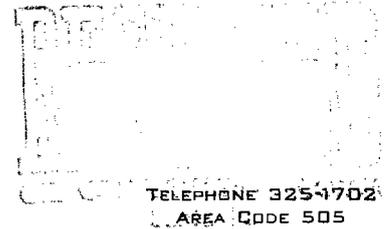


BURR & COOLEY  
ATTORNEYS AND COUNSELORS AT LAW  
SUITE 152 PETROLEUM CENTER BUILDING  
FARMINGTON, NEW MEXICO  
87401



JOEL B. BURR, JR.  
WM. J. COOLEY

November 15, 1973

Oil Conservation Commission of New Mexico  
P.O. Box 2088  
Santa Fe, New Mexico 87501

SWD  
152

Attention: A. L. Porter  
Secretary-Director

Gentlemen:

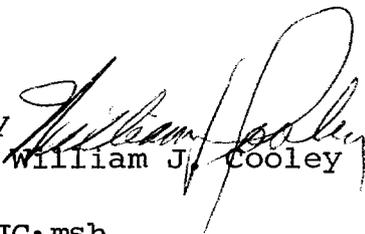
Re: Application of Rodney P. Calvin for Salt Water  
Disposal Well, Kaempf #1 Well, Unit N  
Sec. 19, T-30-N, R-11-W, San Juan County, New Mexico

We are forwarding herewith on behalf of our client, Rodney P. Calvin, the enclosed Application to Dispose of Salt Water by Injection Into a Porous Formation with respect to the above referred well. Also enclosed herewith are Waivers of Objection from the surface owners and all operators within one-half mile of the proposed injection well.

Accordingly, we hereby request that the Commission dispense with the fifteen day waiting period and issue its Administrative Order authorizing the proposed injection well forthwith in order to prevent waste and protect the correlative rights of our client.

Respectfully submitted,

BURR & COOLEY  
Attorneys for Rodney P. Calvin

by   
William J. Cooley

WJC:msh

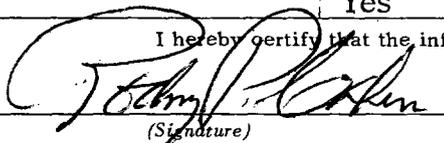
Enc. as stated

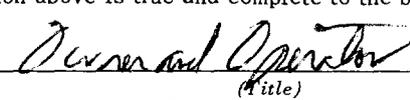
NEW MEXICO OIL CONSERVATION COMMISSION  
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR <b>RODNEY P. CALVIN</b>		ADDRESS <b>555 Seventeenth St., Denver, Colo. 80202</b>	
LEASE NAME <b>Mildred A. Wright</b>	WELL NO. <b>SWD- Kaempf #1</b>	FIELD <b>Basin - Dakota</b>	COUNTY <b>San Juan</b>
LOCATION <b>1500</b> UNIT LETTER <b>N</b> ; WELL IS LOCATED <b>1450</b> FEET FROM THE <b>West</b> LINE AND <b>790</b> FEET FROM THE <b>South</b> LINE, SECTION <b>19</b> TOWNSHIP <b>30 N</b> RANGE <b>11 W</b> 6 NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	5-1/2"	90 feet	20	Surface	Circulation
INTERMEDIATE	None				
LONG STRING	2-7/8"	500 feet	60	Surface	Circulation
TUBING	2-1/16"	475 feet		90 feet	Calculation
NAME OF PROPOSED INJECTION FORMATION <b>Ojo Alamo</b>		TOP OF FORMATION <b>500 feet</b>		BOTTOM OF FORMATION <b>575 feet</b>	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>		PERFORATIONS OR OPEN HOLE? <b>Open hole</b>	PROPOSED INTERVAL(S) OF INJECTION <b>500 feet to 575 feet.</b>		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>Yes</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>N/A</b>		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>N/A</b>		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>N/A</b>					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>18 feet</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>None</b>		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>Pictured Cliffs 1950 feet</b>	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) <b>400</b>	MINIMUM <b>400</b>	MAXIMUM <b>500</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Pressure</b>	APPROX. PRESSURE (PSI) <b>250 lbs.</b>
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - <b>Yes</b>			WATER TO BE DISPOSED OF <b>Yes</b>	NATURAL WATER IN DISPOSAL ZONE <b>Yes</b>	ARE WATER ANALYSES ATTACHED? <b>Yes</b>
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>A. L. Ridens, South Side Road, Aztec, New Mexico 87410</b>					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
<b>Amoco Production Company, Security Life Building, Denver, Colorado</b>					
<b>El Paso Natural Gas Company, Petroleum Club Plaza, Farmington, New Mexico 87401</b>					
<b>Texaco, Inc., 1740 Grant Street, Denver, Colorado</b>					
<b>Aztec Oil &amp; Gas Co., First National Bank Building, Dallas, Texas 75202</b>					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? <b>Yes</b>		SURFACE OWNER <b>A.L. Ridens-Yes</b>		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>Yes</b>	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA <b>Yes</b>		ELECTRICAL LOG <b>Not available</b>	
				THE NEW MEXICO STATE ENGINEER <b>Yes</b>	
				DIAGRAMMATIC SKETCH OF WELL <b>Yes</b>	

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

  
(Signature)

  
(Title)

**Oct 12, 1973**  
(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.



SCHLUMBERGER WELL SERVICES  
 5000 GULF FREEWAY, P.O. BOX 2175  
 HOUSTON, TEXAS 77001, (713) 928-2511

PLEASE REPLY TO  
 P.O. BOX 250  
 FARMINGTON, NEW MEXICO 87401

October 12, 1973

Mr. Rodney P. Calvin  
 555 17th Street  
 Denver, Colorado 80202

Dear Mr. Calvin:

The results of the water samples furnished by you from the Kaempf #1 and Joe Gillentine Water Well are as follows:

Kaempf #1 ( SE $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 19-T30N-R11W, San Juan Co., N.M.; Description added by Rodney P. Calvin) = 4000 ppm chlorides *RPB 10/15/73*

Joe Gillentine Water Well (NE $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 19-T30N-R11W, San Juan Co., N.M. Description added by Rodney P. Calvin) = 5818 ppm chlorides *RPB 10/15/73*

Thank you for the opportunity of serving you and if we can be of further service, please call.

Yours very truly,

SCHLUMBERGER WELL SERVICES

cc  
 Mr. Jack Cooley  
 Attorney  
 152 Petroleum Center  
 Farmington, New Mexico 87401

*H.D. Hollingsworth*  
 H.D. Hollingsworth  
 District Manager

All interpretations are opinions based on inferences from electrical or other measurements and 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 Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.



**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Operator <b>P. RODNEY/CALVIN</b>		Lease <b>KAEMPF</b>		Well No. <b>1</b>	
Unit Letter <b>N</b>	Section <b>19</b>	Township <b>30 NORTH</b>	Range <b>11 WEST</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well: <b>790</b> feet from the <b>SOUTH</b> line and <b>1450</b> feet from the <b>WEST</b> line					
Ground Level Elev. <b>5644.0</b>	Producing Formation <b>Dakota</b>	Pool <b>Basin Dakota</b>	Dedicated Acreage <b>327.70</b> Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes     No    If answer is "yes," type of consolidation communitization

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

**Rodney P. Calvin** \_\_\_\_\_  
Name

**Owner and Operator** \_\_\_\_\_  
**Rodney P. Calvin, Oil & Gas**  
**Claud B. Hamill and XO**  
 Company **Exploration, Inc.**

Date **Feb. 28, 1973**

*[Signature]*

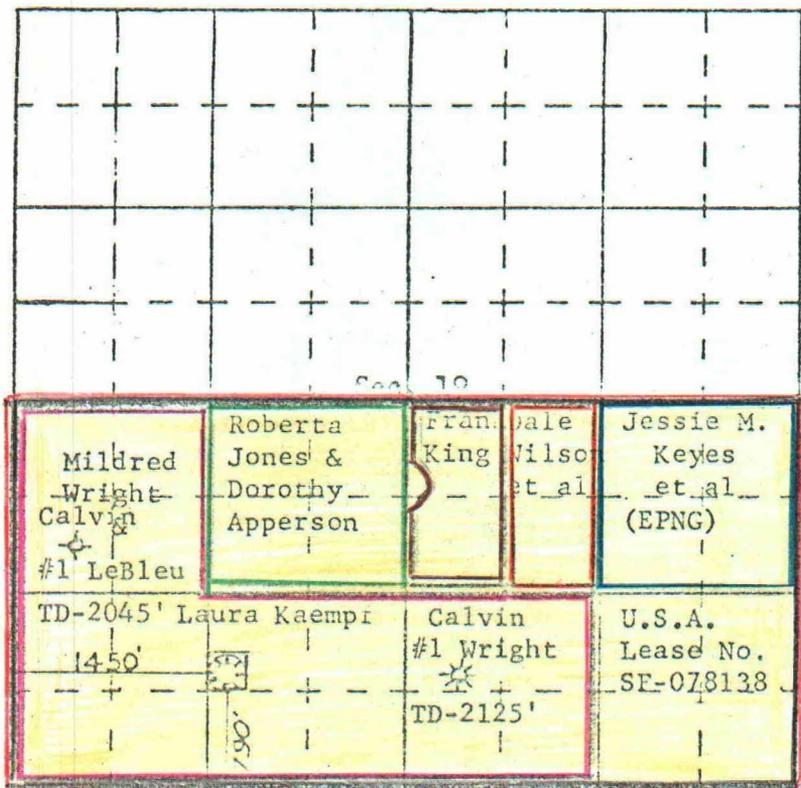
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

**4th, January, 1973**

*[Signature]*  
 Registered Professional Engineer  
 and/or Land Surveyor

**JAMES P. IEESE**

Certificate No. **1463**

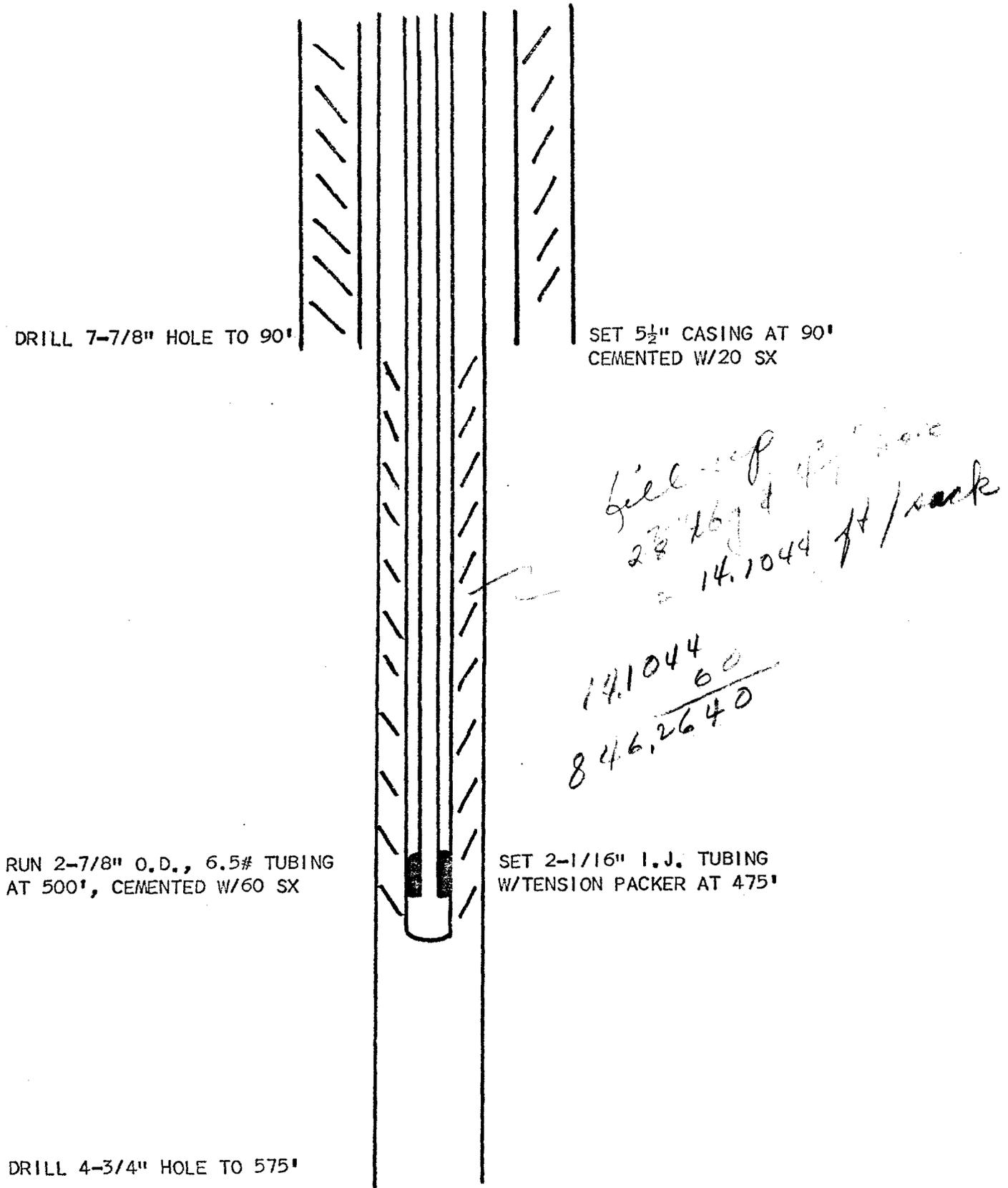


SCALE—4 INCHES EQUALS 1 MILE

LEGEND  
 SAN JUAN BASIN LEASE MAPS  
 FARMINGTON AREA

-  LOCATION
-  FARMINGTON GAS WELL
-  FRUITLAND GAS WELL
-  PICTURED CLIFFS GAS WELL
-  MESAVERDE GAS WELL
-  LA VENTANA GAS WELL
-  CHACRA GAS WELL
-  PICTURED CLIFFS - MESAVERDE DUAL GAS WELL
-  MESAVERDE - DAKOTA DUAL GAS WELL
-  GALLUP OIL WELL
-  GALLUP - DAKOTA DUAL OIL & GAS WELL
-  DAKOTA GAS WELL
-  OIL WELL
-  OIL & GAS WELL
-  PLUGGED & ABANDONED
-  TEMPORARY ABANDONED
-  SAND OIL OR SAND WATER FRAC
-  WELL WAS SHOT
-  NATURAL COMPLETION
-  Rodney P. Calvin Lease Holdings
-  PENNSYLVANIAN GAS WELL

PROPOSED WATER INJECTION WELL - KAEMPF #1



DRILL 7-7/8" HOLE TO 90'

SET 5 1/2" CASING AT 90'  
CEMENTED W/20 SX

RUN 2-7/8" O.D., 6.5# TUBING  
AT 500', CEMENTED W/60 SX

SET 2-1/16" I.J. TUBING  
W/TENSION PACKER AT 475'

DRILL 4-3/4" HOLE TO 575'

*fill up 475' pack*  
*28' 26' 4' 2' = 14,104 ft / pack*  
*14,104*  
*60*  
*846,2640*

Rodney P. Calvin Oil & Gas  
Kaempf #1  
SE/SW Sec. 19, T30N, R11W

KAEMPF #1 - WATER INJECTION WELL

PROPOSAL: Drill 7-7/8" hole to 90'. Set 5 1/2" casing at 90', cemented with 20 sx.

Drill 4-3/4" hole with water through Ojo Alamo to 575'.

Set 2-7/8" O.D., 6.5#, K-55 tubing at 500', cemented with 60 sx. Circulate cement to surface.

Pick up 2-1/16" I.J. tubing. Clean out to 575'.

Run 2-1/16" tubing set with Baker tension packer at 475'.

Fill 2-1/16" - 2-7/8" annulus with treated water.

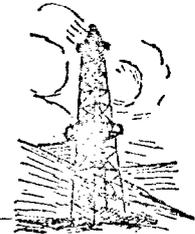
Inject produced Dakota water from Kaempf #1 into Ojo Alamo formation.

Rodney P. Calvin Oil & Gas  
Kaempf #1  
SE/SW Sec. 19, T30N, R11W

*Amoco Production Co.*

RODNEY P. CALVIN

Oil & Gas



PATTERSON BUILDING

DENVER, COLORADO 80202

TELEPHONE  
303-222-7222

October 12, 1973

555 17TH STREET

RE: Proposed Salt Water Disposal Well  
From No. 1 Kaempf Basin Dakota Well  
SE $\frac{1}{4}$ SE $\frac{1}{4}$  of Sec. 30, T30N-R11W  
San Juan County, New Mexico

Mr. Bart Giles  
Amoco Production Company  
Security Life Building  
Denver, Colorado 80202

Dear Mr. Giles:

My associates and I have recently drilled and completed our No. 1 Kaempf-Basin Dakota Well in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 30, Township 30 North, Range 11 West, San Juan County, New Mexico. It was completed March 24, 1973; it was not tied into El Paso's gathering system until the first week in July, 1973.

From the outset, this well has been producing approximately 500-1,000 MCF per day, and approximately an average of 18 barrels of water per hour or 432 barrels of water per day.

From first production to date, we have been hauling this water from the location and storing it in a pit on the surface on one of our adjoining unit wells.

I have discussed this water problem with the District Office of the New Mexico Oil and Gas Commission in Aztec, New Mexico. They have informally advised that they prefer me to use an alternate method of disposing of this water. They have recommended drilling a disposal well to the Ojo Alamo formation (to a depth of approximately 500 feet) physically on the location of the No. 1 Kaempf well.

A water analysis made by Schlumberger, Farmington, New Mexico, of the water being produced from the No. 1 Kaempf and to be disposed of indicates that there is 6,650 parts per million of NaCl, and 4,000 parts per million chlorides. An analysis also made by Schlumberger of the water from the Ojo Alamo (the sample being taken from a well drilled in the SE corner of the NE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 19, Township 30 North, Range 11 West) indicates 9,600 parts per

October 12, 1973

Page 2

million NaCl and 5,800 parts per million chlorides. There is no oil or gas production from the Ojo Alamo formation in the San Juan Basin, New Mexico.

Amoco Production Company owns producing oil and gas leases within one-half mile of the proposed disposal well. Please indicate in the space provided below whether or not it has any objection to this proposed water disposal method.

The New Mexico Oil and Gas Commission requires three copies of this communication. Therefore, please sign and return to this office three copies of this letter. The fourth copy is for your files. Thank you.

Very truly yours,

RODNEY P. CALVIN

RPC:lc

AMOCO PRODUCTION COMPANY

has no objection to this method of water disposal from the No. 1 Kaempf-Basin Dakota well, located in the SE $\frac{1}{2}$ SW $\frac{1}{2}$  of Section 19, T30N-R11W, San Juan County, New Mexico.

AMOCO PRODUCTION COMPANY

By

R/B Giles 10/16/73

AMOCO PRODUCTION COMPANY

has objection to this method of water disposal from the No. 1 Kaempf-Basin Dakota well, located in the SE $\frac{1}{2}$ SW $\frac{1}{2}$  of Section 19, T30N-R11W, San Juan County, New Mexico.

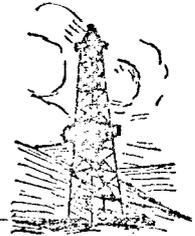
AMOCO PRODUCTION COMPANY

By \_\_\_\_\_

*Aztec Oil & Gas Co.*

RODNEY P. CALVIN

Oil & Gas



PATTERSON BUILDING

DENVER, COLORADO 80202

TELEPHONE  
303-222-7222

October 12, 1973

555 17TH STREET

*Received 11/1/73 RPB*

RE: Proposed Salt Water Disposal Well  
From No. 1 Kaempf Basin Dakota Well  
SE $\frac{1}{2}$ SE $\frac{1}{2}$  of Sec. 30, T30N-R11W  
San Juan County, New Mexico

Mr. Thomas M. Morris, Mgr. Production  
Aztec Oil & Gas Company  
2000 First National Bank Bldg.  
Dallas, Texas 75202

Dear Mr. Morris:

My associates and I have recently drilled and completed our No. 1 Kaempf-Basin Dakota Well in the SE $\frac{1}{2}$ SW $\frac{1}{2}$  of Section 30, Township 30 North, Range 11 West, San Juan County, New Mexico. It was completed March 24, 1973: it was not tied into El Paso's gathering system until the first week in July, 1973.

From the outset, this well has been producing approximately 500-1,000 MCF per day, and approximately an average of 18 barrels of water per hour or 432 barrels of water per day.

From first production to date, we have been hauling this water from the location and storing it in a pit on the surface on one of our adjoining unit wells.

I have discussed this water problem with the District Office of the New Mexico Oil and Gas Commission in Aztec, New Mexico. They have informally advised that they prefer me to use an alternate method of disposing of this water. They have recommended drilling a disposal well to the Ojo Alamo formation (to a depth of approximately 500 feet) physically on the location of the No. 1 Kaempf well.

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October 12, 1973

Page 2

million NaCl and 5,800 parts per million chlorides. There is no oil or gas production from the Ojo Alamo formation in the San Juan Basin, New Mexico.

**Aztec Oil & Gas Company** owns producing oil and gas leases within one-half mile of the proposed disposal well. Please indicate in the space provided below whether or not it has any objection to this proposed water disposal method.

The New Mexico Oil and Gas Commission requires three copies of this communication. Therefore, please sign and return to this office three copies of this letter. The fourth copy is for your files. Thank you.

Very truly yours,

RODNEY P. CALVIN

RPC:lc

**AZTEC OIL & GAS COMPANY**

has no objection to this method of water disposal from the No. 1 Kaempf-Basin Dakota well, located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 19, T30N-R11W, San Juan County, New Mexico.

AZTEC OIL & GAS COMPANY

By *J. H. Jones*

**AZTEC OIL & GAS COMPANY**

has objection to this method of water disposal from the No. 1 Kaempf-Basin Dakota well, located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 19, T30N-R11W, San Juan County, New Mexico.

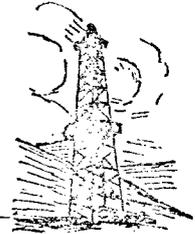
AZTEC OIL & GAS COMPANY

By \_\_\_\_\_

*El Paso Natural Gas Co.*

RODNEY P. CALVIN

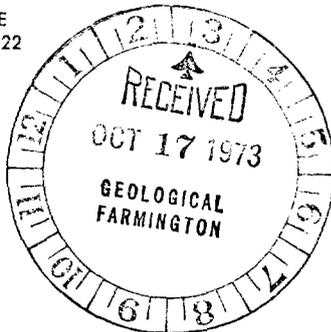
Oil & Gas



PATTERSON BUILDING

DENVER, COLORADO 80202

TELEPHONE  
303-222-7222



October 12, 1973

*Rec'd  
11-1-73  
JTB*

555 17TH STREET

RE: Proposed Salt Water Disposal Well  
From No. 1 Kaempf Basin Dakota Well  
SE $\frac{1}{4}$ SE $\frac{1}{4}$  of Sec. 30, T30N-R11W  
San Juan County, New Mexico

Mr. Dick Ullrich  
El Paso Natural Gas Company  
Petroleum Plaza Building  
Farmington, New Mexico

Dear Mr. Ullrich:

My associates and I have recently drilled and completed our No. 1 Kaempf-Basin Dakota Well in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 30, Township 30 North, Range 11 West, San Juan County, New Mexico. It was completed March 24, 1973: it was not tied into El Paso's gathering system until the first week in July, 1973.

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I have discussed this water problem with the District Office of the New Mexico Oil and Gas Commission in Aztec, New Mexico. They have informally advised that they prefer me to use an alternate method of disposing of this water. They have recommended drilling a disposal well to the Ojo Alamo formation (to a depth of approximately 500 feet) physically on the location of the No. 1 Kaempf well.

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October 12, 1973

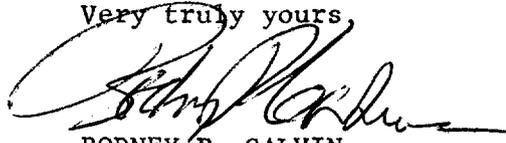
Page 2

million NACl and 5,800 parts per million chlorides. There is no oil or gas production from the Ojo Alamo formation in the San Juan Basin, New Mexico.

El Paso Natural Gas Co. owns producing oil and gas leases within one-half mile of the proposed disposal well. Please indicate in the space provided below whether or not it has any objection to this proposed water disposal method.

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Very truly yours,



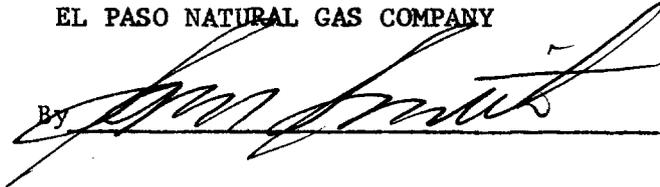
RODNEY P. CALVIN

RPC:lc

EL PASO NATURAL GAS COMPANY

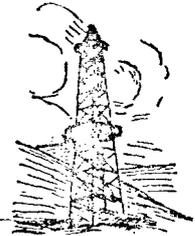
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EL PASO NATURAL GAS COMPANY

By 

# RODNEY P. CALVIN

*Oil & Gas*



PATTERSON BUILDING

DENVER, COLORADO 80202

TELEPHONE  
303-222-7222

October 12, 1973

555 17TH STREET

RE: Proposed Salt Water Disposal Well  
From No. 1 Kaempf Basin Dakota Well  
SE $\frac{1}{4}$ SE $\frac{1}{4}$  of Sec. 30, T30N-R11W  
San Juan County, New Mexico

**Mr. Gordon Eaton, Production Supt.  
Texaco Inc.  
1940 Grant Street  
Denver, Colorado**

Dear **Mr. Eaton:**

My associates and I have recently drilled and completed our No. 1 Kaempf-Basin Dakota Well in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 30, Township 30 North, Range 11 West, San Juan County, New Mexico. It was completed March 24, 1973: it was not tied into El Paso's gathering system until the first week in July, 1973.

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October 12, 1973

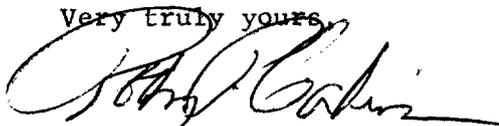
Page 2

million NaCl and 5,800 parts per million chlorides. There is no oil or gas production from the Ojo Alamo formation in the San Juan Basin, New Mexico.

**Texaco Inc.** owns producing oil and gas leases within one-half mile of the proposed disposal well. Please indicate in the space provided below whether or not **it** has any objection to this proposed water disposal method.

The New Mexico Oil and Gas Commission requires three copies of this communication. Therefore, please sign and return to this office three copies of this letter. The fourth copy is for your files. Thank you.

Very truly yours,



RODNEY P. CALVIN

RPC:lc

~~TEXACO INC.~~

has no objection to this method of water disposal from the No. 1 Kaempf-Basin Dakota well, located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 19, T30N-R11W, San Juan County, New Mexico.

**TEXACO INC.**

By J. C. White

~~TEXACO INC.~~

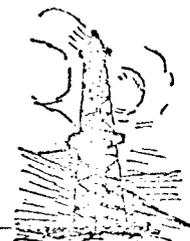
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**TEXACO INC.**

By \_\_\_\_\_

# RODNEY P. CALVIN

*Oil & Gas*



PATTERSON BUILDING

DENVER, COLORADO 80202

TELEPHONE  
303-222-7222

October 12, 1973

555 17TH STREET

RE: Proposed Salt Water Disposal Well  
From No. 1 Kaempf Basin Dakota Well  
SE $\frac{1}{4}$ SE $\frac{1}{4}$  of Sec. 30, T30N-R11W  
San Juan County, New Mexico

Mr. A. L. Ridens  
South Side Road  
Aztec, New Mexico 87410

Dear Mr. Ridens:

My associates and I have recently drilled and completed our No. 1 Kaempf-Basin Dakota Well in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 30, Township 30 North, Range 11 West, San Juan County, New Mexico. It was completed March 24, 1973: it was not tied into El Paso's gathering system until the first week in July, 1973.

From the outset, this well has been producing approximately 500-1,000 MCF per day, and approximately an average of 18 barrels of water per hour or 432 barrels of water per day.

From first production to date, we have been hauling this water from the location and storing it in a pit on the surface on one of our adjoining unit wells.

I have discussed this water problem with the District Office of the New Mexico Oil and Gas Commission in Aztec, New Mexico. They have informally advised that they prefer me to use an alternate method of disposing of this water. They have recommended drilling a disposal well to the Ojo Alamo formation (to a depth of approximately 500 feet) physically on the location of the No. 1 Kaempf well.

A water analysis made by Schlumberger, Farmington, New Mexico, of the water being produced from the No. 1 Kaempf and to be disposed of indicates that there is 6,650 parts per million of NaCl, and 4,000 parts per million chlorides. An analysis also made by Schlumberger of the water from the Ojo Alamo (the sample being taken from a well drilled in the SE corner of the NE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 19, Township 30 North, Range 11 West) indicates 9,600 parts per

October 12, 1973

million NaCl and 5,800 parts per million chlorides. There is no oil or gas production from the Ojo Alamo formation in the San Juan Basin, New Mexico.

You are the surface owner of the lands on which the proposed disposal well is located, and I would appreciate it if you would indicate in the space provided below whether or not you have any objection to the above described method of water disposal.

The New Mexico Oil and Gas Commission requires three copies of this communication. Therefore, please sign and return to this office three copies of this letter. The fourth copy is for your files. Thank you.

Very truly yours,  
  
RODNEY P. CALVIN

A. L. Ridens has no objection to this method of water disposal from the No. 1 Kaempf-Basin Dakota well, located in the SE/4SW/4 of Section 19, T30N-R11W, San Juan County, New Mexico, subject to the condition set forth below.

  
A. L. Ridens

CONDITION

The foregoing consent of A. L. Ridens is subject to the condition that if and when it should be judicially determined that water being pumped or flowed into the subject disposal well is rising to the surface of the earth and contaminating the spring(s) of surface owner, A. L. Ridens, so as to render such spring water unfit for domestic use, Rodney P. Calvin hereby agrees to discontinue such manner of water disposal until such time as a satisfactory method of disposal can be devised to halt such spring water contamination.

AGREED:  
  
Rodney P. Calvin



SCHLUMBERGER WELL SERVICES  
 5000 GULF FREEWAY, P.O. BOX 2175  
 HOUSTON, TEXAS 77001, (713) 928-2511

PLEASE REPLY TO  
 P.O. BOX 250  
 FARMINGTON, NEW MEXICO 87401

October 12, 1973

Mr. Rodney P. Calvin  
 555 17th Street  
 Denver, Colorado 80202

Dear Mr. Calvin:

The results of the water samples furnished by you from the Kaempf #1 and Joe Gillentine Water Well are as follows:

Kaempf #1 ( SE $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 19-T30N-R11W, San Juan Co., N.M.; Description added by Rodney P. Calvin) = 4000 ppm chlorides *RPC 10/15/73*

Joe Gillentine Water Well (NE $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 19-T30N-R11W, San Juan Co., N.M. Description added by Rodney P. Calvin) = 5818 ppm chlorides *RPC 10/15/73*

Thank you for the opportunity of serving you and if we can be of further service, please call.

Yours very truly,

SCHLUMBERGER WELL SERVICES

cc  
 Mr. Jack Cooley  
 Attorney  
 152 Petroleum Center  
 Farmington, New Mexico 87401

*H.D. Hollingsworth*  
 H.D. Hollingsworth  
 District Manager

All interpretations are opinions based on inferences from electrical or other measurements and 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 Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.