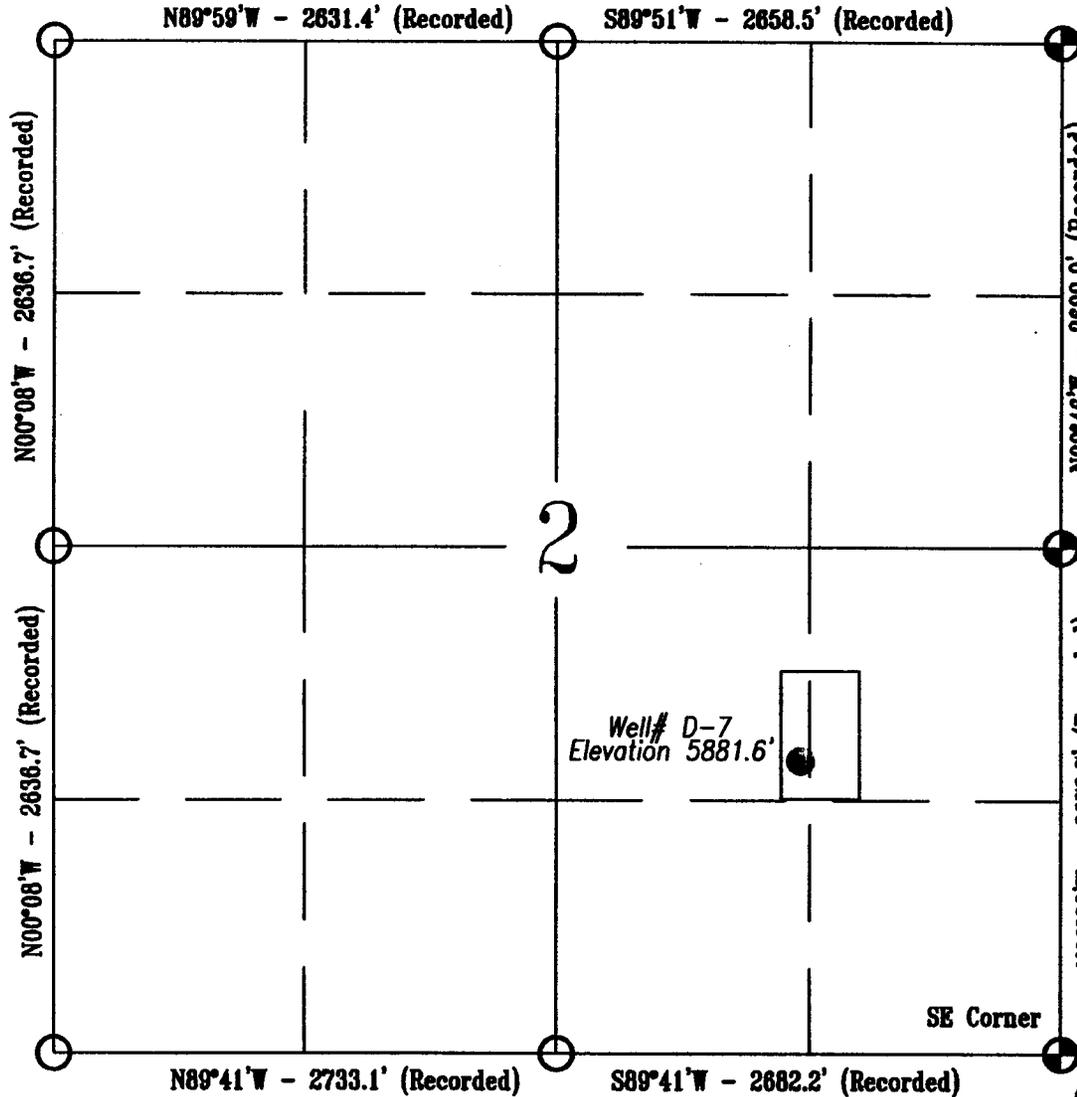
(This space for state use only)

API Number Assigned: 43-015-30338

Approval:

Range 9 East

Township 16 South



Basis of Bearing:

Basis of Bearing S89°52'W recorded between the SW Corner of Section 36 Township 15 South, Range 9 East, and the North Quarter Corner of Section 1, Township 16 South, Range 9 East, Salt Lake Base & Meridian.

Basis Of Elevation:

Basis of Elevation of 5827' as indicated in the UDOT R.O.W Marker in Section 12, Township 16 South, Range 9 East, Salt Lake Base and Meridian.

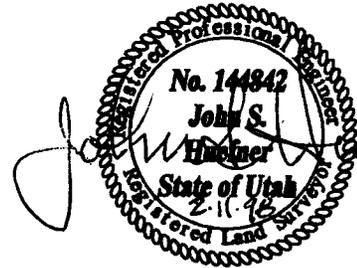
Description of Location:

Proposed Drill Hole located in the NW 1/4 SE1/4 of Section 2; 1370.8' North and 1529.5' West from the SE Corner of Section 2, 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.

N00°46'W - 2608.0' (Recorded)
 N00°44'14"W - 2610.2' (Measured)
 N00°36'W - 2673.7' (Recorded)
 N00°36'43"W - 2675.3' (Measured)

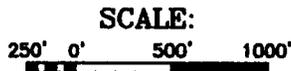


John S. Huefner

Exhibit "A"
 1 OF 3

LEGEND:

- Drill Hole Location
- ⊕ Brass Cap (Found)
- Brass Cap (Searched for, But Not Found)



DESIGNED BY: P. BOYLEN
CHECKED BY: L.W.J.
DATE: 2/10/98
SCALE: 1"=1000'
SHEET NO. 244
DRAWING NO. A-1
TOTAL SHEETS 1 of 4

Castle Valley
 3286 South 125 West
 Price, Utah 84501
 (801) 637-8300
 FAX (801) 637-2833

River Gas Corporation
 Well# D-7
 Section 2, T16S, R9E, S.L.B.&M.
 Carbon County, Utah

EXHIBIT "D"- Page 1
RIVER GAS CORPORATION
Drilling Information

(D7)Disposal Well
(SW/4,SE/4) Sect. 2, T16S, R9E, SLB & M, Carbon County, Ut.

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) 636-5256 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

Michael J. Farrens	(205) 759-3282 Office
Exec. Vice President	(205) 758-8535 Home

2.2 Lease: State of Utah ML-46094

2.3 This disposal well will be drilled approximately 10.2 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. This was previously arranged by Mr. Mike Farrens of RGC with Mr. Phillip Palmer of PRWID and approved by Mr. Mark Page of the Utah State Division of Water Rights.

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.

RIVER GAS CORPORATION

Drilling Information Cont.

<u>Formation/Unit</u>	<u>Estimated Depth(top)</u>
Upper Mancos Shale	Surface
Ferron Sandstone	1810'
Tununk Shale	2110'
Cedar Mtn	2512'
Dakota	2468'
Morrison	3320'
Summerville	3800'
Curtis	4224'
Entrada	4380'
Carmel	5052'
Navajo	5690'
Kayenta	6055'
Wingate	6150'

2.6.2 This well will be utilized strictly for the injection of produced waters from RGC's offset 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 CO₂.

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 3500 psi or 70% of the minimum interval yield pressure. All tests will be recorded in a Driller's Report Book. Physical operation of the BOP's will be checked on each trip. See Attachment "G" for the schematic of the BOPE.

rest

2.6.4 **Casing Program-** 20" conductor pipe will be set to approximately 20'. Surface casing will be 13 3/8" 48#/ft. set to 300' and cemented with 320 sacks of class "G" cement with 2% CaC₁₂. Which has a weight of 15.8 lb./gal. Intermediate casing will be 9 5/8", 36 lb./ft. LTC set to ± 2100' and cemented with 315 sks 50/50 POZ, 200 sks 10-1 RFC. Production casing will be 7", 26 lb./ft. LTC which will be run to TD and cemented in two stages with 230 sks G + 350 sks 50/50 Pozmix cement and tail-in with 1155 sks G & 312 sacks of 10-1 RFC. Cement volumes may vary depending on hole conditions and a maximum effort will be made to bring cement back to the surface on all casings.

RIVER GAS CORPORATION

Drilling Information Cont.

2.6.5 Mud Program:

<u>Depth</u>	<u>Hole Size</u>	<u>Program</u>
0-300'	17 1/2" hole	
300'-2100'	12 1/4" hole	Drill with air. 400 psi @ 1500-1800 cfs.
2100'-TD	8-1/2" hole	Drill with air 400 psi @ 1500-1800 cfs.

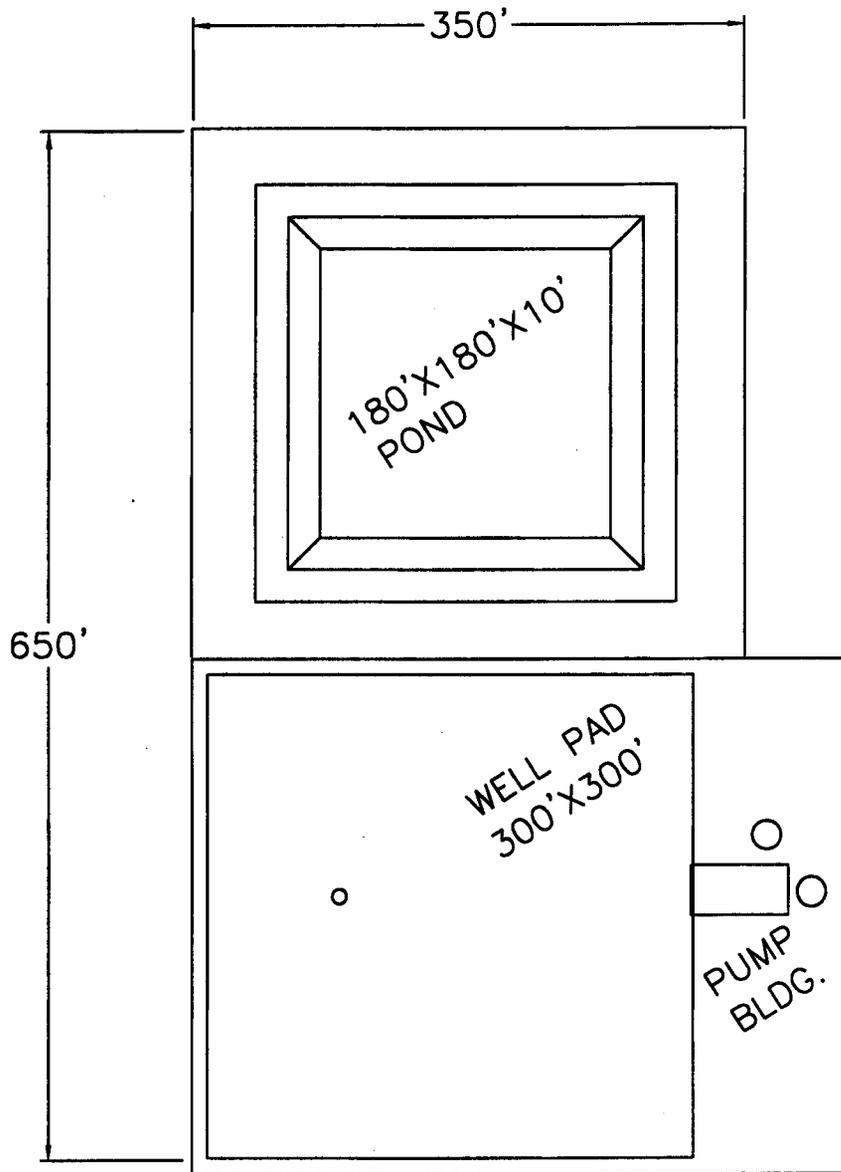
If necessary to mud-up, a fresh water Bentonite type system will be used.

2.6.6 Logging and Testing Program:

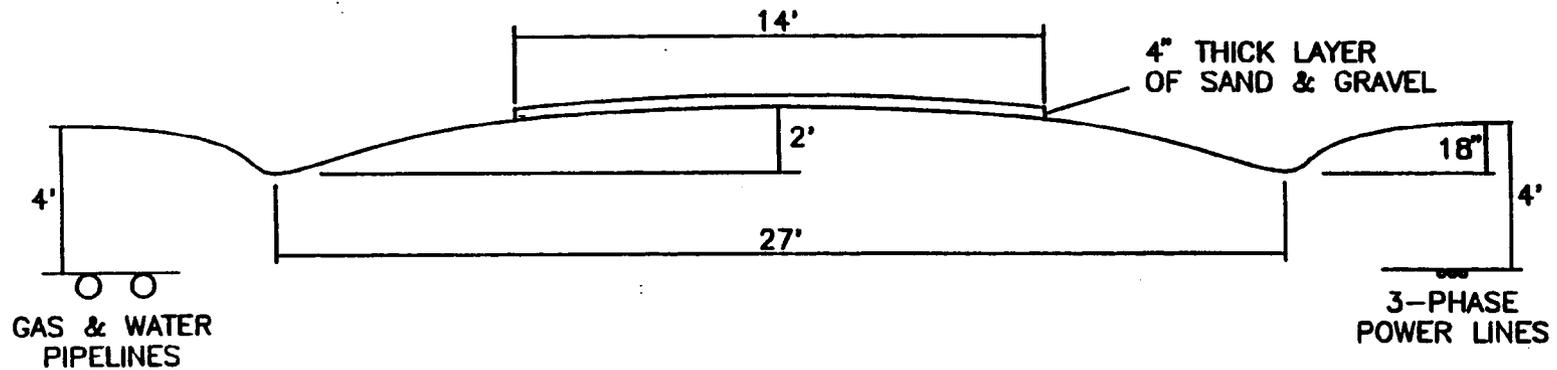
<u>Depth</u>	
0-300'	Gamma Ray
300-TD	GR,DIL, LDT, CNL, DSI SONIC

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

PROPOSED DISPOSAL WELL D-7



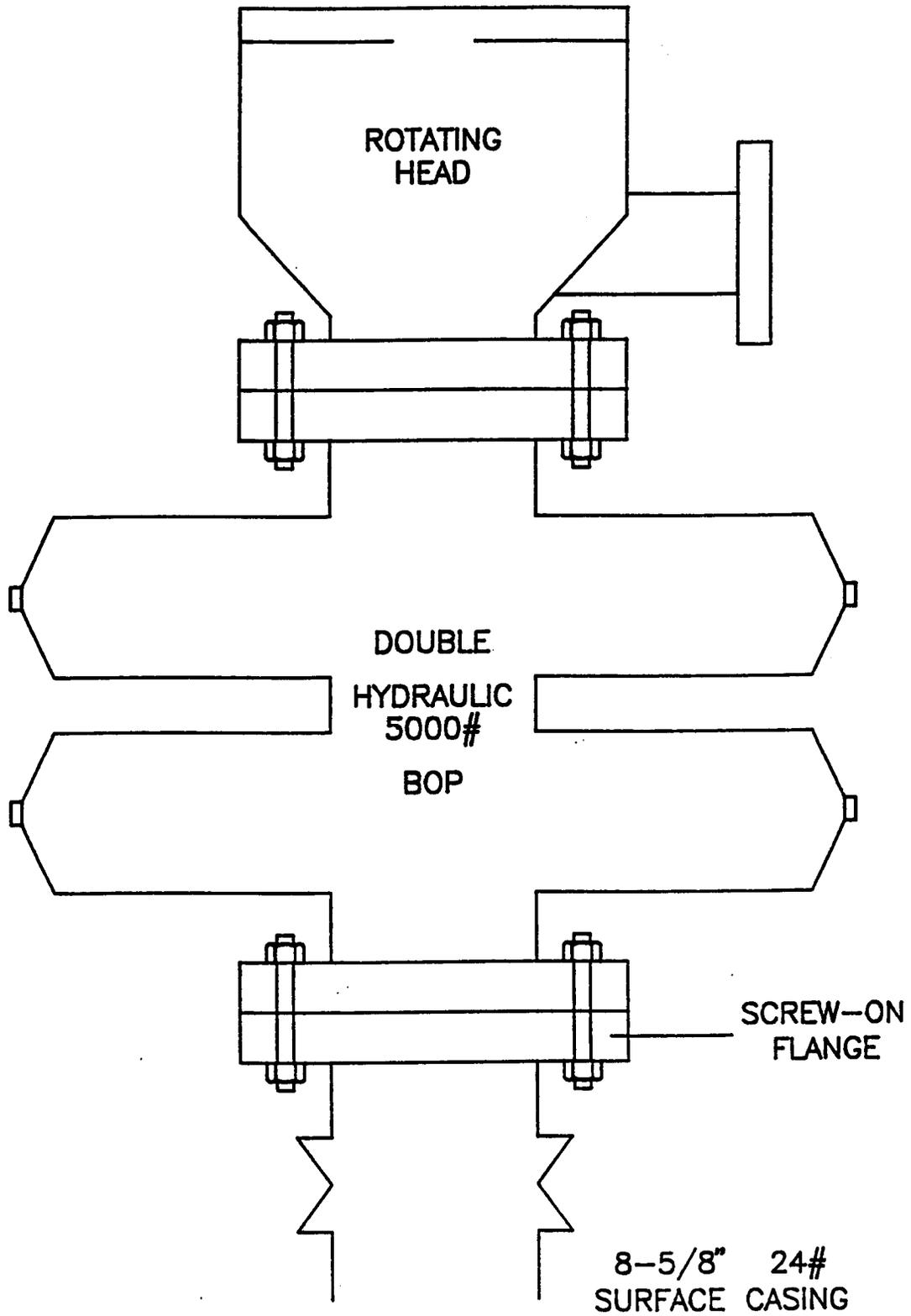
RIVER GAS CORPORATION

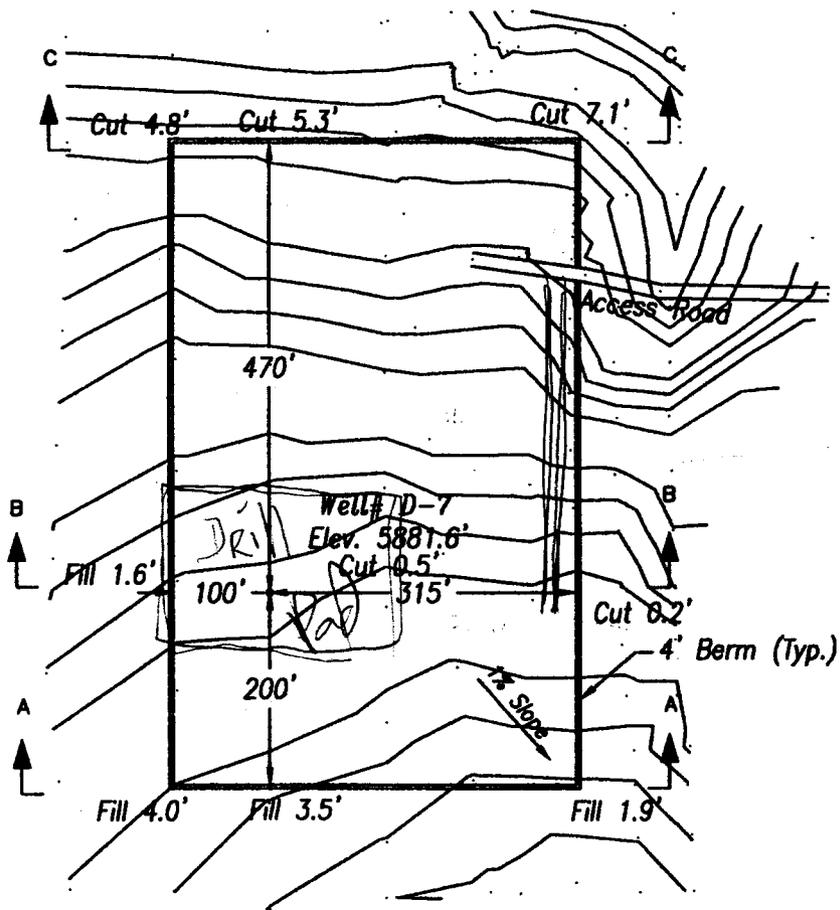


TYPICAL ROAD CROSS-SECTION

NOT TO SCALE

DIVERTER HEAD





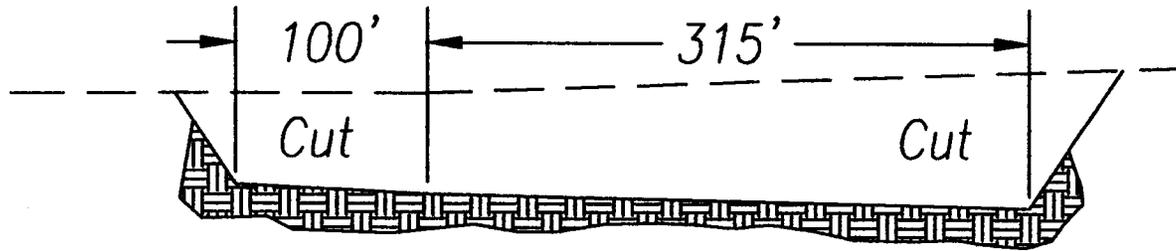
Elevation Ungraded Ground at Location Stake = 5881.6'
 Elevation Graded Ground at Location Stake = 5881.1'



Exhibit "A"
 2 OF 3

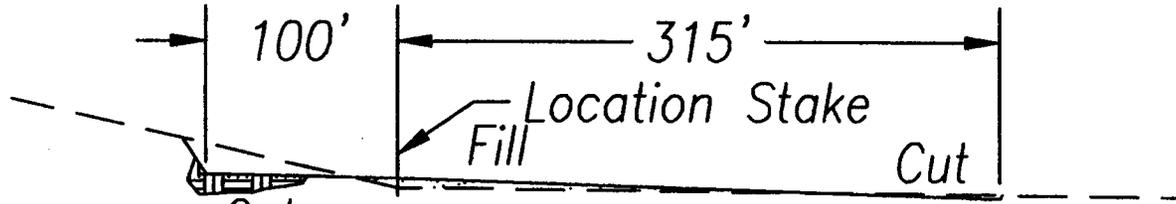
DESIGNED BY: P. BOYLEN	 3204 South 125 West P.O. Box 84501 (801) 637-8300 FAX (801) 637-2833
CHECKED BY: L.W.J.	
DATE: 2/9/98	
SCALE: 1"=200'	
SHEET NO.: 244	
PROJECT NO.: A-2	Section River Gas Corporation Location Layout Section 2, T16S, R9E, S.L.B.&M. Well # D-7
DATE: 2 OF 4	

1"=10'
X-Section Scale
1"=100'



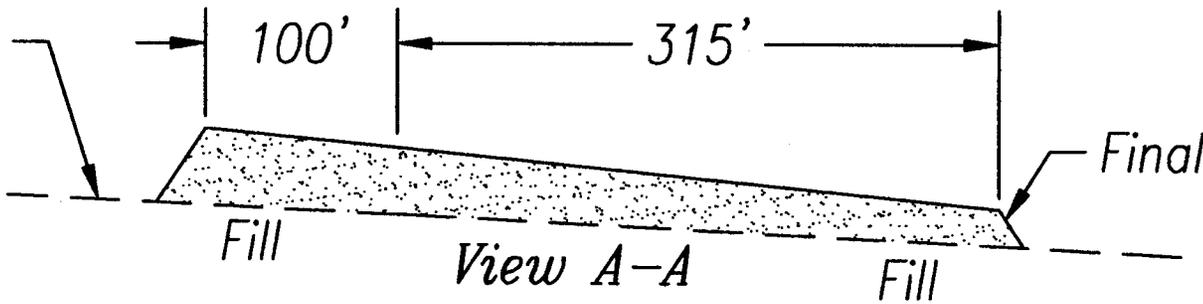
View C-C

Slope = 1 1/2 : 1



View B-B

Preconstruction



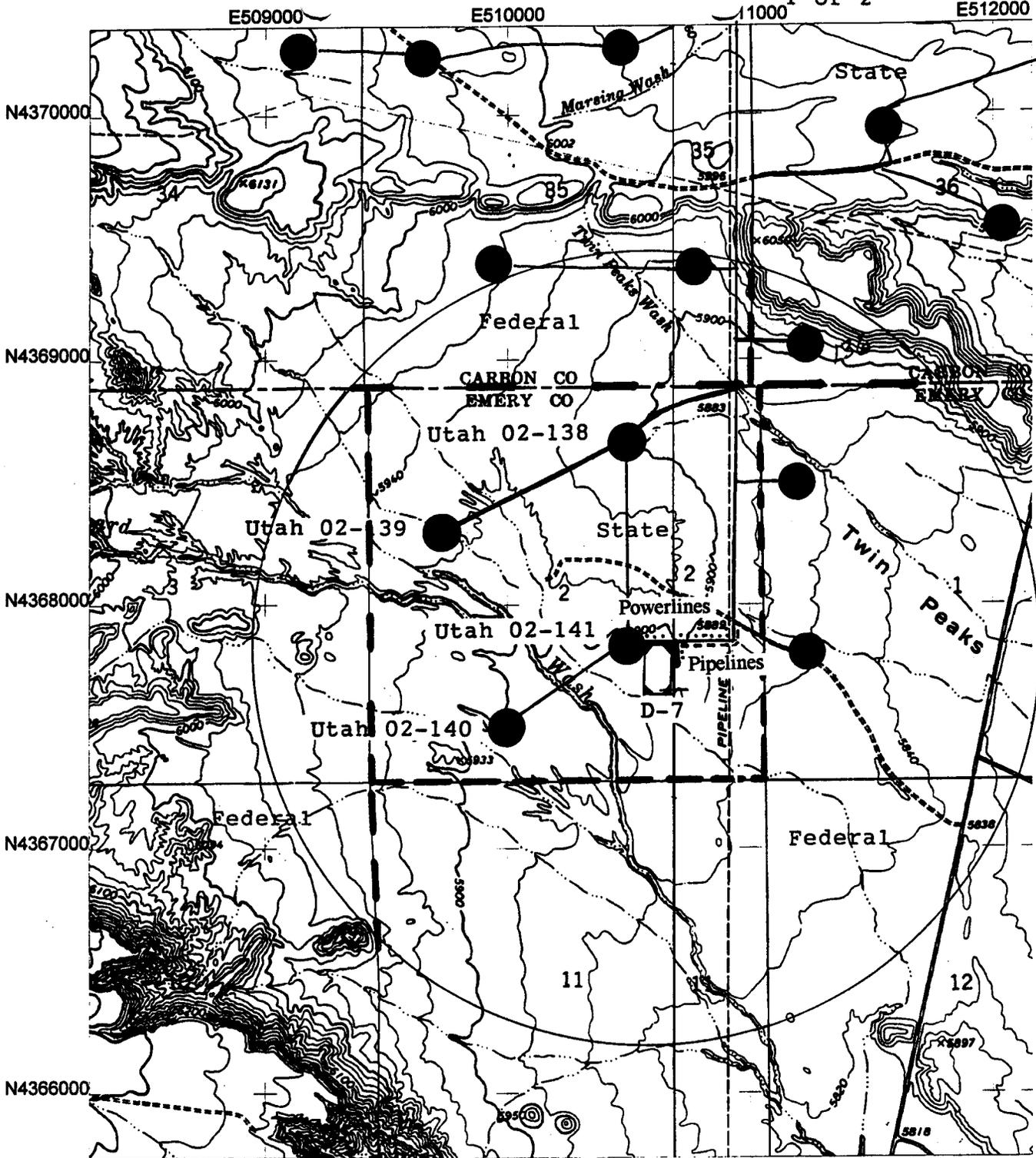
View A-A

Exhibit "A"
3 OF 3

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 5,200.0 Cu. Yds.
Remaining Location	= 21,585.1 Cu. Yds.
TOTAL CUT	= 26,785.1 Cu. Yds.
TOTAL FILL	= 5,410.4 Cu. Yds.

DESIGN BY: P. BOYLEN	
CHECKED BY: L.W.J.	
DATE: 2/9/98	3200 South 125 West P.O. Box 84881 Salt Lake City, Utah 84181 (801) 637-6300 FAX (801) 637-2833
SCALE: As Shown	Section
SHEET NO.:	River Gas Corporation
244	Typical Cross Sections
REVISION NO.:	Section 2, T16S, R9E, S.L.B.&M.
C-1	Well# D-7
SHEET 3 OF 4	



Proposed D-7

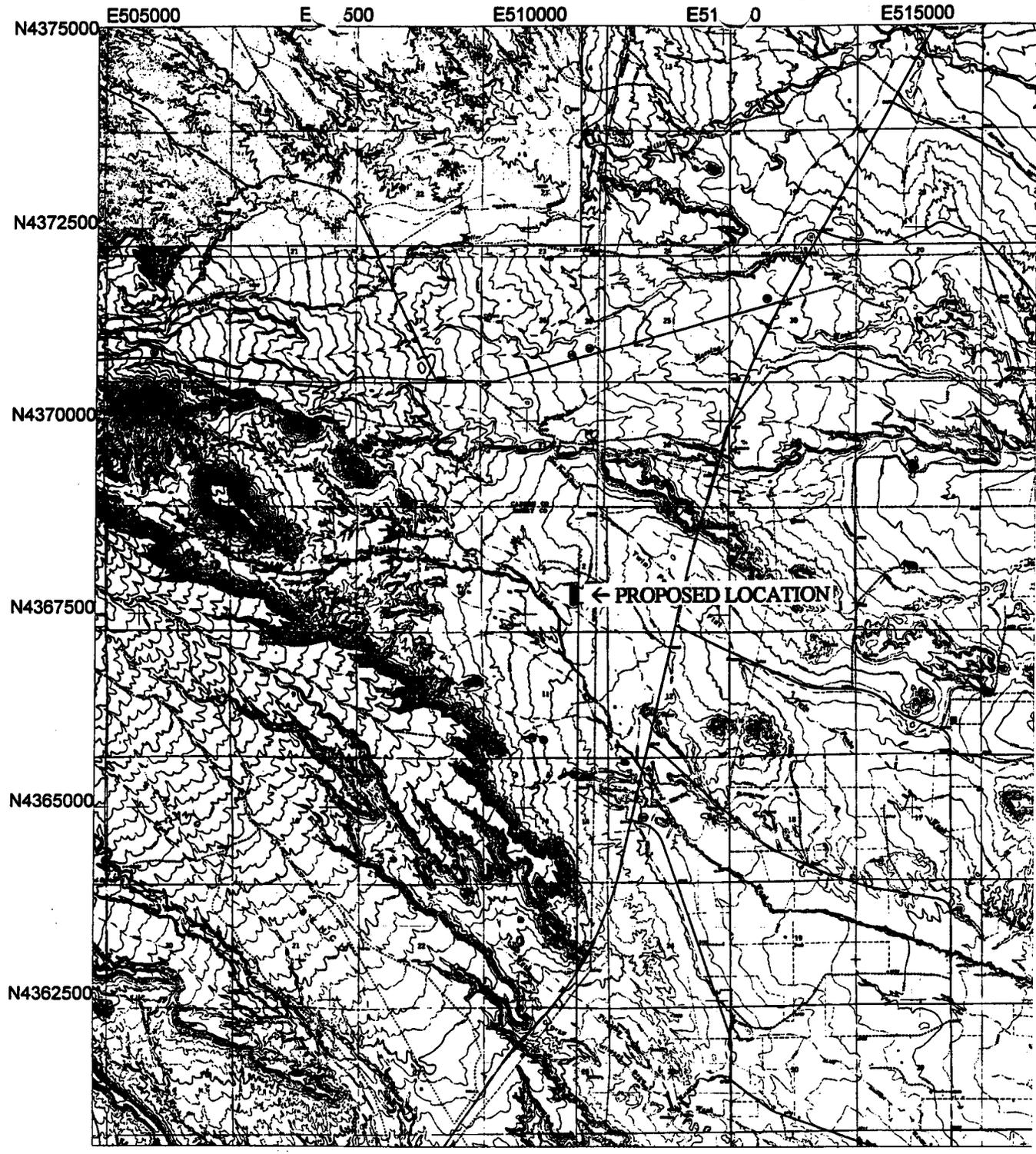
Universal Transverse Mercator
North 12
NAD83 (Conus)

N

Scale 1:24000

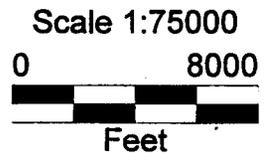


2/6/1998
Pathfinder Office™
Trimble

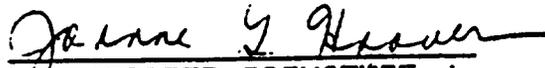


Proposed D-7

Universal Transverse Mercator
North 12
NAD83 (Conus)



2/5/1998
Pathfinder Office™
 Trimble

AMSOUTH BANK OF ALABAMA
1900 FIFTH AVENUE NORTH
BIRMINGHAM, ALABAMA 35203 USA
OUR REFERENCE NUMBER: S308586**International Services****Mobile:**TELEX: 6821116
Cable: AMSOMBL
S.W.I.F.T. AMSB US 44AMENDMENT NUMBER: 002
TO LETTER OF CREDIT NUMBER: S308586
DATE: NOVEMBER 13, 1995BENEFICIARY:
STATE OF UTAH
DEPT. OF NATURAL RESOURCES
DIV. OF OIL, GAS AND MINING
355 WEST TEMPLE 3 TRIAD CENTER
SUITE 350
SALT LAKE CITY, UTAH 84180-1203AT THE REQUEST OF RIVER GAS CORPORATION 3600 WATERMELON ROAD
SUITE 204 NORTHPORT, ALABAMA 35476 AND FOR THE ACCOUNT OF SAMEWE HEREBY AMEND OUR LETTER OF CREDIT NUMBER S308586 DATED
DECEMBER 3, 1993 OPENED IN YOUR FAVOR AS FOLLOWS:-ACCOUNT PARTY'S ADDRESS IS CHANGED
TO: 511 ENERGY CENTER BLVD
NORTHPORT, ALABAMA 35476**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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
ML-46094

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

7. Unit Agreement Name:
Drunkards Wash UTU-67921X

8. Farm or Lease Name:
Utah

9. Well Number:
D7

10. Field or Pool, or Wildcat:
Drunkards Wash

11. Qtr/Qt, Section, Township, Range, Meridian:
SW/4, SE/4, Sec.2, T16S, R9E, SLB&M

12. County:
Emery

13. State:
UTAH

15. Distance to nearest property or lease line (feet): **1371'**

16. Number of acres in lease:
638.40 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): **750'**

19. Proposed Depth:
6800'

20. Rotary or cable tools:
Rotary

21. Elevations (show whether DF, RT, GR, etc.):
5826.5' GR

22. Approximate date work will start:
March 1998

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. Type of Work: **DRILL** **DEEPEN**

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

2. Name of Operator:
River Gas Corporation

3. Address and Telephone Number:
1305 South 100 East, Price, UT 84501 (801)637-8876

4. Location of Well (Footages)
At Surface: **1371' FSL & 1530' FEL**
At Proposed Producing Zone: **418**

CONFIDENTIAL

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

15. Distance to nearest property or lease line (feet): **1371'**

18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): **750'**

21. Elevations (show whether DF, RT, GR, etc.):
5826.5' GR

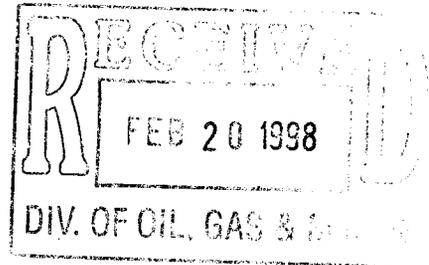
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"	Conductor	40'	See below attached
17 1/2"	13 3/8"	48#	300'	cement program
12 1/4"	9 5/8"	36#	2100'	
8 1/2"	7"	26#	6800'	

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.

320 sks G+2%CaCl + 1/4#per sack flocel
 [315 sks 50/50 poz +8%gel+2%CaCl+10%extender,200 sks 10-1 RFC
 350 sks 50/50 poz +8%gel+2%CaCl+10%extender;312 sks 10-1 RFC
 230 sks 6 +2%CaCl+1/4#per sack flocel;115 sks 6+2%CaCl+1/4#per sack flocel

CONFIDENTIAL



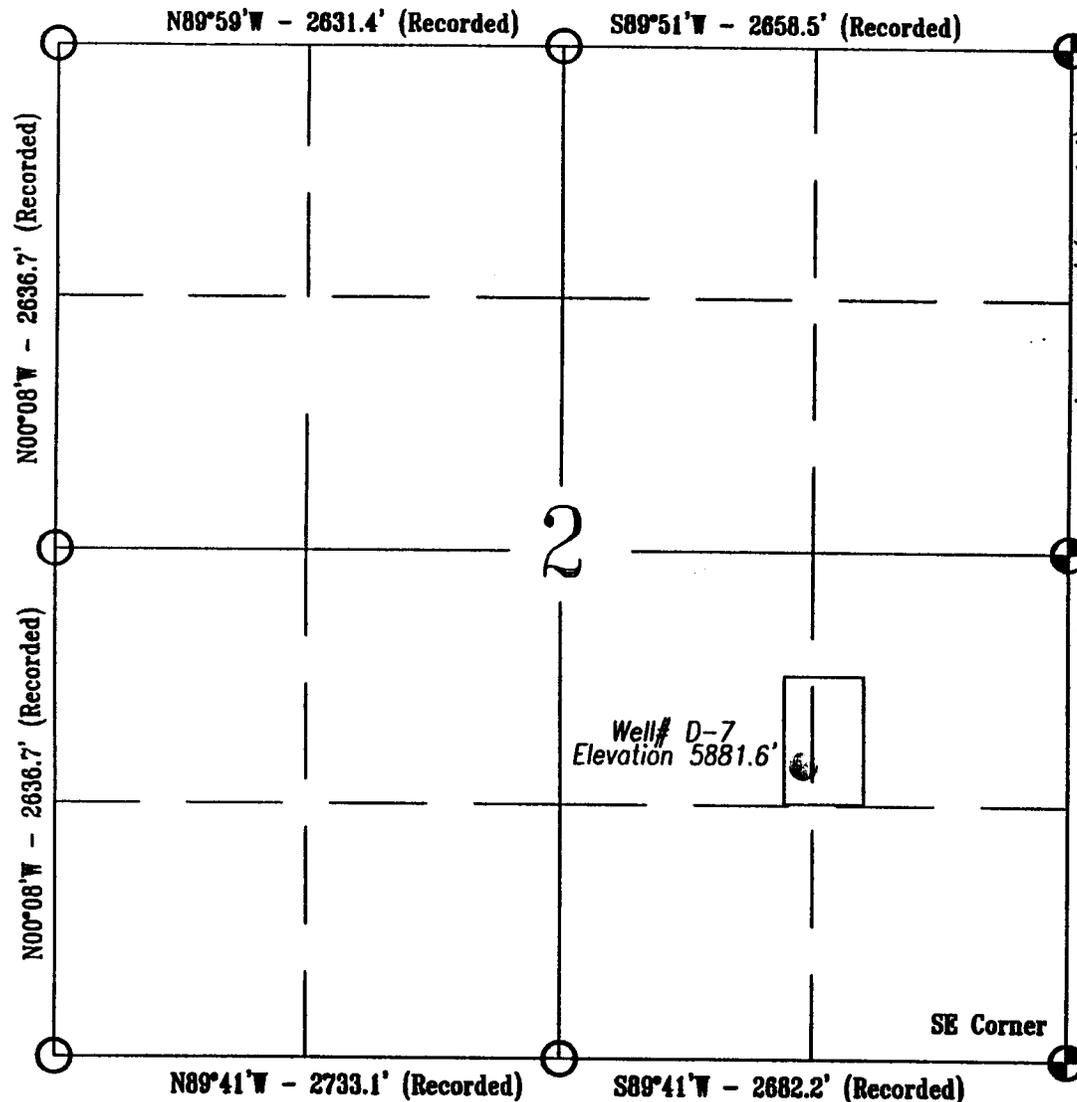
24. Name & Signature: **Don S. Hamilton** *Don S. Hamilton* Title: **Permit Specialist** Date: **2/20/98**

(This space for state use only)
API Number Assigned: **43-015-30338**

Approval:
Approved by the Utah Division of Oil, Gas and Mining
Date: **5/7/98**
By: *[Signature]*

Range 9 East

Township 16 South



Basis of Bearing:

Basis of Bearing S89°52'W recorded between the SW Corner of Section 36 Township 15 South, Range 9 East, and the North Quarter Corner of Section 1, Township 16 South, Range 9 East, Salt Lake Base & Meridian.

Basis Of Elevation:

Basis of Elevation of 5827' as indicated in the UDOT R.O.W Marker in Section 12, Township 16 South, Range 9 East, Salt Lake Base and Meridian.

Description of Location:

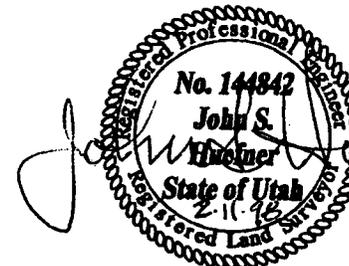
Proposed Drill Hole located in the NW 1/4 SE1/4 of Section 2; 1370.8' North and 1529.5' West from the SE Corner of Section 2, T16S, R9E, Salt Lake Base & Meridian.

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.

N00°38'W - 2673.7' (Recorded)
N00°36'43"W - 2675.3' (Measured)

N00°46'W - 2609.0' (Recorded)
N00°44'14"W - 2610.2' (Measured)

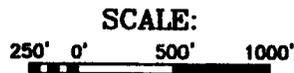


John S. Huefner

Exhibit "A"
1 OF 3

LEGEND:

- Drill Hole Location
- ⊕ Brass Cap (Found)
- Brass Cap (Searched for, But Not Found)



DRAWN BY: P. BOYLEN
CHECKED BY: L.W.J.
DATE: 2/10/98
SCALE: 1"=1000'
SHEET NO. OF TOTAL SHEETS: 244 / 244
PROJECT NO. OR DRAWING NO.:
A-1
SHEET 1 OF 4

Castle Valley

2264 South 125 West
Price, Utah 84501
(801) 637-8300
FAX (801) 637-2833

Services

River Gas Corporation
Well # D-7
Section 2, T16S, R9E, S.L.B.&M.
Carbon County, Utah

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/20/98

API NO. ASSIGNED: 43-015-30338

WELL NAME: UTAH D7
OPERATOR: RIVER GAS CORP (N1605)

PROPOSED LOCATION:
SWSE 02 - T16S - R09E
SURFACE: 1371-FSL-1530-FEL
BOTTOM: 1371-FSL-1530-FEL
EMERY COUNTY
UNDESIGNATED FIELD (002)

INSPECT LOCATION BY: 03/15/98		
TECH REVIEW	Initials	Date
Engineering	<i>RJK</i>	5/5/98
Geology	<i>CK</i>	4/9/98
Surface	<i>CK</i>	4/9/98

2 pgs attached.

LEASE TYPE: STA
LEASE NUMBER: ML - 46094

PROPOSED PRODUCING FORMATION: NAVA

RECEIVED AND/OR REVIEWED:

Plat
 Bond: Federal [] State Fee []
 (Number 5308586)
 Potash (Y/N)
 Oil shale (Y/N)
 Water permit
 (Number CITY OF PRICE)
 RDCC Review (Y/N)
 (Date: 6 FEB 3-MAR 98)

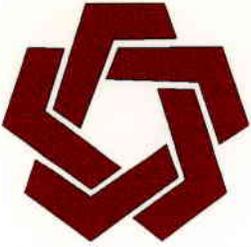
LOCATION AND SITING:

R649-2-3. Unit: _____
 R649-3-2. General.
 R649-3-3. Exception.
 Drilling Unit.
 Board Cause no: _____
 Date: _____

COMMENTS: INJECTION WELL

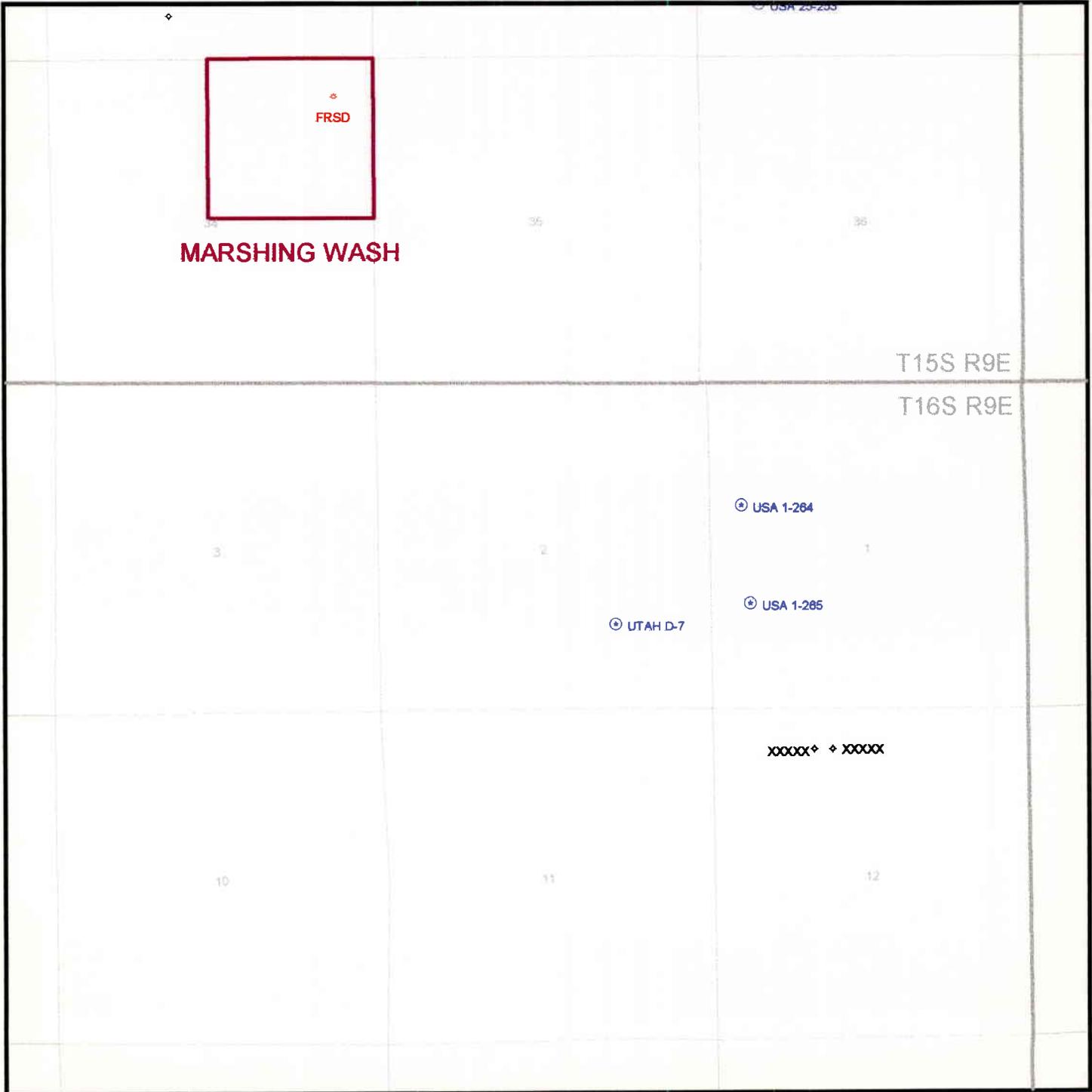
STIPULATIONS: Indicate API casing grade and actual
volumes/amounts used in well construction in
Sundry Notes.

① STATEMENT OF BASIS



DIVISION OF OIL, GAS & MINING

OPERATOR: RIVER GAS CORP. (N1605)
FIELD: UNDESIGNATED (002)
SEC. 2, TWP. 16S, RNG. 9E,
COUNTY: EMERY UAC: R649-3-2



DATE PREPARED:
27-FEB-1998

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY OIL, GAS AND MINING 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, Utah 84114-5801	2. STATE APPLICATION IDENTIFIER NUMBER: (assigned by State Clearinghouse)
--	--

4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS: (to be sent out by agency in block 1) Southeastern Utah Association of Governments	3. APPROXIMATE DATE PROJECT WILL START: Upon Approval
---	--

5. TYPE OF ACTION: Lease Permit License Land Acquisition
 Land Sale Land Exchange Other _____

6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill

7. DESCRIPTION:
River Gas Corporation proposes to drill the Utah D7 well (wildcat) on state lease ML-46094, Emery County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.

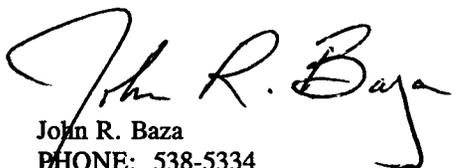
8. LAND AFFECTED (site location map required) (indicate county)
SW/4, SE/4, Section 2, Township 16 South, Range 9 East, Emery County, Utah

9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?
No

10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
Degree of impact is based on the discovery of oil or gas in commercial quantities.

11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:

12. FOR FURTHER INFORMATION, CONTACT:	13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL:
---------------------------------------	---



John R. Baza
PHONE: 538-5334

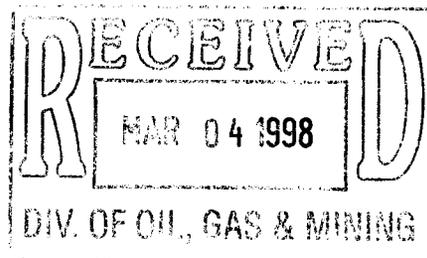
Associate Director

DATE: March 3, 1998



RIVER GAS CORPORATION

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



March 2, 1998

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

RE: D-7 APD submitted by RGC on 2/20/98

Dear Mr. Hebertson:

Enclosed please find the sundry notice for the D-7 submitted on 2/20/98. An error was found on the APD after it had been mailed. It is indicated that the well will be inside the Drunkards Wash Federal Unit, which is not the case. Therefore, the following corrections need to be made to the APD for D-7:

- 1) line 7 should read "N/A"
- 2) line 10 should read "Undesignated"

Please accept our apologies for any inconvenience that these may have caused.

Sincerely,

Don S. Hamilton

Don S. Hamilton
Permit Specialist

cc: Mrs. Tammie Butts, RGC

Mr. Eric Jones, BLM, Moab
RGC Well File

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: ML-46094
6. If Indian, Allottee or Tribe Name: N/A
7. Unit Agreement Name: N/A
8. Well Name and Number: D7
9. API Well Number:
10. Field or Pool, or Wildcat: Undesignated

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 GAS OTHER

2. Name of Operator: River Gas Corporation

3. Address and Telephone Number: 1305 South 100 East, Price, UT 84501 (801)637-8876

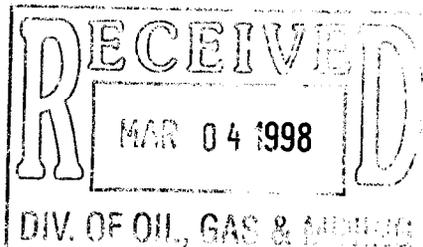
4. Location of Well
Footages: 1371' FSL, 1530' FEL
County: CARBON
QQ, Sec., T., R., M.: SW/4, SE/4, SEC. 2, T16S, R9E, SLB&M
State: UTAH

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)
<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 type="checkbox"/> Other _____ Date of work completion _____ <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.</small>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <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 Casing <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off

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.)

Request for exception to the state spacing rule based on Geology.



13. Name & Signature: Don S. Hamilton *Don S. Hamilton* Title: Permit Specialist Date: 3/2/98

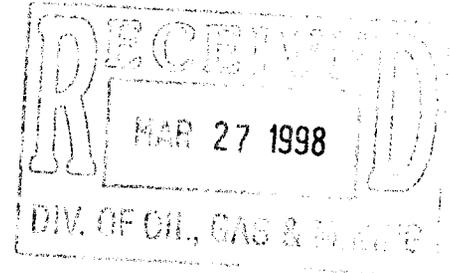
(This space for state use only)



ORIGINAL

RIVER GAS CORPORATION

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



March 25, 1998

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

RE: Supplemental Information for the previously submitted ~~D-7~~ and D-8

Dear Mr. Kierst:

Following our conversation on Friday, March 20, 1998 the following information is being provided to supplement the APD's previously submitted. This information will become a part of our APD packages for future disposal wells. Please include the following information with your review of the APD's:

Attachment "A" - Selected Points to be Addressed in On-site Pre-drill Evaluation

Attachment "B" - Proposed Drilling Equipment Location Layout

Thank you for accepting this supplemental information in this manner. Please feel free to contact me if you have any questions.

Sincerely,

Don S. Hamilton

Don S. Hamilton
Permit Specialist

cc: Mrs. Tammie Butts, RGC
RGC Well File

Attachment "A"

**SELECTED POINTS TO BE ADDRESSED IN ON-SITE PRE-DRILL
EVALUATION**

River Gas Corp.
Disposal Well D-7
SW/SE, Sec. 2, T16S, R09E, SLB&M
1371' FSL, 1530' FEL
Emery County, Utah

Multipoint Surface Use Plan

1. Existing Roads

- a) We do not plan to change, alter or improve upon any existing state or county roads. Existing roads will be maintained in the same or better condition.

2. Planned Access

- a) Approximately 1400' of new access will be constructed.
- b) From the north-south section 2 access, traverse approximately 1200' west to the D-7. The access then continues west approximately 200' to the proposed Utah 02-141 (see Exhibit "B", included in the previously submitted APD).
- c) Maximum Width: 14' travel surface with 27' base
- d) Maximum grade: 4%
- e) Turnouts: None
- f) Drainage design: 3 culverts may be required. Water will be diverted around the well pad as necessary.
- g) Following drilling, the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.

3. Location of Existing Wells

- a) There are no existing wells within ½ mile of the proposed location.

4. Location of Existing and/or Proposed Facilities

- a) If drilling is successful, installation of production facilities will follow. Buried power lines will run along the access road on the east or 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 (PRWID) (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) As the well will be air drilled, a small 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 not be lined unless conditions encountered during construction warrant it or if 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 operations cease with four strands of barbed wire, or 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 backfilled and returned to natural grade.
- c) No liquid hydrocarbons will be discharged to the reserve pit or location.
- d) 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.
- e) 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 three 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 burn pits, and soil stockpiles will be located as shown on the following attachment.
- 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 burn pit. The burn pit will not be lined, but will be fenced on four sides to protect livestock/wildlife.
- c) Natural runoff will be diverted around the well pad.

10. Plans for Restoration of Surface

- a) All surface areas not required for production operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum.
- 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.
- d) Any oil accumulation on the pit will be removed or overhead flagged as dictated by then existing conditions.
- e) Date of commencement will be as soon as possible. Rehabilitation will commence following completion of the well. If the wellsite is to be abandoned, all disturbed areas will be recontoured to match the original natural contour as closely as is possible.

11. Surface Ownership

- a) The well site and access road will be constructed on lands owned by the State Institutional & Trust Lands Administration. The operator shall contact the landowner's representative and the Division of Oil, Gas & Mining 48 hours prior to the beginning construction activities.

12. Other Information:

- a) The primary surface use is grazing. The nearest dwelling is more than one mile away from the location. Nearest live water is 3 miles north.
- b) 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.
- c) The backslope and foreslope will be constructed no steeper than 4:1.
- d) All equipment and vehicles will be confined to the access road and well pad.
- e) 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.

- f) 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
River Gas Corporation, 1305 So. 100 E., Price, Utah 84501
Office (435) 637-8876
Mobile (435) 636-5671

Mail Approved A.P.D. To: Company Representative

14. Certification

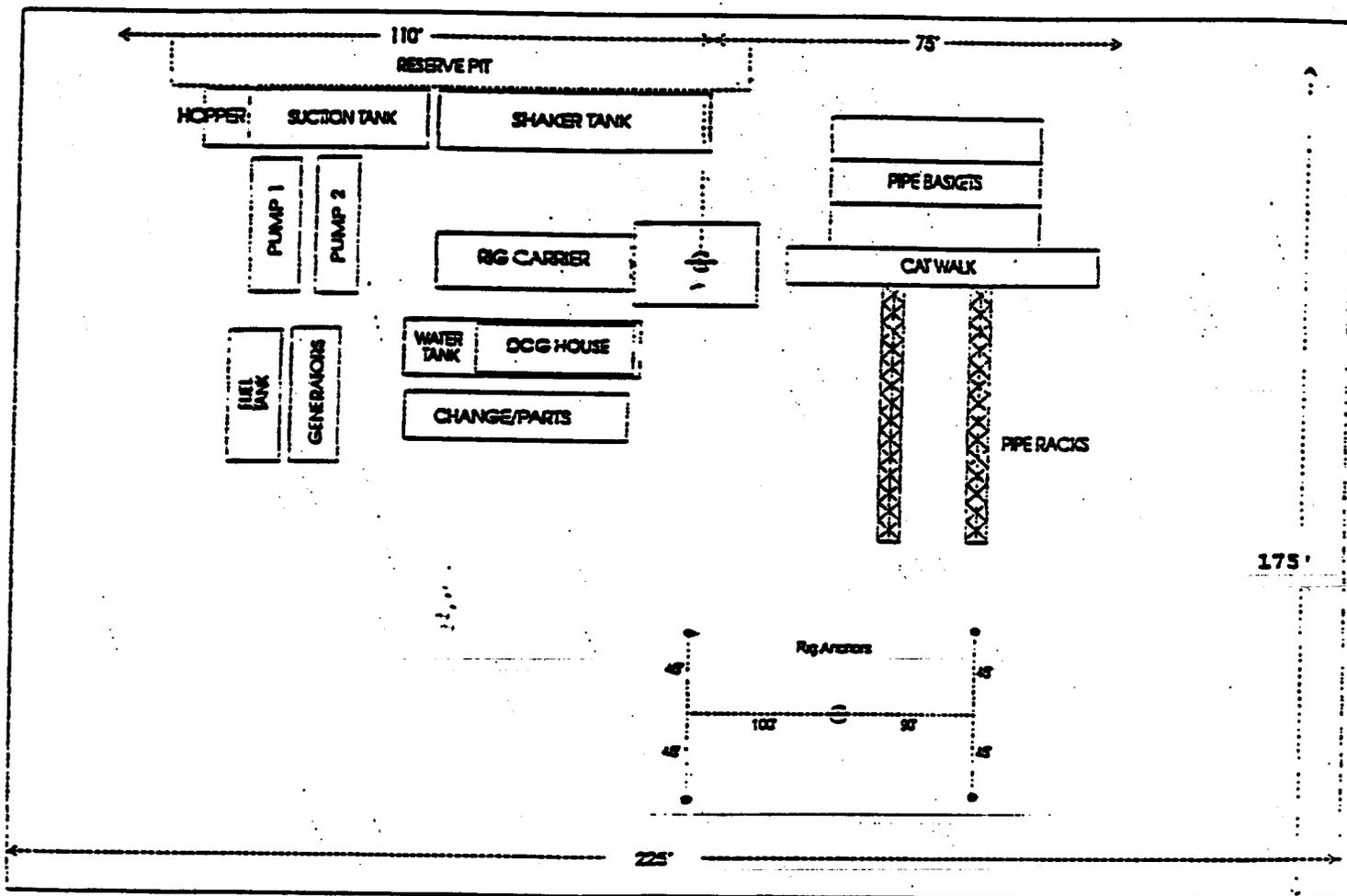
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated 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.

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

3-25-98
Date

Proposed Drilling Equipment Location Layout

River Gas Corp.
 Disposal Well D-7
 SW/SE, Sec. 2, T16S, R09E, SLB&M
 1371' FSL, 1530' FEL
 Emery County, Utah



note: Road access is on the East side of the location in the center

State of Utah
On-Site Evaluation
Division of Oil, Gas and Mining

OPERATOR: River Gas Corporation

WELL NAME & NUMBER: D 7

API NUMBER: 4301530338

LEASE: State FIELD/UNIT: none

LOCATION: 1/4, 1/4 SWSE Sec: 2 TWP: 16S RNG: 9E 1371 FSL 1530 FEL

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

GPS COORD (UTM): X=510,594 Y=4,367,773

SURFACE OWNER: State

PARTICIPANTS:

C. Kierst (DOGM), D. Hamilton (RGC), Val Payne (Emery Co.), B. Morris (DWR)

REGIONAL/LOCAL SETTING & TOPOGRAPHY:

Western margin of Colorado Plateau / location is below and about 7 miles east of the Wasatch Plateau (western flank of northern end of the San Rafael Uplift) on a 2 miles-wide flat draining to the southeast between low benches. The flat is paved with slope wash.

SURFACE USE PLAN:

CURRENT SURFACE USE: Grazing, habitat

PROPOSED SURFACE DISTURBANCE: 225' X 175' pad (pit is inboard, on pad), 1400' access road (27' base).

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 2 P&A wells (Washboard Wash USA 1 & 1A). No wells within 1/2 mile radius.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Powerline and gathering system follow approach road. Gas pipeline ~1000' east.

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

ANCILLARY FACILITIES: None

WASTE MANAGEMENT PLAN:

Portable toilets and garbage cans will be emptied into centralized dumpsters which will be emptied into an approved landfill.

ENVIRONMENTAL PARAMETERS:

AFFECTED FLOOD PLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Shadscale, bunch grass, broom snakweed, cactus / birds, lizards, coyotes, rodents, raptors, reptiles, badgers, prairie dog town, limited deer, priority elk.

SOIL TYPE AND CHARACTERISTICS: Clayey, silty, poorly permeable soil on Quaternary Slope Wash

SURFACE FORMATION & CHARACTERISTICS: Quaternary Slope Wash over Blue Gate Shale Member of the Mancos Shale; light gray, bentonitic shale with occasional thin fine sandstone ledges.

EROSION/SEDIMENTATION/STABILITY: Stable ground away from wash.

PALEONTOLOGICAL POTENTIAL: poor

RESERVE PIT:

CHARACTERISTICS: bermed 75' X 75' X 12' dug out

LINER REQUIREMENTS (Site Ranking Form attached): Native clay liner

SURFACE RESTORATION/RECLAMATION PLAN:

As per State lease surface reclamation terms.

SURFACE AGREEMENT: State lease on file with SITLA

CULTURAL RESOURCES/ARCHAEOLOGY: Cleared and on file with State History.

OTHER OBSERVATIONS/COMMENTS:

ATTACHMENTS:

4 Photos

Chris Kierst
DOGM REPRESENTATIVE

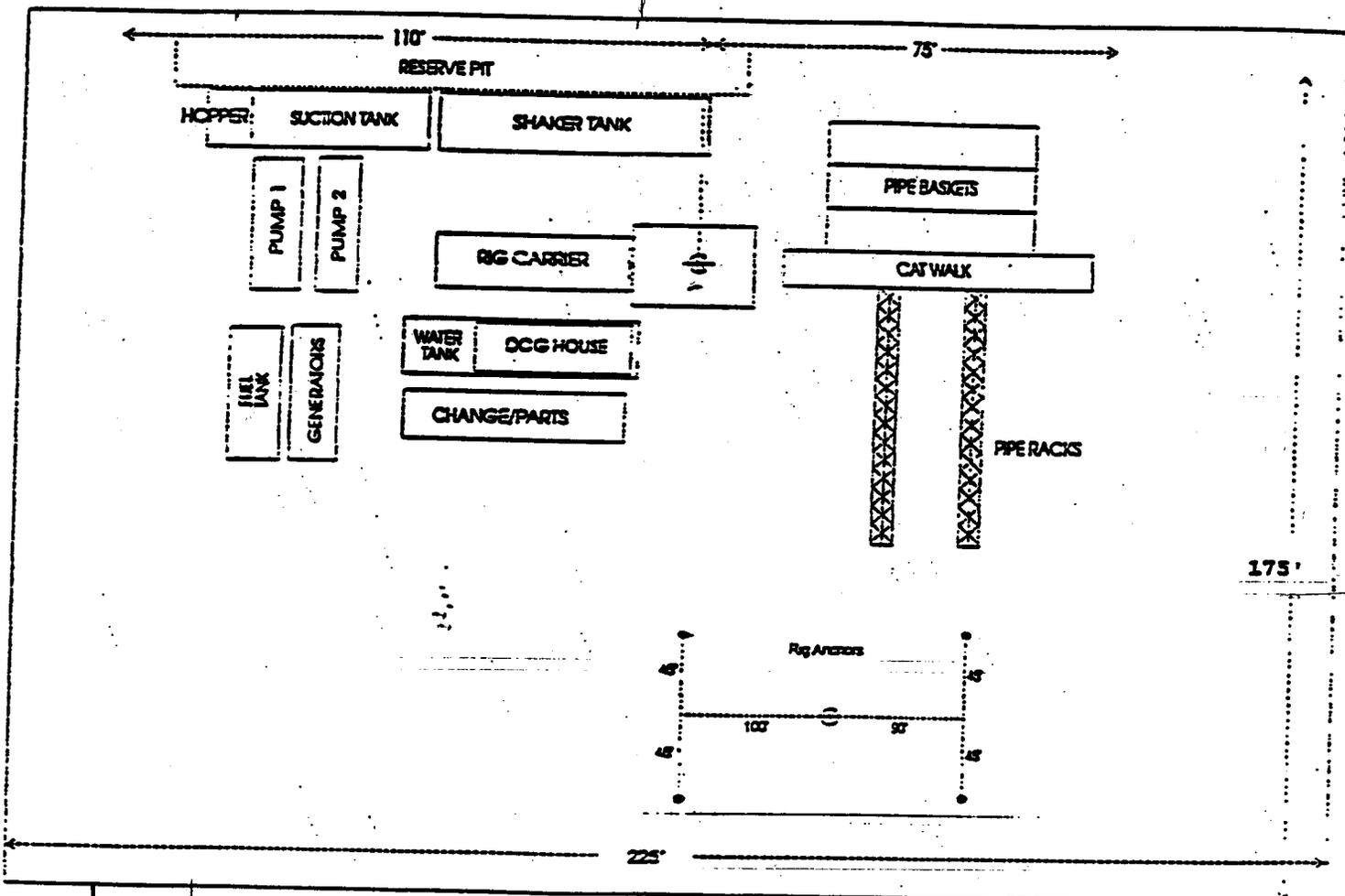
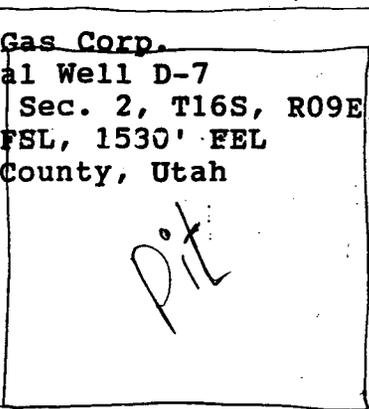
4/7/98 /1:40 AM
DATE/TIME

**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	0 _____
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	0 _____
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	15	0 _____
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	0 _____
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	0 _____
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	15	
TDS >10000 or Oil Base	20	
Mud Fluid containing high levels of hazardous constituents		0 _____
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	0 _____
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	5 _____
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	0 _____
Presence of Nearby Utility		
Conduits		
Not Present	0	
Unknown	10	
Present	15	0 _____
Final Score (Level III Sensitivity)		5 _____

Proposed Drilling Equipment Location Layout

River Gas Corp.
Disposal Well D-7
SW/SE, Sec. 2, T16S, R09E, SLB&M
1371' FSL, 1530' FEL
Emery County, Utah



Road

note: Road access is on the East side of the location in the center



River Gas Corp. Utah D7, 4301530338, 1371 FSL, 1530 FEL, S. 2, T16S, R9E, Emery Co., Utah, 4/7/98, 1:40 PM, C. Kiers



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

Operator Name: River Gas Corporation

Name & Number: D 7

API Number: 4301530338

Location: 1/4,1/4 SWSE Sec. 2 T. 16S R. 9E

Geology/Ground Water:

There are no aquifers with high quality ground water expected to be encountered. The proposed casing and cement program will adequately isolate any zones of water penetrated.

Reviewer: Chris Kierst **Date:** 4/9/98

Surface:

Thin, clayey slope wash over Blue Gate Shale Member of the Mancos Shale is starved for coarse alluvial constituents. Cleveland Canal passes over Washboard Wash ~2 miles down stream. Washboard Wash joins the Price River about 12 miles east. The lack of nearby surface water or utility conduits and fineness of the sediments suggests that a native clay pit liner will suffice. 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 4/7/98. 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 road.

Reviewer: Chris Kierst **Date:** 4/9/98

Engineering:

BOP, Mud, Casing and Cement programs adequate.

Reviewer: Robert J. Krueger **Date:** 5/5/98

Conditions of Approval/Application for Permit to Drill:

- 1) Culverts sufficient to manage expected runoff, standing and surface water in crossed drainages.
- 2) Berm location and pit.
- 3) Site infrastructure as per amended drilling location plat.
- 4) Native clay liner is sufficient.
- 5) Sundry Notices and /or Well Completion Reports shall include but are not limited to: BOP Pressure Test Results; API casing grade and other final casing specifications; liner or tubing specifications; well drilling and completion details; final cement locations and volumes; injectivity/well test results, and a final well "as-built" diagram.



RIVER GAS CORPORATION

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

April 13, 1998

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

RE: Supplemental Information for the previously submitted D-7 and D-8 Disposal Wells

Dear Mr. Kierst:

Following our conversation on Friday, April 17, 1998 the following information is being provided to supplement the APD previously submitted. This information will become a part of our APD packages for future disposal wells and will assist you in the approval process. Please include the following information with your review of the APD:

Thank you for accepting this supplemental information in this manner. Please feel free to contact me if you have any questions.

Sincerely,

Don S. Hamilton

Don S. Hamilton
Permit Specialist

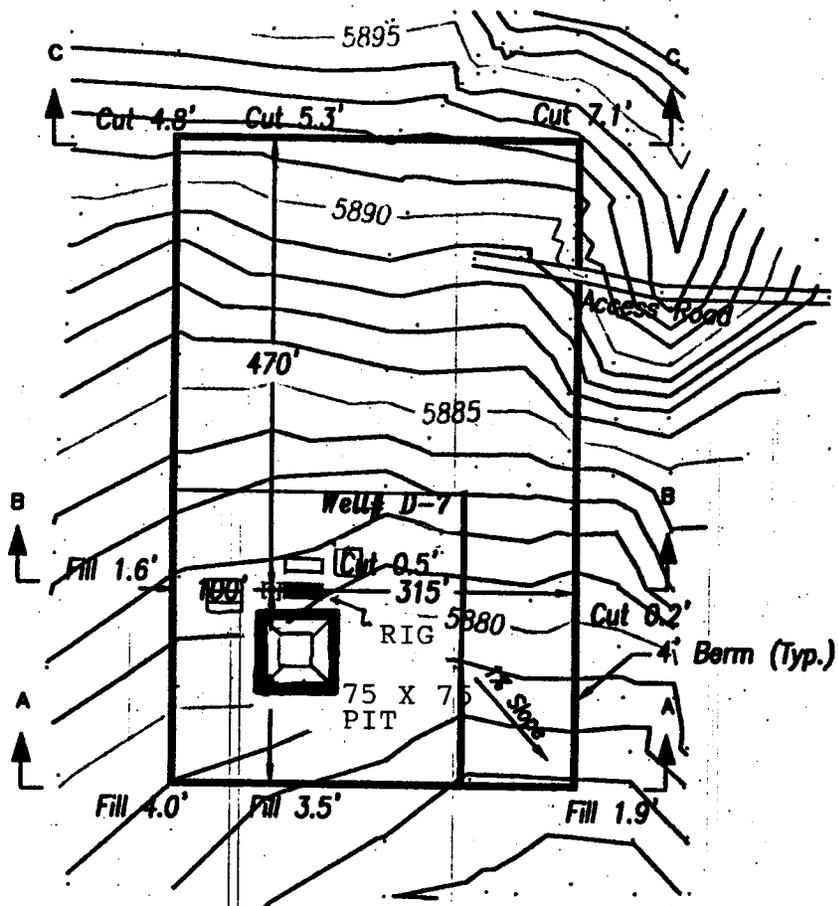
Enc. Proposed Drilling Equipment Location Layout

cc: Mrs. Tammie Butts, RGC
RGC Well File

PROPOSED DRILLING EQUIPMENT LOCATION LAYOUT

D-7

20 1033



Elevation Ungraded Ground at Location Stake = 5881.6'
 Elevation Graded Ground at Location Stake = 5881.1'



DRAWN BY: P. BOYLEN	
CHECKED BY: L.V.J.	
DATE: 2/9/98	3200 South 125 West P.O. Box 61501 (801) 637-6300 FAX (801) 637-2823
SCALE: 1"=200'	River Gas Corporation Location Layout Section 2, T16S, R9E, S.L.B.&M. Well # D-7
SHEET NO. 244	
PROJECT NO. A-2	
SHEET 2 of 4	

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING INSPECTION FORM

Operator: River Gas Corporation Company Rep: John Hollingshead

Well Name: D-7 water disposal well API Number: 4301530338

Qtr/Qtr: SWSE Section: 2 Township: 16S Range: 9E

Contractor: ? Rig Number: ?

Inspector: Chris Kierst Time: 4:00 PM Date: 4/27/98

Spud Date: Dry: ? Rotary: ? Projected T.D.: N.A.

Operations At Time Of Visit: Completion rig washing and reaming to bottom.

Depth at time of visit: TD Survey:

Well Sign: Yes Circulating Method: ? Lbs/Gal BOPE: ?

Blooiie Line: ? Flare Pit: ? H2S Potential: low

ENVIRONMENTAL:

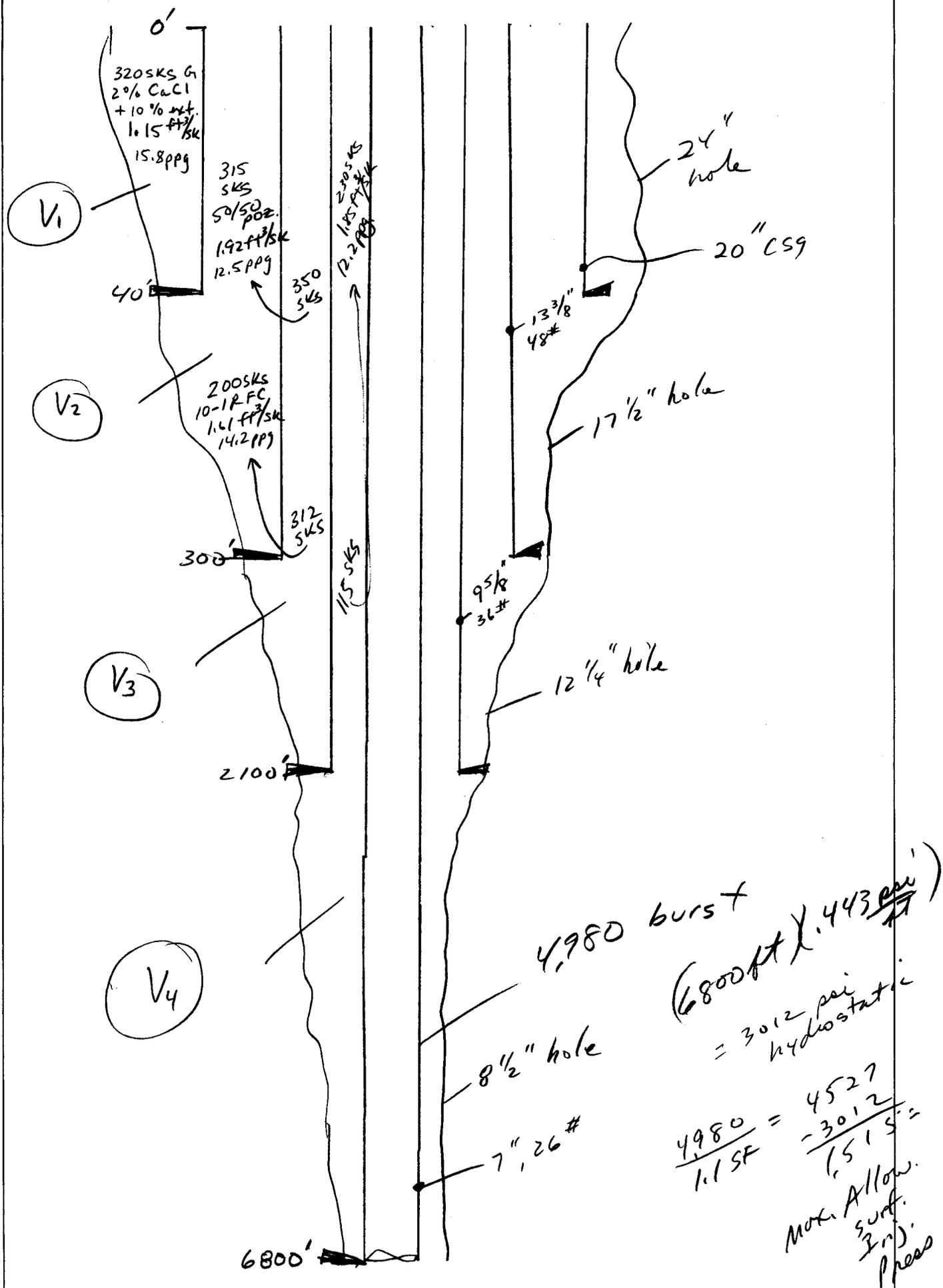
Reserve Pit: ? Fenced: ? Lined: ?

BOPE Test recorded in the Rig Daily Tour Book: Not Examined

REMARKS:

Two sample bottles left w/ Mr. Hollingshead for swabbed Navajo Ss. and Wingate Ss. water samples.

No. 5505
Engineer's Computation Pad



4,980 burst
 $(6800 \text{ ft}) \times (.443 \frac{\text{psi}}{\text{ft}})$
 $= 3012 \text{ psi hydrostatic}$
 $\frac{4980}{1.1 \text{ SF}} = \frac{4527}{1.515} =$
 Max. Allow. surf. Press.

$$V_1 = (.9599 \frac{ft^3}{ft}) (40 ft) = 38.4 ft^3$$

$$Cmt Given = (320 sks) (1.15 \frac{ft^3}{sk}) = 368 ft^3$$

WAY TOO MUCH

$$V_2 = (.6946 \frac{ft^3}{ft}) (300 - 40 ft) + (1.0190 \frac{ft^3}{ft}) (40 ft) = 221.4 ft^3$$

$$Cmt. Given = (315 sks) (1.92 \frac{ft^3}{sk}) + (200 sks) (1.61 \frac{ft^3}{sk}) = 927 ft^3$$

$$V_3 = (0.1668 \frac{ft^3}{ft}) (300) + (1.3132 \frac{ft^3}{ft}) (2100 - 300) = 613.8 ft^3$$

$$Cmt Given = (350 sks) (1.92) + (312 sks) (1.61) = 1174 ft^3$$

$$V_4 = (1.1268 \frac{ft^3}{ft}) (6800 - 2100) + (.1668 \frac{ft^3}{ft}) (2100 ft) = 946.2 ft^3$$

$$Cmt Given = (230 sks) (1.85) + (115 sks) (1.85) = 678 ft^3$$

TOO LITTLE

Called 3' left message w/ Don H. 5-1-98 845 AM on volumes. (435) 637-8876

Call from Don. H. 5/5/98.

1174
+ 397 for Prod.
1,571 ft³ cmt.

Stage Summary

V₁ on conductor to be cemented w/ construction spec cmt. Volume of needed cement not given or needed.

$$V_2 = 221.4 ft^3 \Rightarrow Vol Cmt = 368 ft^3 / 221.4 = 1.66 \checkmark$$

$$V_3 = 613.8 ft^3 \Rightarrow " " = 927 ft^3 / 613.8 = 1.51 \checkmark$$

$$V_4 = 946.2 ft^3 \Rightarrow " " = 1571 / 946.2 = 1.66 \checkmark$$



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

Michael O. Leavitt
Governor
Ted Stewart
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)

May 7, 1998

River Gas Corporation
1305 South 100 East
Price, Utah 84501

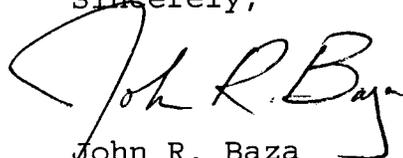
Re: Utah D7 Well, 1371' FSL, 1530' FEL, SW SE, Sec. 2, T. 16 S.,
R. 9 E., Emery County, Utah

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.

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 43-015-30338.

Sincerely,


John R. Baza
Associate Director

lwp

Enclosures

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

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: RIVER GAS CORP.

Well Name: UTAH D-7

Api No. 43-015-30338

Section 2 Township 16S Range 9E County EMERY

Drilling Contractor BEEMAN

Rig # 30

SPUDDED:

Date 6/23/98

Time _____

How ROTARY

Drilling will commence _____

Reported by TAMI

Telephone # 1-435-637-8876

Date: 6/29/98 Signed: JLT

✓

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: RIVER GAS CORP

Well Name: UTAH D-7

Api No. 43-015-30338

Section 2 Township 16S Range 9E County EMERY

Drilling Contractor CYCLONE

Rig # 12

SPUDDED:

Date 6/23/98

Time _____

How ROTARY

Drilling will commence _____

Reported by GREG MUELLER

Telephone # 1-435-636-5561

Date: 7/20/98 Signed: JLT

↓

ORIGINAL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
ML-46094

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

7. Unit Agreement Name:
Drunkards Wash UTU-67921X

8. Well Name and Number:
Utah D-7

9. API Well Number:
43-015-30338

10. Field or Pool, or Wildcat:
Drunkards Wash

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 GAS OTHER:

2. Name of Operator:

River Gas Corporation

3. Address and Telephone Number:

1305 South 100 East, Price, UT 84501 (801)637-8876

4. Location of Well

Footages:

1371' FSL, 1530' FEL

County: Emery

QQ, Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M

State: UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

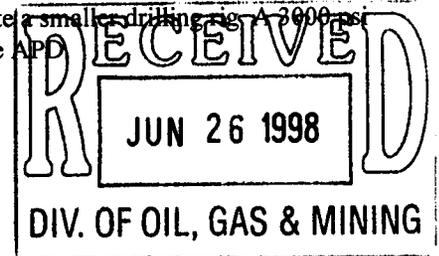
- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other _____
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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 BOP diagram and written description of the BOP has been modified to accomodate a smaller drilling rig. A 3000 psi annular (hydril) BOP will be utilized to drill this well rather than the BOP designated within the APP



Approved by the
Utah Division of
Oil, Gas and Mining

Date: 6-30-98

By: [Signature]

CONFIDENTIAL

COPY SENT TO OPERATOR
Date: 6-30-98
Initials: KDR

13.

Name & Signature: Don S. Hamilton

[Signature: Don S. Hamilton]

Title: Permit Specialist

Date: 6/23/98

(This space for state use only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ORIGINAL

5. Lease Designation and Serial Number:
ML-46094

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

7. Unit Agreement Name:
Drunkards Wash UTU-67921X

8. Well Name and Number:
D-7

9. API Well Number:
43-015-30338

10. Field or Pool, or Wildcat:
Drunkards Wash

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 GAS OTHER:

2. Name of Operator:
River Gas Corporation

3. Address and Telephone Number:
1305 South 100 East, Price, UT 84501 (801)637-8876

4. Location of Well
Footages: 1371' FSL, 1530' FEL
County: Emery
QQ, Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M
State: UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

Abandon New Construction
 Repair Casing Pull or Alter Casing
 Change of Plans Recomplete
 Convert to Injection Reperforate
 Fracture Treat or Acidize Vent or Flare
 Multiple Completion Water Shut-Off
 Other _____

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

Abandon * New Construction
 Repair Casing Pull or Alter Casing
 Change of Plans Reperforate
 Convert to Injection Vent or Flare
 Fracture Treat or Acidize Water Shut-Off
 Other Weekly Report

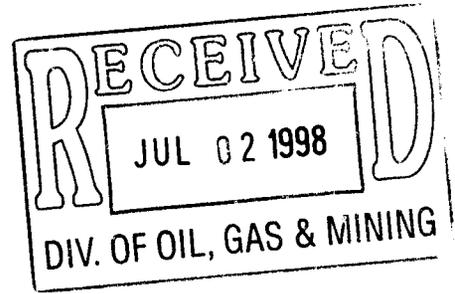
Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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.)

SEE ATTACHED

CONFIDENTIAL



13. Name & Signature: Laurie A. Tryon *Laurie Tryon* Title: Administrative Asst. Date: 6/29/98

(This space for state use only)

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 1

DRILLING

Day 1. 6/24/98. Current Depth:21'. Present Operations: Preparing to TIH. Drilled in 24 hrs: 21'. SPUD Time & Date: 6/23/98 @4:15p.m. Total rotating hrs: 3 hr. 10 min. 7a.m to 7a.m. RU. TIH w/ Bit 1 17 1/2" tri-cone. Drill 0 - 21'. TOO. PU Stabilizer. TIH. SDFN. [REDACTED]

Day 2. 6/25/98. Current Depth: 110.' Present Operations: Maintenance on equipment. Drilled in 24 hrs: 79.' Total Rotating Hours: 11 hrs 48 min. Drilled pilot hole from 21- 82' with 17 1/2" tri-cone. TOO. PU Bit 2 24" tri-cone. TIH. Reamed 0 - 45.' Set 1 joint 20" conductor @ 45' w/ 15 sacks cement. Changed out swivel. TIH with Bit 1. Drill to 110.' [REDACTED]

Day 3. 6/26/98. Current Depth: 325.' Present Operations: Running 13 3/8" surface casing. Drilled in 24 hrs: 215.' Total Rotating Hours: 19 hrs 40 min. Drilled 110 - 294.' Worked on booster. Drilled 294 - 325.' TOO. Lay down Bit 1. Cleaned-out and deepened cellar. Cut conductor pipe level to ground. Began running 13 3/8" 48# H-40 ST&C ERW surface casing. Dowell on location. [REDACTED]

Day 4. 6/27/98. Current Depth: 325'. Present Operations: Assembling surface equipment. Drilled in 24 hrs :0'. Total rotating hrs: 34 hrs. 38 min. 7a.m. to 7a.m. Run 13 3/8" 48#/ft H-40 ST&C ERW. Set 7 jts @303.7'. RU Dowell. Pump 87 Bbbs. Water. Cement 13 3/8" w/300 sks Class "G", 2% CaCl, 0.25 #/sk flo-seal. Displace w/38 Bbbs of water. Plug did not bump, 3 Bbbs of cement left in pipe. Casing floated 1' out of hole. No problems circulating. Good returns. Job shut down @10:10 a.m. Casing settled back. WOC. Rig down Dowell. Assemble BOP, manifold, blowie line & rotating head under space confined substructure. [REDACTED]

Day 5. 6/28/98. Current Depth: 1300'. Present Operations: Rig maintenance. Drilled in 24 hrs: 975'. Total rotating hrs: 53 hrs. 8 min. 7a.m. to 7a.m. Assembled BOP, manifold, blowie line & rotating head under space confined substructure. TIH w/12 1/4" hammer. Tagged cement @240'. TOO to fix hammer (SN 100695). Drilled out 85' of cement. Drilled 325'-606'. Drilled 606'-1300'. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 2

DRILLING

Day 6. 6/29/98. Current Depth:1890'. Present Operations: Drilling. Drilled in 24 hrs: 590'. Drilled from 325' to 1820' with 12 1/4" hammer bit#3. Total rotating hrs:68 hrs 43 min. 7a.m. to 7a.m Service rig. Drilled 1300'-1806'.Drilled 1806'-1820'. No returns. Cleaned hole. TOOH. Change out bit to bit#4 12 1/4" tri-cone. TIH. Cleaned hole. Drilled 1820'-1890', problems getting to bottom-bit is a little out of gauge. Cut a coal @ ~1885'. [REDACTED]

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

ORIGINAL

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

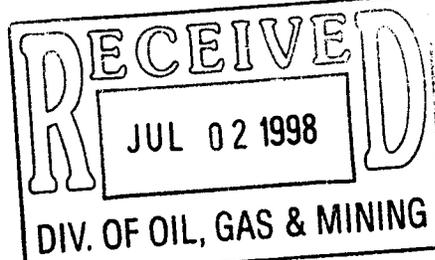
OPERATOR ACCT. NO. N1605

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	12401	43-007-30420	Kakatsides 31-197	NW/NE	31	14S	9E	Carbon	6/12/98	
WELL 1 COMMENTS: <i>Drunkards Wash Unit / Non P.A. Entities added 7-8-98.</i> CONFIDENTIAL											
A	99999	12402	43-007-30387	USA 33-202	SE/NW	33	14S	9E	Carbon	6/16/98	
WELL 2 COMMENTS: CONFIDENTIAL											
A	99999	12403	43-007-30263	USA 14-75	SE/SW	14	14S	9E	Carbon	6/20/98	
WELL 3 COMMENTS: CONFIDENTIAL											
A	99999	12015	43-007-30318	Utah 36-165	SW/SE	36	14S	8E	Carbon	10/6/96	
WELL 4 COMMENTS: <i>Entity previously added 10-22-96. See</i> CONFIDENTIAL											
A	99999	12404	43-015-30338	D7 (Utah D7)	SW/SE	2	16S	9E	Emery	6/23/98	
WELL 5 COMMENTS: CONFIDENTIAL											

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.



Laurie A. Tryon *Laurie A. Tryon*
Signature
Administrative Asst. 6/29/98
Title Date
Phone No. (435)637-8876

ORIGINAL

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

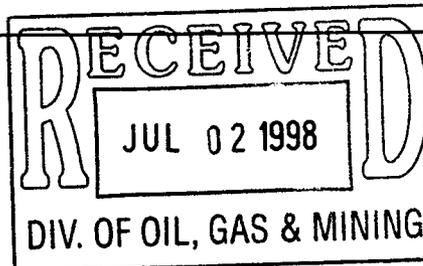
OPERATOR ACCT. NO. N1605

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	12405	43-007-30415	Fausett 9-112 Fausett 10-112	NE/SW	9	14S	9E	CARBON	6/28/98	
WELL 1 COMMENTS: Entities added 7-8-98. CONFIDENTIAL Drunkards Wash U / Non P.A.											
A	99999	12406	43-007-30428	Fausett 9-111	NE/SE	9	14S	9E	CARBON	6/23/98	
WELL 2 COMMENTS: CONFIDENTIAL											
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)
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Laurie A. Tryon *Laurie A. Tryon*
 Signature
 Administrative Asst. 6/29/98
 Title Date
 Phone No. (435)637-8876

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
ML-46094

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

7. Unit Agreement Name:
Drunkards Wash UTU-67921X

8. Well Name and Number:
D-7

9. API Well Number:
43-015-30338

10. Field or Pool, or Wildcat:
Drunkards Wash

SUNDRY NOTICES AND REPORTS ON WELLS

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2. Name of Operator:

River Gas Corporation

CONFIDENTIAL

3. Address and Telephone Number:

1305 South 100 East, Price, UT 84501 (801)637-8876

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1371' FSL, 1530' FEL

County: **Emery**

QQ, Sec., T., R., M.: **SW/4, SE/4, SEC.2, T16S, R9E, SLB&M**

State: **UTAH**

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

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <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 type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <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 checked="" type="checkbox"/> Other <u>Weekly Report</u> | |

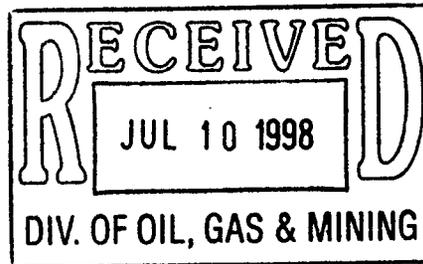
Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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SEE ATTACHED

CONFIDENTIAL



13.

Name & Signature: **Laurie A. Tryon**

Laurie A. Tryon

Title: **Administrative Asst.**

Date: **7/9/98**

(This space for state use only)

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

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Day 3. 6/26/98. Current Depth: 325.' Present Operations: Running 13 3/8" surface casing. Drilled in 24 hrs: 215.' Total Rotating Hours: 19 hrs 40 min. Drilled 110 - 294.' Worked on booster. Drilled 294 - 325.' TOO. Lay down Bit 1. Cleaned-out and deepened cellar. Cut conductor pipe level to ground. Began running 13 3/8" 48# H-40 ST&C ERW surface casing. Dowell on location. [REDACTED]

Day 4. 6/27/98. Current Depth: 325'. Present Operations: Assembling surface equipment. Drilled in 24 hrs :0'. Total rotating hrs: 34 hrs. 38 min. 7a.m. to 7a.m. Run 13 3/8" 48#/ft H-40 ST&C ERW. Set 7 jts @303.7'. RU Dowell. Pump 87 Bbls. Water. Cement 13 3/8" w/300 sks Class "G", 2% CaCl, 0.25 #/sk flo-seal. Displace w/38 Bbls of water. Plug did not bump, 3 Bbls of cement left in pipe. Casing floated 1' out of hole. No problems circulating. Good returns. Job shut down @10:10 a.m. Casing settled back. WOC. Rig down Dowell. Assemble BOP, manifold, blowie line & rotating head under space confined substructure. [REDACTED]

Day 5. 6/28/98. Current Depth: 1300'. Present Operations: Rig maintenance. Drilled in 24 hrs: 975'. Total rotating hrs: 53 hrs. 8 min. 7a.m. to 7a.m. Assembled BOP, manifold, blowie line & rotating head under space confined substructure. TIH w/12 1/4" hammer. Tagged cement @240'. TOO. Hammer to fix hammer (SN 100695). Drilled out 85' of cement. Drilled 325'-606'. Drilled 606'-1300'. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2, T16S, R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 2

DRILLING

Day 6. 6/29/98. Current Depth: 1890'. Present Operations: Drilling. Drilled in 24 hrs: 590'. Drilled from 325' to 1820' with 12 1/4" hammer bit#3. Total rotating hrs: 68 hrs 43 min. 7a.m. to 7a.m. Service rig. Drilled 1300'-1806'. Drilled 1806'-1820'. No returns. Cleaned hole. TOOH. Change out bit to bit#4 12 1/4" tri-cone. TIH. Cleaned hole. Drilled 1820'-1890', problems getting to bottom-bit is a little out of gauge. Cut a coal @ ~1885'. [REDACTED]

Day 7. 6/30/98. Current Depth: 2020'. Present Operations: Drilling. Drilled in 24 hrs: 130. Drilled from 1820 to 1940 with 12 1/4" tri-cone bit#4. Total rotating hrs: 79hrs. 13 min. 7a.m. to 7a.m. Drilled 1885'-1940'. TOOH. Check bit. Bearings were loose, teeth missing & cracked. Wait on new bit. Laid down bit#4. PU bit#5 12 1/4" tri-cone. TIH. Cleaned hole. Drilled 1940'-2020'. [REDACTED]

Day 8. 7/1/98. Current Depth: 2350'. Present Operations: Logging. Drilled in 24 hrs: 330. Total rotating hrs: 93 hrs. 43 min. 7a.m. to 7a.m. Drilled 2020'-2350'. Cleaned hole. Pull up to 1350'. Add 120 Bbls water/ KCL. Rig up Computalog. TIH w/tool to log. Tag fill@2260'. [REDACTED]

Day 9. 7/2/98. Current Depth: 2350'. Present Operations: Reaming @2170'. Drilling Fluid: mud. 7a.m. to 7a.m. Logged hole. Tagged fill@2170'. Mixed mud. Sent. 360 Bbls down hole. TIH. Reamed hole beginning @1780'. 2nd bridge@2100'. Reamed hole to 2170'. [REDACTED]

Day 10. 7/3/98. Current Depth: 2350'. Present Operations: Reaming @2310'. Drilled in 24 hrs: 0'. 7a.m. to 7a.m. Reamed hole to 2310'. Mud viscosity 100 cp. [REDACTED]

Day 11. 7/4/98. Current Depth: 2350'. Present Operations: Cementing 9 5/8". 7a.m. to 7a.m. Washed down to bottom. Pull up to 1350'. Trip back to bottom. Circulate & condition. TOOH. Lay down dc & bit. Set 57 jts of 9 5/8" 36 #/ft K-55 LT&C SMLS & 1 jt cement shoe @2348'. Cementing. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 3

DRILLING

Day 12. 7/5/98. Current Depth:2350'. Present Operations: Shut down until 7/7/98. Drilled in 24 hrs: 0'. 7a.m to 7a.m. Cemented 9 5/8" intermediate. Circulated 61 Bbls. Of water. Cemented w/500 sks 50/50 poz lead & 100 sks Class G w/2% CaCl& ¼ #/sk flocel. Displaced w/190 Bbls water. Circulated cement. Plug did not bump. RIG RELEASED. WOC. Beeman on days off until 7/7/98. [REDACTED]

Day 13. 7/8/98. Current Depth:2350'. Present Operations: Drilling rat hole. Drilled in 24 hrs: 0'. 7a.m. to 7a.m. RU for rat & mouse hole. SDFN. Set 7 jnts of 13 3/8" 48#/ft H-40 ST&C ERW @ 303.7'. [REDACTED]

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
ML-46094

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

7. Unit Agreement Name:
Drunkards Wash UTU-67921X

8. Well Name and Number:
D-7

9. API Well Number:
43-015-30338

10. Field or Pool, or Wildcat:
Drunkards Wash

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** **GAS** **OTHER:**

2. Name of Operator:
River Gas Corporation

3. Address and Telephone Number:
1305 South 100 East, Price, UT 84501 (801)637-8876

4. Location of Well
Footages: **1371' FSL, 1530' FEL**
County: **Emery**
QQ, Sec., T., R., M.: **SW/4, SE/4, SEC.2, T16S, R9E, SLB&M**
State: **UTAH**

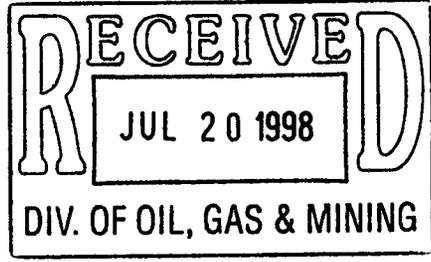
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<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>Weekly Report</u> Date of work completion _____ <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.</small>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <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 Casing <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off

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.)

SEE ATTACHED

CONFIDENTIAL



13. Name & Signature: Laurie A. Tryon *Laurie Tryon* Title: Administrative Asst. Date: 7/17/98

(This space for state use only)

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 1

DRILLING

Day 1. 6/24/98. Current Depth:21'. Present Operations: Preparing to TIH. Drilled in 24 hrs: 21'. SPUD Time & Date: 6/23/98 @4:15p.m. Total rotating hrs: 3 hr. 10 min. 7a.m to 7a.m. RU. TIH w/ Bit 1 17 1/2" tri-cone. Drill 0 - 21'. TOO. PU Stabilizer. TIH. SDFN. [REDACTED]

Day 2. 6/25/98. Current Depth: 110.' Present Operations: Maintenance on equipment. Drilled in 24 hrs: 79.' Total Rotating Hours: 11 hrs 48 min. Drilled pilot hole from 21- 82' with 17 1/2" tri-cone. TOO. PU Bit 2 24" tri-cone. TIH. Reamed 0 - 45.' Set 1 joint 20" conductor @ 45' w/ 15 sacks cement. Changed out swivel. TIH with Bit 1. Drill to 110.' [REDACTED]

Day 3. 6/26/98. Current Depth: 325.' Present Operations: Running 13 3/8" surface casing. Drilled in 24 hrs: 215.' Total Rotating Hours: 19 hrs 40 min. Drilled 110 - 294.' Worked on booster. Drilled 294 - 325.' TOO. Lay down Bit 1. Cleaned-out and deepened cellar. Cut conductor pipe level to ground. Began running 13 3/8" 48# H-40 ST&C ERW surface casing. Dowell on location. [REDACTED]

Day 4. 6/27/98. Current Depth: 325'. Present Operations: Assembling surface equipment. Drilled in 24 hrs :0'. Total rotating hrs: 34 hrs. 38 min. 7a.m. to 7a.m. Run 13 3/8" 48#/ft H-40 ST&C ERW. Set 7 jts @303.7'. RU Dowell. Pump 87 Bbls. Water. Cement 13 3/8" w/300 sks Class "G", 2% CaCl, 0.25 #/sk flo-seal. Displace w/38 Bbls of water. Plug did not bump, 3 Bbls of cement left in pipe. Casing floated 1' out of hole. No problems circulating. Good returns. Job shut down @10:10 a.m. Casing settled back. WOC. Rig down Dowell. Assemble BOP, manifold, blowie line & rotating head under space confined substructure. [REDACTED]

Day 5. 6/28/98. Current Depth: 1300'. Present Operations: Rig maintenance. Drilled in 24 hrs: 975'. Total rotating hrs: 53 hrs. 8 min. 7a.m. to 7a.m. Assembled BOP, manifold, blowie line & rotating head under space confined substructure. TIH w/12 1/4" hammer. Tagged cement @240'. TOO to fix hammer (SN 100695). Drilled out 85' of cement. Drilled 325'-606'. Drilled 606'-1300'. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 2

DRILLING

Day 6. 6/29/98. Current Depth: 1890'. Present Operations: Drilling. Drilled in 24 hrs: 590'. Drilled from 325' to 1820' with 12 1/4" hammer bit#3. Total rotating hrs: 68 hrs 43 min. 7a.m. to 7a.m. Service rig. Drilled 1300'-1806'. Drilled 1806'-1820'. No returns. Cleaned hole. TOOH. Change out bit to bit#4 12 1/4" tri-cone. TIH. Cleaned hole. Drilled 1820'-1890', problems getting to bottom-bit is a little out of gauge. Cut a coal @ ~1885'. [REDACTED]

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Day 8. 7/1/98. Current Depth: 2350'. Present Operations: Logging. Drilled in 24 hrs: 330. Total rotating hrs: 93 hrs. 43 min. 7a.m. to 7a.m. Drilled 2020'-2350'. Cleaned hole. Pull up to 1350'. Add 120 Bbls water/ KCL. Rig up Computalog. TIH w/tool to log. Tag fill@2260'. [REDACTED]

Day 9. 7/2/98. Current Depth: 2350'. Present Operations: Reaming @2170'. Drilling Fluid: mud. 7a.m. to 7a.m. Logged hole. Tagged fill@2170'. Mixed mud. Sent. 360 Bbls down hole. TIH. Reamed hole beginning @1780'. 2nd bridge@2100'. Reamed hole to 2170'. [REDACTED]

Day 10. 7/3/98. Current Depth: 2350'. Present Operations: Reaming @2310'. Drilled in 24 hrs: 0'. 7a.m. to 7a.m. Reamed hole to 2310'. Mud viscosity 100 cp. [REDACTED]

Day 11. 7/4/98. Current Depth: 2350'. Present Operations: Cementing 9 5/8". 7a.m. to 7a.m. Washed down to bottom. Pull up to 1350'. Trip back to bottom. Circulate & condition. TOOH. Lay down dc & bit. Set 57 jts of 9 5/8" 36 #/ft K-55 LT&C SMLS & 1 jt cement shoe @2348'. Cementing. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 3

DRILLING

Day 12. 7/5/98. Current Depth:2350'. Present Operations: Shut down until 7/7/98. Drilled in 24 hrs: 0'. 7a.m. to 7a.m. Cemented 9 5/8" intermediate. Circulated 61 Bbls. Of water. Cemented w/500 sks 50/50 poz lead & 100 sks Class G w/2% CaCl₂ & 1/4 #/sk floccel. Displaced w/190 Bbls water. Circulated cement. Plug did not bump. RIG RELEASED. WOC. Beeman on days off until 7/7/98. [REDACTED]

Day 13. 7/8/98. Current Depth:2350'. Present Operations: Drilling rat hole. Drilled in 24 hrs: 0'. 7a.m. to 7a.m. RU for rat & mouse hole. SDFN. Set 7 jnts of 13 3/8" 48#/ft H-40 ST&C ERW @ 303.7'. [REDACTED]

Day 14. 7/9/98. Current Depth: 2350'. Present Operations: Rigging up cyclone. Drilled in 24 hrs:0'. 7a.m. to 7a.m. Drilled rat & mouse hole. Prep location. Set starting head & section B. Wait for Cyclone Drilling Rig#12 to Rig up on 7/10/98. [REDACTED]

Day 15. 7/10/98. Current Depth: 2350'. Present Operations: Rig up Cyclone. 7a.m. to 7a.m. Rig up. Prepare location. SDFN. [REDACTED]

Day 16. 7/11/98. Current Depth: 2350'. Present Operations: Rig up Cyclone. 7a.m. to 7a.m. Rig up. SDFN. [REDACTED]

Day 17. 7/12/98. Current Depth:2350'. Present Operations: TIH w/8 3/4" hammer bit#6. 7a.m. to 7a.m. Rig up Cyclone. Test BOP, choke manifold, & kelly. Delays due to Cyclone: accumulators failed, flowlines not hooked up & RGC given wrong information concerning substructure clearance, hydril dimensions & pressure rating of choke manifold. TIH w/ 8 3/4" hammer. Smith bit type H42R8R3PD, SN KJ8046. Ingersoll DHD-380 series hammer SN 803. *RGC calling NU @ 12a.m. due to delays. [REDACTED]

Day 18. 7/13/98. Current Depth:2834'. Present Operations: Drilling. Drilled in 24 hrs:484'. 7a.m. to 7a.m. TIH w/bit #6, 8 3/4" hammer & 12 dc. Tagged cement @ 2306.5'. Survey @2306.5'. Drilled out cement, plug aluminum insert & cement nose shoe. Drilled 2350'-2399.5'. Blow hole dry. Drilled 2399.5'-2834'. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 4

DRILLING

Day 19. 7/14/98. Current Depth:3859'. Present Operations: Circulating.
Drilled in 24 hrs: 1025'. 7a.m. to 7a.m. Drilled 2896' to 3144'. Serviced rig
Drilled 3144' to 3810'. Bit balling @ 3810'. Worked pipe 40,000 over pull.
Circulated. Drilled 3810' to 3859'. Lost returns. Circulated. Air pressure 600
psi. [REDACTED]

Day 20. 7/15/98. Current Depth: 3859'. Present Operations: Working pipe.
Drilled in 24 hrs:0'. 7a.m. to 7a.m. Tight hole. Worked pipe. Could not
circulate. [REDACTED]

Day 21. 7/16/98. Current Depth: 3859'. Present Operations: Rigging up fishing
tool. Drilled in 24 hrs:0'. 7a.m. to 7a.m. Worked pipe. Rigged up fishing tool.
Knocked out string float. Ran free point. Mechanical back off @2474'. Tripped
out of hole with drill pipe to 2474'. In hole with jars, accelerators and drill
collars with drill pipe. Made connections with fish. Jarred pipe. [REDACTED]
[REDACTED]

ORIGINAL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
ML-46094

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

7. Unit Agreement Name:
Drunkards Wash UTU-67921X

8. Well Name and Number:
Utah D-7

9. API Well Number:
43-015-30338

10. Field or Pool, or Wildcat:
Drunkards Wash

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 DEEPEEN form for such proposals.

1. Type of Well: OIL GAS OTHER: **CONFIDENTIAL**

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: 1371' FSL, 1530' FEL

County: Emery

QQ, Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M

State: UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other _____
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

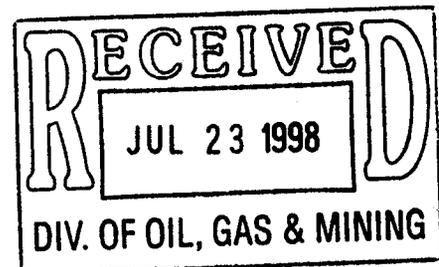
Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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 9-5/8" (5000 psi) starting head was utilized in this well rather than a 13-5/8" (5000 psi) starting head as stated in the APD.

CONFIDENTIAL



13. Name & Signature: Don S. Hamilton *Don S. Hamilton* Title: Permit Specialist Date: 7/21/98

(This space for state use only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
ML-46094

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

7. Unit Agreement Name:
Drunkards Wash UTU-67921X

8. Well Name and Number:
D-7

9. API Well Number:
43-015-30338

10. Field or Pool, or Wildcat:
Drunkards Wash

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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: **1371' FSL, 1530' FEL**
County: **Emery**
QQ, Sec., T., R., M.: **SW/4, SE/4, SEC.2, T16S, R9E, SLB&M**
State: **UTAH**

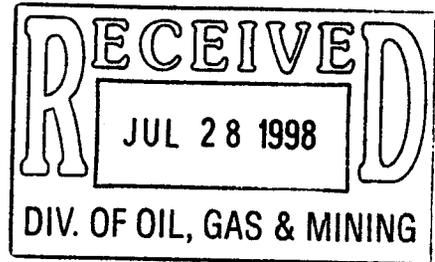
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

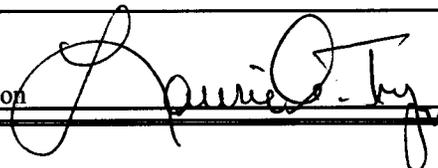
NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandon *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<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"/> Change of Plans	<input type="checkbox"/> Reperforate
<input type="checkbox"/> Convert to Injection	<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"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Weekly Report</u>	
<input type="checkbox"/> Other _____			
Approximate date work will start _____		Date of work completion _____	
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.			

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.)

SEE ATTACHED

CONFIDENTIAL



13. Name & Signature: Laurie A. Tryon  Title: Administrative Asst. Date: 7/24/98

(This space for state use only)

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 6

DRILLING

Day 27. 7/22/98. Current Depth: 3879'. Present Operations: TIH w/screw-in sub. Drilled in 24 hrs:0'. Total rotating hrs:126 hrs. 58 min. 7a.m to 7a.m. Conditioned & circulated to fish (154.9' to wash over). Bridge @3204'. TOOH for bit. TIH w/bit. Conditioned hole to top of fish 3403'. Circulated & conditioned. TOOH w/bit. MU screw-in sub & TIH. *Air pkg. Released@8a.m.
[REDACTED]

Day 28. 7/23/98. Current Depth: 3879'. Total rotating hrs: 126 hrs.58min. 7a.m. to 7a.m. TIH w/screw-in sub. Jarred string. Initially made 40' of travel. Hit a bridge. No other progress. TIH w/jt of dp. RU wedge Dia-log. RIH w/hydraulic clean-out tool. TOOH. RIH w/collar locator. 8 1/2 dc free & clear. TOOH. RIH w/spud bar. No progress. RD Wedge Dia-log. TIHw/dp. Stick pipe. RU Wedge Dia-log. Ran string shot. Mechanical back-off. RD Wedge Dia-log. TOOH. Lay down 8 dc of fish. MU bit. TIH w/bit. Circulate & condition to fish. [REDACTED]
[REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2, T16S, R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 5

DRILLING

Day 23. 7/18/98. Current Depth: 3879'. Present Operations: TOOH with 8 3/4" bit. Drilled in 24 hrs: 0'. Total rotating hrs: 126 hrs. 58 min. 7a.m. to 7a.m. Condition to top of fish @2501'. Circulate & condition mud. TOOH to PU wash pipe. PU 4 jts wash pipe & tools. Finish TIH w/ dp to top of fish. Serviced rig - tightened liner cap OBWS. Wash over fish. Circulate & condition hole @ 2661.' TOOH. Laid down 6 jts dp. MU bit & TIH. Condition & circulate @ top of fish, 2612.' Begin TOOH. [REDACTED]

Day 24. 7/19/98. Current Depth: 3879'. Present Operations: TIH w/wash pipe. 7a.m. to 7a.m. Finish TOOH w/ 8 3/4" tri-cone. MU jars, accelerators, 6 dc & dp to top of fish. MU kelly. Made connection with fish. Jarred pipe. No progress. Break kelly high @15'. RU Wedge Dia-log to free pt. Ran free pt. Pulled 100K-135K: 96 @ 2506'; 98 @ 2630'; 98 @ 2693'; 0 @ 3007'; 98 @ 2854'; 0 @ 2915'; 12 @ 2883'; 74 @ 2874'; 92 @ 2864'; 0 @ 2857.' Torqued twice 100K: 96 @ 2864 & 96 @ 2857.' Mechanical back off @ 2850.' RD Dia-log. Chain-out of hole. Laid down 2 jts of fish. MU bit. TIH to top of fish, 2850'. Circulate & condition. TOOH. Laid down 6 jts of fish. 10 jts free. Plug in top of jt @ 3210.' PU wash pipe & TIH. [REDACTED]

Day 25. 7/20/98. Current Depth: 3879'. Present Operations: TIH w/ wash pipe. Drilled in 24 hrs: 0'. Total rotating hrs: 126 hrs. 58 min. 7a.m. to 7a.m. Finish TIH w/ wash pipe to top of fish, 2850'. Wash over fish w/ 4jts. TOOH w/ wash pipe. TIH w/jars, accelerators & dc. Serviced rig - adjusted drum brakes. Finish TIH w/ dp. Jarred & worked pipe. No progress. TOOH. MU 8 3/4" bit. TIH to top of fish. Circulated & conditioned. TOOH. TIH w/ wash pipe. [REDACTED]

Day 26. 7/21/98. Current Depth: 3879'. Present Operations: Conditioning hole. Drilled in 24 hrs: 0'. Total rotating hrs: 126 hrs. 58 min. 7a.m. to 7a.m. TIH to fish w/ wash pipe. MU connection w/fish. RU Dia-log. Work & wash pipe w/hydraulic clean-out tool to remove plug. RD tool. MU spud bar tool. TIH. Knock plug to 3217'. Ran free pt: 72@2646'; 66@2750'; 41@2772'; 40@2801'. Pulled 100K-155K. Torqued 100K: 27@2801'. Mechanical back-off @2795'. TOOH. Lay down 1 jt dp & 1 dc of fish. Change screw-in sub. PU 6 dc & jars. TIH. Circulate down to fish. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2, T16S, R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 4

DRILLING

Day 19. 7/14/98. Current Depth: 3859'. Present Operations: Circulating.
Drilled in 24 hrs: 1025'. 7a.m. to 7a.m. Drilled 2896' to 3144'. Serviced rig
Drilled 3144' to 3810'. Bit balling @ 3810'. Worked pipe 40K over pull.
Circulated. Drilled 3810' to 3859'. Lost returns. Circulated. Air pressure 600
psi. [REDACTED]

Day 20. 7/15/98. Current Depth: 3879.' Present Operations: Working pipe.
Drilled in 24 hrs: 20.' Total rotating hrs: 126 hrs 58 min. 7a.m. to 7a.m. Began
misting with Drill Foam & Polyplus @ 10 gpm. Gained returns. Cleaned hole.
Cedar Mt clays balling @ bit. Drilled 3859-3879.' Penetration rate decreased w/
mist. TOOH. Crews had problems w/ rotating head for 1 1/2 hrs. Pulled 7 stds.
Hole bridged off. 4" of free travel. Worked pipe. [REDACTED]

Day 21. 07/16/98. Current Depth: 3879'. Present Operations: Rigging up Wedge
Dia-log. Drilled in 24 hrs: 0'. Total rotating hrs: 126 hrs 58 min. 7a.m. to 7a.m.
Worked pipe. Rigged up Wedge Dia-log. Set off charge to remove dart float in
drill string @ 2930.' Knocked down float with fishing tools. Tagged crow's
foot in hammer. Ran free point. Pulled 100K-135K: 98 @ 2321'; 98 @ 2509'; 0
@ 3007'; 0 @ 2822'; 0 @ 2694'; 0 @ 2603'; 0 @ 2572'; 0 @ 2541'; 82 @
2510'; & 98 @ 2478.' Torqued 100K twice: 92 @ 2510 & 90 @ 2478.' Max
charge set off for mechanical back-off @ 2474.' RD Wedge Dia-log. TOOH w/
dp. TIH w/ jars, accelerators, 6 dc & MU with dp to 2474'. Made connection
with fish. Jarred drill string. No progress. RU Wedge Dia-log to perf dc. [REDACTED]

Day 22. 07/17/98. Current Depth: 3879.' Present Operations: Circulating to fish.
Drilled in 24 hrs: 0.' Total rotating hrs: 126 hrs 58 min. 7 a.m. to 7 a.m. RU
Wedge Dia-log. Break kelly up high 20.' Air tigger line, 3 cat lines, & a boom
line broke. Perforated 1st dc @ 3841.4'. Jarred and worked pipe. No progress.
RU Wedge Dia-log. Ran free pt. Pulled 100K-135K: 98 @ 2476'; 98 @ 2506';
0 @ 2600'; 0 @ 2567'; 0 @ 2537'; 98 @ 2522'; 20 @ 2530.' Torqued 100K
twice: 98 @ 2522.' 1 additional jt free. Mechanical back off @ 2503' on 2nd
attempt. TOOH w/ dp, 6 dc, accelerators, & jars. Mix fw mud. RD air manifold.
MU bit #7 Smith 8 3/4" tri-cone. TIH to bottom of 9 5/8" casing. Filled hole.
Circulated. Started conditioning. Working to fish. [REDACTED]

DAILY WELL REPORT

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SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 3

DRILLING

Day 12. 7/5/98. Current Depth:2350'. Present Operations: Shut down until 7/7/98. Drilled in 24 hrs: 0'. 7a.m to 7a.m. Cemented 9 5/8" intermediate. Circulated 61 Bbls. Of water. Cemented w/500 sks 50/50 poz lead & 100 sks Class G w/2% CaCl& ¼ #/sk flocel. Displaced w/190 Bbls water. Circulated cement. Plug did not bump. RIG RELEASED. WOC. Beeman on days off until 7/7/98. [REDACTED]

Day 13. 7/8/98. Current Depth:2350'.Present Operations: Drilling rat hole. Drilled in 24 hrs: 0'. 7a.m. to 7a.m. RU for rat & mouse hole. SDFN. Set 7 jnts of 13 3/8" 48#/ft H-40 ST&C ERW @ 303.7'. [REDACTED]

Day 14. 7/9/98. Current Depth: 2350'. Present Operations: Rigging up cyclone. Drilled in 24 hrs:0'. 7a.m. to 7a.m. Drilled rat & mouse hole. Prep location. Set starting head & section B. Wait for Cyclone Drilling Rig#12 to Rig up on 7/10/98. [REDACTED]

Day 15.7/10/98. Current Depth: 2350'. Present Operations: Rig up Cyclone. 7a.m. to 7a.m Rig up. Prepare location. SDFN. [REDACTED]

Day 16. 7/11/98.Current Depth: 2350'. Present Operations: Rig up Cyclone. 7a.m. to 7a.m. Rig up. SDFN. [REDACTED]

Day 17. 7/12/98. Current Depth:2350'. Present Operations: TIH w/8 ¾" hammer bit#6. 7a.m. to 7a.m. Rig up Cyclone. Test BOP, choke manifold, & kelly. Delays due to Cyclone: accumulators failed, flowlines not hooked up & RGC given wrong information concerning substructure clearance, hydril dimensions & pressure rating of choke manifold. TIH w/ 8 ¾" hammer. Smith bit type H42R8R3PD, SN KJ8046. Ingersoll DHD-380 series hammer SN 803. *RGC calling NU @ 12a.m. due to delays. [REDACTED]

Day 18. 7/13/98. Current Depth:2834'. Present Operations: Drilling. Drilled in 24 hrs:484'. 7a.m. to 7a.m.TIH w/bit #6, 8 ¾" hammer & 12 dc. Tagged cement @ 2306.5'. Survey @2306.5'. Drilled out cement, plug aluminum insert & cement nose shoe. Drilled 2350'-2399.5'. Blow hole dry. Drilled 2399.5'-2834'. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
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PAGE 2

DRILLING

Day 6. 6/29/98. Current Depth:1890'. Present Operations: Drilling. Drilled in 24 hrs: 590'. Drilled from 325' to 1820' with 12 1/4" hammer bit#3. Total rotating hrs:68 hrs 43 min. 7a.m. to 7a.m Service rig. Drilled 1300'-1806'. Drilled 1806'-1820'. No returns. Cleaned hole. TOOH. Change out bit to bit#4 12 1/4" tri-cone. TIH. Cleaned hole. Drilled 1820'-1890', problems getting to bottom-bit is a little out of gauge. Cut a coal @ ~1885'. [REDACTED]

Day 7. 6/30/98. Current Depth: 2020'. Present Operations: Drilling. Drilled in 24 hrs:130. Drilled from 1820 to 1940 with 12 1/4" tri-cone bit#4. Total rotating hrs: 79hrs. 13 min. 7a.m. to 7a.m. Drilled 1885'-1940'. TOOH. Check bit. Bearings were loose, teeth missing & cracked. Wait on new bit. Laid down bit#4. PU bit#5 12 1/4" tri-cone. TIH. Cleaned hole. Drilled 1940'-2020'. [REDACTED]

Day 8. 7/1/98. Current Depth: 2350'. Present Operations: Logging. Drilled in 24 hrs: 330. Total rotating hrs: 93 hrs. 43 min. 7a.m. to 7a.m. Drilled 2020'-2350'. Cleaned hole. Pull up to 1350'. Add 120 Bbls water/ KCL. Rig up Computalog. TIH w/tool to log. Tag fill@2260'. [REDACTED]

Day 9.7/2/98. Current Depth:2350'. Present Operations: Reaming @2170'. Drilling Fluid:mud.7a.m. to 7a.m. Logged hole. Tagged fill@2170'. Mixed mud. Sent. 360 Bbls down hole. TIH. Reamed hole beginning @1780'. 2nd bridge@2100'. Reamed hole to 2170'. [REDACTED]

Day 10. 7/3/98. Current Depth: 2350'. Present Operations: Reaming @2310'. Drilled in 24 hrs:0'. 7a.m. to 7a.m. Reamed hole to 2310'. Mud viscosity 100 cp. [REDACTED]

Day 11. 7/4/98. Current Depth: 2350'. Present Operations: Cementing 9 5/8". 7a.m. to 7a.m. Washed down to bottom. Pull up to 1350'. Trip back to bottom. Circulate & condition. TOOH. Lay down dc & bit. Set 57 jts of 9 5/8" 36 #/ft K-55 LT&C SMLS & 1 jt cement shoe @2348'. Cementing. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 1

DRILLING

Day 1. 6/24/98. Current Depth:21'. Present Operations: Preparing to TIH. Drilled in 24 hrs: 21'. SPUD Time & Date: 6/23/98 @4:15p.m. Total rotating hrs: 3 hr. 10 min. 7a.m to 7a.m. RU. TIH w/ Bit 1 17 1/2" tri-cone. Drill 0 - 21.' TOO. PU Stabilizer. TIH. SDFN. [REDACTED]

Day 2. 6/25/98. Current Depth: 110.' Present Operations: Maintenance on equipment. Drilled in 24 hrs: 79.' Total Rotating Hours: 11 hrs 48 min. Drilled pilot hole from 21- 82' with 17 1/2" tri-cone. TOO. PU Bit 2 24" tri-cone. TIH. Reamed 0 - 45.' Set 1 joint 20" conductor @ 45' w/ 15 sacks cement. Changed out swivel. TIH with Bit 1. Drill to 110.' [REDACTED]

Day 3. 6/26/98. Current Depth: 325.' Present Operations: Running 13 3/8" surface casing. Drilled in 24 hrs: 215.' Total Rotating Hours: 19 hrs 40 min. Drilled 110 - 294.' Worked on booster. Drilled 294 - 325.' TOO. Lay down Bit 1. Cleaned-out and deepened cellar. Cut conductor pipe level to ground. Began running 13 3/8" 48# H-40 ST&C ERW surface casing. Dowell on location. [REDACTED]

Day 4. 6/27/98. Current Depth: 325'. Present Operations: Assembling surface equipment. Drilled in 24 hrs :0'. Total rotating hrs: 34 hrs. 38 min. 7a.m. to 7a.m. Run 13 3/8" 48#/ft H-40 ST&C ERW. Set 7 jts @303.7'. RU Dowell. Pump 87 Bbls. Water. Cement 13 3/8" w/300 sks Class "G", 2% CaCl, 0.25 #/sk flo-seal. Displace w/38 Bbls of water. Plug did not bump, 3 Bbls of cement left in pipe. Casing floated 1' out of hole. No problems circulating. Good returns. Job shut down @10:10 a.m. Casing settled back. WOC. Rig down Dowell. Assemble BOP, manifold, blowie line & rotating head under space confined substructure. [REDACTED]

Day 5. 6/28/98. Current Depth: 1300'. Present Operations: Rig maintenance. Drilled in 24 hrs: 975'. Total rotating hrs: 53 hrs. 8 min. 7a.m. to 7a.m. Assembled BOP, manifold, blowie line & rotating head under space confined substructure. TIH w/12 1/4" hammer. Tagged cement @240'. TOO to fix hammer (SN 100695). Drilled out 85' of cement. Drilled 325'-606'. Drilled 606'-1300'. [REDACTED]

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.

5. Lease Designation and Serial Number: ML-46094
6. If Indian, Allottee or Tribe Name: N/A
7. Unit Agreement Name: Drunkards Wash UTU-67921X
8. Well Name and Number: D-7
9. API Well Number: 43-015-30338
10. Field or Pool, or Wildcat: Drunkards Wash

1. Type of Well: OIL GAS OTHER:

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: 1371' FSL, 1530' FEL
County: Emery
QQ, Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M
State: UTAH

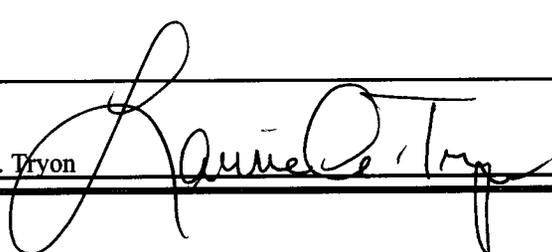
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandon	<input type="checkbox"/> Abandon *
<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Repair Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Convert to Injection
<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Fracture Treat or Acidize
<input type="checkbox"/> Multiple Completion	<input checked="" type="checkbox"/> Other <u>Weekly Report</u>
<input type="checkbox"/> Other _____	
<input type="checkbox"/> New Construction	<input type="checkbox"/> New Construction
<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Recomplete	<input type="checkbox"/> Reperforate
<input type="checkbox"/> Reperforate	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Water Shut-Off	
Approximate date work will start _____	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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.)

SEE ATTACHED

CONFIDENTIAL

13. Name & Signature: Laurie A. Tryon  Title: Administrative Asst. Date: 7/31/98

(This space for state use only)

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Cyclone Drilling Company Rig #12

PAGE 7

DRILLING

Day 31. 7/26/98. Current Depth:3879'. Present Operations: Going in hole w/BHA. Total rotating hrs:126 hrs.58 min. 7a.m. to 7a.m. Wait on Pinion Capsule & prepare rotary. Rig repair-Pinion Capsule. Pickup, strap & make-up bottom hole assemble BHA-
1-bit 8 3/4 1.00'
1-bit sub 2.82'
18-drill collars 6'-525.97'
1 x-o 2.02'
531.81'



Day 32. 7/27/98. Current Depth: 3987'. Present Operations: Drilling @3987 Drilled in 24 hrs: 108'. 7a.m. to 7a.m. Strap in hole with 4 1/2" drill pipe, lay down 3 bent joints. Circulate & condition @3740'. Wash & ream from 3740'-3809', flowline plugged. Clean out flowline. Build mud volume & raise vis to 84 cp. Wash & ream from 3809'-3871' string tried to stick twice. Conditioned & reamed. Checked mud holding vis high to clean hole. Vis84 wt 8.6#/gal. Fluid loss ± 6. Wash & ream from 3871'-3879'. Hard reaming, flowline plugged. Clean out flowline & rotating head (bell nipple) Drilling new hole. 3879'-3979' avg ROP (including connection time 9.09'/hr) Drilling. [REDACTED]



Day 33. 7/28/98. Current Depth: 4115'. Present Operations: Drilling @4115'. Drilled in 24 hrs: 4115'. Drilled in 24 hrs: 128'. 7a.m. to 7a.m. Drilling 3987'-3997'. Rig service. Dump sand trip. Drilling 3997'-4000'. Drilling 4000'-4021'. Drilling 4021'-4028'. Drilling 4028'-4060'. Drilling 4060'-4072'. Pull into casing for pump repairs. Rig repair-Ideco mud mover 700. Trip in hole. Break circulation wash 25'-no fill. Drilling 4074'-4115'. [REDACTED]



Day 34. 7/29/98. Current Depth: 4310'. Present Operations: Drilling @4310'. Drilled in 24 hrs: 195'. Total rotating hrs: 179.3'. 7a.m. to 7a.m. Drilling 4115'-4135'. Drilling 4135'-4150'. Drilling 4150'-4157'. Drilling 4180'-4186'. Drilling 4186'-4210'. Drilling 4210'-4304'. Drilling 4304'-4310'. RPM 105'. WT- 30-35,000# BHA 531.81'. [REDACTED]



DAILY WELL REPORT

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API# 43-015-30338
DRILLING CONTRACTOR: Bob Beeman #30 Gardner Denver 2500

PAGE 6

DRILLING

Day 27. 7/22/98. Current Depth: 3879'. Present Operations: TIH w/screw-in sub. Drilled in 24 hrs:0'. Total rotating hrs:126 hrs. 58 min. 7a.m to 7a.m. Conditioned & circulated to fish (154.9' to wash over). Bridge @3204'. TOO H for bit. TIH w/bit. Conditioned hole to top of fish 3403'. Circulated & conditioned. TOO H w/bit. MU screw-in sub & TIH. *Air pkg. Released@8a.m.
[REDACTED]

Day 28. 7/23/98. Current Depth: 3879'. Total rotating hrs: 126 hrs.58min. 7a.m. to 7a.m. TIH w/screw-in sub. Jarred string. Initially made 40' of travel. Hit a bridge. No other progress. TIH w/jt of dp. RU wedge Dia-log. RIH w/hydraulic clean-out tool. TOO H. RIH w/collar locator. 81/2 dc free & clear. TOO H. RIH w/spud bar. No progress. RD Wedge Dia-log. TIHw/dp. Stick pipe. RU Wedge Dia-log. Ran string shot. Mechanical back-off. RD Wedge Dia-log. TOO H. Lay down 8 dc of fish. MU bit. TIH w/bit. Circulate & condition to fish. [REDACTED]
[REDACTED]

Day 29. 7/24/98. Current Depth:3879'. Present Operations: Pulling out of hole w/fish. 7a.m. to 7a.m. Wash & ream to top of fish (3662). Trip out. Lay down jars & break bit. Pickup wash pipe & jars. Rig serve & check BOPs. Run collars in. Change out master clutch control valve. Set rotating head rubber & trip in to top of fish.(3662'). Break circulation & start washover operations. POOH w/washpipe. Make up fishing BHA (screw-in-sub) & trip in hole. Break circulation & screw into fish. POOH w/ fish. [REDACTED]
[REDACTED]

Day 30. 7/25/98. Current Depth: 3879'. Present Operations: Repair rotary table. Drilled in 24 hrs:0'. 7a.m. to 7a.m. Trip out of hole w/fish, lay down fish/pickup washpipe & lay down washpipe & load out. Rig down Weatherford fishing tools, rig down circulated head/pickup drill collars & lay down drill collars on rack. Inspect drill collars. Repair rotary table(repairing & pinion capsule). [REDACTED]

ORIGINAL

DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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5. Lease Designation and Serial Number:
ML-46094

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

7. Unit Agreement Name:
Drunkards Wash UTU-67921X

8. Well Name and Number:
D-7

9. API Well Number:
43-015-30338

10. Field or Pool, or Wildcat:
Drunkards Wash

1. Type of Well: OIL GAS OTHER: CONFIDENTIAL

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: 1371' FSL, 1530' FEL

County: Emery
State: UTAH

QQ, Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Weekly Report
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

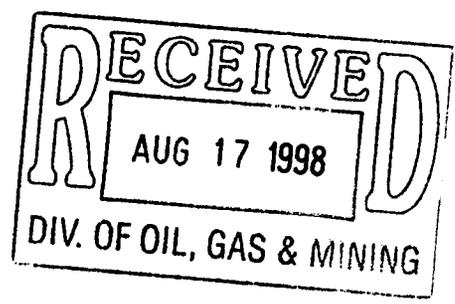
Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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SEE ATTACHED

CONFIDENTIAL



13. Name & Signature: Laurie A. Tryon *Laurie A. Tryon* Title: Administrative Asst. Date: 8/14/98

(This space for state use only)

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Cyclone Drilling Company Rig #12

PAGE 10

DRILLING

Day 43. Current Depth: 5019'. Present Operations: Drilling. Drilled in 24 hrs:121'. Total rotating hrs: 300.05 hrs. 7a.m. to 7a.m. Drilled from 4888' to 4898'. Serviced rig. Dumped sand trap. Drilled 4898' to 4955'. Lost circulation-100 barrels. Pumped pill. Drilled 4955' to 5019'. [REDACTED]

Day 44. Current Depth:5144'. Present Operations: Drilling. Drilled in 24 hrs:125'. Total rotating hrs:324.05 hrs. 7a.m. to 7a.m. Drilled 5019'-5055'. #2engine turbo out@11:15a.m. Drilled 5055'-5065'. Drilled 5065'-5083'. Survey@5042'3/4°. Drilled 5083'-5087'. Drilled 5087'-5113'. Drilled 5113'-5144'. WOB32#,2000psi on pumps,45rpm 9#/gal,53vis,9ph. [REDACTED]

Day 45. Current Depth:5260'. Present Operations: Drilling. Drilled in 24 hrs:111'. Total rotating hrs:348.05hrs. 7a.m. to 7a.m. Drilling 5149'-5172'. Pickup & rotate. Welder built up washed out fluid end. Drilled 5172'-5177'. Drilling 5177'-5190'. Drilled 5190'-5198'. Drilled 5198'-5206'. Drilled 5206'-5238'. Drilled 5238'-5260'. 70rpm,35#,1200psi,605rpm, 9.2#gal,60vis,9ph. [REDACTED]

Day 46. Current Depth:5356'. Present Operations: Drilling. Drilled in24 hrs:96. Drilled from 4620' to 5300' with 8 3/4" Smith F35 3/13 :P3893 bit#9. Total rotating hrs:360.71 hrs. 7a.m. to 7a.m. Drilled 5260'-5300'. Circulated & conditioned. Serviced rig. Ran survey; mis-run. Pump slug. TOOH. Strapped out. Laid down shock sub. PU bit#10 8 3/4" Smith F-35, LP4055, ASSY:0016 592, IADC: 617X.MU & dress new bit. TIH w/dc. Slip & cut 85' drilling line. TIH w/dp. Drilled 5300'-5324'. Drilled 5324'-5356'. Drilled 5356'-5380'. [REDACTED]

Day 47. Current Depth: 5527'. Present Operations: Drilling. Drilled in 24 hrs:147'. Total rotating hrs:384.71 hrs. 7a.m. to 7a.m. Drilled 5380'-5386'. Serviced rig-went through suction valves on pump. Drilled 5386'-5394'. Drilled 5394'-5417'. Drilled 5417'-5425'. Drilled 5425'-5439'. Drilled 5439'-5449'. Drilled 5449'-5480'. Drilled 5480'-5512'. Drilled 5512'-5527'. Dumped sand traps. Still waiting on engine#2 to be repaired. WOB 34#,1050 psi pumps,55rpm,53vis,9.2#/gal. [REDACTED]

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2,T16S,R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Cyclone Drilling Company Rig #12

PAGE 11

DRILLING

Day 48. Current Depth:5650'. Present Operations: Drilling. Drilled in 24 hrs:123'. 7a.m. to 7a.m. Drilled 5527-5543'. Serviced rig-changed shaker screen to 120 mesh from 80 mesh. Drilled 5543-5571'. Drilled 5571'-5585'. Drilled 5585-5591'. Drilled 5591-5593'. Drilled 5593-5606'. Drilled 5606-5624'. Changed screen in pipe. Drilled 5624-5637'. Survey 2°@5605'. Drilled 5637-5650'. Still waiting on Engine#2 to be replaced. WOB 38#, 60 rpm,9.1 lb/gal,vis 55, 1050 psi on pumps,ph10. [REDACTED]

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ORIGINAL

5. Lease Designation and Serial Number:

ML-46094

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

Drunkards Wash UTU-67921X

8. Well Name and Number:

D-7

9. API Well Number:

43-015-30338

10. Field or Pool, or Wildcat:

Drunkards Wash

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 GAS OTHER:

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:

1371' FSL, 1530' FEL

County: Emery

QQ, Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M

State: UTAH

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

NOTICE OF INTENT
(Submit In Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Weekly Report
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

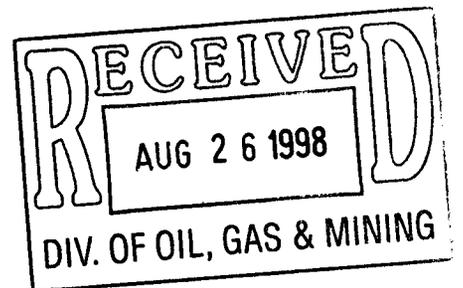
Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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.)

SEE ATTACHED

CONFIDENTIAL



13.

Name & Signature:

Laurie A. Tryon

Title:

Administrative Asst.

Date:

8/21/98

(This space for state use only)

DAILY WELL REPORT

River Gas Corporation
Disposal Well #7
1371' FSL, 1530' FEL
SW/SE, Sec.2, T16S, R9E
EMERY COUNTY, UTAH
SURVEYED ELEVATION: 5826.5'
API# 43-015-30338
DRILLING CONTRACTOR: Cyclone Drilling Company Rig #12

PAGE 13

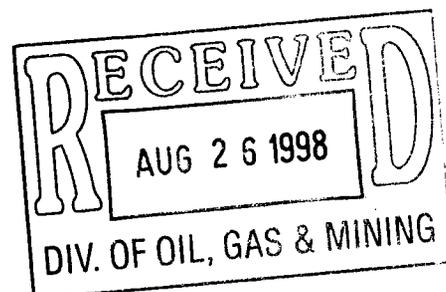
DRILLING

8/20/98 Cont. Reamed 6508'-6573'. Circulated & conditioned. Ran survey. Mis-run. Mixed & pumped slug. TOOH. Laying down manually. RU lay-down machine. TOOH. Laying down dp w/ lay-down machine. RU casing crew. Change out pipe rams to 7". Safety Meeting. Ran 41 jts 7" casing. Torque max 4010'. Filling every 15j ts. [REDACTED]

8/21/98. Current Depth: 6573'. Present Operations: Waiting on slips. Total rotating hrs: 516.51. 7a.m. to 7a.m. Ran 6 jts 7" casing. Safety meeting. DV tool #1 set @4570.47' (tool 2.31'). Ran 23 jts 7" casing. RU swedge. Broke circulation. Ran 29 jts 7" casing. DV tool#2 set @2382.19'. (tool 2.28'). Ran 58 jts 7" casing. RD casing crew. RU Schlumberger. Attempted to wash casing to bottom. No success- lost returns. Test lines to 4500 psi. Safety meeting. Cemented 1st stage (see cement report). Dropped 1st bomb. Opened w/700 psi. Circulated 2-3 Bbl/min. No success. Cemented 2nd stage (see cement report). Dropped 2nd bomb. Opened w/2500 psi. Circulated mud ring out of 9 5/8" casing. Circulated. Cemented 3rd stage (see cement report). RD Dowell. ND BOP. Attempted to pick up stack & setting slips. Slips broke-all pieces retrieved. Waiting on slips. [REDACTED]

8/22/98. Current Depth:6573'. Present Operations: Rig Released. 7a.m. to 7a.m. Set slips, cut off casing. Finish cleaning mud tanks. Rig Released @9a.m.

8/21/98. [REDACTED]



CLIENT

State of Utah
Division of Oil, Gas & Mining

ADDRESS

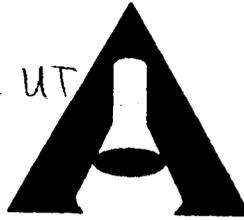
1594 West North Temple, SLc UT

PHONE/FAX

538-5337 FAX 359-3940

CONTACT

Chris Kierst



AMERICAN
WEST
ANALYTICAL
LABORATORIES
463 West 3600 South
Salt Lake City, Utah
84115

CHAIN OF CUSTODY

API # ~~420030~~ 4301530338

well location: SWSG S. 2, T16S, R9E

(801) 263-8686

Fax (801) 263-8687

LAB # 34450

QUOTE#P.O.#

SITE

SAMPLE ID

SAMPLE ID

SAMPLE DATE/TIME

MATRIX

OF CONTAINERS
BY/TPH

VOLATILES (624)

SEMIVOLATILES (625)
D LIST METALS

TURN AROUND TIME

TURN AROUND TIMES

I = Priority I

II = Priority II

III = 5 Day Rush

S = Standard

COMMENTS

D
2-7 Injection Well - Navajo w/
packer @ 5634' and Bridge
Plug @ 5740 8/30/98

8/30/98

D
2-7 Injection Well - Wingate
w/packer @ 6160' and Bridge
Plug @ 6250' 8/30/98

8/30/98

Special Instructions:

Relinquished By: Signature

Christopher J. Kierst

Date/Time

9/3/98 5PM

Received By: Signature

Date/Time

PRINT NAME

Christopher J. Kierst

PRINT NAME

Relinquished By: Signature

Date/Time

Received By: Signature

Date/Time

PRINT NAME

Dispatched By: Signature

Date/Time

Received for Laboratory By:

Rebekah Richardson

Date/Time

9/3/98
1710

PRINT NAME

PRINT NAME

REBEKAH RICHARDSON

AFFIDAVIT OF PUBLICATION

STATE OF UTAH)

ss.

County of Carbon,)

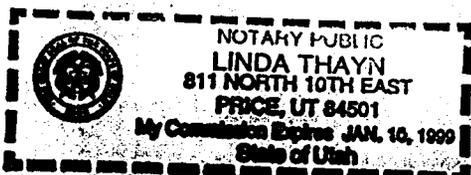
I, Kevin Ashby, on oath, say that I am the Publisher of the Sun Advocate, a twice-weekly newspaper of general circulation, published at Price, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 (One) consecutive issues, and that the first publication was on the 22nd day of October, 1998 and that the last publication of such notice was in the issue of such newspaper dated the 22nd day of October, 1998.

Kevin Ashby
Kevin Ashby - Publisher

Subscribed and sworn to before me this 22nd day of October 1998.

Linda Thayne
Notary Public My commission expires January 10, 1999 Residing at Price, Utah

Publication fee, \$ 66.00



NOTICE OF AGENCY ACTION
CASE NO. 98-281
BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF HYPER GAS CORPORATION FOR PERMISSIVE APPROVAL OF THE CRAFTY WELL LOCATED IN SECTION 2, TOWNSHIP 16 SOUTH, RANGE 12 EAST, SEAL EMERY COUNTY, UTAH AS A CLASS 1 PNEUMATIC 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 administrative proceeding to consider the application of Hyper Gas Corporation for administrative approval of a CRAFTY WELL located in Section 2, Township 16 South, Range 12 East, Seal Emery County, Utah, for development as a Class 1 PNEUMATIC WELL. The proposed well is located on the SE 1/4 of Section 2, Township 16 South, Range 12 East, Seal Emery County, Utah.

The well is being developed by Hyper Gas Corporation, 1111 North 1000 West, Salt Lake City, Utah 84116. The well is being developed for the purpose of producing gas from the well.

The well is being developed in accordance with the provisions of the Utah Oil, Gas and Mining Act, Chapter 10, Title 19, Utah Code Annotated, 1993.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OCT 22 1998
Price, Utah

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 9/17/98

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

Group #: 25016
Lab #: 98-U007362
Sample Desc: D-7 Disposal Wingate
Packer @ 6160', Bridge Plug @ 6250'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	1,700	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	1,400	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	69,600	200	9/ 3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	138,900	0.1	9/ 4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	7.2	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	7.0	0.1	9/ 2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.072	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	3,060	1000	9/ 9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	120,000	250	9/ 8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	561	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	341	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	122	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	3,060	8	9/16/98 13:36	EPA 200.7	EG

Approved By: 

Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 3

(generic.rpt)

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

Date: 9/17/98

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

Group #: 25016
Lab #: 98-U007362
Sample Desc: D-7 Disposal Wingate
Packer @ 6160', Bridge Plug @ 6250'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/ 2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Receiving Temperature, C	2.8		9/ 2/98 13:00		RCG

NOTE: Sample not received on ice.

Approved By:


Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 4

(generic.rpt)

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 8905
301 262 7299 PHONE
801 262 7378 FAX

Date: 9/17/98

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

Group #: 25016
 Lab #: 98-U007361
 Sample Desc: Navajo
 Packer @ 5634', Bridge Plug @ 5740'
 Sample Matrix: WATER
 Date Sampled: 8/30/98
 Date Submitted: 9/2/98

Time Sampled:
 Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	841	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	690	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	87,400	500	9/ 3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	159,000	0.1	9/ 4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	6.3	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	6.4	0.1	9/ 2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.099	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	4,200	1000	9/ 9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	154,000	250	9/ 8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	842	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	50.8	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	223	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	4,130	8	9/16/98 13:36	EPA 200.7	EG

Approved By:


 Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 1

{generic.rpt}

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



Date: 9/17/98

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

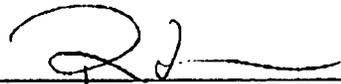
Group #: 25016
Lab #: 98-U007361
Sample Desc: Navajo
Packer @ 5634', Bridge Plug @ 5740'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/ 2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING LIMIT (MRL)	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Receiving Temperature, C	3.2		9/ 2/98 13:00		RCG

NOTE: Sample not received on ice.

Approved By: 
Ron Fuller, Laboratory Director

MRL - Lowest level detectable

(generic.rpt)

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

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 9/17/98

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

Group #: 25016
 Lab #: 98-U007361
 Sample Desc: Navajo
 Packer @ 5634', Bridge Plug @ 5740'
 Sample Matrix: WATER
 Date Sampled: 8/30/98
 Date Submitted: 9/2/98

Time Sampled:
 Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	841	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	690	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	87,400	500	9/ 3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	159,000	0.1	9/ 4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	6.3	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	6.4	0.1	9/ 2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.099	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	4,200	1000	9/ 9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	154,000	250	9/ 8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	842	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	50.8	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	223	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	4,130	8	9/16/98 13:36	EPA 200.7	EG

Approved By: 
 Ron Fuller, Laboratory Director

MRL - Lowest level detectable

{generic.rpt}

8100 SOUTH STRATLER
 SALT LAKE CITY UTAH 84107 6905
 801 262 7299 PHONE
 801 262 7378 FAX

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 9/17/98

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

Group #: 25016
 Lab #: 98-U007362
 Sample Desc: D-7 Disposal Wingate
 Packer @ 6160', Bridge Plug @ 6250'
 Sample Matrix: WATER
 Date Sampled: 8/30/98
 Date Submitted: 9/2/98

Time Sampled:
 Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	1,700	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	1,400	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	69,600	200	9/ 3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	138,900	0.1	9/ 4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	7.2	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	7.0	0.1	9/ 2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.072	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	3,060	1000	9/ 9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	120,000	250	9/ 8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	561	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	341	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	122	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	3,060	8	9/16/98 13:36	EPA 200.7	EG

Approved By: 

Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 3

{generic.rpt}

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

2. Information derived from well logs, including certain information in completion reports, stratigraphic cross sections, bottomhole pressure data, and other appropriate data provided in R649-3-35-1 will be held confidential in accordance with R649-2-11 at the request of the operator.

3. The division shall review the submitted information and advise the operator and the State Tax Commission of its decision regarding the wildcat well designation as related to Section 59-5-102(2)(d).

4. The division is responsible for approval of a request for designation of a well as a wildcat well. If the operator disagrees with the decision of the division, the decision may be appealed to the board. Appeals of all other tax-related decisions concerning wildcat wells should be made to the State Tax Commission.

R649-3-36. Shut-in and Temporarily Abandoned Wells.

1. Wells may be initially shut-in or temporarily abandoned for a period of twelve (12) consecutive months. At the end of each twelve month period the operator must file a Sundry Notice providing the following information:

1.1. Reasons for shut-in or temporarily abandonment of the well, and

1.2. The length of time the well will be shut-in or temporarily abandoned.

2. Proof of casing integrity shall be a requirement to continue the shut-in or temporarily abandonment status.

3. After five (5) years of nonactivity or nonproductivity, the well shall be plugged in accordance with R649-3-24, unless approval for extended shut-in time is given by the Division upon a showing of good cause by the operator.

4. If after a five (5) year period the well is ordered plugged by the Division, and the operator does not comply, the operator shall forfeit the drilling and reclamation bond and the well shall be properly plugged and abandoned under the direction of the Division.

1994

40-6-1 et seq.

R649-5. Underground Injection Control of Recovery Operations and Class II Injection Wells.

R649-5-1. Requirements For Injection Of Fluids Into Reservoirs.

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

R649-5-3. Noticing And Approval Of Injection Wells.

R649-5-4. Aquifer Exemption.

R649-5-5. Testing And Monitoring Of Injection Wells.

R649-5-6. Duration Of Approval For Injection Wells.

R649-5-7. Unit or Cooperative Development Or Operation.

R649-5-1. Requirements For Injection Of Fluids Into Reservoirs.

1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the

introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the board after notice and hearing.

2. A petition for authority for the injection of gas, liquefied petroleum gas, air, water, or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:

2.1. The name and address of the operator of the project.

2.2. A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile radius of the project area.

2.3. A full description of the particular operation for which approval is requested.

2.4. A description of the pools from which the identified wells are producing or have produced.

2.5. The names, description and depth of the pool or pools to be affected.

2.6. A copy of a log of a representative well completed in the pool.

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

2.8. A list of all operators or owners and surface owners within a one-half mile radius of the proposed project.

2.9. An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

2.10. Any additional information the board may determine is necessary to adequately review the petition.

3. Applications as required by R649-5-2 for injection wells which are located within the project area, may be submitted for board consideration and approval with the request for authorization of the recovery project.

4. Established recovery projects may be expanded and additional wells placed on injection only upon authority from the board after notice and hearing or by administrative approval.

5. If the proposed injection interval can be classified as an USDW, approval of the project is subject to the requirements of R649-5-4.

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

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:

(FAX # inserted for correct fax to for API # on 10/15/98)

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.

3. Applications for injection wells which are within a recovery project area will be considered for approval:

3.1. Pursuant to R649-5-1-3.

3.2. Subsequent to board approval of a recovery project pursuant to R649-5-1-1.

4. Approval of an injection well is subject to the requirements of R649-5-4, if the proposed injection interval can be classified as an USDW.

5. In addition to the requirements of this section, the provisions of R649-3-1, R649-3-4, R649-3-24, R649-3-32, and R649-8-1 and R649-10 shall apply to all Class II injection wells.

R649-5-3. Noticing And Approval Of Injection Wells.

1. Applications for injection wells submitted pursuant to R649-5-1-3 shall be noticed in conformance with the procedural rules of the board as part of the hearing for the recovery project. Any person desiring to object to approval of such an application for an injection well shall file the objection in conformance with the procedural rules of the board.

2. The receipt of a complete and technically adequate application, other than an application submitted pursuant to R649-5-3-1, shall be considered as a request for agency action by the Division and shall be published in a daily newspaper of general circulation in the city and county of Salt Lake and in a newspaper of general circulation in the county where the proposed well is located. A copy of the notice of agency action shall also be sent to all parties including government agencies. The notice of agency action shall contain at least the following information:

2.1. The applicant's name, business address, and telephone number.

2.2. The location of the proposed well.

2.3. A description of proposed operation.

3. If no written objection to the application for administrative approval of an injection well is received by the division within 15 days after publication of the notice of agency action, or an aquifer exemption is not required in accordance with R649-5-4, and a board hearing is not otherwise required, the application may be considered and approved administratively.

4. If a written objection to an application for administrative approval of an injection well is received by the division within 15 days after publication of the notice of application, or if a hearing is required by these rules or deemed advisable by the director, the application shall be set for notice and hearing by the board.

5. The director shall have the authority to grant an exception to the hearing requirements of R649-5-1-1 for conversion to injection of additional wells which constitute a modification or expansion of an authorized project provided that any such well is necessary to develop or maintain thorough and efficient recovery operations for any authorized project and provided that no objection is received pursuant to R649-5-3-3.

6. The director shall have authority to grant an exception to the hearing requirements of R649-5-1-1 for water disposal wells provided disposal is into a formation or interval that is not currently nor anticipated to be an underground source of drinking water and provided that no objection is received pursuant to R649-5-3-3.

R649-5-4. Aquifer Exemption.

1. The board may, after notice and hearing and subject to the EPA approval, authorize the exemption of certain aquifers from classification as an USDW based upon the following findings:

*incomplete for Section 11
(FAX correction)
OK on file*

*Rec'd 11/13/98
Fax submitted 11/16/98
copying program
test needed*

*D-1 discharge
OK sheet included
of EPA statement
12/23/98
no rec'd 11/2/98*

*stim lab rec'd
3/24/98*

*none in 1/2 mi
OK*

what pressure needed 1000#

*3/94 Stimlab Rpt -
open network*

D/compatibility acceptable

*Across the field
to arrival through
injection zone
named
cross x sect.*

150 paces

ANALYSIS OF THE STEP
RATE TEST IN WELL D-7
AT DRUNKARD'S WASH

PREPARED FOR:

RIVER GAS CORPORATION
3600 WATERMELON ROAD
NORTHPORT, ALABAMA 35476

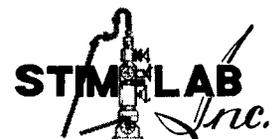
PREPARED BY:

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

P.O. NUMBER: VERBAL/JOHN HOLLINGSHEAD
FILE NUMBER: SL 5205

SEPTEMBER 24, 1998

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.



A Core Laboratories Company

ANALYSIS OF THE STEP RATE INJECTION TEST CONDUCTED IN WELL D-7 AT DRUNKARD'S WASH

Well D-7 was completed in August, 1998 and a step rate test was conducted on August 31, 1998 to determine the fracture parting pressure in the Navajo sandstone. Both the Navajo and Wingate sandstones were opened through 592 feet of perforations at the depths shown in Table 1. Initially, three separate acid breakdown treatments were performed to open the perforations. The data from the breakdown stages is shown in Figure 1. The lower perforations were treated, then a bridge plug was set and the middle perforations were treated. Perforations were then added to the upper section and the middle and upper zones were treated together. This data shows that the middle zone represents a major part of the leakoff permeability and the addition of the upper perforations did not significantly increase the leakoff rate. The lower and middle zones had similar shut-in pressures and the upper zone had approximately 100 psi lower shut-in pressure.

Table 1 - Perforation Placement in Well D7

Perforation Location (ft)
6445-6485
6400-6406
6352-6372
6300-6335
6252-6290
6190-6246
6104-6116
6074-6095
6050-6067
6012-6046
5970-6005
5938-5966
5906-5935
5853-5897
5694-5848
5665-5688

The rates in the two step rate tests were varied from 0.5 to a maximum of 12 BPM. The analysis of the test is given in Figure 2. Both sets of data were plotted and the average parting pressure determined. The data shows that the fracture parting pressure is 920 psi as calculated from bottom hole pressure and excludes friction pressure. This corresponds to a bottom hole pressure of 3750 psi at the gauge depth of 6537 ft or a fracture parting pressure gradient of 0.57 psi/ft. The actual tectonically induced stress state is intermediate between the high value observed in D-3 and the other wells which are tectonically relaxed.

The log data from D-7 was compared to that from D-3. The data was plotted on the same footage scale by adding 117 ft to the recorded depth of D-3 and is shown in Figure 3. The three anhydrite layers are seen in both wells and the primary rubble zone is also seen. From the logs, secondary rubble zone appears possible between the 1st and 2nd anhydrite layers in D-7.

This data confirms that any water injection into the Navajo sandstone in D-7 will be confined to that zone by the high stress anhydrite layer which very predictably overlies the Navajo in all the disposal wells drilled in Drunkard's Wash to date. These data show that the injection into D-7 can be conducted at the maximum pressure limit currently in place for other wells in this area.



Data for Acid Breakdowns in D-7

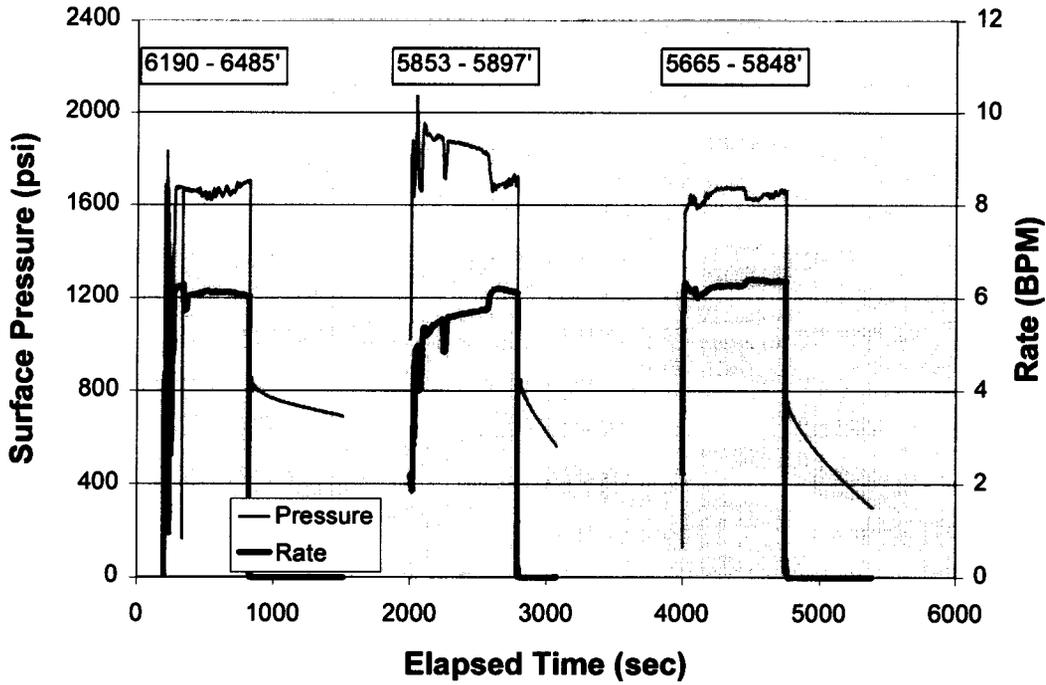


Figure 1

Step Rate Tests Performed in D-7

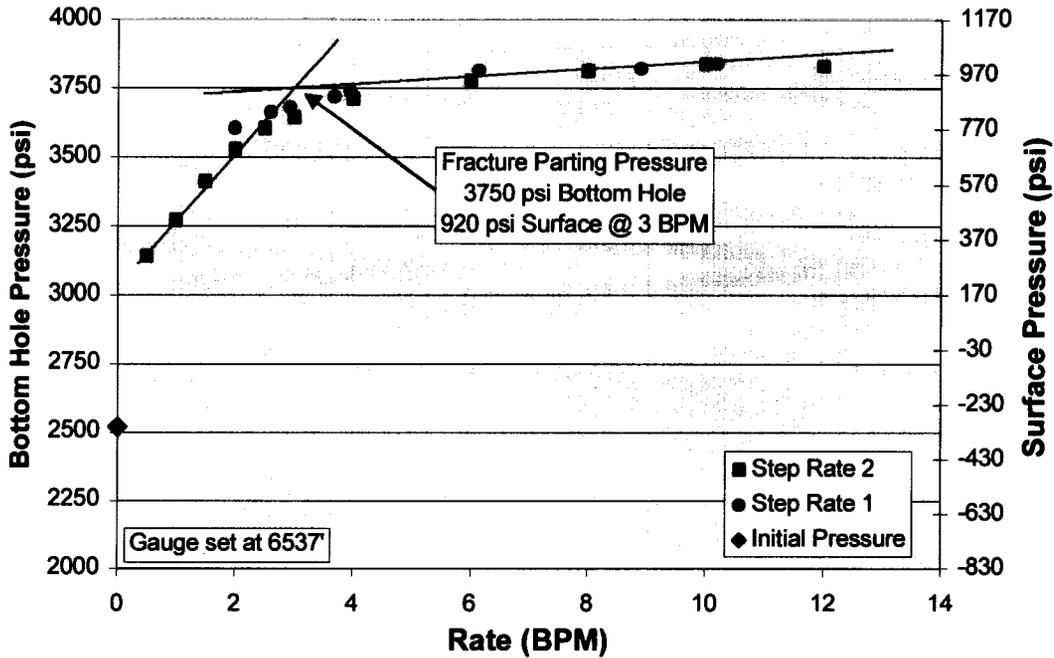


Figure 2

Comparison of Log Data for D-3 and D-7

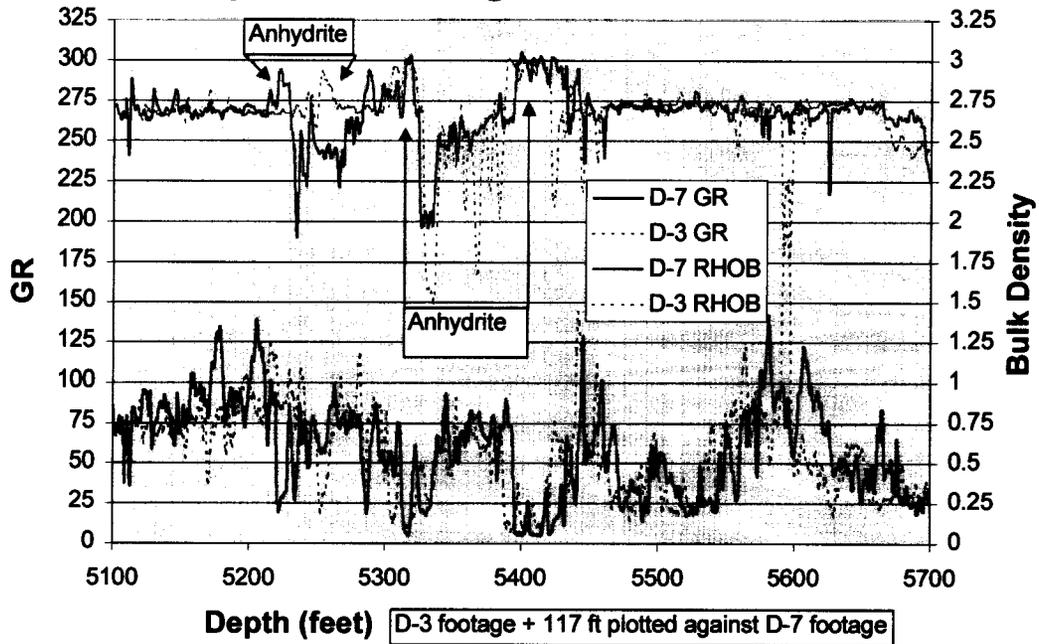


Figure 3

Michael W. Conway

September 24, 1998

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 GAS OTHER:

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

1371' FSL, 1530' FEL

5. Lease Designation and Serial Number:

ML-46094

6. If Indian, Allocated or Tribe Name:

N/A

7. Unit Agreement Name:

Drunkards Wash UTU-67921X

8. Well Name and Number:

D-7

9. API Well Number:

43-015-30338

10. Field or Pool, or Wiccat:

Drunkards Wash

County: Emery

State: UTAH

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

NOTICE OF INTENT
(Submit In Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start

SUBSEQUENT REPORT
(Submit Original Form Only)

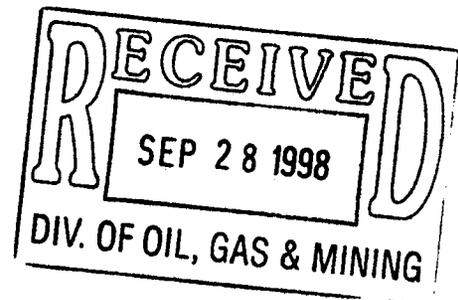
- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other PRESSURE REQUEST
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion 8-31-98

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details and give pertinent data. 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



13

Name & Signature

[Handwritten Signature]

Title

Reservoir Engr.

Date

9-26-98

(This space for state use only)

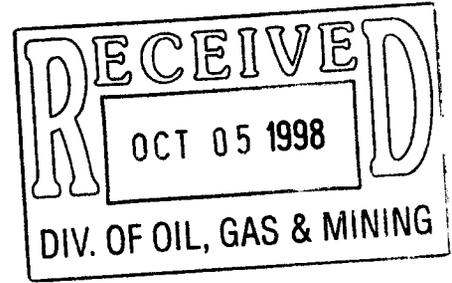
D-7 Completion Activities & Injection Pressure Request

On 8/24/98, Flint Well Services moved in and rigged up on location. A 6 1/8" mill was run in and the cement diverting tools at 2382 feet and 4570 feet were drilled out. The mill was pulled, and a bit & scraper were run in the hole to a PBSD of 6537 feet. After the hole was cleaned with fresh water, Computalog was rigged up to bond log the cement job. Two bond runs were conducted across the proposed Navajo injection interval, one with no surface pressure and one with 1000 psi.. Both times, a good cement sheath appeared to be evident above the Navajo formation. The following perforations were shot on 8/29/98. Bottom to top: 6445-85, 6400-06, 6352-72, 6300-35, 6252-90, 6190-6246, 6104-6116, 6074-95, 6050-67, 6012-46, 5970-6005, 5938-5966, 5906-35, 5853-97, 5694-5848, 5665-88, total shot 592 feet.. After perforating, a packer and bridge plug was run in the hole to isolate certain areas of the Navajo and Wingate formation so water samples could be gathered. The packer & plug depths and lab analysis of these water samples are shown on the attached Chem-Tech- Ford sheet. As shown, the TDS levels of 120,000 ppm (Wingate) and 154,000 ppm (Navajo) were well above the mandated cutoff level. Prior to conducting the step-rate test, the perforations were broken down with 4000 gallons of 7 1/2% HCL acid. On 8/31/98, tandem quartz gauges were run in the hole and set at 6537 feet. A step-rate test was conducted to determine the parting pressure of the perforated intervals. Attached is an independent analysis of the results from this test. As you will read, the parting pressure was 920 psi which translates into a bottom-hole pressure of 3750 psi, .57 psi/ft gradient. This pressure is somewhat consistent with other wells in the area, ie. D-1, D-3. Log analysis also revealed the anhydrite barrier above the Navajo in D-7 which was present in D-3. Due to this situation, River Gas Corporation respectfully requests that the maximum surface injection pressure be established at 1350 psi. since adequate fluid containment is expected . This pressure would be consistent with other wells in the Drunkards Wash Unit. If we can supply additional information to help with our request, please contact John Hollingshead at the River Gas office in Northport, Alabama.

9-26-98

gmh

APPLICATION FOR INJECTION WELL - UIC FORM 1



OPERATOR River Gas Corporation River Gas Corporation
ADDRESS 1305 South 100 East 511 Energy Center Blvd.
Price, UT 84501 Northport, AL 35473

Well name and number: Utah D7
Field or Unit name: Drunkards Wash UTU-67921X Lease no. ML-46094
Well location: QQ SW/SE section 2 township 16S range 9E 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?.....^{DIS} Yes No
Date of test: 8/28/98 API Number: 43-007-30338

Proposed injection interval: from 6028' to 6580'

Proposed maximum injection: rate 14,400 BBL pressure 1,600 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.

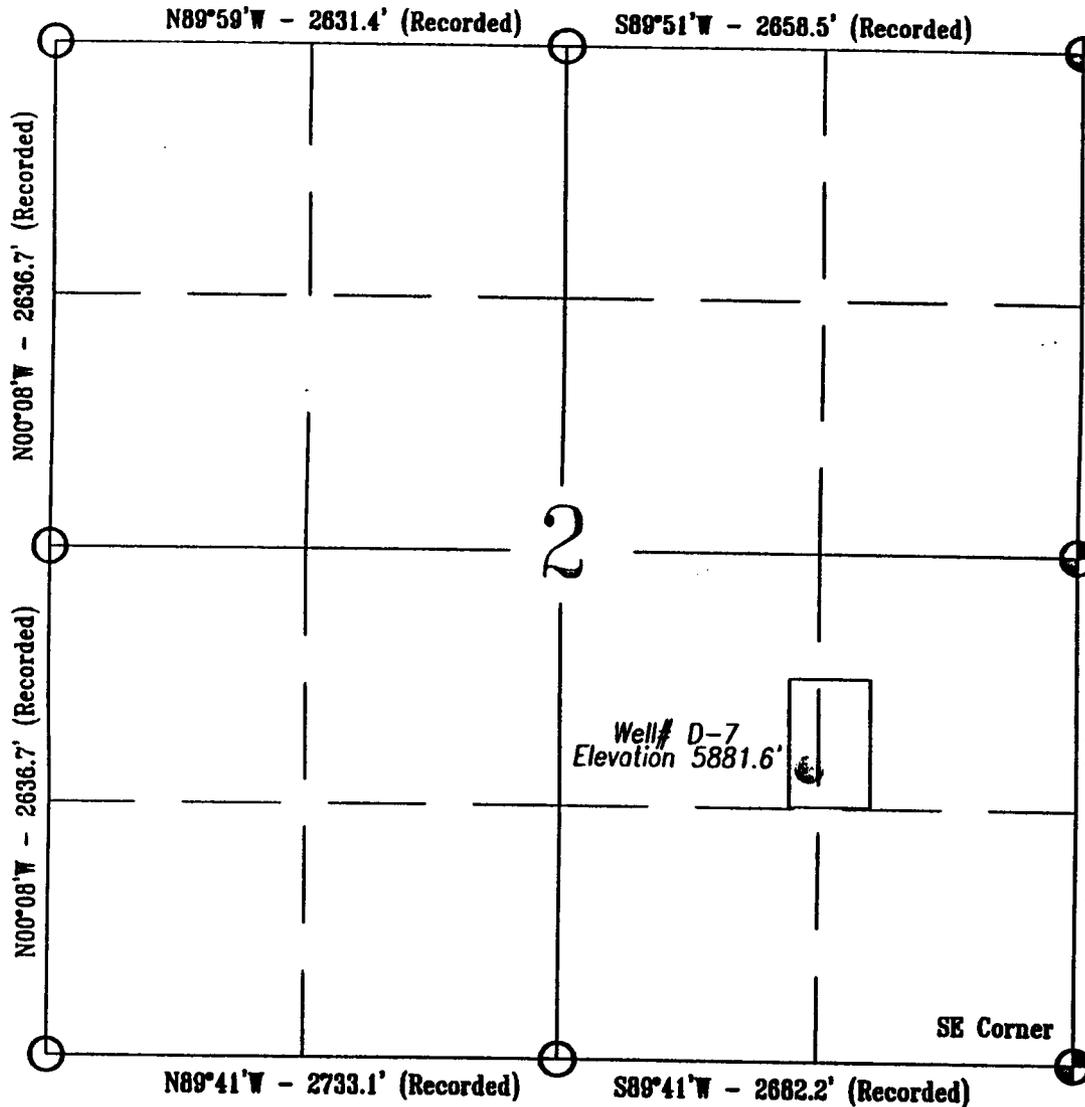
Name Don S. Hamilton Signature Don S. Hamilton
Title Permit Specialist Date October 2, 1998
Phone No. (435) 637-8876

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

Range 9 East

Township 16 South



Basis of Bearing:

Basis of Bearing S89°52'W recorded between the SW Corner of Section 36 Township 15 South, Range 9 East, and the North Quarter Corner of Section 1, Township 16 South, Range 9 East, Salt Lake Base & Meridian.

Basis Of Elevation:

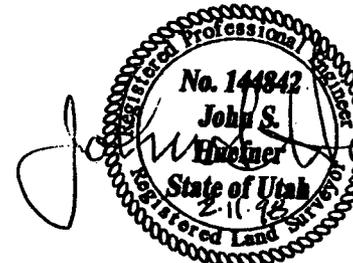
Basis of Elevation of 5827' as indicated in the UDOT R.O.W Marker in Section 12, Township 16 South, Range 9 East, Salt Lake Base and Meridian.

Description of Location:

Proposed Drill Hole located in the NW 1/4 SE1/4 of Section 2; 1370.8' North and 1529.5' West from the SE Corner of Section 2, 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.



John S. Huefner

Exhibit "A"
1 OF 3

LEGEND:

- Drill Hole Location
- Brass Cap (Found)
- Brass Cap (Searched for, But Not Found)



DRAWN BY: P. BOYLEN
CHECKED BY: L.W.J.
DATE: 2/10/98
SCALE: 1"=1000'
SHEET NO. NO. OF SHEETS: 244 244
PROJECT NO.:
A-1
SHEET 1 OF 4

Castle Valley
3224 South 125 West
Price, Utah 84501
(801) 637-8300
FAX (801) 637-2833

Services

River Gas Corporation
Well# D-7
Section 2, T16S, R9E, S.L.B.&M.
Carbon County, Utah



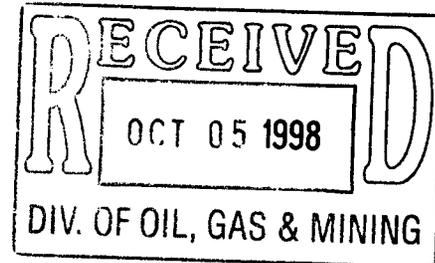
**ORIGINAL
CONFIDENTIAL**

RIVER GAS CORPORATION

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

October 2, 1998

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 – Utah D-7
SW/4, SE/4, Section 2,
T16S, R9E, SLB&M, Emery County Utah

Dear Mr. Hunt:

Enclosed is 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,

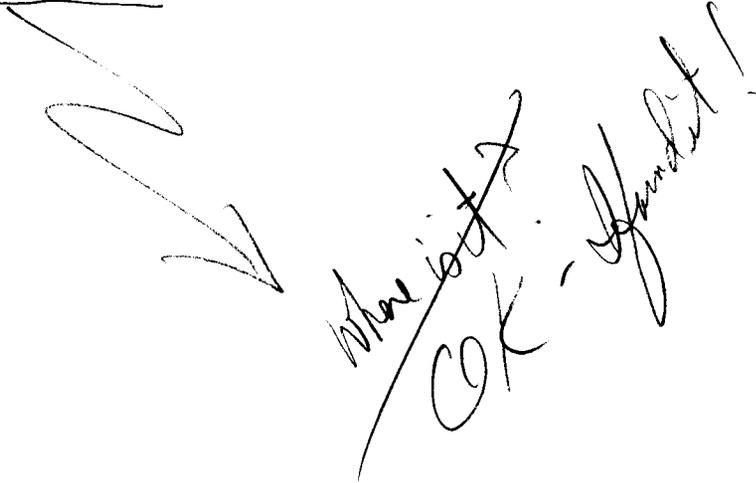
Don S. Hamilton

Don S. Hamilton
Permit Specialist

cc: Mr. R.A. Lamarre, Texaco
Mr. Chuck Snure, Texaco
Mr. Gee Lake, Jr., Dominion Resources
Mrs. Tammie Butts, RGC
Mr. Joey Stephenson, RGC
Mr. Dennis Plowman, RGC
RGC Well File - Utah D-7

Statement Regarding Logs Performed on the Well

Logs compiled on the Utah D-7 well have been previously submitted to your office. The Cement Bond Log for the well is enclosed detailing the casing test performed on the well.



A handwritten signature and initials are written in black ink. The signature appears to be "John J. Handley" and the initials are "COK". A large, hand-drawn arrow points from the signature area down and to the left, towards the underlined text in the paragraph above.

Exhibit "D"

Description of the Casing Program

need more complete

Casing Program Description

Conductor

Surface

~~Surface~~ Casing Description:

13-3/8" 48#/ft, H-40, ST&C SMLS, installed from 45' to 325'

intermediate

~~Surface~~ Casing Description:

9-5/8" 36#/ft, K-55 ST&C SMLS, installed from 325' to 2350'

Production Casing Description:

7" 26#/ft, K-55, installed from 2350' to 6573'

Fax dated 11/2/98 rec'd. from Don Hamilton (R6C) with more complete description of the casing program. See that document to replace this statement.

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Exhibit "E" 1 of 5

Date: 9/17/98

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

Group #: 25016
 Lab #: 98-U007361
 Sample Desc: Navajo
 Packer @ 5634', Bridge Plug @ 5740'
 Sample Matrix: WATER
 Date Sampled: 8/30/98
 Date Submitted: 9/2/98

Time Sampled:
 Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	841	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	690	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	87,400	500	9/3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	159,000	0.1	9/4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	6.3	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	6.4	0.1	9/2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.099	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	4,200	1000	9/9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	154,000	250	9/8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	842	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	50.8	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	223	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	4,130	8	9/16/98 13:36	EPA 200.7	EG

Approved By:


 Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 1

(generic.rpt)

8100 SOUTH STRATLER
 SALT LAKE CITY UTAH 84107 6905
 801 262 7299 PHONE
 801 262 7378 FAX

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Exhibit "E" 2 of 5

Date: 9/17/98

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

Group #: 25016
Lab #: 98-U007361
Sample Desc: Navajo
Packer @ 5634', Bridge Plug @ 5740'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Receiving Temperature, C	3.2		9/ 2/98 13:00		RCG

NOTE: Sample not received on ice.

Approved By: 

Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 2

(generic.rpt)

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

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Exhibit "E" 3 of 5

Date: 9/17/98

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

Group #: 25016
Lab #: 98-U007362
Sample Desc: D-7 Disposal Wingate
Packer @ 6160', Bridge Plug @ 6250'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	1,700	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	1,400	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	69,600	200	9/ 3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	138,900	0.1	9/ 4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	7.2	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	7.0	0.1	9/ 2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.072	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	3,060	1000	9/ 9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	120,000	250	9/ 8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	561	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	341	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	122	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	3,060	8	9/16/98 13:36	EPA 200.7	EG

Approved By: 

Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 3

{generic.rpt}

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

Date: 9/17/98

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

Group #: 25016
Lab #: 98-U007362
Sample Desc: D-7 Disposal Wingate
Packer @ 6160', Bridge Plug @ 6250'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/ 2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Receiving Temperature, C	2.8		9/ 2/98 13:00		RCG

NOTE: Sample not received on ice.

Approved By: 
Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 4

(generic.rpt)

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

UNICHEM

A Division of BJ Services

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

Exhibit "E" 5 of 5

WATER ANALYSIS REPORT

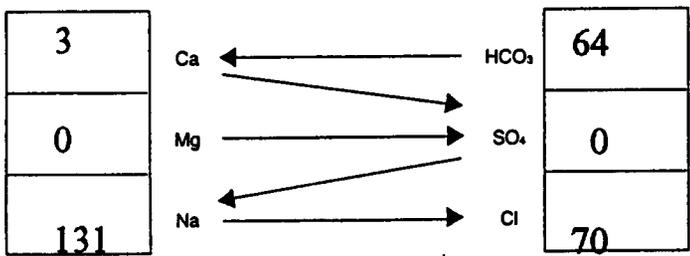
Company RIVER GAS CORPORATION Address _____ Date 02-06-98

Source D-1 DISCHARGE Date Sampled 02-05-98 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.0</u>		
2. H ₂ S (Qualitative)	<u>0</u>		
3. Specific Gravity	<u>1.008</u>		
4. Dissolved Solids		<u>9,459</u>	
5. Alkalinity (CaCO ₃)	CO ₃	<u>0</u>	+ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	<u>3,900</u>	+ 61 <u>64</u> HCO ₃
7. Hydroxyl (OH)	OH	<u>0</u>	+ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>2,500</u>	+ 35.5 <u>70</u> Cl
9. Sulfates (SO ₄)	SO ₄	<u>0</u>	+ 48 <u>0</u> SO ₄
10. Calcium (Ca)	Ca	<u>56</u>	+ 20 <u>3</u> Ca
11. Magnesium (Mg)	MG	<u>0</u>	+ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>140</u>	
13. Total Iron (Fe)		<u>1.3</u>	
14. Manganese			
15. Phosphate Residuals		<u>44</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>3</u>			<u>243</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00		<u>61</u>		<u>5,124</u>
Na ₂ SO ₄	71.03				
NaCl	58.46		<u>70</u>		<u>4,092</u>

Saturation Values	Distilled Water 20°C
CaCO ₃	13 Mg/l
CaSO ₄ · 2H ₂ O	2,090 Mg/l
MgCO ₃	103 Mg/l

REMARKS _____

Statement of the Injection Pressures

→ where?

The proposed average and maximum injection pressures have been previously submitted to your office. Additional copies can be made available upon request.

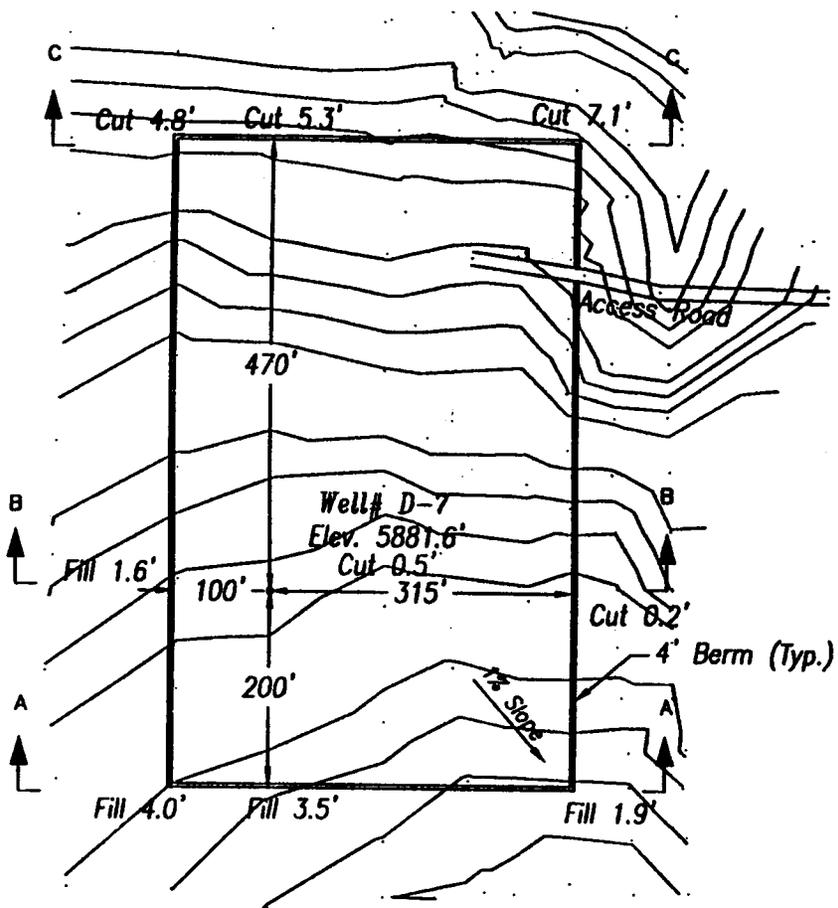
Statement of Geologic and Hydrologic Data

All available geologic and hydrologic data have been previously submitted to your office. Additional copies can be made available upon request.

Exhibit "H"

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.



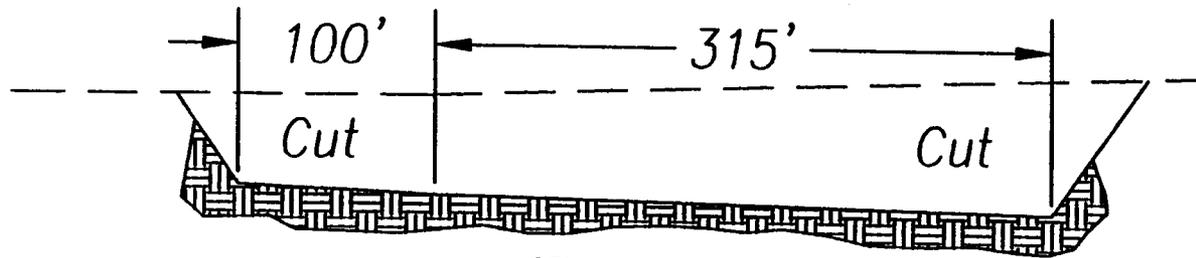
Elevation Ungraded Ground at Location Stake = 5881.6'
 Elevation Graded Ground at Location Stake = 5881.1'



Exhibit "A"
 2 OF 3

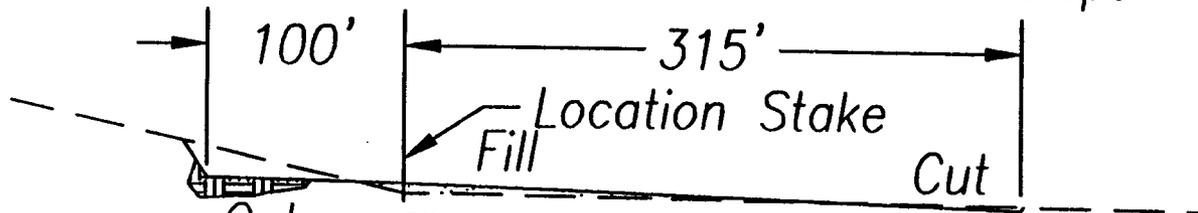
DRAWN BY: P. BOYLEN CHECKED BY: L.W.J. DATE: 2/9/98 SCALE: 1"=200' SHEET NO.: 244 PROJECT NO.: A-2 SHEET 2 OF 4	 <p>3200 South 125 West P.O. Box 84581 Provo, Utah 84601 (801) 637-8300 FAX (801) 637-2833</p> <p>Service</p> <p>River Gas Corporation Location Layout Section 2, T16S, R9E, S.L.B.&M. Well # D-7</p>
---	--

1" = 10'
 X-Section
 Scale
 1" = 100'

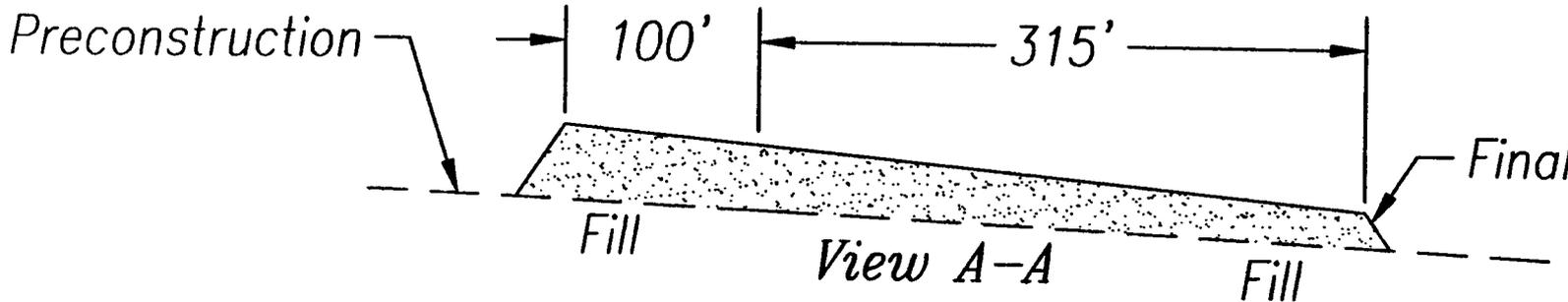


View C-C

Slope = 1 1/2 : 1



View B-B



View A-A

Exhibit "A"
3 of 3

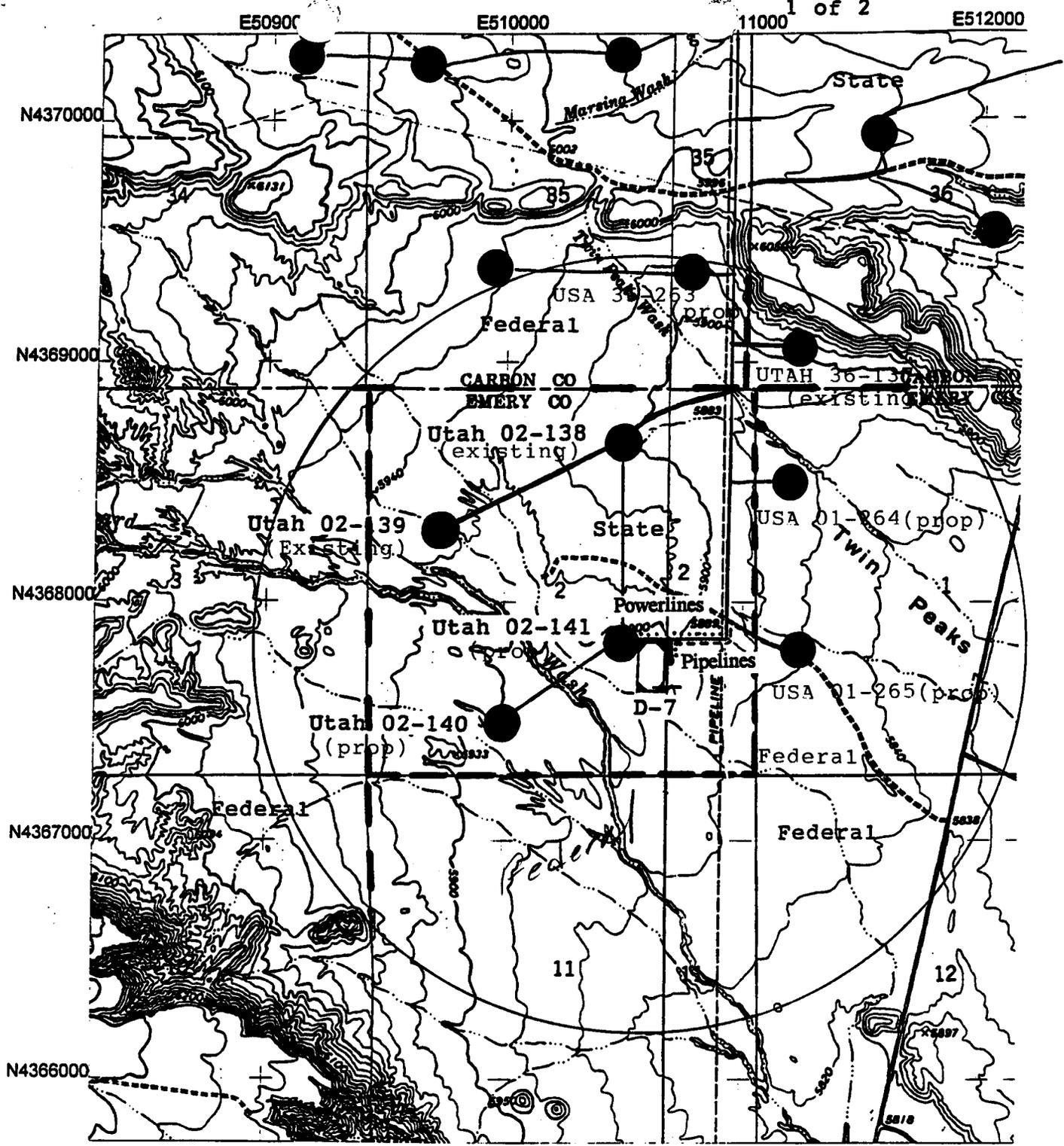
APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 5,200.0 Cu. Yds.
Remaining Location	= 21,585.1 Cu. Yds.
TOTAL CUT	= 26,785.1 Cu. Yds.
TOTAL FILL	= 5,410.4 Cu. Yds.

DRAWN BY:
P. BOYLEN
 CHECKED BY:
L.W.J.
 DATE:
2/9/98
 SCALE:
As Shown
 SHEET NO.:
244
 DRAWING NO.:
C-1
 SHEET 3 of 4

Castle Valley
 3200 South 125 West
 Provo, Utah 84601
 (801) 637-2300
 FAX (801) 637-2333

Services
River Gas Corporation
 Typical Cross Sections
 Section 2, T16S, R9E, S.L.B.&M.
 Well# D-7



Proposed D-7

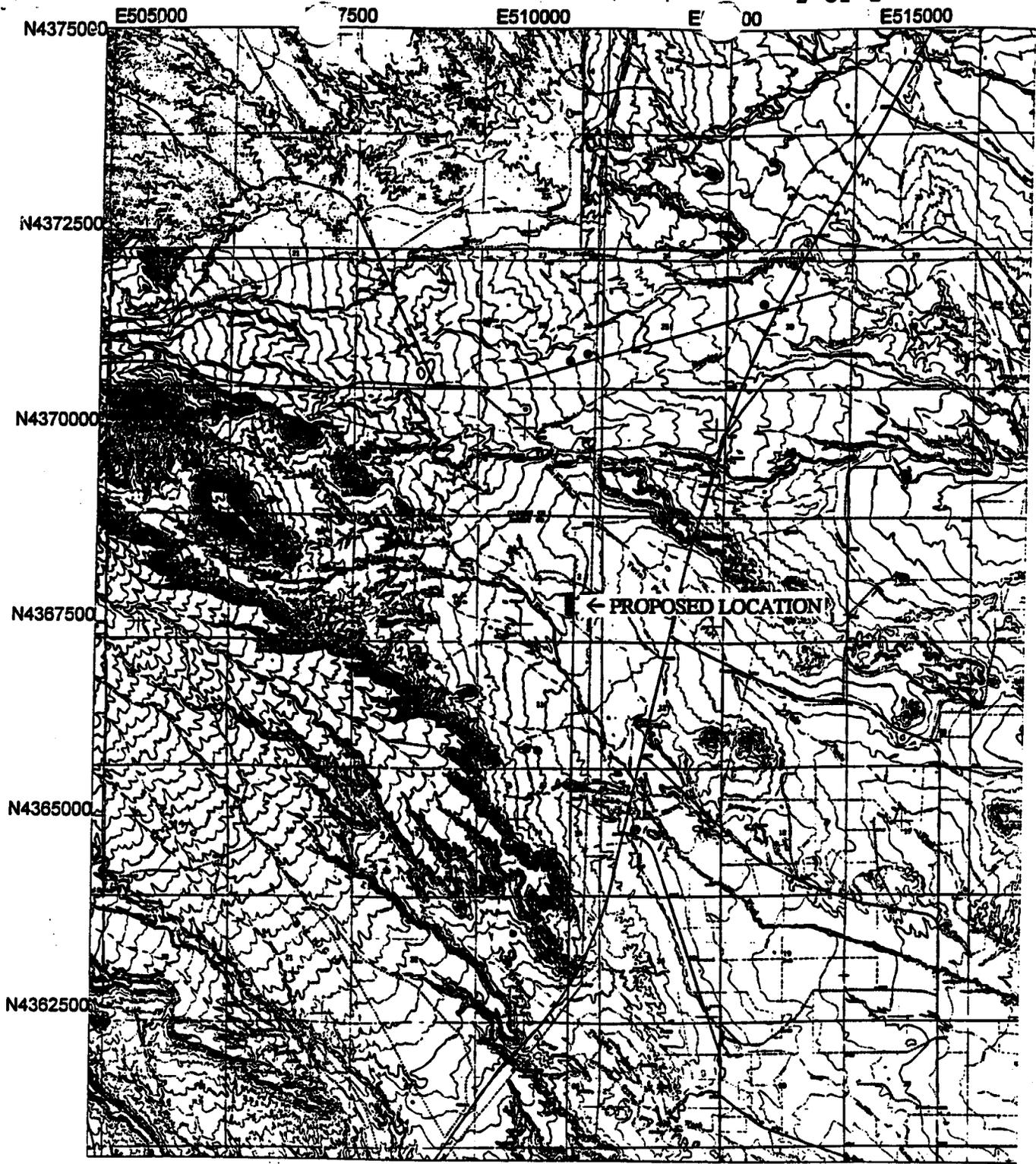
Universal Transverse Mercator
North 12
NAD83 (Conus)

N

Scale 1:24000

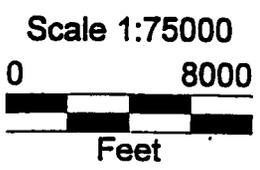


2/6/1998
Pathfinder Office™
Trimble



Proposed D-7

Universal Transverse Mercator
North 12
NAD83 (Conus)



2/5/1998
Pathfinder Office™
Trimble

RGC

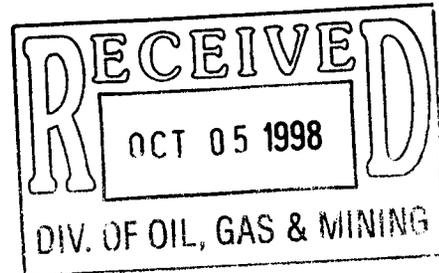
COPY

RIVER GAS CORPORATION

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

CONFIDENTIAL

October 2, 1998



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 – Utah D-7
SW/4, SE/4, Section 2,
T16S, R9E, SLB&M, Emery County Utah

Dear Mr. Hunt:

Enclosed is 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;

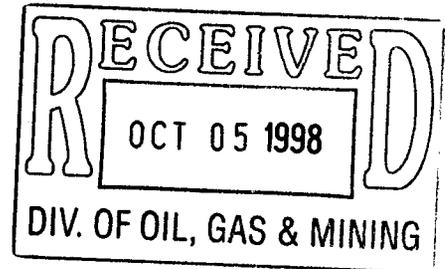
Thank you for your timely consideration of this application. Please feel free to contact me if you have any questions or find any deficiencies.

Sincerely,

Don S. Hamilton

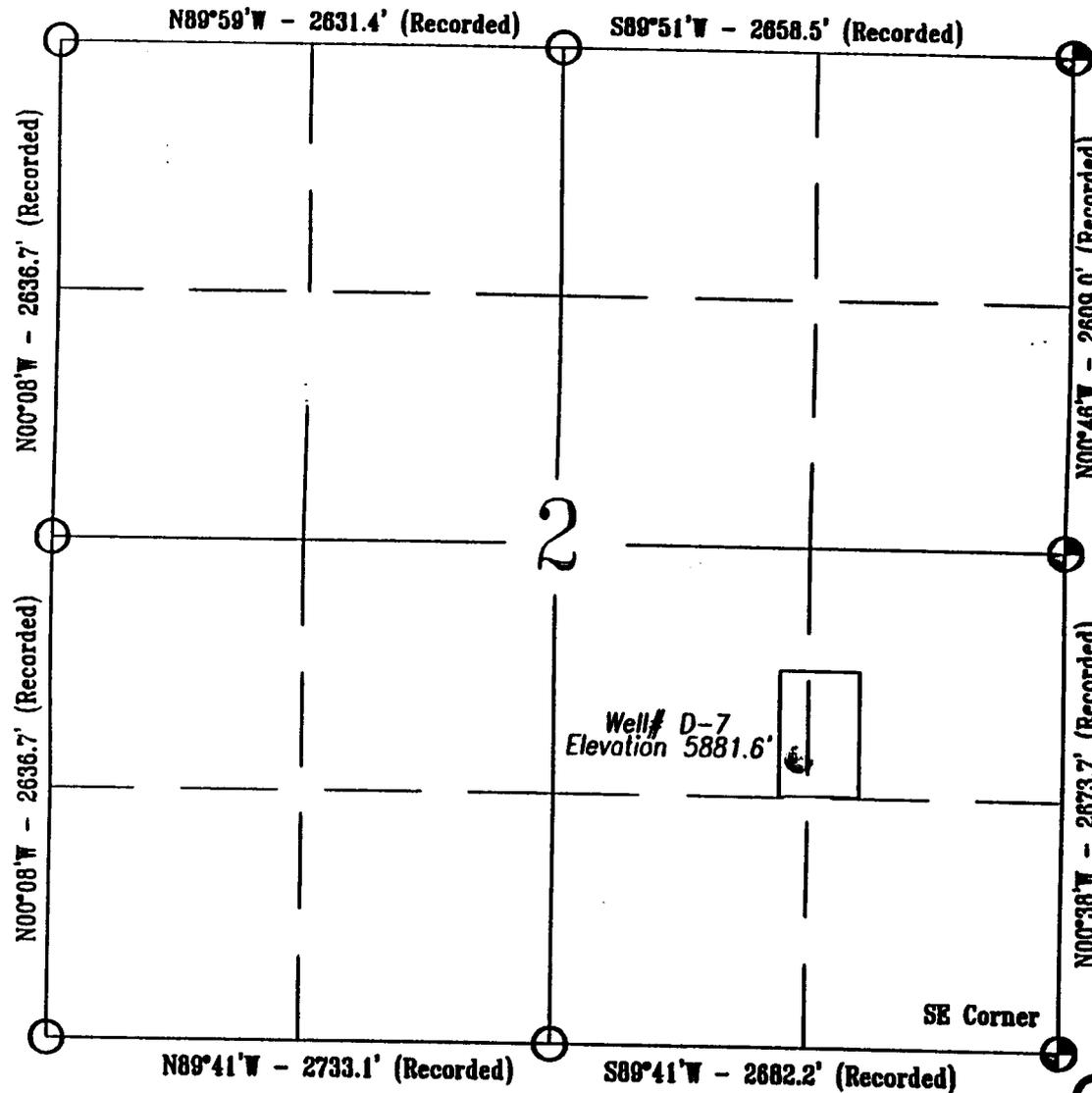
Don S. Hamilton
Permit Specialist

cc: Mr. R.A. Lamarre, Texaco
Mr. Chuck Snure, Texaco
Mr. Gee Lake, Jr., Dominion Resources
Mrs. Tammie Butts, RGC
Mr. Joey Stephenson, RGC
Mr. Dennis Plowman, RGC
RGC Well File - Utah D-7



Range 9 East

Township 16 South



Basis of Bearing:

Basis of Bearing S89°52'W recorded between the SW Corner of Section 36 Township 15 South, Range 9 East, and the North Quarter Corner of Section 1, Township 16 South, Range 9 East, Salt Lake Base & Meridian.

Basis Of Elevation:

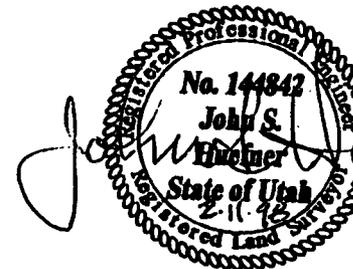
Basis of Elevation of 5827' as indicated in the UDOT R.O.W Marker in Section 12, Township 16 South, Range 9 East, Salt Lake Base and Meridian.

Description of Location:

Proposed Drill Hole located in the NW 1/4 SE1/4 of Section 2; 1370.8' North and 1529.5' West from the SE Corner of Section 2, 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.

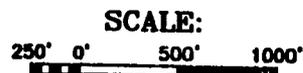


John S. Huefner

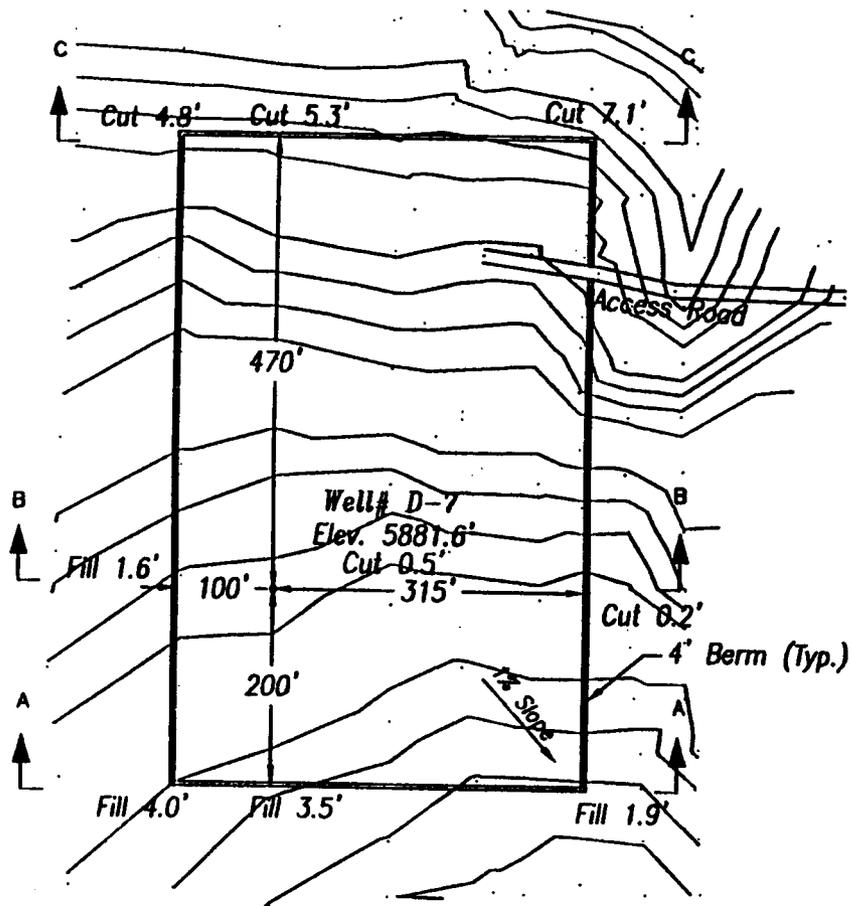
Exhibit "A"
1 OF 3

LEGEND:

- Drill Hole Location
- Brass Cap (Found)
- Brass Cap (Searched for, But Not Found)



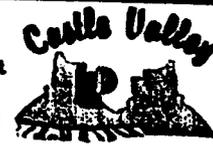
DRAWN BY: P. BOYLEN CHECKED BY: L.W.J. DATE: 2/10/98 SCALE: 1"=1000' JOB NO.: 244 DRAWING NO.: A-1 SHEET 1 OF 4	<p>2204 South 125 West Preston, Utah 81501 (801) 637-2300 FAX (801) 637-2833</p> <p>River Gas Corporation Well # D-7 Section 2, T16S, R9E, S.L.B.&M. Carbon County, Utah</p>
---	---



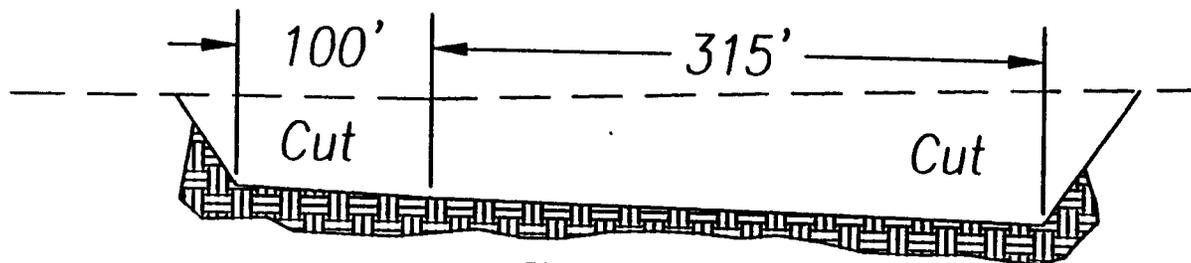
Elevation Ungraded Ground at Location State = 5881.6'
 Elevation Graded Ground at Location State = 5881.1'



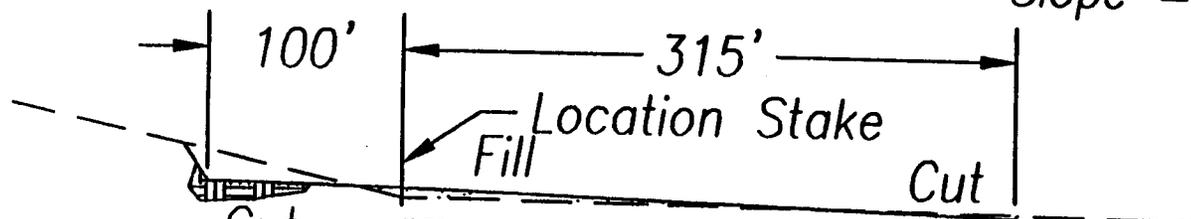
Exhibit "A"
 2 OF 3

DRAWN BY: P. BOYLEN CHECKED BY: L.W.J. DATE: 2/9/98 SCALE: 1"=200' SHEET NO.: 244 DRAWING NO.: A-2 SHEET 2 OF 4	<div style="text-align: right;">  </div> <p> Castle Valley 3200 South 125 West P.O. Box 81581 (801) 637-8300 FAX (801) 637-2833 </p> <p style="text-align: center;">Services</p> <p style="text-align: center;"> River Gas Corporation Location Layout Section 2, T16S, R9E, S.L.B.&M. Well # D-7 </p>
---	--

1"=10'
X-Section
Scale
1"=100'

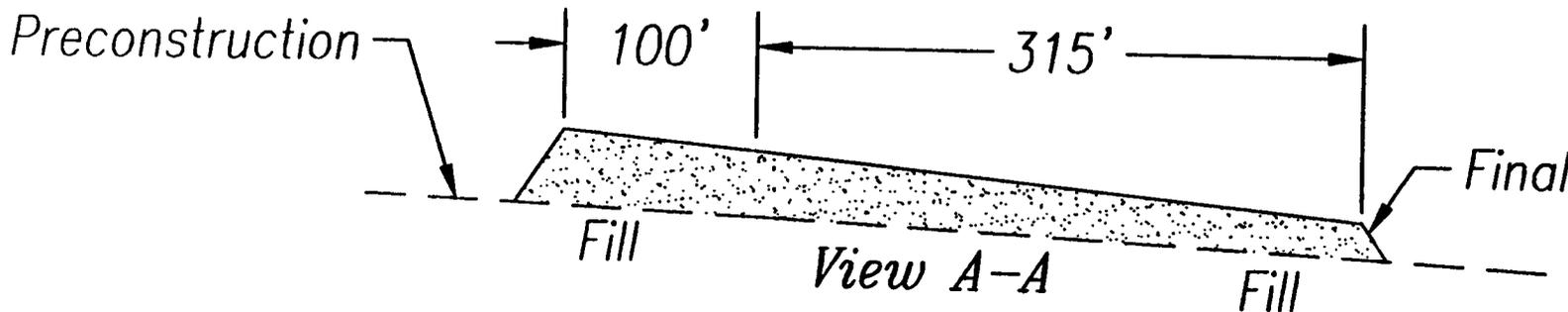


View C-C



View B-B

Slope = 1 1/2 : 1



View A-A

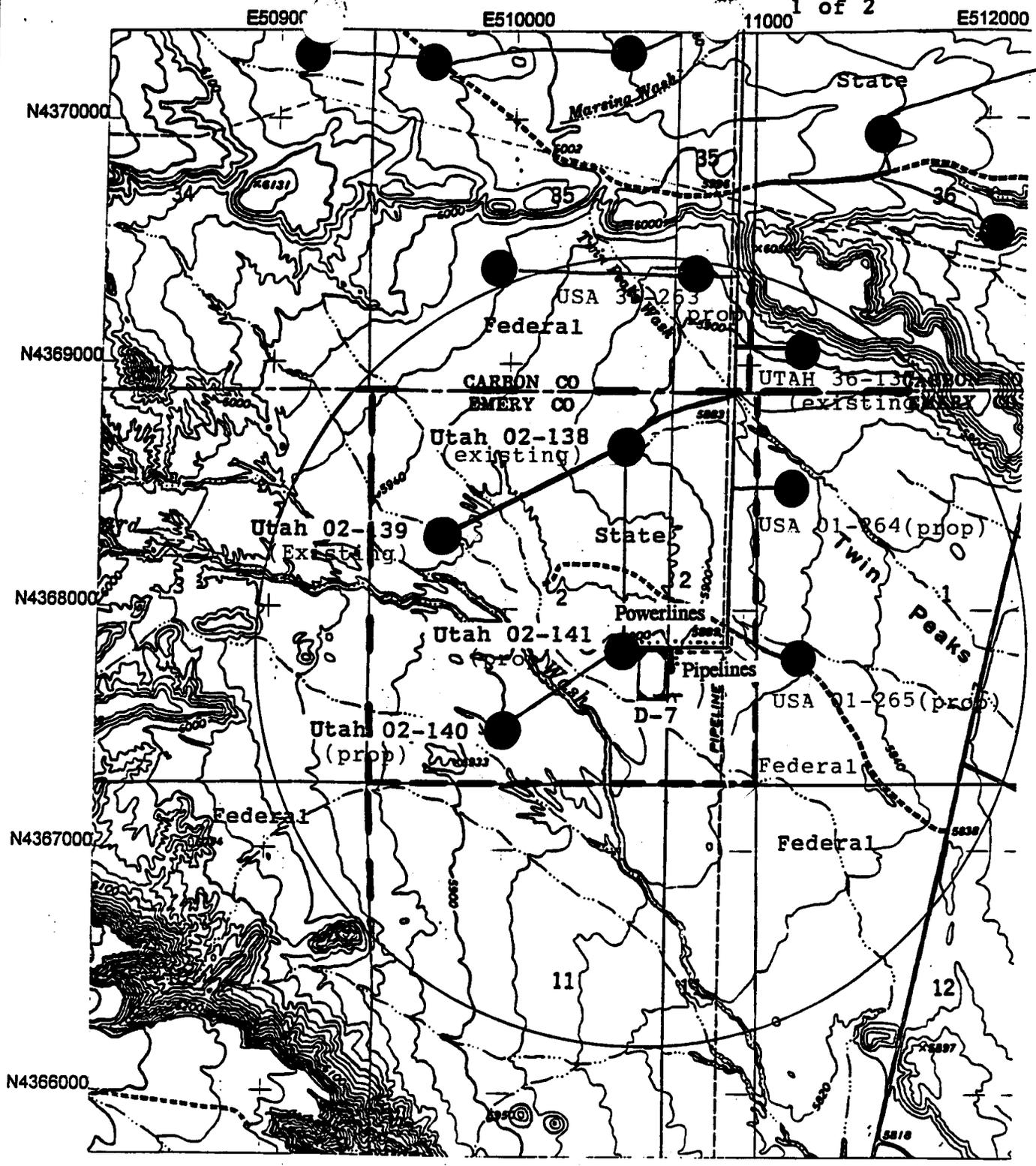
APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 5,200.0 Cu. Yds.
Remaining Location	= 21,585.1 Cu. Yds.
TOTAL CUT	= 26,785.1 Cu. Yds.
TOTAL FILL	= 5,410.4 Cu. Yds.

DRAWN BY:
P. BOYLEN
 CHECKED BY:
L.W.J.
 DATE:
2/9/98
 SCALE:
As Shown
 JOB NO.
244
 DRAWING NO.
C-1
 SHEET **3** OF **4**

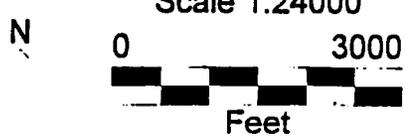
Castle Valley
 2209 South 125 West
 Provo, Utah 84601
 (801) 637-2300
 FAX (801) 637-2333

Section
River Gas Corporation
 Typical Cross Sections
 Section 2, T16S, R9E, S1.B.&M.
 Well# D-7

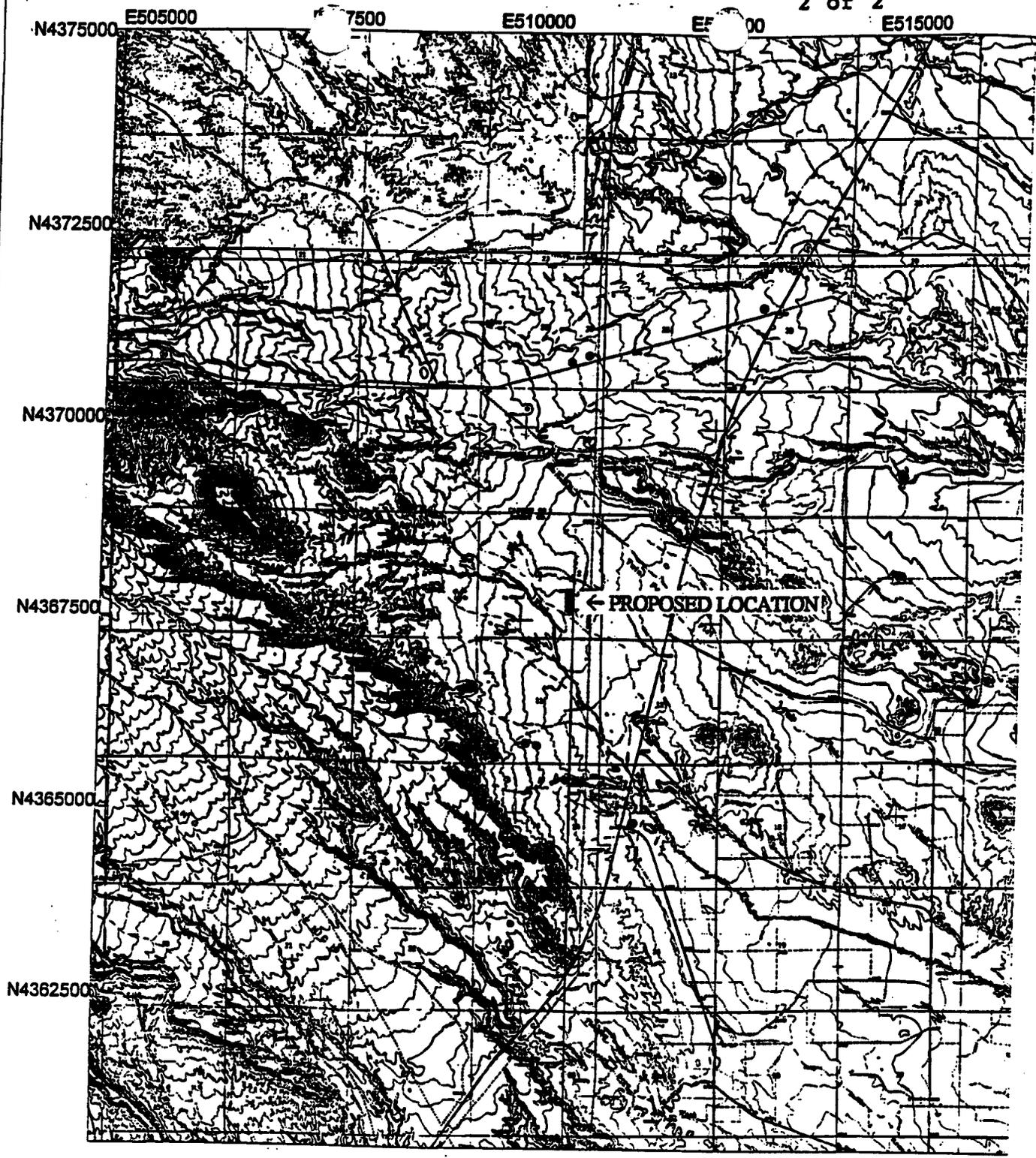


Proposed D-7

Universal Transverse Mercator
North 12
NAD83 (Conus)

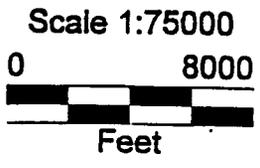


2/6/1998
Pathfinder Office™
Trimble



Proposed D-7

Universal Transverse Mercator
North 12
NAD83 (Conus)



2/5/1998
Pathfinder Office™
 Trimble

Exhibit "C"

Statement Regarding Logs Performed on the Well

Logs compiled on the Utah D-7 well have been previously submitted to your office. The Cement Bond Log for the well is enclosed detailing the casing test performed on the well.

Description of the Casing Program

Conductor Casing Description:

13-3/8" 48#/ft, H-40, ST&C SMLS, installed from 45' to 325'

Surface Casing Description:

9-5/8" 36#/ft, K-55 ST&C SMLS, installed from 325' to 2350'

Production Casing Description:

7" 26#/ft, K-55, installed from 2350' to 6573'

Date: 9/17/98

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

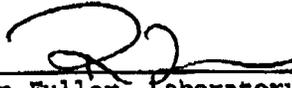
Group #: 25016
 Lab #: 98-U007361
 Sample Desc: Navajo
 Packer @ 5634', Bridge Plug @ 5740'
 Sample Matrix: WATER
 Date Sampled: 8/30/98
 Date Submitted: 9/2/98

Time Sampled:
 Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	841	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	690	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	87,400	500	9/3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	159,000	0.1	9/4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	6.3	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	6.4	0.1	9/2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.099	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	4,200	1000	9/9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	154,000	250	9/8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	842	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	50.8	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	223	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	4,130	8	9/16/98 13:36	EPA 200.7	EG

Approved By:


 Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 1

(generic.rpt)

8100 SOUTH STRATLER
 SALT LAKE CITY UTAH 84107 6905
 801 262 7299 PHONE
 801 262 7378 FAX

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Exhibit "E" 2 of 5

Date: 9/17/98

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

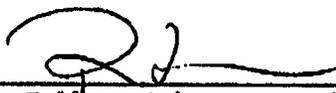
Group #: 25016
Lab #: 98-U007361
Sample Desc: Navajo
Packer @ 5634', Bridge Plug @ 5740'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/ 2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Receiving Temperature, C	3.2		9/ 2/98 13:00		RCG

NOTE: Sample not received on ice.

Approved By: 

Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 2

(generic.rpt)

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

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Exhibit "E" 3 of 5

Date: 9/17/98

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

Group #: 25016
 Lab #: 98-U007362
 Sample Desc: D-7 Disposal Wingate
 Packer @ 6160', Bridge Plug @ 6250'
 Sample Matrix: WATER
 Date Sampled: 8/30/98
 Date Submitted: 9/2/98

Time Sampled:
 Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	1,700	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	1,400	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	69,600	200	9/ 3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	138,900	0.1	9/ 4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	7.2	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	7.0	0.1	9/ 2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.072	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	3,060	1000	9/ 9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	120,000	250	9/ 8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	561	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	341	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	122	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	3,060	8	9/16/98 13:36	EPA 200.7	EG

Approved By:


 Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 3

(generic.rpt)

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

Date: 9/17/98

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

Group #: 25016
Lab #: 98-U007362
Sample Desc: D-7 Disposal Wingate
Packer @ 6160', Bridge Plug @ 6250'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/ 2/98

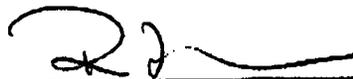
Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Receiving Temperature, C	2.8		9/ 2/98 13:00		RCG

NOTE: Sample not received on ice.

Approved By:


Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 4

(generic.rpt)

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84137 8905
801 262 7299 PHONE
801 262 7378 FAX

UNICHEM

A Division of BJ Services

COMPOSITE OF PRODUCED WATER TO BE REJECTED

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

Exhibit "E" 5 of 5

WATER ANALYSIS REPORT

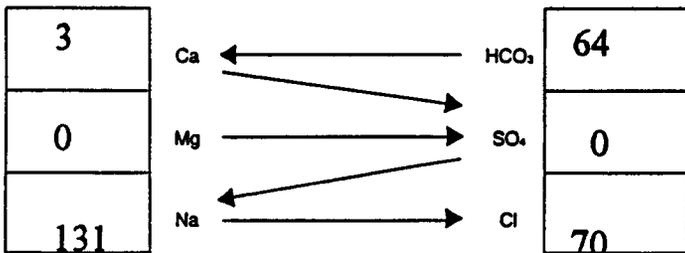
Company RIVER GAS CORPORATION Address _____ Date 02-06-98

Source D-1 DISCHARGE Date Sampled 02-05-98 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.0</u>		
2. H ₂ S (Qualitative)	<u>0</u>		
3. Specific Gravity	<u>1.008</u>		
4. Dissolved Solids		<u>9,459</u>	
5. Alkalinity (CaCO ₃)		CO ₃ <u>0</u>	+ 30 <u>0</u> CO ₃
6. Bicarbonate (HCO ₃)		HCO ₃ <u>3,900</u>	+ 61 <u>64</u> HCO ₃
7. Hydroxyl (OH)		OH <u>0</u>	+ 17 <u>0</u> OH
8. Chlorides (Cl)		Cl <u>2,500</u>	+ 35.5 <u>70</u> Cl
9. Sulfates (SO ₄)		SO ₄ <u>0</u>	+ 48 <u>0</u> SO ₄
10. Calcium (Ca)		Ca <u>56</u>	+ 20 <u>3</u> Ca
11. Magnesium (Mg)		Mg <u>0</u>	+ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>140</u>	
13. Total Iron (Fe)		<u>1.3</u>	
14. Manganese			
15. Phosphate Residuals		<u>44</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>3</u>			<u>243</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>61</u>			<u>5,124</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>70</u>			<u>4,092</u>

Saturation Values	Distilled Water 20°C
CaCO ₃	13 Mg/l
CaSO ₄ · 2H ₂ O	2,090 Mg/l
MgCO ₃	103 Mg/l

REMARKS _____

Exhibit "F"

Statement of the Injection Pressures

The proposed average and maximum injection pressures have been previously submitted to your office. Additional copies can be made available upon request.

Statement of Geologic and Hydrologic Data

All available geologic and hydrologic data have been previously submitted to your office. Additional copies can be made available upon request.

Exhibit "H"

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.

River Gas Corporation

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

RGC

To: Chris Kierst From: Don Hamilton

Fax: 1-801-359-3940 Pages: 2

Phone: _____ Date: 10-13-98

Re: updated D-7 map CC: _____

Urgent For Your Review FYI Please Reply Please Recycle

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

E610000

E512000

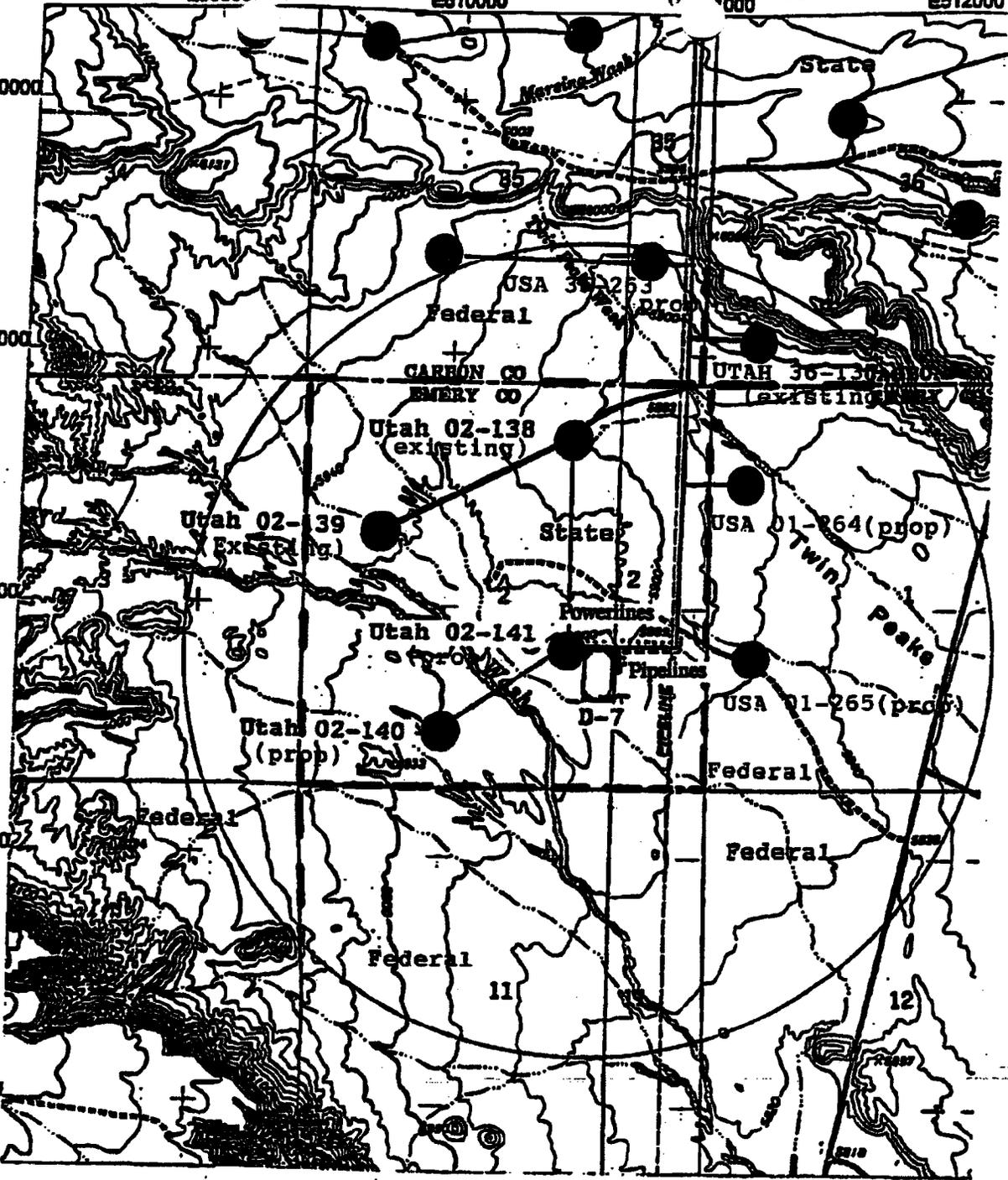
N4370000

N4389000

N4388000

N4387000

N4386000



Proposed D-7

Universal Transverse Mercator
North 12
NAD83 (Conus)

N

Scale 1:24000



2/6/1998
Pathfinder Office™
Trimble



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

Michael O. Leavitt
Governor
Ted Stewart
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 15, 1998

Newspaper Agency Corporation
Legal Advertising
PO Box 45838
Salt Lake City, Utah 84145

Re: Notice of Agency Action - Cause No. UIC-231

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

A handwritten signature in cursive script that reads "Lorraine Platt".

Lorraine Platt
Secretary

Enclosure

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-231
THE UTAH D7 WELL LOCATED IN	:	
SECTION 2, TOWNSHIP 16 SOUTH,	:	
RANGE 9 EAST, 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 Utah D7 well, located in Section 2, Township 16 South, Range 9 East, 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 interval from 6028 feet to 6580 feet (Navajo Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 1600 psig with a maximum rate of 14,400 BWPD.

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 15th day of October, 1998.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING


John R. Baza
Associate Director

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR	River Gas Corporation	River Gas Corporation
ADDRESS	1305 South 100 East	511 Energy Center Blvd.
	Price, UT 84501	Northport, AL 35473

Well name and number: Utah D7

Field or Unit name: Drunkards Wash UTU-67921X Lease no. ML-46094

Well location: Q0SW/SE section 2 township 16 range 9 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: 8/28/98 API Number: 43-015-30338

Proposed injection interval: from 6028' to 6580'

Proposed maximum injection: rate 14,400 BBL pressure 1,600 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	<u>Don S. Hamilton</u>	Signature	<u>Don S. Hamilton</u>
Title	<u>Permit Specialist</u>	Date	<u>October 15, 1998</u>
Phone No.	<u>(435) 637-8876</u>		

(State use only)
 Application approved by _____ Title _____
 Approval Date _____

Comments:



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

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)

Michael O. Leavitt
Governor

Lowell P. Braxton
Division Director

October 15, 1998

Sun Advocate
P. O. Box 870
845 East Main
Price, Utah 84501-0870

Re: Notice of Agency Action - Cause No. UIC-231

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, P.O. Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Lorraine Platt

Lorraine Platt
Secretary

Enclosure

**River Gas Corporation
Utah D7 Well
Cause No. UIC-231**

Publication Notices were sent to the following:

River Gas Corporation
1305 South 100 East
Price, Utah 84501

Newspaper Agency Corporation
Legal Advertising
P.O. Box 45838
Salt Lake City, Utah 84145

Sun Advocate
P. O. Box 870
845 East Main
Price, Utah 84501-0870

Bureau of Land Management
Price Field Office
125 South 600 West
Price, Utah 84501

U.S. Environmental Protection Agency
Region VIII
Attn: Dan Jackson
999 18th Street
Denver, Colorado 80202-2466

Lorraine Platt

Lorraine Platt
Secretary
October 15, 1998

MAY 06 '96 12:58PM STIM-LAB, INC.

P. 2/4



7406 N. 81 HIGHWAY • P. O. BOX 1644 • DUNCAN, OKLAHOMA 73534
TELEPHONE 405/252-4309 • FAX NUMBER 405/252-6979

GLENN PENNY
President

May 6, 1996

John Hollingshead
River Gas Corp.
3600 Watermelon Rd..
Suite 205
Northport, AL 35476

RE: Analysis of Injection Water Compatibility with Navajo Connate Water, Project SL 4377

Dear Mr. Hollingshead,

STIM-LAB Inc. has completed both water analysis and simple compatibility study for mixing the proposed injection water at Drunkards Wash Field with a connate water sample from the proposed injection zone of the D-3 disposal well. Table 1 gives the analysis of both waters as received. Since neither were maintained in a pressurized state, the pH and carbonate values are most probably higher than would be the case in their natural state due to CO₂ release. Also, a considerable amount of precipitation of iron carbonate hydrate was present in the bottom of the connate water sample. Therefore, the dissolved iron value for this sample is most probably low. This may be the case also for the injection water as it was obtained from the holding pond where some settling of any precipitant may have also occurred. Previous experience with this injection water has shown that it has in the past precipitated iron carbonate hydrate requiring filtration before injection.

The compatibility study looked at mixing the two waters at three volume ratios as shown in Table 1. These were compared with a control mixed with deionized water. These show that some amount of carbonate formation occurred at all ratios with the injection water. A slight amount also occurred with the deionized water at the higher connate water ratio. The precipitant was mostly orange in color and readily soluble in 5% HCl with effervescence which would suggest at least a portion of it was iron carbonate hydrate. I would expect that with fresh samples maintained under pressure that the precipitation would be less or possibly not occur at all as CO₂ retained in solution would maintain a lower pH with mixing and limit precipitant formation.

STIMULATION FLUID TESTING SERVICES

MAY 06 '96 12:59PM STIM-LAB, INC.

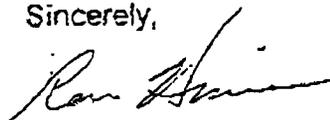
P. 3/4

Mr. John Hollingshead
May 6, 1996
Page 2

I understand an injection test was previously performed on the well with 6000 barrels of tap water. If the well was not flowed back and no formation crossflow is present, this should provide a suitable barrier to prevent any near-wellbore contact of fluids and limit the potential for scaling near the wellbore. If the well has been flowed since that time, I would recommend a preflush of tap water be injected ahead of the flood water. We can discuss the volumes further if needed. Keeping the injection water under pressure from the point of production to re-injection would also limit the amount of CO₂ evolution and reduce the possibility of carbonate formation. It should be pointed out that acid jobs performed on the D-1 well had minimal effect on injection pressure. This would indicate that carbonate precipitation near the wellbore was not a problem with the current injection system.

STIM-LAB Inc. appreciates the opportunity work with you on this project. If you have any questions regarding this testing, please feel free to give Mike Conway or myself a call.

Sincerely,



Ron Himes, Group Leader
Core Testing Group

RH



STIM-LAB
Inc.

Table 1
 SL 4377
 River Gas Corporation
 D-3 Connate and Injection Water Analysis
 Analyzed 5/1-5/2/96

	<u>Injection</u>	<u>Connate</u>
pH	8.71	6.14
Carbonate	420 mg/L	0 mg/L
Bicarbonate	3890 mg/L	705 mg/L
Chlorides	2518 mg/L	116163 mg/L
TDS	8402 mg/L	217264 mg/L
Sulfate	<1.6 mg/L	3390 mg/L
Calcium	17.5 mg/L	1390 mg/L
Magnesium	15.8 mg/L	465 mg/L
Iron	<2.5 mg/L	10.9 mg/L
Aluminum	<5.0 mg/L	<5.0 mg/L
Sodium	2600 mg/L	78500 mg/L
Potassium	63 mg/L	1500 mg/L
Hardness	109 mg/L	5386 mg/L

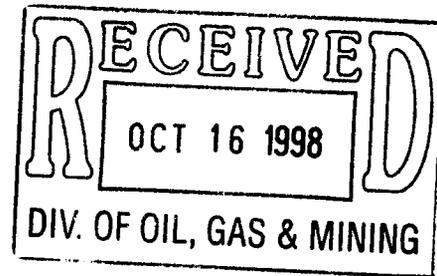
**Examination of Injection and
 Connate Water Compatibility**

Mixing Ratio Connate/Injection	FeCO ₃ /CaCO ₃ (mg/L.)	Final pH
75/25	95	6.88
50/50	127	7
25/75	85	7.38
Mixing Ratio Connate & DI		
75/25	24	6.68
50/50	1	6.78
25/75	0	6.97



RIVER GAS CORPORATION

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



October 15, 1998

Mr. Chris Kierst, Inspector
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

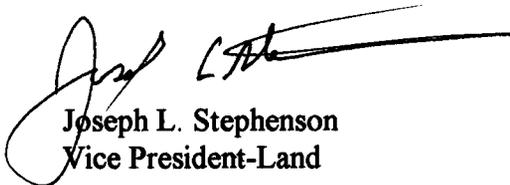
Re: Affidavit - Proposed Disposal Well - D-7
Emery County, Utah

Dear Mr. Kierst:

In accordance with State regulation #R649-5-2(Subpart 2.12), please find enclosed the Affidavit for the D-7 disposal well in Section 2, T16S, R9E, Emery County, Utah.

If you have any questions, please advise.

Sincerely yours,


Joseph L. Stephenson
Vice President-Land

Enc.

STATE OF ALABAMA)
)
) :ss.
COUNTY OF TUSCALOOSA)

(D-7)

**AFFIDAVIT OF NOTIFICATIONS MAILED REGARDING PROPOSED DRILLING
OF A WELL AND TESTING FOR POSSIBLE USE AS AN INJECTION WELL**

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, reviewing title records and legal opinions affecting lands where RGC proposes to conduct operations, and providing notice to certain parties that may be affected by proposed operations.

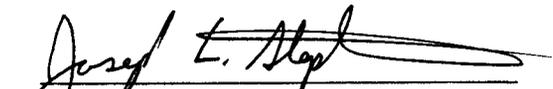
3. RGC drilled a well on land owned by the State of Utah in the SW1/4 of SE1/4 of Section 2, T16S, R9E, S1M, Emery County, Utah. It is RGC's intention to utilize the well as an injection (water disposal) well upon approval of a permit from the Division of Oil, Gas and Mining ("DOGMA").

4. Attached hereto as EXHIBIT "A" is a map showing the location of the well intended to be used as an injection well. The map also shows a 1/2 mile radius drawn around said well. The identification of the ownership of the tracts within that 1/2 mile radius is provided, said ownership based on title opinions prepared by the Salt Lake City, Utah law firm of Pruitt, Gushee & Bachtell and which constitute official records of RGC, and information obtained subsequent to the preparation of those title opinions.

5. Attached hereto as EXHIBIT "B" is a listing of parties that were sent letters giving notice of the Application for Injection Well which RGC submitted to the DOGM. The letters identified the tract(s) within the 1/2 mile radius of said well in which said party owned an interest, the intent of RGC to seek approval to use the well as an injection well, a copy of the Application for Injection Well was provided, the address and telephone number for the DOGM was provided in the event the party had a question on the permitting of the well, and RGC offered to provide said parties with additional information associated with the Application for Injection Well if the party made a written request to RGC.

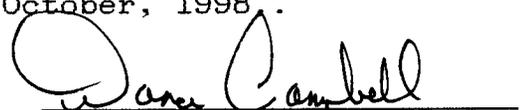
6. The matters stated herein are true of my own knowledge, except to any matters stated herein upon information and belief, and, as to those matters, I believe them to be true.

DATED this 15th day of October, 1998.



JOSEPH L. STEPHENSON

Subscribed, sworn and acknowledged to and by Joseph L. Stephenson before me this 15th day of October, 1998.



NOTARY PUBLIC
Residing at:
6231 Hibiscus Lane
Northport, AL 35473



My Commission Expires: _____

908 WATTIS 7 MI. 2170000 FEET 510 110°52'30" 511000m E 512 R 9 E R 10 E

EXHIBIT "A"
PAGE 1 OF 2

**River Gas Corporation
Proposed Disposal Well D-7
SW/SE, Section 2, T16S, R9E, S1M
Emery County, Utah
Operators, Owners, Surface Owners Within 1/2 Mile Radius**



Quads: Elmo & Poison Spring Bench, Utah
Scale: 1" = 2000'
See schedule for Tract owner identification
Exhibit Prepared by:

Joseph L. Stephenson, May 6, 1998

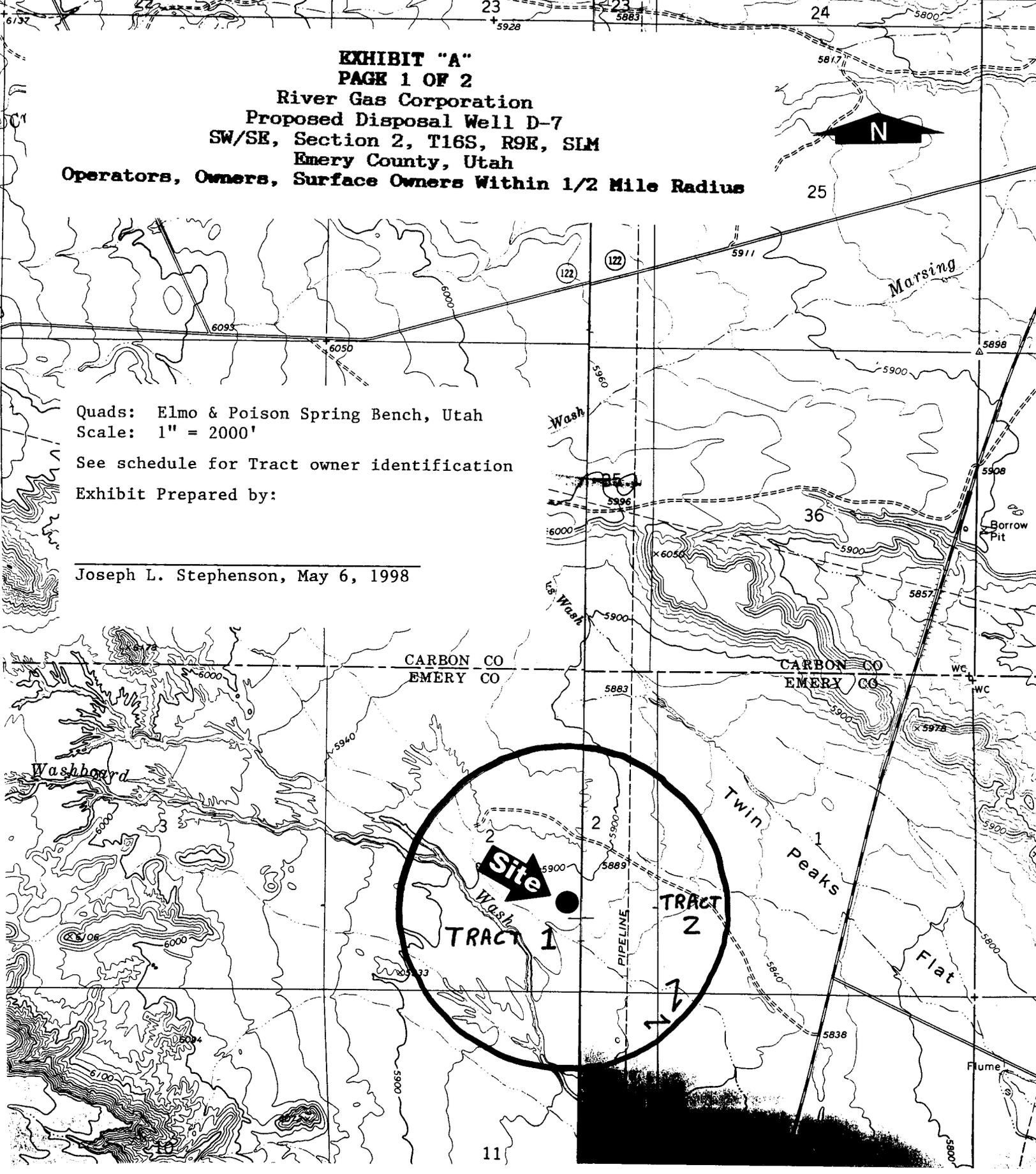


EXHIBIT "A"

PAGE 2 OF 2

River Gas Corporation
Proposed Disposal Well D-7
SW/SE, Section 2, T16S, R9E, SLM
Emery County, Utah

Operators, Owners, Surface Owners Within 1/2 Mile Radius

TRACT 1

Surface Owner:	State of Utah, c/o School and Institutional Trust Lands Administration
Mineral Owner:	State of Utah, c/o School and Institutional Trust Lands Administration
Oil & Gas Lease:	ML-46094
Oil & Gas Lessee:	River Gas Corporation & Texaco Exploration and Production Inc.
Coal Lease:	None of record
Coal Lessee:	Not applicable
Other Minerals Lessee:	None of record
Grazing Permittee:	Boyd L. Marsing
Oil & Gas Operator:	River Gas Corporation

TRACT 2

Surface Owner:	United States of America
Mineral Owner:	United States of America all minerals
Oil & Gas Lease:	UTU-65298
Oil & Gas Lessee:	River Gas Corporation & Texaco Exploration and Production Inc.
Coal Lease:	None of record
Coal Lessee:	Not applicable
Other Minerals Lessee:	None of record
Grazing Permittee:	Unknown - None of record
Oil & Gas Operator:	River Gas Corporation

NOTE: OVERRIDING ROYALTY OWNERS, IF ANY, ARE NOT IDENTIFIED IN ACCORDANCE WITH RIVER GAS CORPORATION'S PREVIOUS INQUIRY TO THE DIVISION OF OIL, GAS AND MINING AS TO NEED FOR THAT INFORMATION.

EXHIBIT "B"

PAGE 1 OF 1

River Gas Corporation
Proposed Disposal Well D-7
SW/SE, Section 2, T16S, R9E, SLM
Emery County, Utah

Operators, Owners, Surface Owners Within 1/2 Mile Radius

River Gas Corporation
ATTENTION: Joseph L. Stephenson
Vice President - Land
511 Energy Center Blvd.
Northport, AL 35473

NOT APPLICABLE; RGC
ORIGINATED NOTICES TO
THE OTHER PARTIES

Texaco Exploration and Production Inc.
ATTENTION: Mr. Chuck Snure
Denver Division
Denver, CO 80201

FEDERAL EXPRESS DELIVERY
LETTER DATED: October 2, 1998
DELIVERY DATE: October 6, 1998

United States of America
U. S. Department of the Interior
Bureau of Land Management
Moab District Office
P. O. Box 970
Moab, UT 84532

CERTIFIED MAIL
LETTER DATED: October 2, 1998
DELIVERY DATE: October 8, 1998

United States of America
U. S. Department of the Interior
Bureau of Land Management
Price Resource Area
900 North 700 East
Price, UT 84501

HAND DELIVERY BY RGC EMPLOYEE
LETTER DATED: October 2, 1998
DELIVERY DATE: October 5, 1998

United States of America
U. S. Department of the Interior
Bureau of Land Management
324 South State, Suite 301
Salt Lake City, UT 84111-2303

HAND DELIVERY BY COURIER SERVICE
LETTER DATED: October 2, 1998
DELIVERY DATE: October 6, 1998

State of Utah
c/o School and Institutional
Lands Administration
675 East 500 South, Suite 500
Salt Lake City, UT 84102

HAND DELIVERY BY COURIER SERVICE
LETTER DATED: October 2, 1998
DELIVERY DATE: October 6, 1998

NOTE: OVERRIDING ROYALTY OWNERS, IF ANY, ARE NOT IDENTIFIED IN ACCORDANCE WITH RIVER GAS CORPORATION PREVIOUS INQUIRY TO THE DIVISION OF OIL, GAS AND MINING AS TO WHO SHOULD BE SERVED NOTICE.

RGC

RIVER GAS CORPORATION

511 Energy Center Blvd.
Northport, Alabama 35473
Phone (205) 759-3282
Fax (205) 759-3188

DATE: 10-19-98

TIME: _____

TO: GIL HUNT

DOGM

FAX # _____

FROM: JOHN HOLLINGSHEAD

SUBJECT: _____

MESSAGE:

ORIGINALS IN THE MAIL.

THIS TRANSMISSION CONSISTS OF 7 PAGE (S) INCLUDING THIS COVER SHEET. IF AN INCOMPLETE TRANSMISSION IS RECEIVED, PLEASE CONTACT RIVER GAS CORPORATION AT (205) 759-3282



RIVER GAS CORPORATION

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

October 19, 1998

Mr. Gil Hunt
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-7 Disposal Well Permit

Dear Mr. Gil Hunt,

In response to the supplemental permitting information required for the D-7 Disposal Well located in the SW/4, SW/4 of Section 2, T16S, R7E in Emery County, Utah, the following statements are being submitted.

1. Compatibility of connate water with produced/injection fluids:
Attached are Chem-Tech reports describing the water chemistry for the D-7 Navajo & Wingate connate fluids, and a water compatibility study performed on a previously drilled disposal well (D-3) in the area. A review of this data shows that although some differences are noticed, no significant changes in the water chemistry exists which should make the fluids incompatible. River Gas request that this data be submitted as proof of compatibility between produced waters and the connate waters.
2. Pressure test of 7" casing:
On 8/28/98, a pressure test was conducted on the 7" casing in the D-7 disposal well. 1000 psig. of pressure was placed on the well and held for more than thirty minutes while the cement bond log was run from PBTD to 5500 feet. The bond log on record with your office should show in the remarks section as to this activity. A review of the log clearly shows how the cement bonding was improved with the additional 1000 psig. pressure. The people on location who witnessed this pressure test were: John Hollingshead (River Gas); Kriss Howard (Computalog); and Tom Jones (Flint Engg. & Construction).

Most Cordially,

A handwritten signature in cursive script, appearing to read "John Hollingshead".

John Hollingshead
Reservoir Engineer

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 9/17/98

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

Group #: 25016
Lab #: 98-U007361
Sample Desc: Navajo
Packer @ 5634', Bridge Plug @ 5740'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	841	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	690	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	87,400	500	9/ 3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	159,000	0.1	9/ 4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	6.3	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	6.4	0.1	9/ 2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.099	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	4,200	1000	9/ 9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	154,000	250	9/ 8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	842	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	50.8	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	223	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	4,130	8	9/16/98 13:36	EPA 200.7	EG

Approved By: 
Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 1

(generic.rpt)

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

CHEMTECH-FORD

ANALYTICAL LABORATORIES

Date: 9/17/98

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

Group #: 25016
Lab #: 98-U007362
Sample Desc: D-7 Disposal Wingate
Packer @ 6160', Bridge Plug @ 6250'
Sample Matrix: WATER
Date Sampled: 8/30/98
Date Submitted: 9/2/98

Time Sampled:
Time Received: 13:00

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Bicarbonate as HCO ₃ , mg/L	1,700	1	9/11/98 9:00	SM 2320B	TSM
Carbonate as CO ₃ , mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Hydroxide as OH, mg/L	< 2	2	9/11/98 9:00	SM 2320B	TSM
Alkalinity, Total (CaCO ₃), mg/L	1,400	1	9/11/98 9:00	SM 2320B	TSM
Chloride (D), mg/L	69,600	200	9/3/98 12:00	EPA 325.3	TSM
Conductance, Specific, umhos/cm	138,900	0.1	9/4/98 10:00	EPA 120.1	KRF
Resistivity, ohms/cm	7.2	0.1	9/17/98 15:30	Sm18 2510A	RBH
pH, units	7.0	0.1	9/2/98 13:35	EPA 150.1	LPS
Specific Gravity, g/ml	1.072	0.005	9/17/98 15:10	EPA 1311	RBH
Sulfate, mg/L	3,060	1000	9/9/98 13:30	EPA 375.4	TSM
Total Dissolved Solids, mg/L	120,000	250	9/8/98 12:15	EPA 160.1	LPS
Calcium (T), as Ca, mg/L	561	0.3	9/15/98 16:55	EPA 200.7	EG
Iron (T), as Fe, mg/L	341	0.02	9/15/98 16:55	EPA 200.7	EG
Magnesium (T), as Mg, mg/L	122	0.2	9/15/98 16:55	EPA 200.7	EG
Sodium (T), as Na, mg/L	3,060	8	9/16/98 13:36	EPA 200.7	EG

Approved By: 

Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 3

(generic.rpt)

6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6995
801 262 7288 PHONE
801 262 7378 FAX

MAY 05 '96 12:55PM STIM-LAB, INC.

P. 2/4



7406 N. 81 HIGHWAY • P. O. BOX 1644 • DUNCAN, OKLAHOMA 73534
TELEPHONE 405/252-4309 • FAX NUMBER 405/252-6979

GLENN PENNY
President

May 6, 1995

John Hollingshead
River Gas Corp.
3600 Watermelon Rd..
Suite 205
Northport, AL 35476

RE: Analysis of Injection Water Compatibility with Navajo Connate Water, Project SL 4377

Dear Mr. Hollingshead,

STIM-LAB Inc. has completed both water analysis and simple compatibility study for mixing the proposed injection water at Drunkards Wash Field with a connate water sample from the proposed injection zone of the D-3 disposal well. Table 1 gives the analysis of both waters as received. Since neither were maintained in a pressurized state, the pH and carbonate values are most probably higher than would be the case in their natural state due to CO₂ release. Also, a considerable amount of precipitation of iron carbonate hydrate was present in the bottom of the connate water sample. Therefore, the dissolved iron value for this sample is most probably low. This may be the case also for the injection water as it was obtained from the holding pond where some settling of any precipitant may have also occurred. Previous experience with this injection water has shown that it has in the past precipitated iron carbonate hydrate requiring filtration before injection.

The compatibility study looked at mixing the two waters at three volume ratios as shown in Table 1. These were compared with a control mixed with deionized water. These show that some amount of carbonate formation occurred at all ratios with the injection water. A slight amount also occurred with the deionized water at the higher connate water ratio. The precipitant was mostly orange in color and readily soluble in 5% HCl with effervescence which would suggest at least a portion of it was iron carbonate hydrate. I would expect that with fresh samples maintained under pressure that the precipitation would be less or possibly not occur at all as CO₂ retained in solution would maintain a lower pH with mixing and limit precipitant formation.

STIMULATION FLUID TESTING SERVICES

MAY 06 '96 12:59PM STIM-LAB, INC.

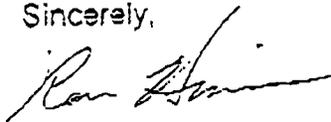
P. 3/4

Mr. John Hollingshead
May 6, 1996
Page 2

I understand an injection test was previously performed on the well with 6000 barrels of tap water. If the well was not flowed back and no formation crossflow is present, this should provide a suitable barrier to prevent any near-wellbore contact of fluids and limit the potential for scaling near the wellbore. If the well has been flowed since that time, I would recommend a preflush of tap water be injected ahead of the flood water. We can discuss the volumes further if needed. Keeping the injection water under pressure from the point of production to re-injection would also limit the amount of CO₂ evolution and reduce the possibility of carbonate formation. It should be pointed out that acid jobs performed on the D-1 well had minimal effect on injection pressure. This would indicate that carbonate precipitation near the wellbore was not a problem with the current injection system.

STIM-LAB Inc. appreciates the opportunity work with you on this project. If you have any questions regarding this testing, please feel free to give Mike Conway or myself a call.

Sincerely,



Ron Himes, Group Leader
Core Testing Group

RH



STIM-LAB
Inc.

Table 1
 SL 4377
 River Gas Corporation
 D-3 Connate and Injection Water Analysis
 Analyzed 5/1-5/2/96

	<u>Injection</u>	<u>Connate</u>
pH	8.71	6.14
Carbonate	420 mg/L	0 mg/L
Bicarbonate	3890 mg/L	705 mg/L
Chlorides	2518 mg/L	116163 mg/L
TDS	8402 mg/L	217264 mg/L
Sulfate	<1.8 mg/L	3390 mg/L
Calcium	17.5 mg/L	1390 mg/L
Magnesium	15.8 mg/L	465 mg/L
Iron	<2.5 mg/L	10.9 mg/L
Aluminum	<5.0 mg/L	<5.0 mg/L
Sodium	2600 mg/L	78500 mg/L
Potassium	63 mg/L	1500 mg/L
Hardness	109 mg/L	5366 mg/L

**Examination of Injection and
 Connate Water Compatibility**

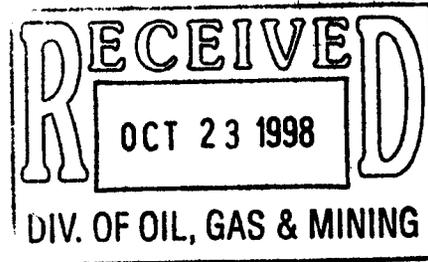
Mixing Ratio Connate/Injection	FeCO ₃ /CaCO ₃ (mg/L)	Final pH
75/25	95	6.58
50/50	127	7
25/75	85	7.38
Mixing Ratio Connate & DI		
75/25	24	6.58
50/50	1	6.78
25/75	0	6.97



RIVER GAS CORPORATION

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

October 19, 1998



Mr. Gil Hunt
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-7 Disposal Well Permit

Dear Mr. Gil Hunt,

In response to the supplemental permitting information required for the D-7 Disposal Well located in the SW/4, SW/4 of Section 2, T16S, R7E in Emery County, Utah, the following statements are being submitted.

1. Compatibility of connate water with produced/injection fluids:
Attached are Chem-Tech reports describing the water chemistry for the D-7 Navajo & Wingate connate fluids, and a water compatibility study performed on a previously drilled disposal well (D-3) in the area. A review of this data shows that although some differences are noticed, no significant changes in the water chemistry exists which should make the fluids incompatible. River Gas request that this data be submitted as proof of compatibility between produced waters and the connate waters.
2. Pressure test of 7" casing:
On 8/28/98, a pressure test was conducted on the 7" casing in the D-7 disposal well. 1000 psig. of pressure was placed on the well and held for more than thirty minutes while the cement bond log was run from PBD to 5500 feet. The bond log on record with your office should show in the remarks section as to this activity. A review of the log clearly shows how the cement bonding was improved with the additional 1000 psig. pressure. The people on location who witnessed this pressure test were: John Hollingshead (River Gas); Kriss Howard (Computalog); and Tom Jones (Flint Engg. & Construction).

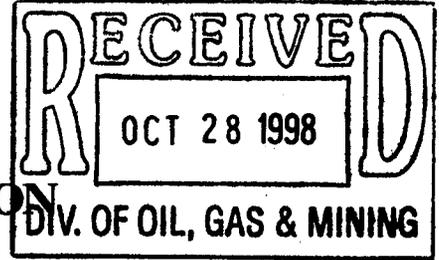
Most Cordially,

A handwritten signature in black ink, appearing to read "John Hollingshead".

John Hollingshead
Reservoir Engineer



RIVER GAS CORPORATION



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

October 27, 1998

Mr. Christopher J. Kierst
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Re: Affidavit of Supplemental Notification
D-7 Injection Well

Dear Mr. Kierst:

I have enclosed the above referenced original document dated October 26, 1998 and executed by Joseph L. Stephenson. We have retained a copy for our files.

If you have any questions, please advise.

Sincerely yours,

A handwritten signature in cursive script that reads "Dana C. Campbell".

Dana C. Campbell
Lease Records Administrator

Enc.

STATE OF ALABAMA)
)
) : ss.
)
COUNTY OF TUSCALOOSA)

(D-7)

**AFFIDAVIT OF SUPPLEMENTAL NOTIFICATION MAILED
REGARDING INJECTION WELL PERMITTING**

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.

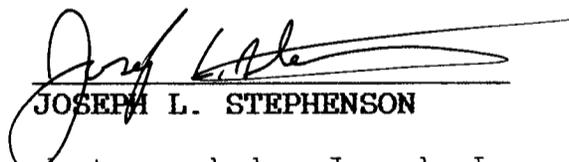
2. As Vice President - Land, I am responsible for supervision of lease records, reviewing title records and legal opinions affecting lands where RGC proposes to conduct operations, and providing notice to certain parties that may be affected by proposed operations.

3. On October 15, 1998 I executed an affidavit identifying parties owning certain interests within a 1/2 mile radius around a well we propose to utilize as an injection well in the SW1/4 of SE1/4 of Section 2, T16S, R9E, SLM, Emery County, Utah if a permit is approved by the Division of Oil, Gas and Mining. Said affidavit named Boyd L. Marsing as a grazing lessee. However, it failed to indicate that he received notice of RGC's intentions.

4. On October 19, 1998, I wrote Mr. Boyd L. Marsing a letter in the same format as what I sent to the other owners around said well. On October 21, 1998, an RGC employee hand delivered my letter to Mr. Marsing.

5. 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 26th day of October, 1998.


JOSEPH L. STEPHENSON

Subscribed, sworn and acknowledged to and by Joseph L. Stephenson before me this 26th day of October, 1998..


NOTARY PUBLIC
Residing at:
6231 Hibiscus Lane
Northport, AL 35473

My Commission Expires
March 9, 2002

My Commission Expires: _____



RIVER GAS CORPORATION
511 ENERGY CENTER BLVD.
NORTHPORT, AL 35473
TEL. 205/759-3282
FAX. 205/759-3188

DATE: October 27, 1998
FROM: Joseph L. Stephenson, Vice President - Land
TO: Christopher J. Kierst - Utah Division of Oil, Gas & Mining
FAX NO.: 801/359-3940 REG. NO. 801/538-5340
SUBJECT: D-7 Injection Well

ORIGINAL MAILED? NO

=====

MESSAGE:

The attached affidavit is being sent to you today.

2

This transaction consists of 2 page(s) including this cover page.
If an incomplete transaction is received, please contact the sender
at (205) 759-3282.

...IMPORTANT NOTICE...

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE. THANK YOU.

STATE OF ALABAMA)
)
) ss.
COUNTY OF TUSCALOOSA)

(D-7)

**AFFIDAVIT OF SUPPLEMENTAL NOTIFICATION MAILED
REGARDING INJECTION WELL PERMITTING**

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, reviewing title records and legal opinions affecting lands where RGC proposes to conduct operations, and providing notice to certain parties that may be affected by proposed operations.

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4. On October 19, 1998, I wrote Mr. Boyd L. Marsing a letter in the same format as what I sent to the other owners around said well. On October 21, 1998, an RGC employee hand delivered my letter to Mr. Marsing.

5. 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 26th day of October, 1998.

Joseph L. Stephenson

JOSEPH L. STEPHENSON

Subscribed, sworn and acknowledged to and by Joseph L. Stephenson before me this 26th day of October, 1998..

Dana Campbell

NOTARY PUBLIC

Residing at:
6231 Hibiscus Lane
Northport, AL 35473

My Commission Expires
March 9, 2002

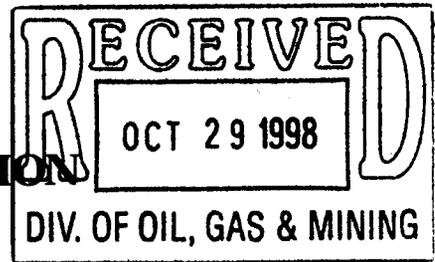
My Commission Expires:





RIVER GAS CORPORATION

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



October 28, 1998

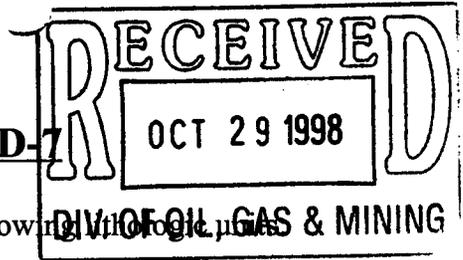
Mr. Chris Kierst
Utah Division of Oil, Gas, and Mining
1594 West North Temple
Salt Lake City, Utah 84114

RE: Geologic information regarding Class II injection application for well D-7, Carbon County, Utah

Dear Mr. Kierst:

The purpose of this letter is to provide the geologic information for River Gas Corporation's disposal well D-7 as requested in R649-5-3-2.10 of the Utah Administrative Code for natural resources. As illustrated on the attached stratigraphic column, the formation tops within D-7, located in Section 2, T16S, R9E, are as follows:

Formation	Top
Mancos Shale	Surface
Ferron Sandstone	1766'
Tununk Shale	2030'
Dakota Sandstone	2405'
Cedar Mountain	2464'
Morrison Formation	3230'
Summerville Formation	3718'
Curtis Sandstone	4120'
Entrada Sandstone	4277'
Carmel Sandstone	4996'
Navajo Sandstone	5665'
Kayenta Sandstone	6036'
Wingate Formation	6190'



Description of Injection Zones Within Well D-7

As you are aware, the injection intervals are located in the following formation intervals:

Formation	Gross Thickness (feet)	Gross Perforated Interval	Description
Navajo Sandstone	391	5645-6036	V. fine gr, lt orange, cross-bedded
Kayenta Formation	154	6036-6116	Reddish-brown, silty
Wingate Sandstone	340	6190-6485	V. fine gr, orange-brown, cross-bedded

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

Confining Units

The upper confining unit of the injection interval is the Carmel Formation (top depth at 4996', gross thickness of approximately 649'), which is composed of silty sandstone, shale, limestone, and some anhydrite. Two anhydrite zones at 5310-5320 and 5410-5440 exhibit minimum horizontal stresses approximately 1000 psi higher than the injection interval. Therefore, these zones act as barriers to any uphole fracture migration.

The lower confining unit of the injection interval is the Chinle Shale at 6530'.

Per your request of this morning, a cross-section and Navajo Sandstone structure map are enclosed. Other copies will follow that can be filed with the D-8 and D-6 injection permits.

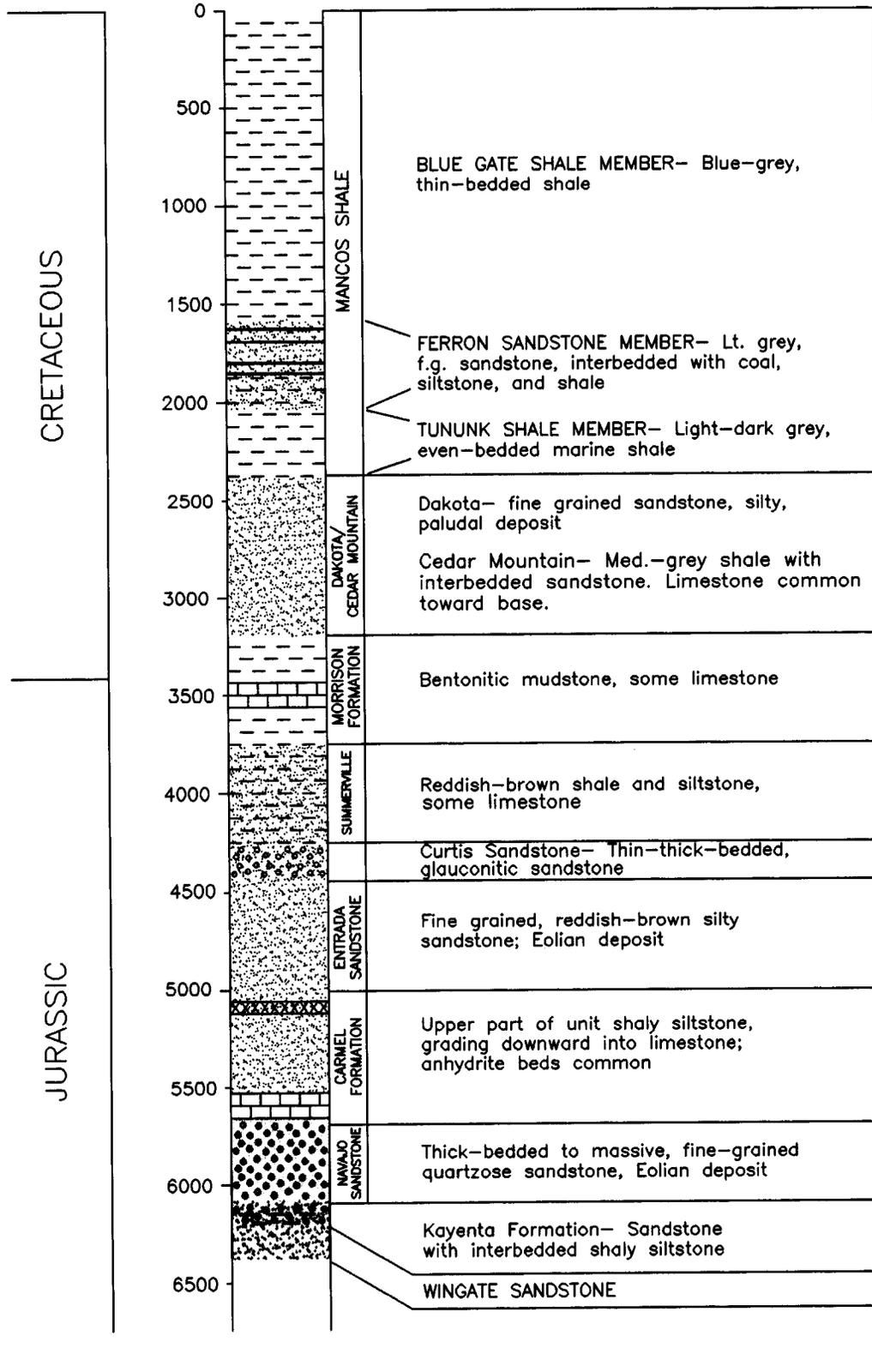
Please feel free to call me if you need additional information.

Sincerely,

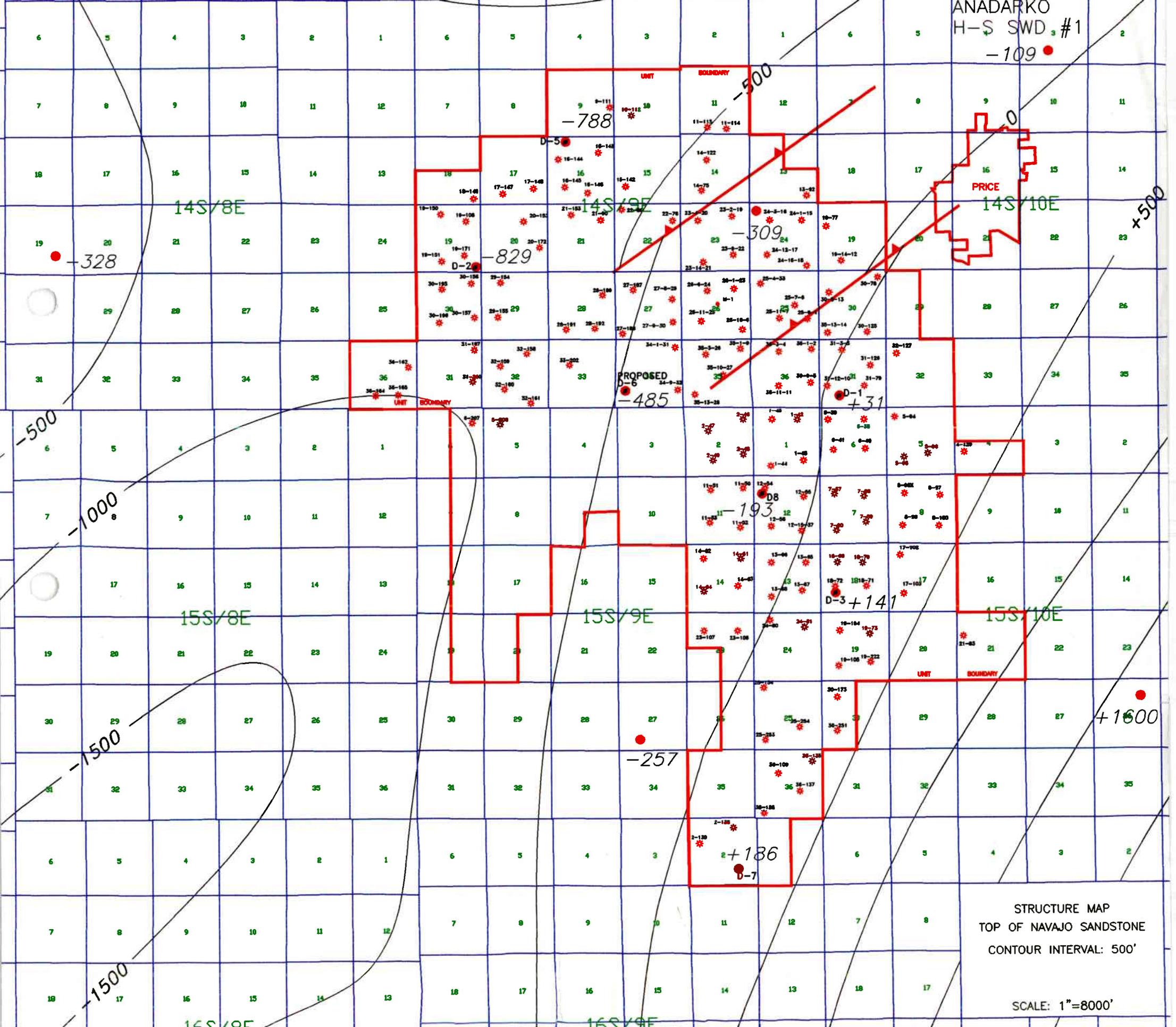
Terry Burns

Geologist

UTAH D-7
 1371 FSL, 1530 FEL
 SEC. 2, T16S, R9E
 ELEV. - 5882'



ANADARKO
H-S SWD #1
-109



STRUCTURE MAP
TOP OF NAVAJO SANDSTONE
CONTOUR INTERVAL: 500'

SCALE: 1"=8000'

**RIVER GAS CORPORATION****UTAH OPERATIONS**

1305 South 100 East

Price, Utah 84501

Bus. (801) 637-8876

FAX (801) 637-8924

November 2, 1998

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: Supplemental Information for the Previously Submitted
Application for Injection Well - Utah D-7
SW/4, SE/4, Section 2,
T16S, R9E, SLB&M, Emery County Utah

Dear Mr. Hunt:

Enclosed is supplemental information as requested by Mr. Chris Kierst of your staff concerning the casing program and average injection pressures. The following attachments have been revised and are included for your review:

Exhibit "D" - Description of the Casing Program;

Exhibit "F" - Statement of the Injection Pressures;

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 cursive script that reads "Don S. Hamilton".

Don S. Hamilton
Permit Specialist

cc: Mr. R.A. Lamarre, Texaco
Mr. Chuck Snure, Texaco
Mr. Gee Lake, Jr., Dominion Resources
Mrs. Tammie Butts, RGC
Mr. Joey Stephenson, RGC
Mr. Dennis Plowman, RGC
RGC Well File - Utah D-7

FORM 9

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 GAS OTHER:

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

1371' FSL, 1530' FEL

Footages:

QQ, Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M

5. Lease Designation and Serial Number:

ML-46094

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

Drunkards Wash UTU-67921X

8. Well Name and Number:

D-7

9. API Well Number:

43-015-30338

10. Field or Pool, or Wildcat:

Drunkards Wash

County: Emery

State: UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Supplement to UIC form 1
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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.)

SEE ATTACHED

13.

Name & Signature: Don S. Hamilton Don S. Hamilton Title: Permit Specialist Date: 11/2/98

(This space for state use only)

Exhibit "D"

Description of the Casing Program

Conductor Casing Description:

20" 48#/ft, H-40, ST&C SMLS, installed from 0' to 45'

Surface Casing Description:

13-3/8" 48#/ft, H-40, ST&C SMLS, installed from 45' to 325'

300 sacks Class G, 2% CaCl + ¼ lb. per sack Flow-seal

15#/gal. density and 1.15 cu.ft./sack yeild (displaced 38 bbls. water)

landed 7 joints of casing at 303.7'

Intermediate Casing Description:

9-5/8" 36#/ft, K-55 LT&C SMLS, installed from 325' to 2350'

500 sacks 50/50 Poz and 100 sacks 10-1 RFC

12.5#/gal. density and 1.92 cu.ft./ sack yield (displaced 190 bbls. of water)

Landed 57 joints of casing at 2346.45'

Casing shoe installed (1.55' long) at 2348.00

Production Casing Description:

7" 26#/ft, K-55, installed from 2350' to 6543'

"G" thixotropic, 14.2#/gal. Density and 1.61 cu.ft./sack yield (displaced 191 bbls. of water)

Joint	Description	Length	G.L.
1	shoe	1.00'	6543.46'
48	7" 26#/ft. K-55	1970.68'	4572.78'
1	DV tool	2.31'	4570.47'
52	7" 26#/ft. K-55	2186.00'	2384.47'
1	DV tool	2.28'	2382.19'
56	7" 26#/ft. K-55	2382.19'	0.00'

Cement Program:**1st Stage**

Pumped 63.4 bbls. water
Pumped 13.0 bbls
Pumped 17.4 bbls class G, ¼#/sack floccel cement
Pumped 80.6 bbls 10-1 RFC
Dropped 1st plug
Displaced 272 bbls drilling mud
Plug bumped
Float held
Dropped bomb
Opened stage collar

- Good job- Circulated cement

2nd Stage

Pumped 46.9 bbls 50/50 Poz G, 8% gel, 10% extends ¼#/sack floccel cement
Pumped 23.5 bbls. 17.4 bbls. Class G, ¼#/sack floccel cement
Pumped 154.2 bbls 10-1 RFC
Dropped 2nd plug
Displaced 194.3 bbls drilling mud
Plug bumped
Float held
Dropped bomb
Opened stage collar

- Did not circulate cement

3rd Stage

Pumped 47.7 bbls water
Pumped 46.7 bbls 50/50 Poz G, 8% gel, 10% extends ¼#/sack floccel cement
Pumped 38.7 bbls Class G, ¼#/sack floccel cement
Dropped 3rd plug
Displaced 96.4 bbls water
Plug bumped

- Good job- circulated cement.

Exhibit "F"

Statement of the Injection Pressures

The proposed maximum injection pressures have been previously submitted to your office.

The proposed average injection pressures and volumes are as follows:

14,400 bbls per day at a pressure of 1350 psi.

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-231
THE UTAH D7 WELL LOCATED IN	:	
SECTION 2, TOWNSHIP 16 SOUTH,	:	
RANGE 9 EAST, 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 Utah D7 well, located in Section 2, Township 16 South, Range 9 East, 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 interval from 6028 feet to 6580 feet (Navajo Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 1600 psig with a maximum rate of 14,400 BWPD.

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 15th day of October, 1998.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING



John R. Baza
Associate Director

---ooOoo---

IN THE MATTER OF THE APPLICATION :
OF River Gas _____ :
_____ (Operator) :

NOTICE OF AGENCY
ACTION

FOR ADMINISTRATIVE APPROVAL OF :
THE Utah D-7 _____ :

CAUSE NO. UIC- 231

_____ WELL(s) :

LOCATED IN SECTION 2 _____ ,

TOWNSHIP 16 _____ (S or N),

RANGE 9 _____ (E or W),

S.L.M. or _____ ,

Emery COUNTY, UTAH, AS

A CLASS II INJECTION WELL

*See Advocate
Price*

Tr 15

---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 (Operator) for administrative approval of the Utah D-7 well, located in Section 2, Township 16 (S or N), Range 9 (E or W) S.L.M. or _____, 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 interval from 6028 feet to 6580 feet (Navajo Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 1600 PSIG with a maximum rate of 14,400 BWPD.

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 _____ th day of _____ 199__.

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT
STATEMENT OF BASIS**

Applicant: River Gas Corporation

Well: Utah D7

Location: T16S, R9E, S2, Emery Co., UT

API: 4301530338

Ownership Issues:

The well is located on lands owned by the State of Utah and administered by the School and Institutional Trust Lands Administration. Affidavits of Notification of surface owners within a half mile radius have been provided with the injection application.

Well Integrity:

20", conductor pipe set at 45' in 24" hole. 13-3/8" surface casing, 48#/ft., H-40 ST&C SMLS casing installed from 45' to 325' in 17-1/2" hole using 300 sx. of Class G cement with 2% CaCl and 1/4 lb./sx (15#/gal., 1.15cu. ft./sx). Flow-Seal. 9-5/8" intermediate casing, 36#/ft., K-55 LT&C SMLS casing installed from 325' to 2350' using 500 sx. of 50/50 Poz and 100 sx. 10-1 RFC (12.5#/gal., 1.92cu. Ft./sx.). Casing shoe at 2348'. 7" production casing, 26#/ft., K-55, installed from 2335' to 6543' Class G cement (14.23/gal., 1.61 cu. Ft./sx.). A Cement Bond Log was run. The top of cement was located at about 2,810'. This should be adequate to prevent any upward migration of fluid between the 7" casing and the borehole wall. The 7" casing was perforated in the Navajo Sandstone, Kayenta Formation and Wingate Sandstone in a gross interval from 5,645' to 6,485'.

Ground Water Protection:

There are no aquifers with high-quality ground water expected to be encountered in the thin, clayey slope wash covering the Blue Gate Shale Member of the Mancos Shale. Conductor, surface and intermediate casing will adequately protect the shallow alluvial sediments. 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 coal measures) provides the field produced (and injected) water. The Ferron Sandstone is found at 1,766' of depth in the Utah D7 well and in nearby production wells, has shown an average total dissolved solids (TDS) level of nearly 9,500 mg/l.

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT
STATEMENT OF BASIS**

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Applicant: River Gas Corporation **Well**

Location: T16S, R9E, S2, Emery Co., UT

Ownership Issues:

The well is located on lands owned by the State of School and Institutional Trust Lands Administration. All applications of surface owners within a half mile radius have been reviewed and approved.

Well Integrity:

20", conductor pipe set at 45' in 24" hole. 13-3/8" surface casing, 48#/ft., H-40 ST&C SMLS casing installed from 45' to 325' in 17-1/2" hole using 300 sx. of Class G cement with 2% CaCl and 1/4 lb./sx (15#/gal., 1.15cu. ft./sx). Flow-Seal. 9-5/8" intermediate casing, 36#/ft., K-55 LT&C SMLS casing installed from 325' to 2350' using 500 sx. of 50/50 Poz and 100 sx. 10-1 RFC (12.5#/gal., 1.92cu. Ft./sx.). Casing shoe at 2348'. 7" production casing, 26#/ft., K-55, installed from 2335' to 6543' Class G cement (14.23/gal., 1.61 cu. Ft./sx.). A Cement Bond Log was run. The top of cement was located at about 2,810'. This should be adequate to prevent any upward migration of fluid between the 7" casing and the borehole wall. The 7" casing was perforated in the Navajo Sandstone, Kayenta Formation and Wingate Sandstone in a gross interval from 5,645' to 6,485'.

Ground Water Protection:

There are no aquifers with high-quality ground water expected to be encountered in the thin, clayey slope wash covering the Blue Gate Shale Member of the Mancos Shale. Conductor, surface and intermediate casing will adequately protect the shallow alluvial sediments. 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 coal measures) provides the field produced (and injected) water. The Ferron Sandstone is found at 1,766' of depth in the Utah D7 well and in nearby production wells, has shown an average total dissolved solids (TDS) level of nearly 9,500 mg/l.

The Navajo Sandstone formation water at the subject well was tested by CHEMTECH-FORD ANALYTICAL LABORATORIES of Salt Lake City, Utah, at the behest of the operator and shown to be in excess of 154,000 mg/l TDS from the upper Navajo Sandstone interval (packer at 5634, bridge plug at 5740'). The Wingate Sandstone in the D7 well provided water samples which were tested at 120,000 mg/L TDS. This value was determined from swabbed samples taken August 30, 1998. 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 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. The planned injection of Ferron Sandstone Member produced formation water into the specified formations at this location will result in the dilution of the more saline Navajo Sandstone formation water.

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. 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 and would require at least 143 disposal wells working round the clock for 10 years to inject 1% of the stored volume in the Navajo Sandstone. During a step rate test conducted in the D7 well on August 31, 1998, STIM-LAB, Inc., measured a static bottom hole pressure slightly in excess of 2,500 psig at a guage depth of 6,537'. Fracture parting pressure was determined to be 3,750 psi at Bottom Hole (920 psi at Surface) at an injection rate of 3 BPM. The maximum injection rate proposed by the operator is 10 BPM (14,400 BPD at maximum 1,600 psig).

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 water present in the aquifer and a pressure increase near the well which would dissipate after injection ceases. No long term negative impacts are anticipated as a result of injection of produced water into the subject well.

Oil/Gas & Other Mineral Resources Protection:

The Ferron coal/gas zone is protected by casing and cement. No other known potentially producible zones were encountered by the well. The injection zone is isolated nearly 4,000' below the productive interval.

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. There are two existing well bores with one drilled in 1961 (J&A @ 7581' TD, 16 whipstock attempts) and the other a 300' rig skid in 1962 (PA, 11,675' TD), both within about 4,100 feet to the south southeast.

Bonding:

River Gas Corporation has an ~~\$80,000~~ surety 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), Emery 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 5,665' to 6,485'. Any future injection into a formation other than those specified will require administrative approval after appropriate sampling and testing.

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 at the hearing which changes our analysis.

Reviewer(s): Christopher Kierst

Date: 11/5/98

November 5, 1998

River Gas Corporation
1305 South, 100 east
Price, UT 84501

Re: Utah D7, Section 2, Township 16 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 Christopher Kierst at this office.

Sincerely,

John R. Baza
Associate Director, Oil and Gas

cc: Dan Jackson, Environmental Protection Agency
School and Institutional Trust Lands Administration
Emery County Commission

n:\ogprmits\urcapprou\rgcutd-7.wpd

November 5, 1998

River Gas Corporation
1305 South, 100 east
Price, UT 84501

Re: Utah D7, Section 2, Township 16 South, Range 9 East

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 Christopher Kierst at this office.

Sincerely,

John R. Baza
Associate Director, Oil and Gas

cc: Dan Jackson, Environmental Protection Agency
School and Institutional Trust Lands Administration
Emery County Commission

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-205

Operator: River Gas Corporation
Wells: Utah D7
Location: Section 2, Township 16 South, Range 9 East,
County: Emery
API No.: 43-015-30338
Well Type: Disposal

Stipulations of Permit Approval

- ~~1. Approval for conversion to Injection Well issued on November 5, 1998~~
 2. Maximum Allowable Injection Pressure: ¹³⁵⁰1600 psig
 3. Maximum Allowable Injection Rate: 14,400 BPD
 4. Injection Interval: 5645 feet to 6485 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)
-

Approved by:

John R. Baza
Associate Director, Oil and Gas

Date

UNDERGROUND INJECTION CO

Cause No. UIC-20

Operator: River Gas Corporation
Wells: Utah D7
Location: Section 2, Township 16 So
County: Emery
API No.: 43-015-30338
Well Type: Disposal

Stipulations of Permit Approval

1. ~~Approval for conversion~~ to Injection Well issued on November 5, 1998
2. Maximum Allowable Injection Pressure: ¹³⁵⁰1600 psig
3. Maximum Allowable Injection Rate: 14,400 BPD
4. Injection Interval: 5645 feet to 6485 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)

Approved by: _____

John R. Baza
Associate Director, Oil and Gas

_____ Date

River Gas Corporation

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

RGC

To: Chris Kierst From: Don Hamilton

Fax: 1-801-359-3940 Pages: 2

Phone: _____ Date: 11-5-98

Re: Updated VIC CC: _____

Urgent For Your Review FYI Please Reply Please Recycle

From the Desk of.....

*Don S. Hamilton -
Permit Specialist*

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR	River Gas Corporation	River Gas Corporation
ADDRESS	1305 South 100 East	511 Energy Center Blvd.
	Price, UT 84501	Northport, AL 35473

Well name and number: Utah D7

Field or Unit name: Drunkards Wash UTU-67921X Lease no. ML-46094

Well location: QGSW/SE section 2 township 16 range 9 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: 8/28/98 API Number: 43-015-30338

Proposed injection interval: from 5665' to 6485'

Proposed maximum injection: rate 14,400 BBL pressure 1,600 psig

Proposed injection zone contains oil, gas, and/or fresh water within 1/4 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 Don S. Hamilton Signature Don S. Hamilton
 Title Permit Specialist Date October 15, 1998
 Phone No. (435) 637-8876

(State use only)
 Application approved by _____ Title _____
 Approval Date _____

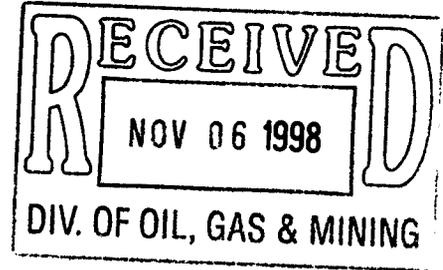
Comments:



RIVER GAS CORPORATION

UTAH OPERATIONS
1305 South 100 East
Price, Utah 84501
Bus. (801) 637-8876
FAX (801) 637-8924

November 2, 1998



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: Supplemental Information for the Previously Submitted
Application for Injection Well - Utah D-7
SW/4, SE/4, Section 2,
T16S, R9E, SLB&M, Emery County Utah

Dear Mr. Hunt:

Enclosed is supplemental information as requested by Mr. Chris Kierst of your staff concerning the casing program and average injection pressures. The following attachments have been revised and are included for your review:

Exhibit "D" - Description of the Casing Program;

Exhibit "F" - Statement of the Injection Pressures;

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,

Don S. Hamilton

Don S. Hamilton
Permit Specialist

cc: Mr. R.A. Lamarre, Texaco
Mr. Chuck Snure, Texaco
Mr. Gee Lake, Jr., Dominion Resources
Mrs. Tammie Butts, RGC
Mr. Joey Stephenson, RGC
Mr. Dennis Plowman, RGC
RGC Well File - Utah D-7

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.

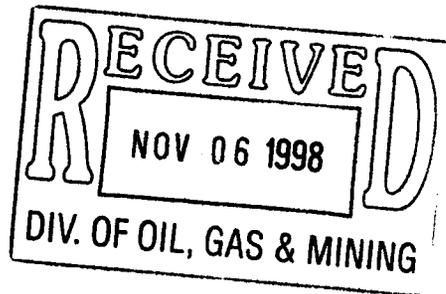
1. Type of Well: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER:	5. Lease Designation and Serial Number: ML-46094
2. Name of Operator: River Gas Corporation	6. If Indian, Allottee or Tribe Name: N/A
3. Address and Telephone Number: 1305 South 100 East, Price, UT 84501 (435)637-8876	7. Unit Agreement Name: Drunkards Wash UTU-67921X
4. Location of Well Footages: 1371' FSL, 1530' FEL County: Emery QQ, Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M State: UTAH	8. Well Name and Number: D-7
	9. API Well Number: 43-015-30338
	10. Field or Pool, or Wildcat: Drunkards Wash

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>Supplement to UIC form 1</u> Date of work completion _____ Report results of Multiple Completions and Re Completions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <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 Casing <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off

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.)

SEE ATTACHED



13. Name & Signature: Don S. Hamilton *Don S. Hamilton* Title: Permit Specialist Date: 11/2/98

(This space for state use only)

Description of the Casing Program

Conductor Casing Description:

20" 48#/ft, H-40, ST&C SMLS, installed from 0' to 45'

Surface Casing Description:

13-3/8" 48#/ft, H-40, ST&C SMLS, installed from 45' to 325'
 300 sacks Class G, 2% CaCl + ¼ lb. per sack Flow-seal
 15#/gal. density and 1.15 cu.ft./sack yeild (displaced 38 bbls. water)
 landed 7 joints of casing at 303.7'

Intermediate Casing Description:

9-5/8" 36#/ft, K-55 LT&C SMLS, installed from 325' to 2350'
 500 sacks 50/50 Poz and 100 sacks 10-1 RFC
 12.5#/gal. density and 1.92 cu.ft./ sack yield (displaced 190 bbls. of water)
 Landed 57 joints of casing at 2346.45'
 Casing shoe installed (1.55' long) at 2348.00

Production Casing Description:

7" 26#/ft, K-55, installed from 2350' to 6543'
 "G" thixotropic, 14.2#/gal. Density and 1.61 cu.ft./sack yield (displaced
 191 bbls. of water)

Joint	Description	Length	G.L.
1	shoe	1.00'	6543.46'
48	7" 26#/ft. K-55	1970.68'	4572.78'
1	DV tool	2.31'	4570.47'
52	7" 26#/ft. K-55	2186.00'	2384.47'
1	DV tool	2.28'	2382.19'
56	7" 26#/ft. K-55	2382.19'	0.00'

Cement Program:

1st Stage

- Pumped 63.4 bbls. water
- Pumped 13.0 bbls
- Pumped 17.4 bbls class G, ¼#/sack flocel cement
- Pumped 80.6 bbls 10-1 RFC
- Dropped 1st plug
- Displaced 272 bbls drilling mud
- Plug bumped
- Float held
- Dropped bomb
- Opened stage collar
- Good job- Circulated cement

2nd Stage

- Pumped 46.9 bbls 50/50 Poz G, 8% gel, 10% extends ¼#/sack flocel cement
- Pumped 23.5 bbls. 17.4 bbls. Class G, ¼#/sack flocel cement
- Pumped 154.2 bbls 10-1 RFC
- Dropped 2nd plug
- Displaced 194.3 bbls drilling mud
- Plug bumped
- Float held
- Dropped bomb
- Opened stage collar
- Did not circulate cement

3rd Stage

- Pumped 47.7 bbls water
- Pumped 46.7 bbls 50/50 Poz G, 8% gel, 10% extends ¼#/sack flocel cement
- Pumped 38.7 bbls Class G, ¼#/sack flocel cement
- Dropped 3rd plug
- Displaced 96.4 bbls water
- Plug bumped
- Good job- circulated cement.

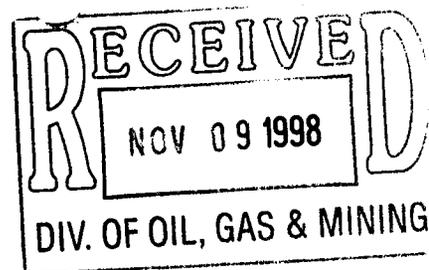
Statement of the Injection Pressures

The proposed maximum injection pressures have been previously submitted to your office.

The proposed average injection pressures and volumes are as follows:

14,400 bbls per day at a pressure of 1350 psi.

Amended



APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR	<u>River Gas Corporation</u>	<u>River Gas Corporation</u>
ADDRESS	<u>1305 South 100 East</u>	<u>511 Energy Center Blvd.</u>
	<u>Price, UT 84501</u>	<u>Northport, AL 35473</u>

Well name and number: Utah D7

Field or Unit name: Drunkards Wash UTU-67921X Lease no. ML-46094

Well location: QQSW/SE section 2 township 16 range 9 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: 8/28/98 API Number: 43-015-30338

Proposed injection interval: from 5665' to 6485'

Proposed maximum injection: rate 14,400 BBL pressure 1,600 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	<u>Don S. Hamilton</u>	Signature	<u><i>Don S. Hamilton</i></u>
Title	<u>Permit Specialist</u>	Date	<u>October 15, 1998</u>
Phone No.	<u>(435) 637-8876</u>		

(State use only)

Application approved by _____ Title _____

Approval Date _____

Comments:



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

Michael O. Leavitt
Governor
Ted Stewart
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)

November 9, 1998

River Gas Corporation
1305 South 100 East
Price, Utah 84501

Re: Utah D7, Section 2, Township 16 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 Christopher Kierst at this office.

Sincerely,



John R. Baza
Associate Director, Oil and Gas

lwp

cc: Dan Jackson, Environmental Protection Agency
School and Institutional Trust Lands Administration
Emery County Commission



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

Michael O. Leavitt
Governor
Ted Stewart
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)

UNDERGROUND INJECTION CONTROL PERMIT

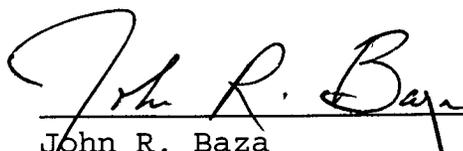
Cause No. UIC-205

Operator: River Gas Corporation
Wells: Utah D7
Location: Section 2, Township 16 South, Range 9 East,
County: Emery
API No.: 43-015-30338
Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on November 9, 1998
2. Maximum Allowable Injection Pressure: 1350 psig
3. Maximum Allowable Injection Rate: 14,400 BPD
4. Injection Interval: 5645 feet to 6485 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)

Approved by:



John R. Baza
Associate Director, Oil and Gas

11/9/98

Date



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

Michael O. Leavitt
Governor
Ted Stewart
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)

November 9, 1998

River Gas Corporation
1305 South 100 East
Price, Utah 84501

Re: Utah D7, Section 2, Township 16 South, Range 9 East, Emery County, Utah

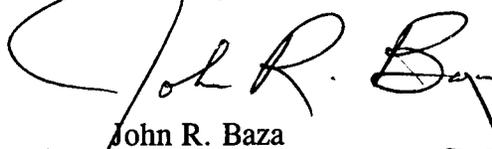
Gentlemen:

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 Christopher Kierst at this office.

Sincerely,



John R. Baza
Associate Director, Oil and Gas

lwp

cc: Dan Jackson, Environmental Protection Agency
School and Institutional Trust Lands Administration
Emery County Commission



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

Michael O. Leavitt
Governor
Ted Stewart
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)

UNDERGROUND INJECTION CONTROL PERMIT

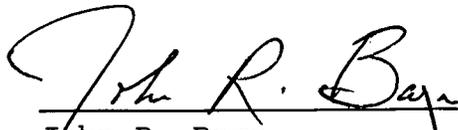
Cause No. UIC-205

Operator: River Gas Corporation
Wells: Utah D7
Location: Section 2, Township 16 South, Range 9 East,
County: Emery
API No.: 43-015-30338
Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on November 9, 1998
2. Maximum Allowable Injection Pressure: 1350 psig
3. Maximum Allowable Injection Rate: 14,400 BPD
4. Injection Interval: 5645 feet to 6485 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)

Approved by:



John R. Baza
Associate Director, Oil and Gas

11/9/98

Date

FORM 8

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NO. ML-46094	
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <u>Water Disposal</u>						7. UNIT AGREEMENT NAME Drunkards Wash UTU-67921X	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____						8. FARM OR LEASE NAME Utah	
2. NAME OF OPERATOR RIVER GAS CORPORATION						9. WELL NO. D-7	
3. ADDRESS OF OPERATOR 1305 South 100 East, Price, UT 84501 (435) 637-8876						10. FIELD AND POOL, OR WILDCAT Drunkards Wash	
4. LOCATION OF WELL (Report clearly and in accordance with any State requirements) At surface 1371' FSL & 1530' FEL At top prod. interval reported below						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SW/4SE/4, Sec 02, T16S, R09E, SLB&M	
14. API NO. 43-015-30338				DATE ISSUED 11/9/98		12. COUNTY Emery	13. STATE Utah
15. DATE SPUDDED 6/23/98		16. DATE T.D. REACHED 8/17/98		17. DATE COMPL. (Ready to prod.) or (Plug & Abd.) 8/22/98		18. ELEVATIONS (DF, REB, RT, GR, ETC.) GR 5826.5'	
19. ELEV. CASINGHEAD N/A		20. TOTAL DEPTH, MD & TVD 6573'		21. PLUG BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY N/A	
23. INTERVALS DRILLED BY						24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD OR TVD) 5696-6036 Injection Interval in Navajo Sandstone, 6036-6116 Kayenta injection Interval, 6190-6530 Wingate Injection Interval	
25. WAS DIRECTIONAL SURVEY MADE Yes						26. TYPE ELECTRIC AND OTHER LOGS RUN CBL, GR, Dual Induction, Neutron-Density, Dipole Sonic, Microlog, Caliper	
27. WAS WELL CORED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> DRILL STEM TEST YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (Submit analysis) (See reverse side)							
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
20"		48# H-40		45		24"	
13-3/8"		48# H-40		303.7		17-1/2"	
9-5/8"		36# K-55		2348		12-1/4"	
7"		26# K-55		6543.46		8 3/4"	
29. LINER RECORD				30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT	
31. PERFORATION RECORD (Interval, size and number) 6445-6483, 6400-6006, 6352-6372, 6300-6335, 6252-6290, 6190-6246, 6104-6116, 6074-6095, 6050-6067, 6012-6046, 5970-6005, 5938-5966, 5906-5935, 5853-5897, 5694-5848, 5665-5688				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED			
33. PRODUCTION							
DATE FIRST PRODUCTION 11/11/98		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Injection				WELL STATUS (Producing or shut-in) Injection	
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
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 <u>Don S. Hamilton</u> TITLE Permit Specialist				DATE February 24, 1999			

See Spaces for Additional Data on Reverse Side

WELL NUMBER: D-7

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.
	TOP	MEAS. DEPTH	TRUE VERT. DEPTH
Ferron	1765		
Tunuck	2030		
Dakota	2406		
Cedar Mountain	2464		
Morrison	3230		
Summerville	3718		
Curtis	4120		
Entrada	4277		
Carmel	4996		
Navajo	5696		
Kayenta	6036		
Wingate	6190		
Chinle	6530		

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: <input type="checkbox"/> OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: <u>Water Disposal</u>		5. Lease Designation and Serial Number: <u>ML-46094</u>
2. Name of Operator: <u>River Gas Corporation</u>		6. If Indian, Allottee or Tribe Name: <u>N/A</u>
3. Address and Telephone Number: <u>1305 South 100 East, Price, UT 84501 (435)637-8876</u>		7. Unit Agreement Name: <u>Drunkards Wash UTU-67921X</u>
4. Location of Well Footages: <u>1371' FSL, 1530' FEL</u>		8. Well Name and Number: <u>Utah D-7</u>
QQ, Sec., T., R., M.: <u>SW/4, SE/4, SEC.02, T16S, R09E, SLB&M</u>		9. API Well Number: <u>43-015-30338</u>
		10. Field or Pool, or Wildcat: <u>Drunkards Wash</u>
		County: <u>EMERY</u>
		State: <u>UTAH</u>

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 _____	<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>Online Sundry</u>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <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 Casing <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	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.)

The Utah D-7 was placed online and showed first production on 11-11-98.

CONFIDENTIAL

ORIGINAL

13. Name & Signature: *Dawn J. Wilson* Title: Administrative Asst. Date: 3/3/99

(This space for state use only)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other Water Disposal

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 **1371' FSL & 1530' FEL**

At top prod. interval reported below

5. LEASE DESIGNATION AND SERIAL NO.
ML-46094

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

7. UNIT AGREEMENT NAME
Drunkards Wash UTU-67921X

8. FARM OR LEASE NAME
Utah

9. WELL NO.
D-7

10. FIELD AND POOL, OR WILDCAT
Drunkards Wash

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SW/4SE/4, Sec 02, T16S, R09E, SLB&M

14. API NO. **43-015-30338** DATE ISSUED **11/9/98**

12. COUNTY **Emery** 13. STATE **Utah**

15. DATE SPUNDED **6/23/98** 16. DATE T.D. REACHED **8/17/98** 17. DATE COMPL. (Ready to prod.) **8/22/98** 18. ELEVATIONS (DF, REB, RT, GR, ETC.) **GR 5826.5'** 19. ELEV. CASINGHEAD **N/A**

20. TOTAL DEPTH, MD & TVD **6573'** 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)
5696-6036 Injection Interval in Navajo Sandstone, 6036-6116 Kayenta injection Interval, 6190-6530 Wingate Injection Interval

25. WAS DIRECTIONAL SURVEY MADE **Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN
CBL,GR,Dual Induction, Neutron-Density, Dipole Sonic, Microlog, Caliper

27. WAS WELL CORED YES NO DRILL STEM TEST YES NO (Submit analysis) (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
20"	48# H-40	45	24"	300 sks Class G 500sks 50/50 Poz. 100 sks 10-1 RFC	
13-3/8"	48# H-40	303.7	17-1/2"	Stage1:24sks50/50Poz,90sksClassG,250sks 10-1RFC	
9-5/8"	36# K-55	2348	12-1/4"	Stage2:47sks50/50Poz,126sksClassG,525 10-1 RFC	
7"	26# K-55	6543.46	8-3/4"	Stage3:175sks50/50Poz,100sksClassG	

29. LINER RECORD

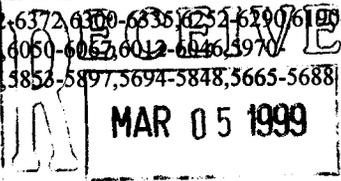
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	30. TUBING RECORD	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

6445-6485,6400-6006,6352,6372,6390,6335,6251,6590,6199,6246,6104-6116,6074-6095,6050-6057,6012-6046,5970,6005,5938-5966,5906-5935,5853-5897,5694-5848,5665-5688

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED



33. DIV OF OIL GAS & MINING PRODUCTION

DATE FIRST PRODUCTION **11/11/98** 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 GRAVITI - 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 Don S. Hamilton TITLE Permit Specialist DATE February 24, 1999



RIVER GAS CORPORATION

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

June 11, 1999

Mr. Gil Hunt
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: Request for pressure increase
for the D-7 Disposal Well

Dear Mr. Gil Hunt,

River Gas Corporation respectfully requests a maximum pressure increase from 1350 psig. to 1700 psig. for the D-7 disposal located in northern Emery County, Utah (Section 2, T16S, R9E). We feel this increase can be safely maintained within the confining boundaries of the Navajo formation as discussed in the attached Stim-Lab report dated September 24, 1998.

As shown in this material, Mr. Conway made comparisons between the D-3 and D-7 disposal wells. To summarize, he felt these two wells had distinct similarities concerning the highly stressed anhydrite layer located above the Navajo formation. He concluded the maximum pressure limits currently in place for other wells in this area could be safely matched by the D-7 well. While he did not specify a maximum pressure in this September 24, 1998 report, he did state in an earlier report (August 20, 1997) a 2500 psig. limit could be given to the D-3 disposal well. The 1997 report is included to assist your evaluation. Topographically, the D-3 well is approximately 4 miles north of D-7.

Currently, the D-3 well has a maximum pressure limit of 1700 psig.. Since D-7 has rock properties similar to D-3, River Gas seeks your permission to raise the maximum pressure for D-7 to 1700 psig.. Your consideration is appreciated, and we look forward to your reply.

Most Sincerely,

A handwritten signature in cursive script that reads "John Hollingshead".

John Hollingshead
Reservoir Engineer

ANALYSIS OF THE STEP
RATE TEST IN WELL D-7
AT DRUNKARD'S WASH

PREPARED FOR:

RIVER GAS CORPORATION
3600 WATERMELON ROAD
NORTHPORT, ALABAMA 35476

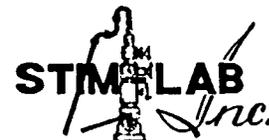
PREPARED BY:

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

P.O. NUMBER: VERBAL/JOHN HOLLINGSHEAD
FILE NUMBER: SL 5205

SEPTEMBER 24, 1998

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.



A Core Laboratories Company

ANALYSIS OF THE STEP RATE INJECTION TEST CONDUCTED IN WELL D-7 AT DRUNKARD'S WASH

Well D-7 was completed in August, 1998 and a step rate test was conducted on August 31, 1998 to determine the fracture parting pressure in the Navajo sandstone. Both the Navajo and Wingate sandstones were opened through 592 feet of perforations at the depths shown in Table 1. Initially, three separate acid breakdown treatments were performed to open the perforations. The data from the breakdown stages is shown in Figure 1. The lower perforations were treated, then a bridge plug was set and the middle perforations were treated. Perforations were then added to the upper section and the middle and upper zones were treated together. This data shows that the middle zone represents a major part of the leakoff permeability and the addition of the upper perforations did not significantly increase the leakoff rate. The lower and middle zones had similar shut-in pressures and the upper zone had approximately 100 psi lower shut-in pressure.

Table 1 - Perforation Placement in Well D7

Perforation Location (ft)
6445-6485
6400-6406
6352-6372
6300-6335
6252-6290
6190-6246
6104-6116
6074-6095
6050-6067
6012-6046
5970-6005
5938-5966
5906-5935
5853-5897
5694-5848
5665-5688

The rates in the two step rate tests were varied from 0.5 to a maximum of 12 BPM. The analysis of the test is given in Figure 2. Both sets of data were plotted and the average parting pressure determined. The data shows that the fracture parting pressure is 920 psi as calculated from bottom hole pressure and excludes friction pressure. This corresponds to a bottom hole pressure of 3750 psi at the gauge depth of 6537 ft or a fracture parting pressure gradient of 0.57 psi/ft. The actual tectonically induced stress state is intermediate between the high value observed in D-3 and the other wells which are tectonically relaxed.

The log data from D-7 was compared to that from D-3. The data was plotted on the same footage scale by adding 117 ft to the recorded depth of D-3 and is shown in Figure 3. The three anhydrite layers are seen in both wells and the primary rubble zone is also seen. From the logs, secondary rubble zone appears possible between the 1st and 2nd anhydrite layers in D-7.

This data confirms that any water injection into the Navajo sandstone in D-7 will be confined to that zone by the high stress anhydrite layer which very predictably overlies the Navajo in all the disposal wells drilled in Drunkard's Wash to date. These data show that the injection into D-7 can be conducted at the maximum pressure limit currently in place for other wells in this area.

Data for Acid Breakdowns in D-7

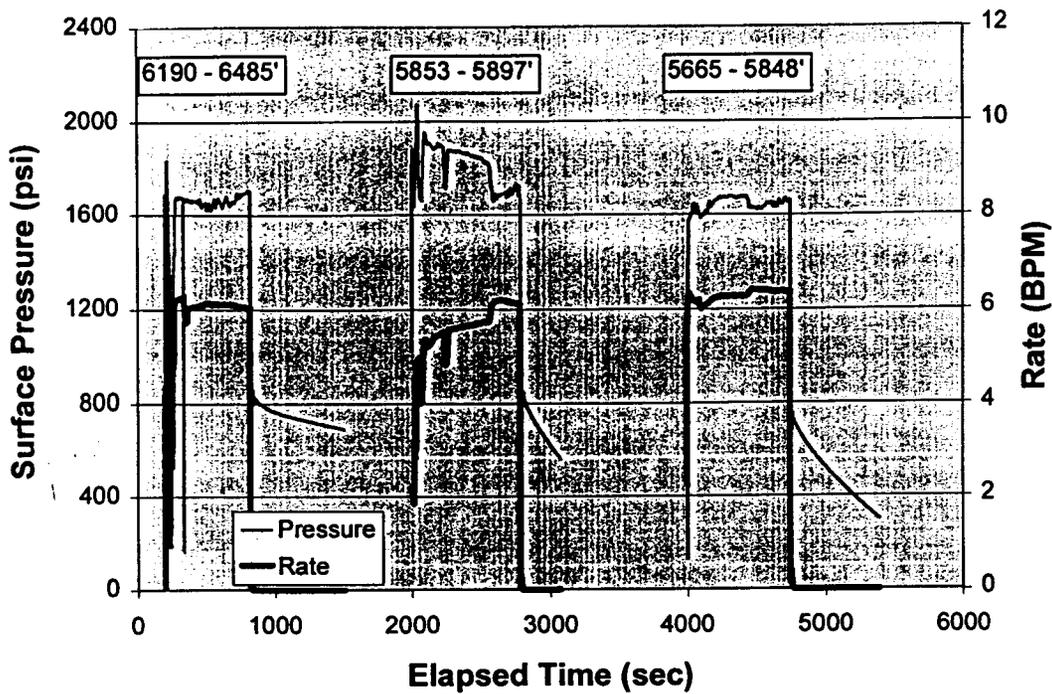


Figure 1

Step Rate Tests Performed in D-7

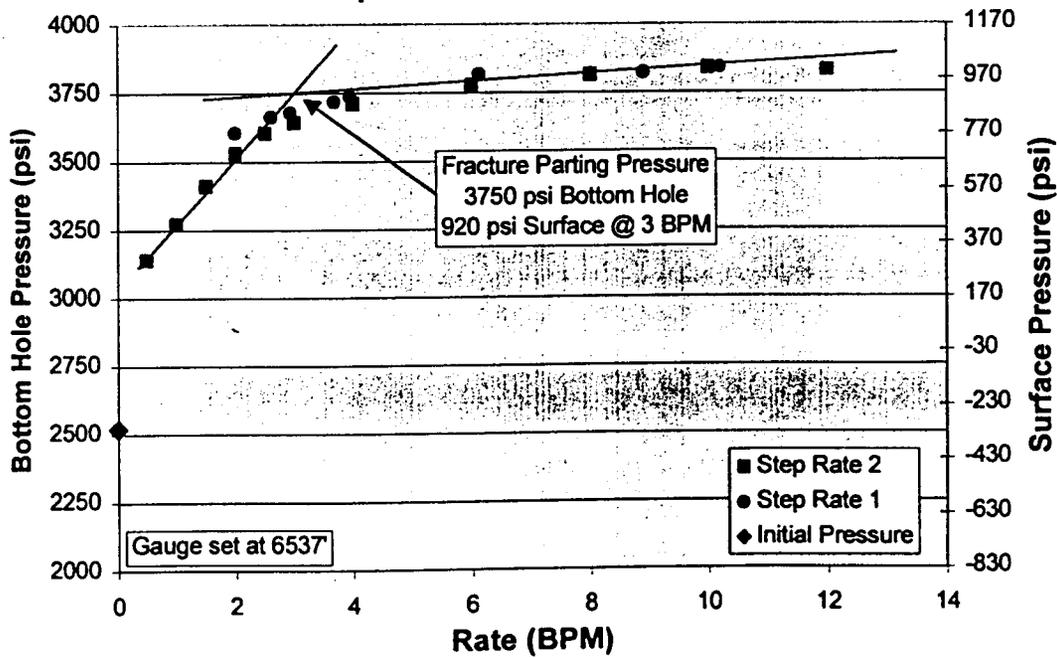


Figure 2

Comparison of Log Data for D-3 and D-7

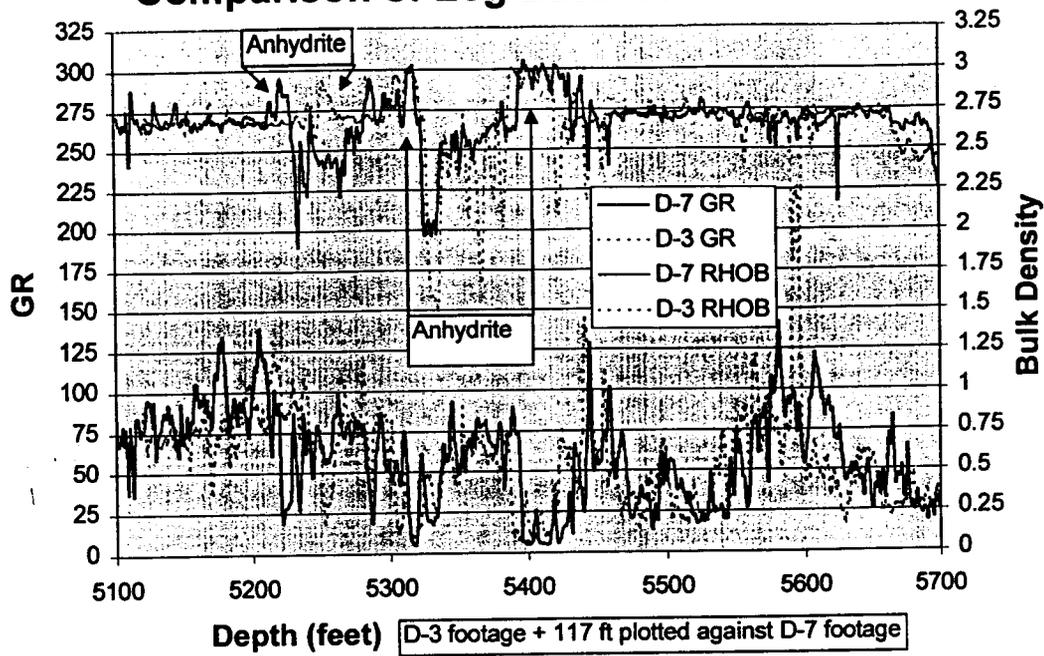


Figure 3

Michael W. Conway

September 24, 1998

UPDATED ANALYSIS OF
STRESS PROFILES IN
THE INJECTION WELLS
AT DRUNKARD'S WASH

PREPARED FOR:

RIVER GAS CORPORATION
3600 WATERMELON ROAD
NORTHPORT, ALABAMA 35476

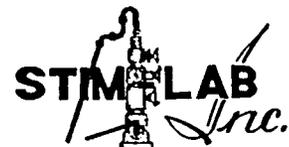
PREPARED BY:

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

P.O. NUMBER: VERBAL/JOHN HOLLINGSHEAD
FILE NUMBER: SL 4503

AUGUST 20, 1997

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 STRESS PROFILE IN THE INJECTION WELLS AT DRUNKARDS WASH

Well D-3 was completed in late May 1996 and an extensive logging and testing program was conducted to identify the stress conditions present in the reservoir. Well D-4 was completed in August 1997 and well D-5 will be completed by September 1997. Wells D-1 and D-2 were re-entries and thus did not have a complete log suite available for analysis. The full log suite on wells D-3 and D-4 have allowed us to derive a consistent picture of the stress state in the area and understand the geological factors controlling the fracture parting pressure in the Navajo and Wingate sandstones.

The dipole sonic log is the principal log used to identify the rock properties which lead to the stress condition present in the reservoir. There are a number of factors which contribute to the total stress present in the reservoir. The most important are the lithostatic stress, tectonic stress and pore pressure. A clear understanding of the role of each is needed to understand the *in-situ* stresses. Unfortunately, the normal procedures used in the industry to calibrate stress logs is so far removed from first principals that it is difficult to apply reported results from one well to another. If carefully conducted and interpreted injection stress measurements are made in all lithologies present in the wellbore, then local correlations could be made with some log parameters to apply to other wells in the near vicinity of the research well. Unfortunately, the injection stress tests are prohibitively expensive and practically there is never enough test data available to apply this approach. By applying first principals to the dipole sonic log data, injection tests in the primary zone, and 3-D hydraulic fracture modeling studies, the stress state in the various strata present in the wellbore can be defined. The key question that is being addressed is to understand the containment mechanisms present that will ensure that fluids injected into the Navajo and Wingate sandstones are in fact contained.

Currently four, and soon five wells will have been completed and tested in the Navajo Sandstone in the Drunkards Wash area and the location is shown in Figure 1. The surface pressure required to extend a fracture in the Navajo Sandstone ranges from 425 psi in D-4 to 1475 psi in D-3. This represents the two extremes and the other wells have had intermediate stresses. The strongest containment possibility in the wellbore in all wells are the anhydrite zones that over lie the target injection zones. The goal was to understand the stress state in the anhydrite zones and the causes of stress variation in the sandstones.

There are two pressures related to fracturing that are traditionally measured. The easiest to measure is the fracture parting pressure (fracture extension pressure). This is the value obtained from analysis of the step-rate test and is defined as the pressure required to open a previously existing fracture but not generate new fracture area. The second is the fracture closure pressure which is also the minimum horizontal stress. This is much more difficult to determine accurately and is determined from the analysis of the decline pressure observed during the fall-off after injecting of fluid above parting pressure. This is also the value calculated from logs and needed for the 3-D hydraulic fracturing simulations. Fortunately, the computer simulations and pressure fall-



off tests show that the closure pressure is reasonably predictable and is 300-400 psi below the fracture extension pressure.

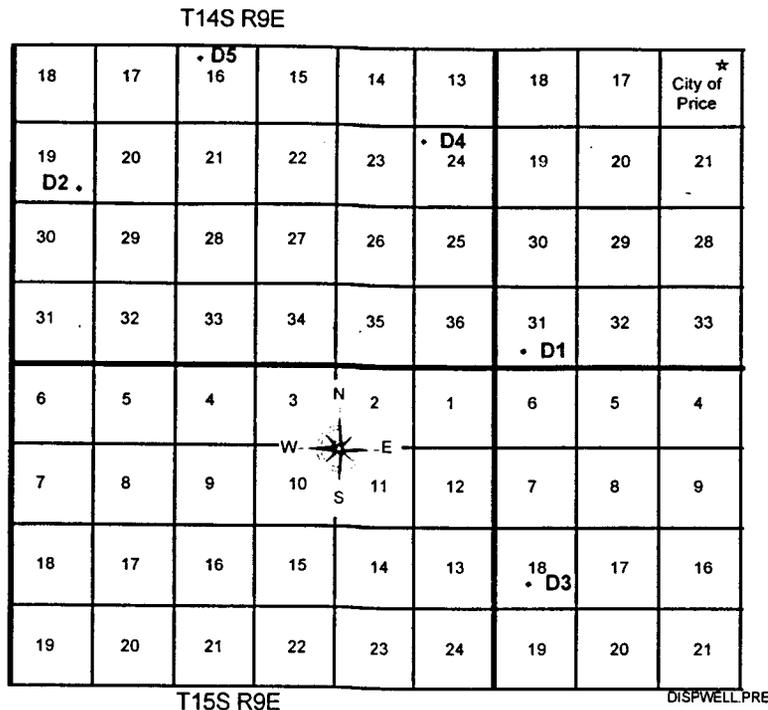


Figure 1 - Locations of the disposal wells in the River Gas, Drunkards Wash Project, Carbon County, Utah. The City of Price and township corners are shown for location and scale.

MINIMUM HORIZONTAL CLOSURE STRESS

The closure stress is computed from the *lithostatic stress + pore pressure + tectonic stress*. Each of these components were studied in detail for wells D-3 and D-4 where adequate information was available.

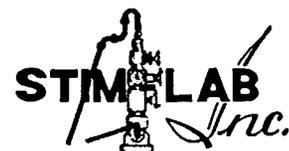
PORE PRESSURE:

The pore pressure in each well was determined from the analysis of the data from the fall-off test as well as the other pertinent reservoir properties. The data is given in Table 1.

Table 1 - Reservoir Properties for Drunkard's Wash Disposal Wells

Reservoir Property	Well D-3 ^a	Well D-4
Conductivity (md-ft)	264	960
Skin	-5.8	-3.9
Initial Reservoir Pressure (psi)	2394	2490
Top of Navajo (ft)	5532	5972

^aFall-off test conducted after the well had been hydraulically fractured



LITHOSTATIC STRESS:

The lithostatic stress arises from the weight of the overburden. The load placed on a particular rock layer by the weight of the overburden creates a horizontal stress. Poisson's ratio is a measure of the amount of horizontal stress created by the load. The lithostatic stress is equal to Poisson's ratio divided by $(1 - \text{Poisson's ratio})$ multiplied by the vertical stress. The Poisson's ratio measured by logs and in the laboratory is due to the elastic nature of rock. However, certain rock types, namely shales, coal and limestone behave like a plastic and there is some permanent deformation that creates additional horizontal stress. Therefore, the Dipole Sonic Log which measures only the elastic component of stress will typically calculate the minimum lithostatic stress. Furthermore, the Dipole Sonic Log cannot detect any of the tectonic component of total stress.

The log similarities between the wells is amazing even though D-3 and D-4 are separated by over 6 miles. Minor depth adjustments were made and Figure 2 shows the comparison of the gamma ray and bulk density logs. Measured from surface, the correlating zones in D-4 are approximately 450 ft deeper than D-3. The rubble zone which will be discussed more later is characterized by a low gamma ray and low bulk density and is 20 ft bigger in D-4 than D-3 but there is 20 less feet between anhydrite zones 2 and 3 in D4 compared to D3. These adjustments were made in Figure 2 to show the similarities when both wells when adjusted to the same elevation (based on D-4). The Poisson's Ratio comparison which is used to calculate lithostatic stress with the same depth adjustments is shown in Figure 3. The values are similar but the D-4 log is much more erratic which is due to the borehole irregularities. Unfortunately, the Dipole Sonic log is not borehole compensated and therefore the computed values are much less reliable when the borehole is washed out and irregular. The average Poisson's Ratio in the anhydrite zones is 0.31 which gives the lithostatic stress component for the middle anhydrite shown in Table 2 after all depth adjustments are made for pore pressure and overburden depth.

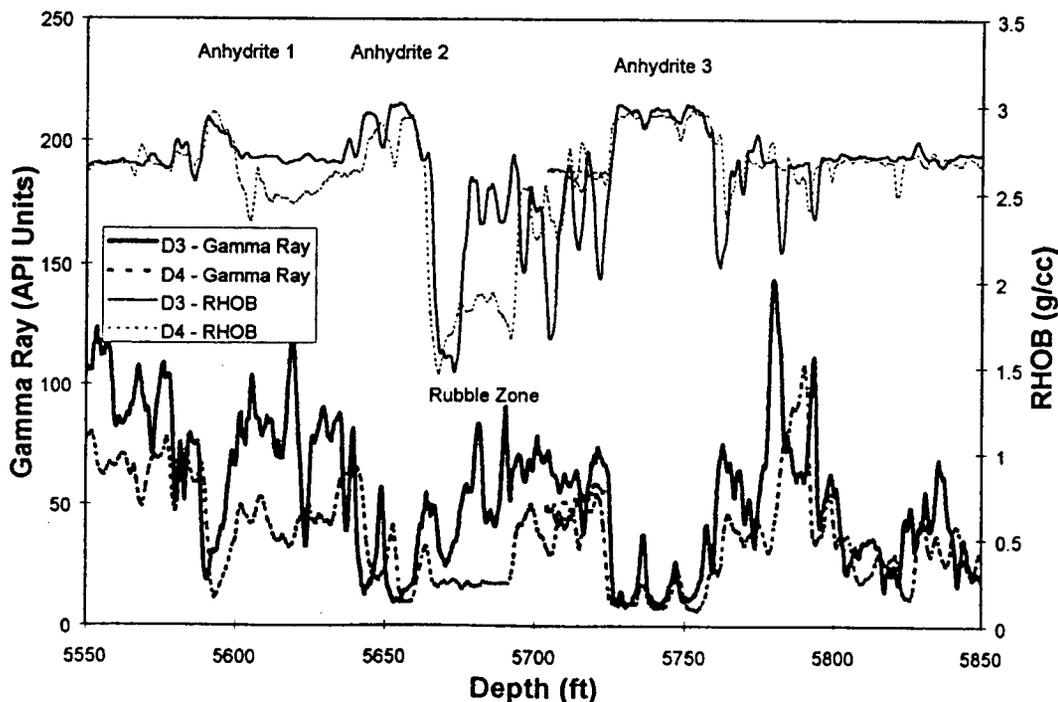


Figure 2

Table 2 - Lithostatic Stress Calculations in Middle Anhydrite for Drunkard's Wash Disposal Wells

Reservoir Property	Well D-3	Well D-4
Average Depth (ft)	5200	5650
Pore Pressure (psi)	2028	2198
Lithostatic Stress (psi)	1425	1551

This is the minimum lithostatic stress since anhydrites are known to be somewhat plastic and therefore the effective Poisson's Ratio is significantly higher but cannot be determined from the logs. If the Poisson's Ratio is 0.5 then all the overburden stress is converted to horizontal stress and only one-third that value if Poisson's Ratio is 0.25.

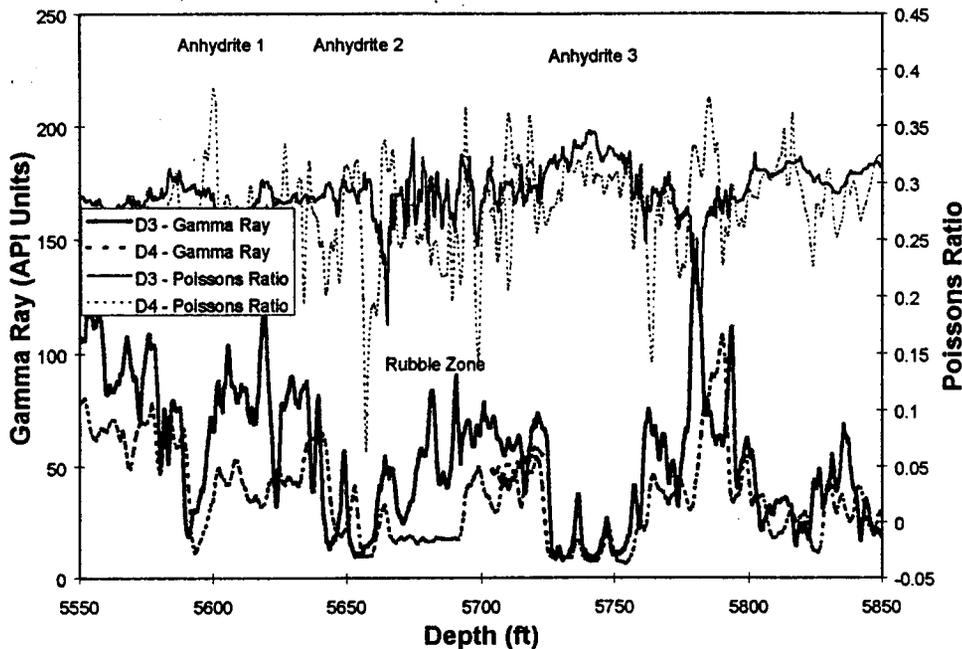


Figure 3

TECTONIC STRESS:

Characterization of the horizontal stress that arises because of tectonics is more difficult to quantify. In Drunkard's Wash, a review of the geology provided insight about horizontal stress component. When a lateral stress is applied to a rock mass it results in a strain that is translated into horizontal stress. The area has been tectonically active and is confirmed by the presence of a thrust fault in the vicinity of the Navajo Sandstone in D-3 at about 5200 ft and 5650 ft in D-4. These lateral slip faults are often difficult to detect because there is no vertical displacement. The FMI log run in D-3 confirmed the presence of a rubblized zone just below the middle anhydrite zone and confirmed the suspected repeat of the lower anhydrite section. When a horizontal stress is placed on heterogeneous, layered rock mass; the stiffer rocks (measured as higher Young's Modulus) will bear the majority of the load because they deform less. This is in fact the definition of Young's Modulus where strain equals change in length divided by the total length and Young's modulus is the slope of the stress-strain curve. This results in higher *in-situ* stress in the high modulus rocks. At some point in time, the tectonic stress from the

northwest concentrated the strain in the anhydrite layers and they mechanically failed and the section was thrust over itself. As the plate rode over itself it created a rubblized zone just under the anhydrite. This condition also exists in the newly drilled D-5 well at about 6220 ft so we can conclude that this plate movement has large aerial extent. This process is shown schematically in Figure 4.

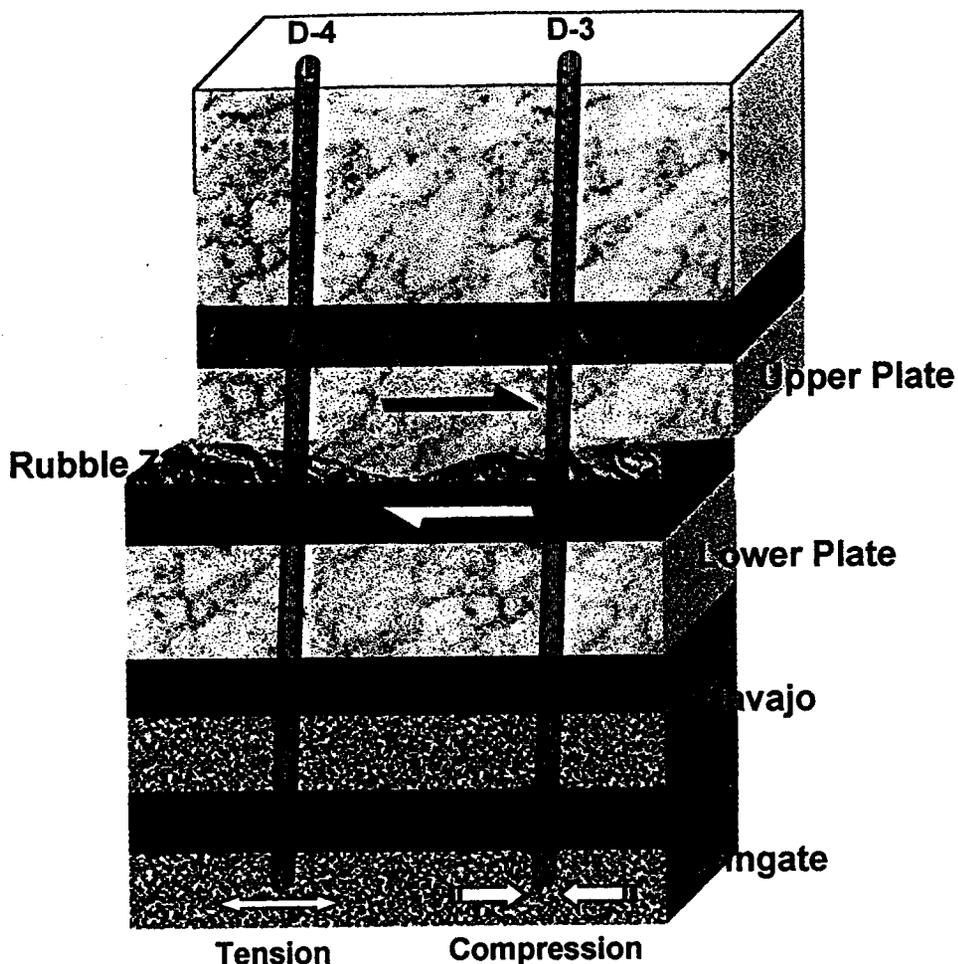


Figure 4

From this understanding we can deduce that the tectonic stress is still present in the zones above the rubble zone. The tectonic stress in the zones below the rubble zone just depends on how effectively the slippage relieved the stress arising from the overthrust. As the upper plate rides over the lower plate very anomalous stresses can arise in the lower plate. In Figure 4, we show a protrusion in the upper plate that creates a point load and it slides over the lower plate. Rocks in the lower plate will be put in compression ahead of protrusion and those behind the protrusion will actually be in tension. Fracture modeling with a 3-D Grid Oriented Hydraulic Fracture Extension Replicator (GOHFER[®]) shows that there is a tectonic tension of approximately 400 psi in the Navajo Sandstone in D-4 and a tectonic compression of approximately 500 psi in D-3. We do not have any direct measure of the tectonic compression in the upper plate other than it has to be reasonably constant and higher than the highest value measured in the Navajo Sandstone.

Since D-3 is in compression, we can calculate the minimum tectonic stress that must be in the anhydrite in the upper plate. The fracture parting pressure calculated in D-3 at a reference depth of 5560 ft is 4106 psi (1475 psi surface). The stress components required to give this pressure are:

1. Lithostatic Stress (sandstone) = 803.7 psi
2. Pore Pressure = 2170.2 psi
3. Tectonic Stress (sandstone) = 853.0 psi
4. Net Closure Stress = 279.0 psi (fracture extension - fracture closure pressure)

The tectonic strain required to create the observed tectonic stress is 130 microstrains. The tectonic stress in the anhydrite layers will be even higher because the dynamic Young's Modulus is 11.5 in the anhydrite compared to 6.5 in the sandstone. This gives a minimum tectonic stress in the anhydrite above the rubble zone of 1500 psi in well D-3.

We can now compute the minimum fracture extension pressure in the anhydrite above the rubble zone in well D-4 based on the mechanical properties measured in that wellbore. Since the calculation is depth sensitive, it will be calculated at a datum depth of 5660' which is approximately where it occurs in D-4.

1. Lithostatic Stress (anhydrite) = 1493 psi
2. Pore Pressure = 2191 psi
3. Tectonic Stress (anhydrite) = 1390 psi
4. Net Closure Stress = 279.0 psi (fracture extension - fracture closure pressure)
5. Fracture parting pressure (anhydrite) = 5344 psi @ 5660 ft or 2893 psi surface.

The anhydrite below the rubble zone will have lower stress in the wellbore at D-1 and D-4. In these wellbores, the lower Young's Modulus rocks and shales will be higher stress and will help contain any created fracture. The containment in the Navajo has been confirmed in well D-1 where a radioactive tracer survey showed no fluid movement above the upper perforations. D-1 had an initial fracture extension pressure of 550 psi and the tracer survey showed containment in the Navajo even after 6.5 million barrels water has been injected at surface pressures up to 1350 psi.

There is a second mechanism that creates higher stress zones that is not typically included in the calculated stresses but has been previously mentioned. This is the plastic nature of many shales which has been confirmed in the shales in this area. When the D-3 Wingate (perfs at 6030-6040 ft) pre-frac step rate test was conducted, the pressure analysis showed that the fracture did not breach the barriers at approximately 5950 ft. This same barrier was not breached during the fracturing treatment and the shales in this area are believed to be the additional higher stress layer responsible for the fracture containment.

The data collected at the GRI/DOE multiwell research site, shows some shales have stresses equal to the overburden stress. This corresponds to a Poisson's ratio equal to 0.5 rather than the 0.35 value measured by the logs. Stimulation treatments conducted in the shaley parts of the Ferron sand interval confirm that the stresses must be equal to the overburden in the coals and shales to create the high fracturing treating pressures observed. The gamma ray spectrum shows that there are shale layers above the Navajo sandstone which create even higher stress barriers than those previously calculated for the siltstones and anhydrite. Without these plastic shales, we would have expected some fracture extension above the Navajo sandstone. Therefore, we have concluded that there are a number of barriers even in the lower plate below the rubble zone which would prevent upward fracture growth when the injection pressure is above the fracture extension pressure measured in the upper Navajo sand which is also in agreement with the tracer test conducted in D-1.

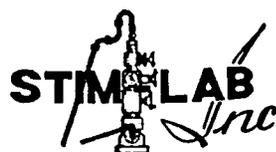
RECOMMENDATION

Previously, we had suggested that the surface injection pressure maximums in the injection wells could safely be increased to 1500 psi in D-1, 1600 psi in D-2 and 2500 psi in D-3. This was based on considering that the lower fracturing gradient in the Navajo Sand in D-1 and D-2 is due to a reduced tectonic stress in these wells. The new information shows that while the tectonic stress in the Navajo sand in the lower plate is reduced, the tectonic stress in the anhydrites in the upper plate are at least as high as originally estimated in D-3. This data shows that the upper anhydride barrier should not be breached even with a surface injection pressure equivalent to 2800 psi in D-4 (corrected for actual depth) in any of the wells.

The stress in the shales were discussed above and the injection testing in D-3 and the recent radioactive tracer test in D-1 confirm that the shales must be plastic and have higher stress than was predicted by the dipole sonic log. The analysis of all injection and log data confirms that fluids injected into the Navajo sandstone will be confined to that interval.

Michael W. Conway, Ph.D.

August 20, 1997



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: ML-46094
2. Name of Operator: River Gas Corporation	6. If Indian, Allottee or Tribe Name: N/A
3. Address and Telephone Number: 1305 South 100 East, Price, UT 84501 (435)637-8876	7. Unit Agreement Name: Drunkards Wash UTU-67921X
4. Location of Well Footages: 1371' FSL, 1530' FEL OO. Sec., T., R., M.: SW/4, SE/4, SEC.2, T16S, R9E, SLB&M	8. Well Name and Number: D-7
	9. API Well Number: 43-015-30338
	10. Field or Pool, or Wildcat: Drunkards Wash
	County: Emery
	State: UTAH

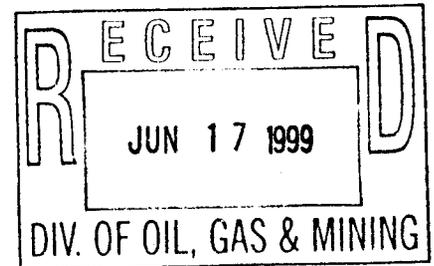
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<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 checked="" type="checkbox"/> Other <u>Pressure Increase</u>	<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"/> Other _____
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <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 Casing <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

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.)

SEE ATTACHED

APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 6-22-99
 BY: [Signature]



13

Name & Signature John Hollingshead Title: Reservoir Engineer Date: 6/11/99

(This space for state use only) *Approved injection pressure is 1700 psig. See attached letter + reports by Stim Lab.*

INJECTION WELL - INSPECTION RECORD

Well Name: <u>Utah D-7</u>	API Number: <u>43-015-30338</u>
Qtr/Qtr: <u>NW/SE</u> Section: <u>2</u>	Township: <u>16S</u> Range: <u>9E</u>
Company Name: <u>River Gas Corporation</u>	
Lease: State _____ Fee _____	Federal <u>x</u> Indian _____
Inspector: <u>Dennis L. Ingram</u>	Date: <u>04/25/00</u>

Injection Type:

Disposal: WDW Enhanced Recovery: _____ Other: _____

Injecting: No Shut-In: _____

Rate: 0.0 (bpd) Totalizer: 425105 (bbls)

Gauges: Tubing: Yes

Casing: No Casing Pressure: _____ (psig)

Tubing Pressure: 920 (psig) Housekeeping: Good

Equipment Condition: Good

COMMENTS: Barton recorder and chart shows activity each hour. Location is bermed. Murphy shut down switch is set for 1700 psi.

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 GAS OTHER:

2. Name of Operator:
River Gas Corporation

3. Address and Telephone Number: 6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

4. Location of Well Footages:
QQ, Sec., T., R., M.: SLB & M

5. Lease Designation and Serial Number:

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

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)

- Abandon
 - Repair Casing
 - Change of Plans
 - Convert to Injection
 - Fracture Treat or Acidize
 - Multiple Completion
 - Other Change of Operator
- Approximate date work will start _____

- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon *
 - Repair Casing
 - Change of Plans
 - Convert to Injection
 - Fracture Treat or Acidize
 - Other _____
- Date of work completion _____

- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

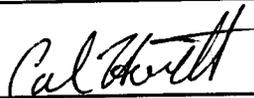
* Must be accompanied by a cement verification report.

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.)

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	

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

SENIOR COUNSEL:

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OLIVER W. GUSHEE, JR.

OF COUNSEL:

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BRENT A. BOHMAN

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

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:

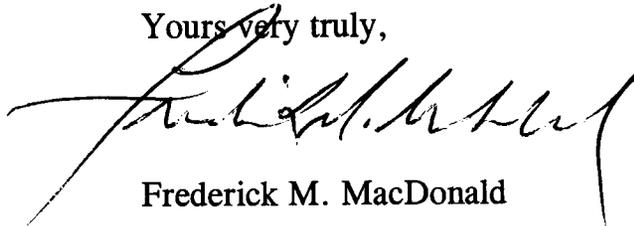
Phillips Petroleum Company
Attn: Billy Stacy, Operations Manager
P.O. Box 3368
Englewood, CO 80155-3368
Telephone No.: (720) 344-4984

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.

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>

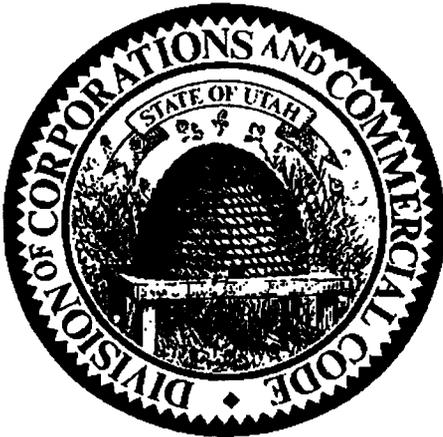
Registration Number: 562960-0143
Business Name: PHILLIPS PETROLEUM COMPANY
Registered Date: JUNE 14, 1946

01/12/01

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
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

6870000000
00171191

Office of the Secretary of State



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

Date

[Signature] 12/10/00
[Signature]



RIC CAMPBELL
ACTING DIRECTOR

TAP
FILED

DEC 12 2000

Utah Bar. 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
N. A. Loftis, Assistant Secretary

OPERATOR CHANGE WORKSHEET

ROUTING		
1. GLH	<input checked="" type="checkbox"/>	4-KAS <input checked="" type="checkbox"/>
2. CDW	<input type="checkbox"/>	5- CD <input checked="" type="checkbox"/>
3. JLT	<input type="checkbox"/>	6-FILE <input type="checkbox"/>

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**

FROM: (Old Operator):
RIVER GAS CORPORATION
Address: 6825 S. 5300 W. P. O. BOX 851
PRICE, UT 84501
Phone: 1-(435)-613-9777
Account N1605

TO: (New Operator):
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:



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

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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, 8th 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)

TRANSFER OF AUTHORITY TO INJECT

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

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



Re: Notice of Address Change, Merger and Name Change
Address Change effective **December 2, 2002**
Merger and Name Change effective **December 31, 2002**

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

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,

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DEC 02 2002

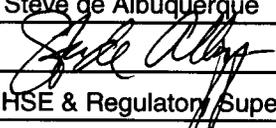
DIVISION OF
OIL, GAS AND MINING

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

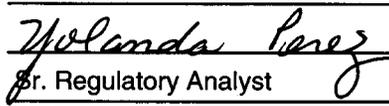
EFFECTIVE DATE OF TRANSFER: 1/1/2003

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		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: Phillips Petroleum Company		8. WELL NAME and NUMBER: See Attached List
3. ADDRESS OF OPERATOR: 980 Plaza Office CITY Bartlesville STATE OK ZIP 74004		9. API NUMBER: See List
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached List		10. FIELD AND POOL, OR WILDCAT:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY:
		STATE: UTAH

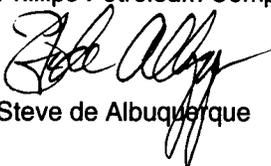
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

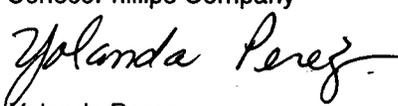
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT 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

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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)



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 12th 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 12th 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.

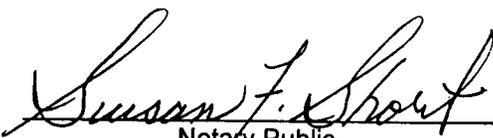

 Assistant Secretary
 ConocoPhillips Company

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


 Notary Public

Delaware

PAGE 1

The First State

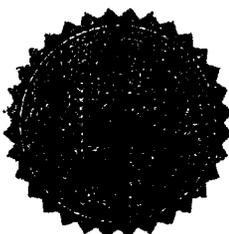
I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "PHILLIPS PETROLEUM COMPANY", CHANGING ITS NAME FROM "PHILLIPS PETROLEUM COMPANY" TO "CONOCOPHILLIPS COMPANY", FILED IN THIS OFFICE ON THE 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.

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Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 2183360

DATE: 01-02-03

0064324 8100

030002793

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.

IN WITNESS WHEREOF, Phillips has caused this certificate to be executed this 12th day of December, 2002.

PHILLIPS PETROLEUM COMPANY

WJ

By: 
Name: Rick A. Harrington
Title: Senior Vice President, Legal,
and General Counsel

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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:

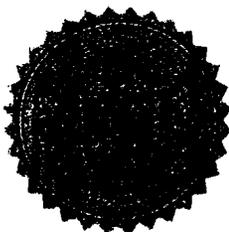
"CONOCO INC.", A DELAWARE CORPORATION,
WITH AND INTO "CONOCOPHILLIPS COMPANY" UNDER THE NAME OF "CONOCOPHILLIPS COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWELFTH DAY OF DECEMBER, A.D. 2002, AT 1:44 O'CLOCK P.M.

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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DIV. OF OIL, GAS & MINING



Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 2183370

0064324 8100M

030002793

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)



By: 
Name: Rick A. Harrington
Title: Senior Vice President, Legal,
and General Counsel

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STATE OF UTAH
DEPARTMENT OF COMMERCE
REGISTRATION

REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S)

Corporation - Foreign - Profit
562960-0143

CONOCOPHILLIPS COMPANY

EFFECTIVE
06/14/1946

EXPIRATION
*RENEWAL

UNITED STATES CORP CO
CONOCOPHILLIPS COMPANY
GATEWAY TOWER EAST STE 900
10 EAST SOUTH TEMPLE
SLC UT 84133

RECEIVED

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 ✓
2. CDW
3. FILE

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**

FROM: (Old Operator):	TO: (New Operator):
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:

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ORIGINAL

SUNDRY NOTICES AND REPORTS ON WELLS	5. Lease Designation and Serial Number: ML-46094
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.	6. If Indian, Allottee or Tribe Name: N/A
	7. Unit Agreement Name: UTU67921X Drunkards Wash
1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <input checked="" type="checkbox"/>	8. Well Name and Number: Utah Disposal #7
2. Name of Operator: ConocoPhillips Company	9. API Well Number: 43-015-30338
3. Address and Telephone Number: 6825 South 5300 West, P.O. Box 851, Price, UT 84501 (435) 613-9777	10. Field or Pool, or Wildcat: Drunkards Wash
4. Location of Well Footages: 1371' FSL, 1530' FEL	County: Emery County
QQ, Sec., T., R., M.: SW/SE, SEC. 02, T16S, R09E, SLB & M	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)
<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>09/10/04</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-7 disposal well on 9/10/04. Prior to the test, a seal bore packer with tailpipe assembly was run and set with top of packer at 5500' GL. Top perforation is at 5665' GL. An "XN" plug was set in a profile nipple on the tailpipe below the packer and the 7" casing was tested to 1200 psi for 15 minutes with no leak-off.

Mark Jones from the DOGM was present for the pressure test.

**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)



INJECTION WELL - PRESSURE TEST

Well Name: Utah D-7 API Number: 43-015-30338
 Qtr/Qtr: SWSE Section: 2 Township: 16S Range: 9E Sec 2
 Company Name: ConocoPhillips
 Lease: State X Fee _____ Federal _____ Indian _____
 Inspector: Mark L. Jones Date: 9/10/04

Initial Conditions:

Tubing - Rate: N/A Pressure: N/A psi
 Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0 1:00 1:00	1250	N/A
5	_____	_____
10	_____	_____
15 1:15	1250	N/A
20 1:20	1250	N/A
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psi No tubing
 Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: No tubing in this hole. This well has not pumped water or taken any water in past 3-4 months.

Mike Ward,
 Operator Representative

RECEIVED
 NOV 18 2004
 DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46094
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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: DRUNKARDS WASH
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: UTAH D7
2. NAME OF OPERATOR: CONOCOPHILLIPS COMPANY	9. API NUMBER: 43015303380000
3. ADDRESS OF OPERATOR: P.O. Box 51810 , Midland, TX, 79710 1810	PHONE NUMBER: 432 688-6943 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1371 FSL 1530 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 02 Township: 16.0S Range: 09.0E Meridian: S	9. FIELD and POOL or WILDCAT: DRUNKARDS WASH COUNTY: EMERY STATE: UTAH

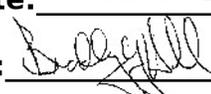
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/2/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="MIT"/>

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

A successful mechanical integrity test was performed on the above disposal well on March 2, 2011. The test was witnessed by a representative of DOGM.

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

Date: 03/09/2011
By: 

NAME (PLEASE PRINT) Donna Williams	PHONE NUMBER 432 688-6943	TITLE Sr. Regulatory Specialist
SIGNATURE N/A	DATE 3/8/2011	

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46094
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Water Disposal Well		7. UNIT or CA AGREEMENT NAME: DRUNKARDS WASH
2. NAME OF OPERATOR: CONOCOPHILLIPS COMPANY		8. WELL NAME and NUMBER: UTAH D7
3. ADDRESS OF OPERATOR: P.O. Box 51810 , Midland, TX, 79710 1810		9. API NUMBER: 43015303380000
PHONE NUMBER: 432 688-6943 Ext		9. FIELD and POOL or WILDCAT: DRUNKARDS WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1371 FSL 1530 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 02 Township: 16.0S Range: 09.0E Meridian: S		COUNTY: EMERY
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/5/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="MIT"/>

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

The required MIT was performed on April 5, 2013. The test was successful and was witnessed by a representative of DOGM.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 02, 2013**

NAME (PLEASE PRINT) Donna Williams	PHONE NUMBER 432 688-6943	TITLE Sr. Regulatory Specialist
SIGNATURE N/A	DATE 4/9/2013	

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-46094
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Water Disposal Well		7. UNIT or CA AGREEMENT NAME: DRUNKARDS WASH
2. NAME OF OPERATOR: CONOCOPHILLIPS COMPANY		8. WELL NAME and NUMBER: UTAH D7
3. ADDRESS OF OPERATOR: P.O. Box 51810 , Midland, TX, 79710 1810		9. API NUMBER: 43015303380000
PHONE NUMBER: 432 688-6943 Ext		9. FIELD and POOL or WILDCAT: DRUNKARDS WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1371 FSL 1530 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 02 Township: 16.0S Range: 09.0E Meridian: S		COUNTY: EMERY
		STATE: UTAH

11.

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

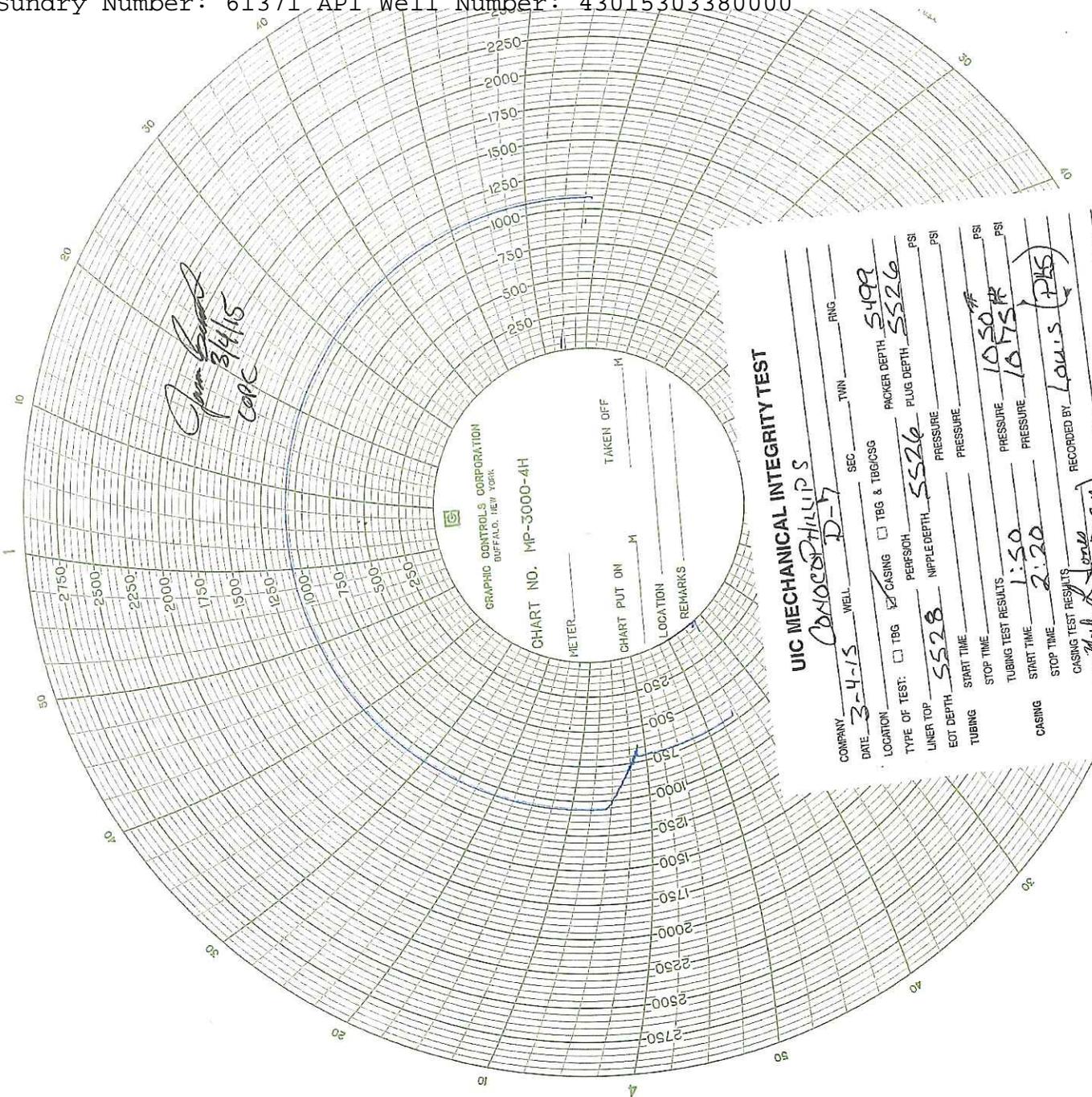
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/4/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="MIT"/>

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

Per the permit, a successful MIT was performed on the above well on March 4, 2015 and was witnessed by a DOGM representative. A copy of the chart is attached.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
March 05, 2015**

NAME (PLEASE PRINT) Donna Williams	PHONE NUMBER 432 688-6943	TITLE Sr. Regulatory Specialist
SIGNATURE N/A	DATE 3/5/2015	



Plan Smith
3/4/15
COAC

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO. MP-3000-4H

METER _____ M
CHART PUT ON _____ M
TAKEN OFF _____ M
LOCATION _____
REMARKS _____

UIC MECHANICAL INTEGRITY TEST

COMPANY CONCORD HILLIPS WELL D-7 SEC. _____ TWIN _____ RING _____

DATE 3-4-15 LOCATION _____ Packer Depth 5492

TYPE OF TEST: TBG CASING TBG & TBG/CSG Plug Depth 5526

LINEAR TOP 5528 PERFS/CH NIPPLE DEPTH 5526 PSI _____

EOT DEPTH 5528 NIPPLE DEPTH _____ PRESSURE _____ PSI _____

TUBING START TIME _____ STOP TIME _____ PRESSURE _____ PSI _____

CASING START TIME 1:50 STOP TIME 2:20 PRESSURE 1050 PSI _____

START TIME _____ STOP TIME _____ PRESSURE 1075 PSI _____

RECORDED BY LOUIS (PLS)

WITNESSED BY Mark [Signature] (UDDGM)

COMMENTS _____