

CASE 5641: Appl. of JOHN  
YURONKA for SALT WATER DISPOSAL,  
Lea County

*Continued to  
March 31*

CASE NO.

5641

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APPLICATION,  
TRANSCRIPTS,  
SMALL EXHIBITS,  
ETC.

## NEW MEXICO OIL CONSERVATION COMMISSION

## EXAMINER HEARING

SANTA FE, NEW MEXICOHearing Date MARCH 31, 1976 TIME: 9:00 A.M.

NAME	REPRESENTING	LOCATION
John Yurionka	John Yurionka	Midland
Orville Hentree	Exxon	Roswell
Keilly Fluellen	Inexco Oil Co	Houston
Walter King	Wallen Bros & Driggs	Midland
L. F. GOZA	Inexco Oil	Houston
High Hagan	Hagan Pet. Corp	Roswell
Jim Henry	Henry Eng. (For D. Foster)	Midland
Joe Hagan	" " "	Santa Fe
Ed J. Hefler	TEXACO	HOBBS
John Thomas	Exxon Co. USA.	Midland Tx.
Hennis Eimers	Exxon Co. USA.	Midland Tx.
Ken Bateman	White Lock Kelly & Kelly	Santa Fe --
Tom Kellahan	Kellahan & Fox	Santa Fe
R. M. Rielahan	Sej	Roswell, NM.
Ray Beck	R M Rielahan	Lawrence

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Phone (505) 982-9212

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BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
March 31, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of John Yuronka for salt  
water disposal, Lea County, New Mexico.

CASE  
5641

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil  
Conservation Commission:

William F. Carr, Esq.  
Legal Counsel for the Commission  
State Land Office Building  
Santa Fe, New Mexico

For the Applicant:

W. Thomas Kellahin, Esq.  
KELLAHIN & FOX  
Attorneys at Law  
500 Don Gaspar  
Santa Fe, New Mexico

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1 MR. STAMETS: The hearing will please come to  
2 order. We'll call first Case 5641.

3 MR. CARR: Case 5641, application of John Yuronka  
4 for salt water disposal, Lea County, New Mexico.

5 MR. STAMETS: Call for appearances.

6 MR. KELLAHIN: Tom Kellahin of Kellahin and Fox,  
7 Santa Fe, New Mexico appearing on behalf of the applicant and  
8 I have one witness to be sworn.

9 (THEREUPON, the witness was duly sworn.)

10  
11 JOHN YURONKA  
12 called as a witness, having been first duly sworn, was  
13 examined and testified as follows:

14  
15 DIRECT EXAMINATION

16 BY MR. KELLAHIN:

17 Q Mr. Yuronka, would you please state your name and  
18 occupation?

19 A John Yuronka, Consulting Petroleum Engineer.

20 Q You are the applicant in this case?

21 A Yes, sir.

22 Q And do you own and operate the particular lease in  
23 question?

24 A Yes, sir.

25 Q Let me ask you this: Have you previously testified

1 before the Commission and had your qualifications as an  
2 expert witness accepted and made a matter of record?

3 A. Yes, sir.

4 MR. KELLAHIN: If the Examiner please, are the  
5 witness's qualifications acceptable?

6 MR. STAMETS: They are.

7 Q (Mr. Kellahin continuing.) Mr. Yuronka, please  
8 refer to Exhibit Number One and would you identify the acreage  
9 in question and explain to the Examiner what you are seeking?

10 A. The acreage in question is the northeast quarter of  
11 Section 16, Township 23 South, Range 36 East, Lea County,  
12 New Mexico. The lease in question is outlined in red and  
13 the proposed salt water disposal well is circled in blue.  
14 Exhibit Number One is a land plat of the general area.

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16 of in your disposal well?

17 A. The water produced on that particular lease.

18 Q. How many wells produce water on that lease?

19 A. All four.

20 Q. What is the total volume of water per day to be  
21 disposed of in this well?

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23 barrels a day.

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15 Q And that is the Queen formation?

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18 Three and its parts. What is Exhibit Number Three, Mr. Yuronka?

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21 in its present condition.

22 Q Would you turn to the schematic and describe briefly  
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14 portion of it was squeezed. They came up the hole and made  
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4 Q. Please refer to Exhibit Number Six and identify it?

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10 Q. Please refer to Exhibit Number Seven.

11 A. Exhibit Number Seven is a Form C-116 that contains  
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13 subject lease at the time it was submitted. If you will note,  
14 Well No. 1 produces approximately fifty-two barrels a day of  
15 water and Well No. 2 has just recently been completed up the  
16 hole and we are in the process of testing it right now. Well  
17 No. 3 not shown here is a Jalmat well, a Jalmat oil well and  
18 it produces approximately a hundred barrels of water a day  
19 and fifty-two barrels of oil and No. 4 is the recently  
20 completed well mentioned previously.

21 Q. What are you currently doing with the produced water?

22 A. We are hauling it. This is one of the reasons that  
23 we want to do the effective salt water disposal, that is, we  
24 are hauling over seven thousand barrels a month and it is  
25 costing us between thirty-five hundred and four thousand dollars

1 a month to haul it. It costs approximately fifty cents a  
2 barrel to haul it and dispose of it.

3 Q Mr. Yuronka, in your opinion will approval of this  
4 application be in the best interests of conservation and  
5 the prevention of waste and the protection of correlative  
6 rights?

7 A Yes, sir.

8 Q Were Exhibits One through Seven either prepared by  
9 you directly or compiled under your direction and supervision?

10 A Yes, they were.

11 MR. KELLAHIN: If the Examiner please, we move the  
12 introduction of Exhibits One through Seven.

13 MR. STAMETS: These exhibits will be admitted.

14 (THEREUPON, Applicant's Exhibits One Through  
15 Seven were admitted into evidence.)

16 MR. KELLAHIN: That concludes our direct examination.

17  
18 CROSS EXAMINATION

19 BY MR. STAMETS:

20 Q Mr. Yuronka, are you going to use lined tubing in  
21 this particular well?

22 A We propose to use plastic coated, yes, sir.

23 Q And will there be a packer in the well?

24 A Above the casing seat, yes, sir.

25 Q How do you propose to monitor the annulus in this

1 particular well?

2 A. The annulus?

3 Q. Yes. To determine whether there is any leakage  
4 around the packer or the tubing?

5 A. Well, periodically on a well of this type we will  
6 check the casing to see if there is any increase in pressure.

7 Q. Periodically, what, once a month?

8 A. Yes, sir.

9 Q. And this is done by your pumper?

10 A. Yes, sir.

11 Q. Have you done any injectivity tests on this particular  
12 well yet?

13 A. No, sir.

14 Q. Now, is this water production going into the same  
15 zone that the oil is being produced from and that the water is  
16 being produced from or is this going into a different zone?

17 A. It is going much deeper down the hole. Our lowest  
18 producing well subsea-wise is No. 1 and it is at a minus one  
19 eighty. In this particular well, thirty-eight hundred feet  
20 which is the present TD of the well is a minus three, thirty-  
21 one and I think that is shown on Exhibit Three.

22 Q. Now, you indicated that at the beginning you  
23 anticipated this well would take it on the vacuum. Would you  
24 have any objection to a pressure limitation on this well such  
25 that the bottom-hole pressure -- probably the bottom-hole

1 pressure did not exceed point, seven, oh, times the depth of  
2 the well, roughly twenty-six hundred and sixty pounds?

3 A. Yes.

4 Q That would be an acceptable limit?

5 A. Yes, sir. We would have to have some tremendous  
6 equipment out there to get it in at that pressure. We couldn't  
7 afford it.

8 Q That would be something like eight or nine hundred  
9 surface pounds?

10 A. Uh-huh.

11 MR. STAMETS: Any other questions of the witness?

12 He may be excused.

13 (THEREUPON, the witness was excused.)

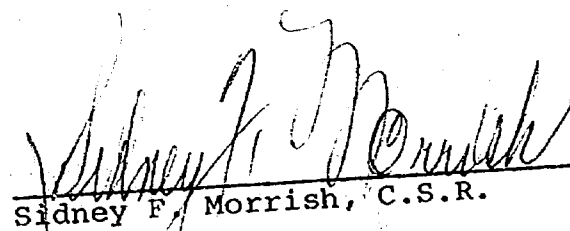
14 MR. STAMETS: Anything further in this case?

15 MR. KELLAHIN: No, sir.

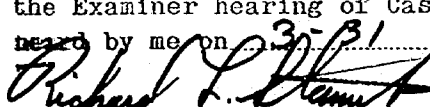
16 MR. STAMETS: The case will be taken under advisement.  
17  
18  
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REPORTER'S CERTIFICATE

1 I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,  
 2 do hereby certify that the foregoing and attached Transcript  
 3 of Hearing before the New Mexico Oil Conservation Commission  
 4 was reported by me, and the same is a true and correct record  
 5 of the said proceedings to the best of my knowledge, skill and  
 6 ability.  
 7

8  
 9   
 10 Sidney F. Morrish, C.S.R.

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11  
 12  
 13  
 14  
 15 I do hereby certify that the foregoing is  
 16 a complete record of the proceedings in  
 17 the Examiner hearing of Case No. 5641,  
 18 heard by me on 3-31, 1976.  
 19 , Examiner  
 20 New Mexico Oil Conservation Commission  
 21  
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**sid morrish reporting service**

General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

1 pressure did not exceed point, seven, oh, times the depth of  
2 the well, roughly twenty-six hundred and sixty pounds?

3 A. Yes.

4 Q That would be an acceptable limit?

5 A. Yes, sir. We would have to have some tremendous  
6 equipment out there to get it in at that pressure. We couldn't  
7 afford it.

8 Q That would be something like eight or nine hundred  
9 surface pounds?

10 A. Uh-huh.

11 MR. STAMETS: Any other questions of the witness?

12 He may be excused.

13 (THEREUPON, the witness was excused.)

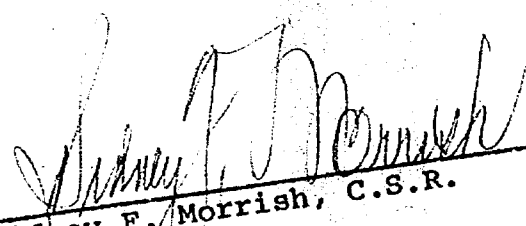
14 MR. STAMETS: Anything further in this case?

15 MR. KELLAHIN: No, sir.

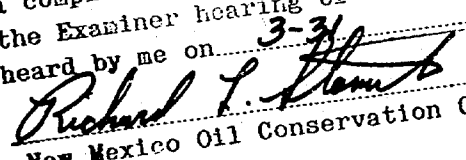
16 MR. STAMETS: The case will be taken under advisement.  
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REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

  
Sidney F. Morrish, C.S.R.

sid morrish reporting service  
General Court Reporting Service 87501  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 982-9212

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5641, heard by me on 3-31, 1976.  
  
Richard L. Ham, Examiner  
New Mexico Oil Conservation Commission

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
March 17, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of John Yuronka for salt  
water disposal, Lea County, New Mexico.

CASE  
5641  
(Cont.)

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil  
Conservation Commission:

William F. Carr, Esq.  
Legal Counsel for the Commission  
State Land Office Building  
Santa Fe, New Mexico

**sid morrison reporting service**

General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

1 MR. NUTTER: We will call Case Number 5641.

2 MR. CARR: Case 5641, application of John Yuronka  
3 for salt water disposal, Lea County, New Mexico.

4 Mr. Examiner, we have received a letter from the  
5 applicant in this case requesting that it be continued to the  
6 Examiner Hearing to be held on March 31, 1976.

7 MR. NUTTER: Case 5641 will be continued to the  
8 Examiner Hearing scheduled to be held at this same place at  
9 nine o'clock A.M., March 31, 1976.

sid morrish reporting service  
General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

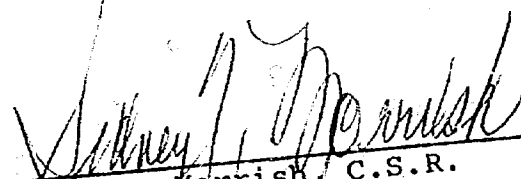
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a complete record of the proceedings in  
the Examiner hearing of Case No. 5641  
heard by me on 3/17, 1976.

[Signature], Examiner  
New Mexico Oil Conservation Commission

REPORTER'S CERTIFICATE

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6 of the said proceedings to the best of my knowledge, skill and  
7 ability.

8  
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10 Sidney F. Morrish, C.S.R.  
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sid morrish reporting service  
General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
March 17, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of John Yuronka for salt ) CASE  
water disposal, Lea County, New Mexico. ) 5641  
(Cont.)

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil Conservation Commission: William F. Carr, Esq.  
Legal Counsel for the Commission  
State Land Office Building  
Santa Fe, New Mexico

sid morish reporting service  
General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

**sid morrish reporting service**

General Court Reporting Service  
825 Calle Mojia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

Page 2

1 MR. NUTTER: We will call Case Number 5641.

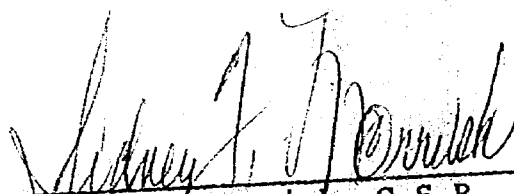
2 MR. CARR: Case 5641, application of John Yuronka  
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4 Mr. Examiner, we have received a letter from the  
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7 MR. NUTTER: Case 5641 will be continued to the  
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9 nine o'clock A.M., March 31, 1976.

REPORTER'S CERTIFICATE

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of the said proceedings to the best of my knowledge, skill and  
ability.

  
Sidney F. Morrish, C.S.R.

sid morrish reporting service

General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 6641  
heard by me on 3/17, 1976.

  
Examiner  
New Mexico Oil Conservation Commission



DIRECTOR  
JOE D. RAMEY

## OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO  
P. O. BOX 2088 - SANTA FE  
87501

LAND COMMISSIONER  
PHIL R. LUCERO  
April 21, 1976



STATE GEOLOGIST  
EMERY C. ARNOLD

Mr. Tom Kellahin  
Kellahin & Fox  
Attorneys at Law  
Post Office Box 1769  
Santa Fe, New Mexico

Re: CASE NO. 5641  
ORDER NO. R-5194

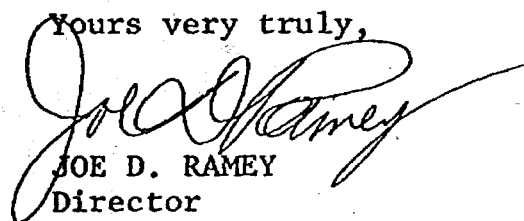
Applicant:

John Yuronka

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Yours very truly,

  
JOE D. RAMEY  
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC x  
Artesia OCC \_\_\_\_\_  
Aztec OCC \_\_\_\_\_

Other \_\_\_\_\_  
\_\_\_\_\_

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5641  
Order No. R-5194

APPLICATION OF JOHN YURONKA  
FOR SALT WATER DISPOSAL, LEA  
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 31, 1976,  
at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.

NOW, on this 20th day of April, 1976, the Commission, a  
quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required  
by law, the Commission has jurisdiction of this cause and the  
subject matter thereof.

(2) That the applicant, John Yuronka, is the owner and  
operator of the State JC "T" Well No. 1, located in Unit B of  
Section 16, Township 23 South, Range 36 East, NMPM, Langlie-  
Mattix Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to  
dispose of produced salt water into the Queen formation, with  
injection into the open-hole interval from approximately 3800  
feet to 3875 feet.

(4) That the injection should be accomplished through  
2 3/8-inch plastic lined tubing installed in a packer set at  
approximately 3690 feet; that the casing-tubing annulus should  
be filled with an inert fluid; and that a pressure and/or  
vacuum gauge or approved leak detection device should be attached  
to the annulus in order to determine leakage in the casing,  
tubing, or packer.

(5) That if injection should be by pressure the injection  
well or system should be equipped with a pop-off valve or  
acceptable substitute which will limit the wellhead pressure  
on the injection well to no more than 950 psi.

-2-

Case No. 5641  
Order No. R-5194

(6) That the operator should notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(7) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(8) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, John Yuronka, is hereby authorized to utilize his State JC "T" Well No. 1, located in Unit B of Section 16, Township 23 South, Range 36 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico, to dispose of produced salt water into the Queen formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 3690 feet, with injection into the open-hole interval from approximately 3800 feet to 3875 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure and/or vacuum gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

(2) That if injection into said well shall be under pressure, the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 950 psi.

(3) That if injection into said well is under a vacuum, the operator shall conduct an annual pressure test of the casing-tubing annulus to determine leakage of the casing, tubing, or packer in said well.

(4) That the operator shall notify the Hobbs office of the Commission of the date and time of such pressure tests in order that they may be witnessed by a Commission representative.

(5) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

-3-

Case No. 5641  
Order No. R-5194

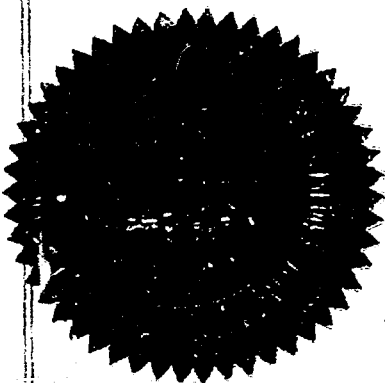
(6) That the operator shall immediately notify the supervisor of the Commission's Hobbs district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(7) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(8) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



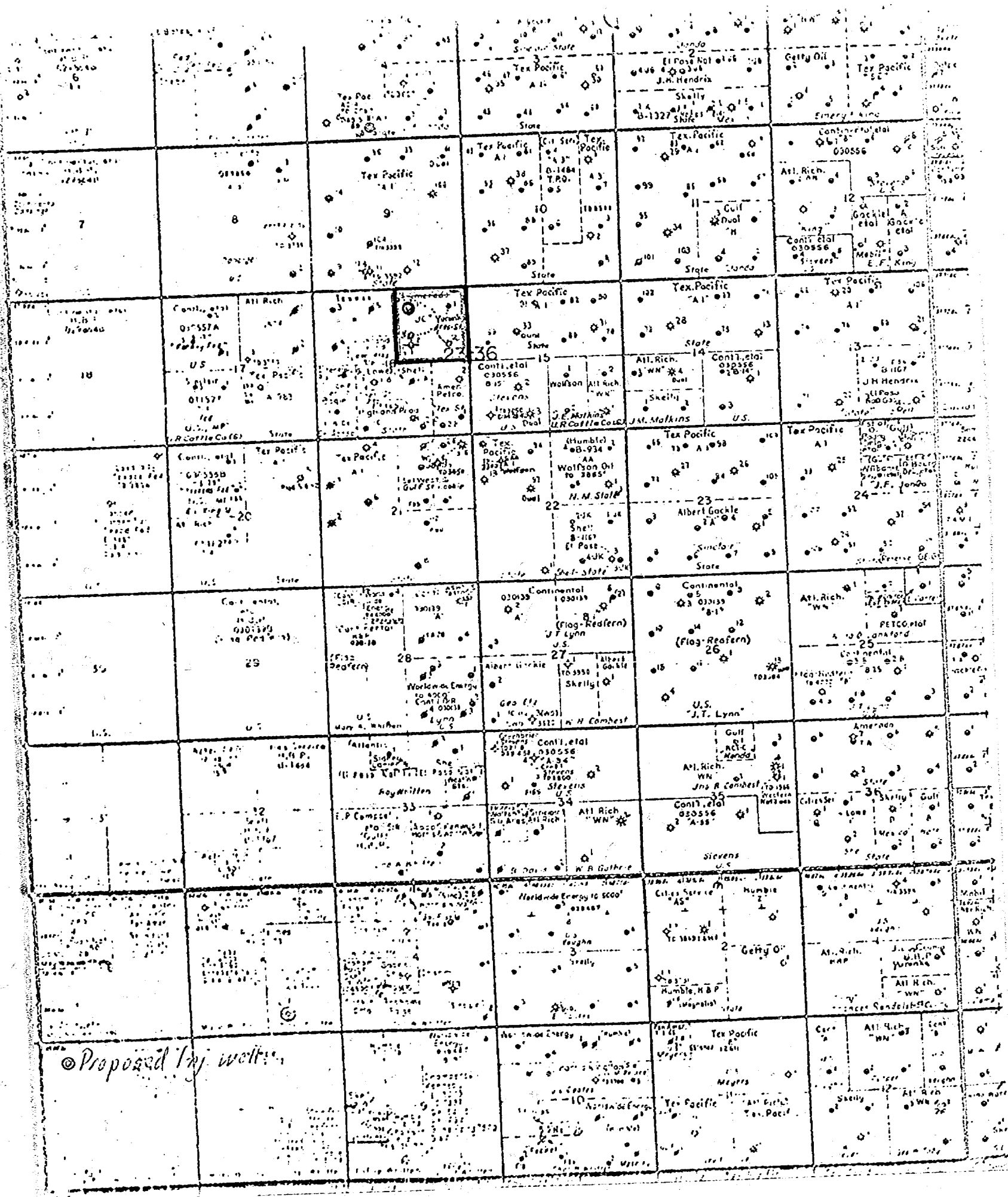
*Phil R. Lucero*  
PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

*Joe P. Ramey*  
JOE P. RAMEY, Member & Secretary

S E A L

jr/



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

OPERATOR <b>John Yuronka</b>		ADDRESS <b>120-C Central Bldg., Midland, Texas 79701</b>	
LEASE NAME <b>State JC"TI"</b>	WELL NO. <b>1</b>	FIELD <b>Langlie-Mattix</b>	COUNTY <b>Lea</b>
LOCATION UNIT LETTER <b>B</b> ; WELL IS LOCATED <b>660'</b> FEET FROM THE <b>North</b> LINE AND <b>660'</b> FEET FROM THE <b>West</b> LINE, SECTION <b>16</b> TOWNSHIP <b>23-S</b> RANGE <b>36-E</b> NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING	<b>8-5/8 OD</b>	<b>295</b>	<b>250</b>
INTERMEDIATE			
LONG STRING	<b>5-1/2"</b>	<b>3700</b>	<b>600</b>
TUBING	<b>2" EUE</b>	<b>3850</b>	<b>Halliburton R-4, @ Approx. 3690</b>
NAME OF PROPOSED INJECTION FORMATION <b>Queen Dolomite</b>		TOP OF FORMATION <b>3655</b>	BOTTOM OF FORMATION <b>3975 Estimated</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>3800 to 3875</b>
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Originally drilled by Amerada as an oil well</b>		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>yes</b>
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>Please see attached discussion of well history and conversion procedure</b>			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>180'</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>3634</b>	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>5200 Estimated</b>
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) <b>80</b>	MINIMUM <b>230</b>	MAXIMUM <b>Closed</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Initially by gravity</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>Presently produced waters</b>			
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Ross Robinson - Lessee 908 19th Street, Eunice N. M.</b>			
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
<b>Texas Pacific Oil Co. 1509 West Wall, Midland, Texas 79701</b>			
<b>Texaco, Inc., Midland Savings Bldg., Midland, Texas 79701</b>			
<b>Shell Oil Co., Petroleum Bldg., Midland, Texas 79701</b>			
<b>Maralo Inc., Midland Tower, Midland, Texas 79701</b>			
<b>Continental Oil Co., Midland Savings Bldg., Midland, Texas 79701</b>			
<b>Cleary Petroleum Corp., Gihls Tower West, Midland, Texas 79701</b>			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER <b>Yes (Lessee)</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>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.

*John Yuronka*      John Yuronka, Authorized Agent      1-27-76  
(Signature)      (Title)      (Date)

NOTE: Should waivers from 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.

John Yuronka (Amerada) State JC<sup>W</sup>T<sup>W</sup> #1  
C/NW/4, NE/4, Sec. 16, Twp 23

Well history, present mechanical condition  
and proposed procedure for water disposal.

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

EXHIBIT NO. 3

CASE NO. E 5641

Submitted by

date 31 Mar 76

The captioned well was completed in January, 1949, by Amerada Petroleum Corp. flowing oil from a dolomite phase of the Queen formation in the Langlie-Mattix Field.

Subsequently the oil bearing zone became non-commercial and the well was converted in January, 1957, to gas production from the Yates Formation. By November, 1962, the Yates had been sufficiently depleted and water production had increased to the extent that State JC<sup>W</sup>T<sup>W</sup> #1 was no longer capable of commercial production. The well was T. A.'d until January, 1973, when a pumping unit was installed and productivity tests conducted for one month. Even at current gas prices State JCT #1 proved incapable of commercial gas production and has remained idle since that latest test.

Therefore it is now proposed to convert the State JCT #1 to salt water disposal for service to other wells on the same lease.

Following are pertinent details of the history and physical and mechanical conditions now existing in State JCT #1, and a proposed conversion program.

Derrick floor elevation 3469'. Original Total Depth 3800'(-331). 5 1/2" O.D. casing cemented at 3700'(-231). Available files, including those of the N. M. C. C., do not contain a record of productivity tests of the open hole section from 3700' to 3800' subsequent to cementing 5 1/2" csg. However, a drill stem test from 3687' to 3800' prior to running 5 1/2" csg. had gas to surface 20 minutes and a head of drilling mud in 55 minutes. Obtained 1830' of slightly gas cut formation water in 4 hours. There was no oil and gas was estimated at 5000 cu. ft./day.

After running 3 1/2" casing, a drillable cement retainer was set at 3690' and the open hole squeezed with 50 sacks cement.

Casing was perforated from 3635' to 3680' and treated with 500 gal. Acid. Flowed 100% formation water. Set cement retainer at 3620' and squeezed perforations 3635' to 3680' with 50 sacks cement. Perforated casing 3585' to 3605' and treated w/1000 gal. acid in two stages. Flowed 288.20 bbls. oil, 11.01 bbls. water in 23 hrs. through 40/64" tbg. choke on initial potential test. Gas at rate of 617 MCF/day. Completed January 23, 1949.

By August 1949, well could no longer flow unassisted because of increasing water production. To secure gas for lift purposes the Yates Sand was perforated from 3280' to 3300' and 3330' to 3355'. The gas sand was treated with 2000 gal. acid.

State JCT #1 was produced by gas lift until January, 1951, when water had increased to the degree it was unprofitable to continue operations. The erstwhile oil bearing zone was abandoned by setting a cement retainer at 3400' and squeezing perforation 3585' to 3605' with 200 sacks cement.

State JCT #1 was then converted to a gas well by perforating from 3150' to 3210' and treating the new perforation with 2000 gal. Acid. Well was recompleted as a Yates gas well producing from perforation 3150' to 3210', 3280' to 3300', and 3330' to 3355'. It was potentialized on Feb. 20, 1951, flowing 1,640,000 cu. ft. gas and 55 bbls. water per day. Gas sales to Permian Basin Pipeline Co. began on December 24, 1953.

By August, 1956, well was producing an average of 200 bbls. water/day and persisted in loading with water and dying. In December, 1956, State JCT #1 was reworked by squeezing off all open perforations w/150 sacks cement and then drilling out to 3312. Casing was reperforated 3150' to 3210' and 3280' to 3300'. Perforated section

was then fractured with 10,000 gal. oil and 10,000# sd. On initial test after fracturing well flowed 13.80 bbls. oil and fed 920 MCF gas into the 500 PSIG line in 24 hours.

Within two months water production averaged 20 to 30 bbls. per day. The oil was exhausted and gas production varied between 500 and 700 MCF/d. The well had begun to load with water and a compressor was required to feed gas into the transmission line.

Periodic swabbing was required to keep well on production.

In May, 1961, a cement retainer was set at 3229' and perforations from 3280' to 3300' squeezed with 50 sacks cement. The perforations 3150' to 3210' were refractured with 20,000 gal. crude oil and 40,000# sd. Casing was additionally perforated from 3090' to 3100', treated with 500 gal Acid and fractured with 10,000 gal crude oil and 10,000# sd.

Following reworking well averaged 100 bbls. water and 293 MCF/day. Well feeding through a compressor into a 100 PSIG line.

By November, 1962, State JCT #1 could no longer be operated profitably. The N. M. C. C. gave permission to temporarily abandon the well and disconnect from the pipe line. It has remained inactive since, except for the testing period in 1973 noted above.

To convert the State JCT #1 to water disposal the following program is proposed:

- (1) Set cement retainer at 3060' and squeeze perforations from 3090' to 3100' and 3150' to 3210' with approximately 300 sacks cement.
- (2) Drill out cement to top of retainer at 3229 and pressure test for "shut off." If satisfactory, proceed with program. If not, resqueeze.
- (3) Drill out cement plugs from 3229' to top of retainer at 3400'. Test

squeezed perforations from 3230' to 3300' and 3330' to 3355' for shut off. If satisfactory, proceed with program. If not, resqueeze.

(4) Drill out plugs from 3400' to 3690' and test squeezed perforations from 3585' to 3605' and 3635' to 3680' for shut off. If satisfactory, proceed with program. If not, resqueeze.

(5) Drill out cement plug in squeezed open hole from 3700' to O. T. D. at 3800' and deepen well an additional 70' to 75'.

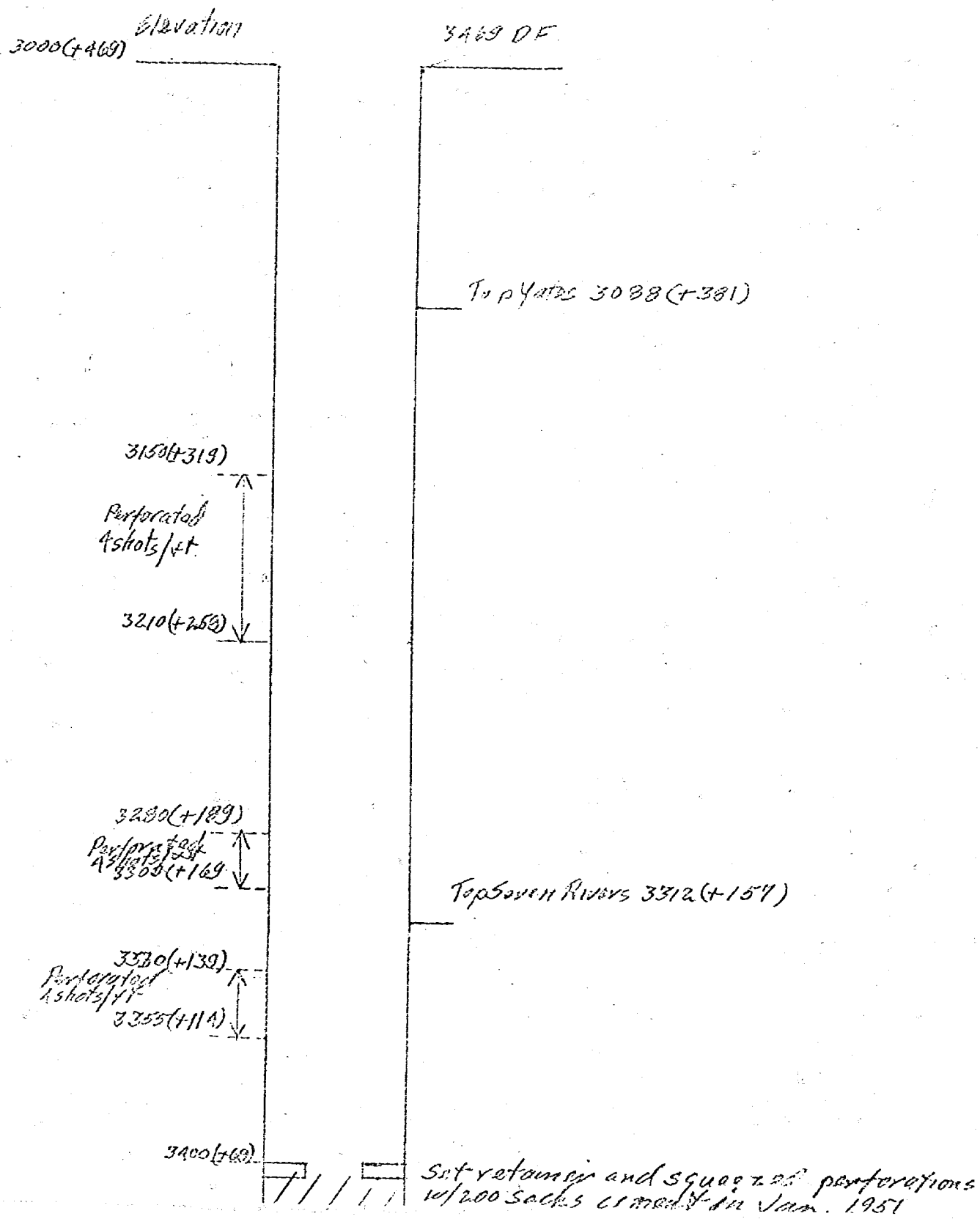
(6) Run tubing and packer and treat new hole with 2500 gal. 15% Acid.

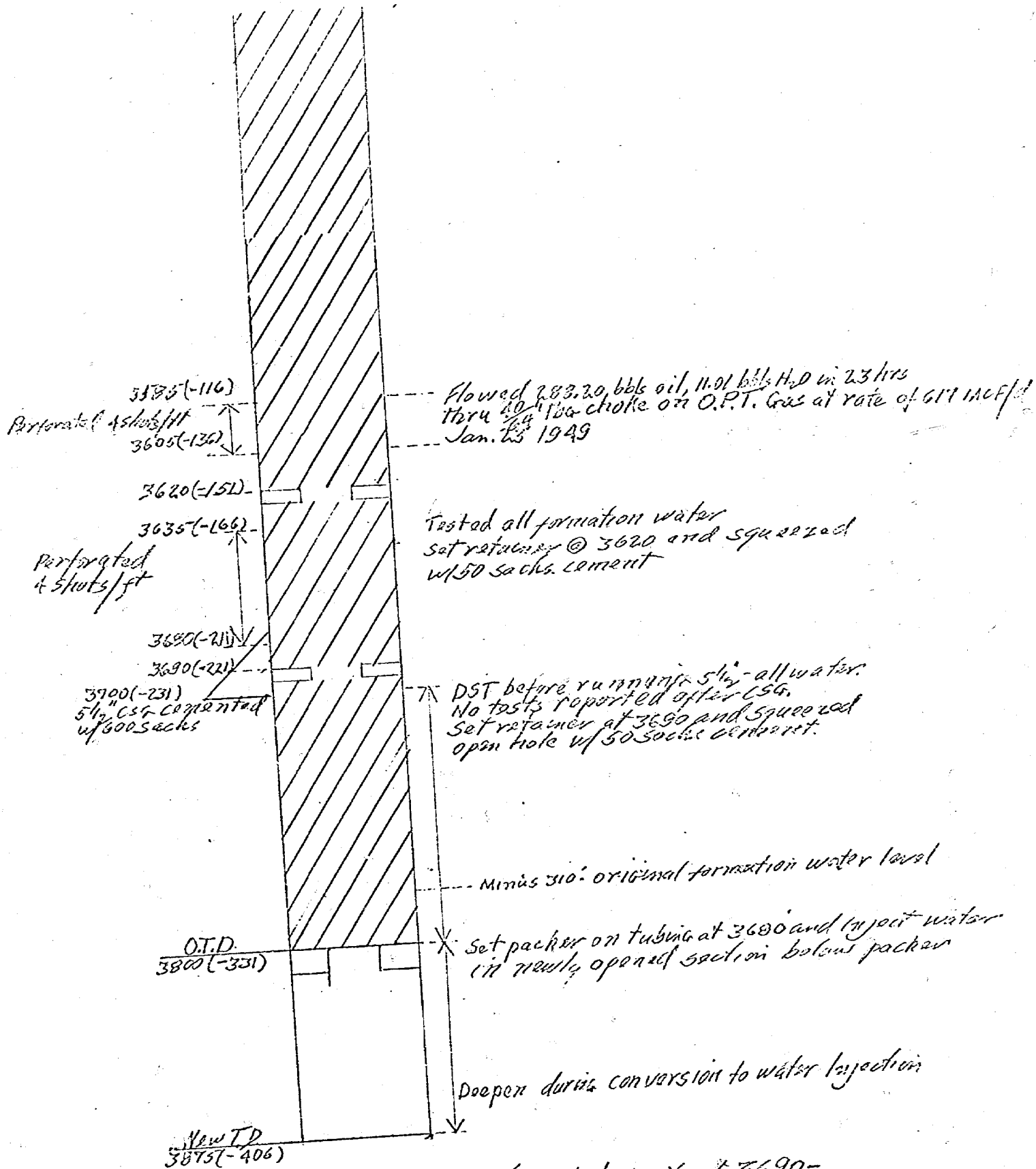
(7) Swab back acid water and test new formation for injectivity. If not satisfactory, retreat. If satisfactory, initiate water injection in the newly opened hole section below the packer.

The State JCT #1 is a structurally high well and the water will be introduced into a zone that is below the established original water level in the Langlie-Mattix Field in any well within the prescribed radius of two miles.

John Yuronka (Anerada) State JOINT #1  
 CoNW/4, NE/4 Sec. 16, T-23-S, R-36-E

Diagram of present mechanical condition  
 of well and procedure for converting to  
 water injection





Note: 2" EUE tubing - w/ packer to be set at 3690 - will be run to 3850 during final completion as injection well.

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 664-0223  
RESIDENCE 683-4570  
AREA CODE 915

February 16, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Re: Request for approval to convert temporarily  
abandoned oil and gas producer - State JC<sup>TM</sup>  
#1 - Located C/NW/4NE/4 16-23-36, to water  
injection for the purpose of disposing of  
produced waters from other wells on the Lease.

Dear Sir:

Attached please find the waivers signed by the Offset  
Operators on the Application for Salt Water Disposal sub-  
mitted on the captioned subject dated January 27, 1976.

Please note Maralo, Inc. letter stating that they do  
not own rights below a depth of 3701'. This was obtained on  
a farmout from Shell Oil Company who's waiver is attached.

Sincerely yours,

John Yuronka

JY/ph

Attachs: (6)

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
Yuronka	EXHIBIT NO. 4
CASE NO. 5641	
Submitted by	
Hearing Date 31 MAR 76	

CONFIDENTIAL

---

L. P. Thompson  
Division Manager  
Production Department  
Hobbs Division  
Western Hemisphere Petroleum Division

Continental Oil Company  
P.O. Box 460  
1001 North Turner  
Hobbs, New Mexico 88240  
(505) 393-4141

February 9, 1976

Mr. John Yuronka  
120 C Central Building  
Midland, Texas 79701

Gentlemen:

SWD Application for your State JC "T" No. 1 Section 16, Township 23  
South Range 36 East

As requested by your letter dated January 31, 1976 we forward the  
approved ballot..

Yours very truly,



L. P. Thompson

VTL:af



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT  
CENTRAL UNITED STATES  
MIDLAND DIVISION

February 12, 1976

TEXACO INC.  
P. O. BOX 3109  
MIDLAND, TEXAS 79701

WAIVER OF OBJECTION TO CONVERTING  
TO AND INITIATING PRODUCED WATER  
INJECTION IN THE JOHN YURONKA (AMERADA)  
STATE JC "T" WELL NO. 1C

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

Gentlemen:

Texaco Inc. has been advised by John Yuronka of his application to convert to and initiate produced water injection in the subject well located in the NW/4 of the NE/4 of Section 16, Twp. 23-S, Range 36-E.

Texaco Inc., as an offset operator, waives objection to this application.

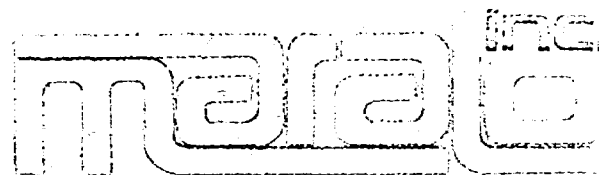
Yours very truly,

Darrell Smith  
Division Manager

By *R. G. Brown*  
R. G. Brown  
Assistant to Division Manager

RES/lc

cc: John Yuronka  
120-C Central Bldg.  
Midland, Texas 79701



February 9, 1976

John Yuronka  
120-C Central Building  
Midland, Texas 79701

Re: Lowe Lease #1032  
Lea County, New Mexico

Dear Mr. Yuronka:

In reply to your request for a waiver objection to converting the State JC"T" #1C in the NW/4 NE/4 of Section 16, T23S, R36E, please be advised that, according to our records, Maralo, Inc. and Erma Lowe do not own any rights below the depth of 3,701 feet in this tract. Therefore, it is not necessary for them to waive an objection to your injecting water below this depth.

Yours very truly,

A handwritten signature in cursive script that reads "John R. Burke".

John R. Burke  
Land Department

JRB:ph

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-6223  
RESIDENCE 683-4570  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Cleary Petroleum Corporation operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

CLEARY PETROLEUM CORPORATION  
by W. E. Foreman  
Title District Production Manager

JY/ph



# SHELL OIL COMPANY

PETROLEUM BUILDING  
P.O. BOX 1509  
MIDLAND, TEXAS 79701

February 6, 1976

Subject: Waiver of Objection to Converting  
to and Initiating Produced Water  
Injection in John Yuronka (Amerada)  
State JC "T" No. 1  
C of NW/4 NE/4 Sec. 16,  
T-23-S, R-36-E

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

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

Shell Oil Company has a lease offsetting the John Yuronka Ares-  
State Lease, being NE/4 Sec. 16, T-23-S, R-36-E. We have no objection to  
the work and program as specified in the data submitted.

Yours very truly,

J. D. Hughes  
Operations Manager-Midland  
Mid-Continent Division

JES:DCW

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-6223  
RESIDENCE 683-4570  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Texas Pacific Oil Company, Inc. operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

TEXAS PACIFIC OIL COMPANY, INC.

by K. J. Womack, Jr. 2/10/76

Title District Manager

JY/ph

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0223  
RESIDENCE 683-4579  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Continental Oil Company operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

Continental Oil Company

by

L. P. THOMPSON

Title Division Manager- Production

JY/ph

1042-A

HALLIBURTON DIVISION LABORATORY  
HALLIBURTON COMPANY  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
LABORATORY WATER ANALYSIS

No. W75-484To John MuronkaDate 6-14-1975323 Central BuildingMidland, Texas

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_

Date Rec. 6-13-1975Well No. Ares State # 1,3Depth #1:3634; #3:3665Formation Queen(Dolo.Phase)

County \_\_\_\_\_

Field \_\_\_\_\_

Source Well Bleeder

	Well # 1	Well # 3	
Resistivity	0.659 @ 78°F	0.374 @ 78°F	
Specific Gravity	1.01	1.01	
pH	7.2	6.6	
Calcium (Ca)	765	495	*MPL
Magnesium (Mg)	114	456	
Chlorides (Cl)	6,000	11,000	
Sulfates (SO <sub>4</sub> )	180	150	
Bicarbonates (HCO <sub>3</sub> )	1,659	1,586	
Soluble Iron (Fe)	Nil	Nil	

Remarks:

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

YURANKA EXHIBIT NO. 5  
CASE NO. 5641

Submitted by \_\_\_\_\_

Hearing Date 31 MAR 76

\*Milligrams per liter

Respectfully submitted,

Analyst: \_\_\_\_\_

Adan

cc:

HALLIBURTON COMPANY

By \_\_\_\_\_

DIVISION-CHEMIST ENR

## NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

HALLIBURTON SERVICES  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
LABORATORY WATER ANALYSIS

No. 876-191

Date 3-2-76

To John Yuranka  
120-C Central Building  
Midland, Texas 79701

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_ Date Rec. 3-2-76  
Well No. Ares State #4 Depth 3350-55' Formation Seven Rivers  
County Lea Field Jal Mat Source Wellhead  
Resistivity 2-29-76 3-1-76  
0.179 @ 72° 0.181 @ 72°  
Specific Gravity 1.034 1.034  
pH 7.6 7.6  
Calcium (Ca) 1,850 1,600 \*MPL  
Magnesium (Mg) 3,090 3,180  
Chlorides (Cl) 26,500 26,000  
Sulfates (SO<sub>4</sub>) 1,950 2,200  
Bicarbonates (HCO<sub>3</sub>) 950 1,000  
Soluble Iron (Fe) NIL NIL

Remarks:

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

YURANKA EXHIBIT NO. 6  
CASE NO. 5641

Submitted by \_\_\_\_\_

Hearing Date 31 Mar 76

\*Milligrams per liter

Respectfully submitted,

Analyst: Brewer  
CC:

By W. L. Brown  
CHEMIST

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-1116  
Revised 1-1-65

County		Lea County		Special										
John Yuronka		Langlie Mattix		Completion										
120-C Central Building, Midland, Texas 79701		TYPE OF TEST - (X)		Scheduled [X]										
WELL NO.		LOCATION		DATE OF TEST										
LEASE NAME		U S T R		CHOKE SIZE										
		DAILY ALLOWABLE		TBG. PRESS.										
		LENGTH OF TEST HOURS		PROD. DURING TEST										
		WATER BBLs.		OIL BBLs.										
		GRAV. OIL		GAS M.C.F.										
		GAS - OIL RATIO CU.FT/BBL												
1	ARCO Crump	I	1	24S	36E	2-28-76	2"	11	24	2.32	35	6.39	143.6	22,473
2		J	1	24S	36E	2-29-76	2"	19	24	12.21	35	15.99	112.4	7,029
1	Arcs State	A	16	23S	36E	1-10-76	2"	23	24	51.99	33	4.85	88.0	18,144
2		H	16	23S	36E	1-14-76	2"	13	24	33.97	33	3.46	12.0	3,468
1	Gulf Hills	I	17	24S	37E	1-20-76	2"	9	24	40.12	33	6.27	80.0	12,759
1	Hodges	O	8	24S	37E	2-15-76	20/64"	19	24		35	5.53	384.8	69,584
2		P	8	24S	37E	2-16-76	27/64"	21	24		35	7.61	550.2	72,300

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

*John Yuronka*  
(Signature)

Authorized Agent  
(Title)

March 9, 1976

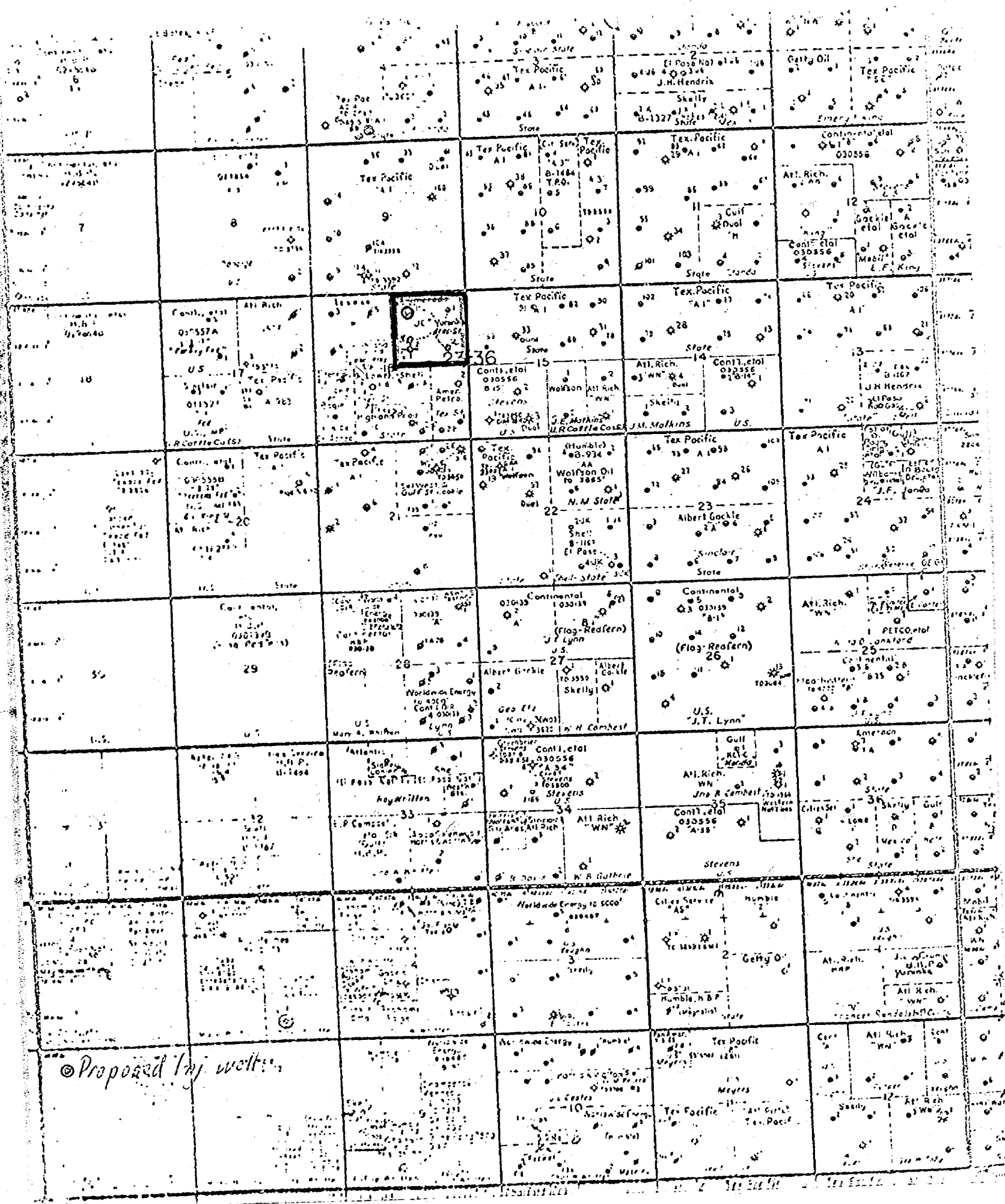
(Date)

BEFORE EXAMINER STAMEN  
OIL CONSERVATION COMMISSION  
YURONKA EXHIBIT NO. 7  
CASE NO. 5641  
Submitted by  
Hearing Date 31 MAR 76

No well will be assigned an allowable greater than the amount of oil produced on the official test.  
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.  
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.



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

OPERATOR <b>John Yuronka</b>		ADDRESS <b>120-C Central Bldg., Midland, Texas 79701</b>	
LEASE NAME <b>State JCIT</b>	WELL NO. <b>1</b>	FIELD <b>Langlie-Mattix</b>	COUNTY <b>Lea</b>
LOCATION UNIT LETTER <b>B</b> ; WELL IS LOCATED <b>660'</b> FEET FROM THE <b>North</b> LINE AND <b>660'</b> FEET FROM THE <b>West</b> LINE, SECTION <b>16</b> TOWNSHIP <b>23-S</b> RANGE <b>36-E</b> NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING	<b>8-5/8 OD</b>	<b>295</b>	<b>250</b>
INTERMEDIATE			
LONG STRING	<b>5-1/2"</b>	<b>3700</b>	<b>600</b>
TUBING	<b>2" EUE</b>	<b>3850</b>	<b>Halliburton R-4 @ Approx. 3690</b>
NAME OF PROPOSED INJECTION FORMATION <b>Queen Dolomite</b>		TOP OF FORMATION <b>3655</b>	BOTTOM OF FORMATION <b>3975 Estimated</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>3800 to 3875</b>
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Originally drilled by Amerada as an oil well</b>	
HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>yes</b>			
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>Please see attached discussion of well history and conversion procedure</b>			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>180'</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>3634</b>	
DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>5200 Estimated</b>			
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) <b>80</b>	MINIMUM <b>230</b>	MAXIMUM <b>230</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</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>		IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Initially by gravity</b>	
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Ross Robinson - Lessee 903 19th Street, Eunice N. M.</b>		APPROX. PRESSURE (PSIG) <b>Presently produced waters</b>	
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
<b>Texas Pacific Oil Co. 1509 West Wall, Midland, Texas 79701</b>			
<b>Texaco, Inc., Midland Savings Bldg., Midland, Texas 79701</b>			
<b>Shell Oil Co., Petroleum Bldg., Midland, Texas 79701</b>			
<b>Haralo Inc., Midland Tower, Midland, Texas 79701</b>			
<b>Continental Oil Co., Midland Savings Bldg., Midland, Texas 79701</b>			
<b>Cleary Petroleum Corp., Gihls Tower West, Midland, Texas 79701</b>			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER <b>Yes (Lessee)</b>		
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>Yes</b>		
	PLAT OF AREA <b>Yes</b>	ELECTRICAL LOG <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.

John Yuronka John Yuronka, Authorized Agent 1-27-76  
(Signature) (Title) (Date)

NOTE: Should waivers from 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.

Case 5641  
Exhibit 2

John Yuronka (Amerada) State JCT #1  
C/NW/4, NE/4, Sec. 16, Twp 23-S, R-36-E

Well history, present mechanical condition  
and proposed procedure for converting to  
water disposal.

The captioned well was completed in January, 1949, by Amerada Petroleum Corp. flowing oil from a dolomite phase of the Queen formation in the Langlie-Mattix Field.

Subsequently the oil bearing zone became non-commercial and the well was converted in January, 1957, to gas production from the Yates Formation. By November, 1962, the Yates had been sufficiently depleted and water production had increased to the extent that State JCT #1 was no longer capable of commercial production. The well was T. A.'d until January, 1973, when a pumping unit was installed and productivity tests conducted for one month. Even at current gas prices State JCT #1 proved incapable of commercial gas production and has remained idle since that latest test.

Therefore it is now proposed to convert the State JCT #1 to salt water disposal for service to other wells on the same lease.

Following are pertinent details of the history and physical and mechanical conditions now existing in State JCT #1, and a proposed conversion program.

Derrick floor elevation 3469'. Original Total Depth 3800'(-331). 5 1/2" O.D. casing cemented at 3700'(-231). Available files, including those of the N. M. C. C., do not contain a record of productivity tests of the open hole section from 3700' to 3800' subsequent to cementing 5 1/2" csg. However, a drill stem test from 3687' to 3800' prior to running 5 1/2" csg. had gas to surface 20 minutes and a head of drilling mud in 55 minutes. Obtained 1880' of slightly gas cut formation water in 4 hours. There was no oil and gas was estimated at 5000 cu. ft./day.

Case 5641  
Exhibit 3

After running 5  $\frac{1}{2}$ " casing, a drillable cement retainer was set at 3690' and the open hole squeezed with 50 sacks cement.

Casing was perforated from 3635' to 3680' and treated with 500 gal. Acid. Flowed 100% formation water. Set cement retainer at 3620' and squeezed perforations 3635' to 3680' with 50 sacks cement. Perforated casing 3585' to 3605' and treated w/1000 gal. acid in two stages. Flowed 288.20 bbls. oil, 11.01 bbls. water in 23 hrs. through 40/64" tbg. choke on initial potential test. Gas at rate of 617 MCF/day. Completed January 23, 1949.

By August 1949, well could no longer flow unassisted because of increasing water production. To secure gas for lift purposes the Yates Sand was perforated from 3280' to 3300' and 3330' to 3355'. The gas sand was treated with 2000 gal. acid.

State JCT #1 was produced by gas lift until January, 1951, when water had increased to the degree it was unprofitable to continue operations. The erstwhile oil bearing zone was abandoned by setting a cement retainer at 3400' and squeezing perforation 3585' to 3605' with 200 sacks cement.

State JCT #1 was then converted to a gas well by perforating from 3150' to 3210' and treating the new perforation with 2000 gal. Acid. Well was recompleted as a Yates gas well producing from perforation 3150' to 3210', 3280' to 3300', and 3330' to 3355'. It was potentialized on Feb. 20, 1951, flowing 1,640,000 cu. ft. gas and 55 bbls. water per day. Gas sales to Permian Basin Pipeline Co. began on December 24, 1953.

By August, 1956, well was producing an average of 200 bbls. water/day and persisted in loading with water and dying. In December, 1956, State JCT #1 was reworked by squeezing off all open perforations w/150 sacks cement and then drilling out to 3312. Casing was reperforated 3150' to 3210' and 3280' to 3300'. Perforated section

was then fractured with 10,000 gal. oil and 10,000# sd. On initial test after fracturing well flowed 13.80 bbls. oil and fed 920 MCF gas into the 500 PSIG line in 24 hours.

Within two months water production averaged 20 to 30 bbls. per day. The oil was exhausted and gas production varied between 500 and 700 MCF/d. The well had begun to load with water and a compressor was required to feed gas into the transmission line.

Periodic swabbing was required to keep well on production.

In May, 1961, a cement retainer was set at 3229' and perforations from 3280' to 3300' squeezed with 50 sacks cement. The perforations 3150' to 3210' were refractured with 20,000 gal. crude oil and 40,000# sd. Casing was additionally perforated from 3090' to 3100', treated with 500 gal Acid and fractured with 10,000 gal crude oil and 10,000# sd.

Following reworking well averaged 100 bbls. water and 293 MCF/day. Well feeding through a compressor into a 100 PSIG line.

By November, 1962, State JCT #1 could no longer be operated profitably. The N. M. C. C. gave permission to temporarily abandon the well and disconnect from the pipe line. It has remained inactive since, except for the testing period in 1973 noted above.

To convert the State JCT #1 to water disposal the following program is proposed:

- (1) Set cement retainer at 3060' and squeeze perforations from 3090' to 3100' and 3150' to 3210' with approximately 300 sacks cement.
- (2) Drill out cement to top of retainer at 3229 and pressure test for "shut off." If satisfactory, proceed with program. If not, resqueeze.
- (3) Drill out cement plugs from 3229' to top of retainer at 3400'. Test

squeezed perforations from 3230' to 3300' and 3330' to 3355' for shut off. If satisfactory, proceed with program. If not, resqueeze.

(4) Drill out plugs from 3400' to 3690' and test squeezed perforations from 3585' to 3605' and 3635' to 3680' for shut off. If satisfactory, proceed with program. If not, resqueeze.

(5) Drill out cement plug in squeezed open hole from 3700' to O. T. D. at 3800' and deepen well an additional 70' to 75'.

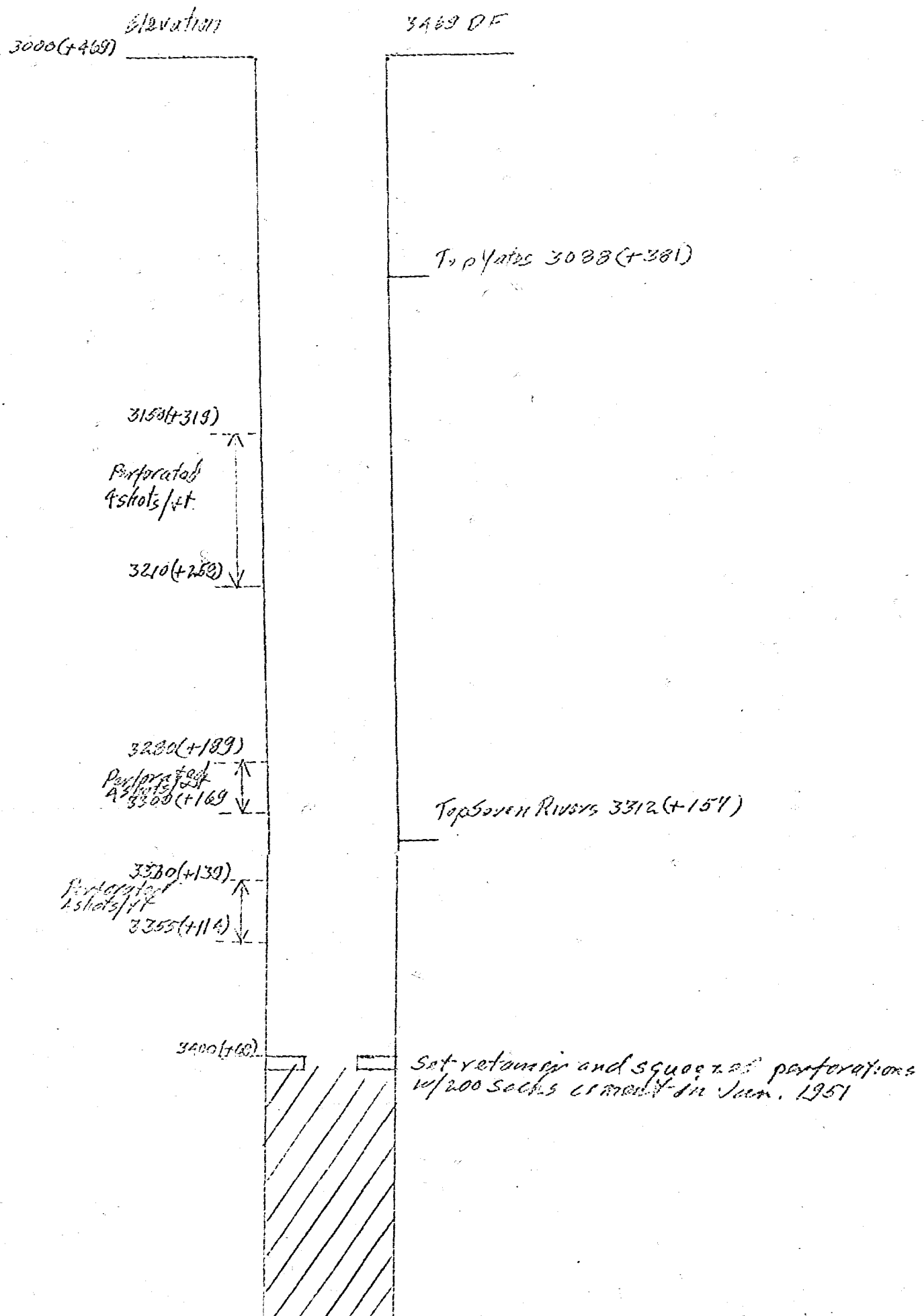
(6) Run tubing and packer and treat new hole with 2500 gal. 15% Acid.

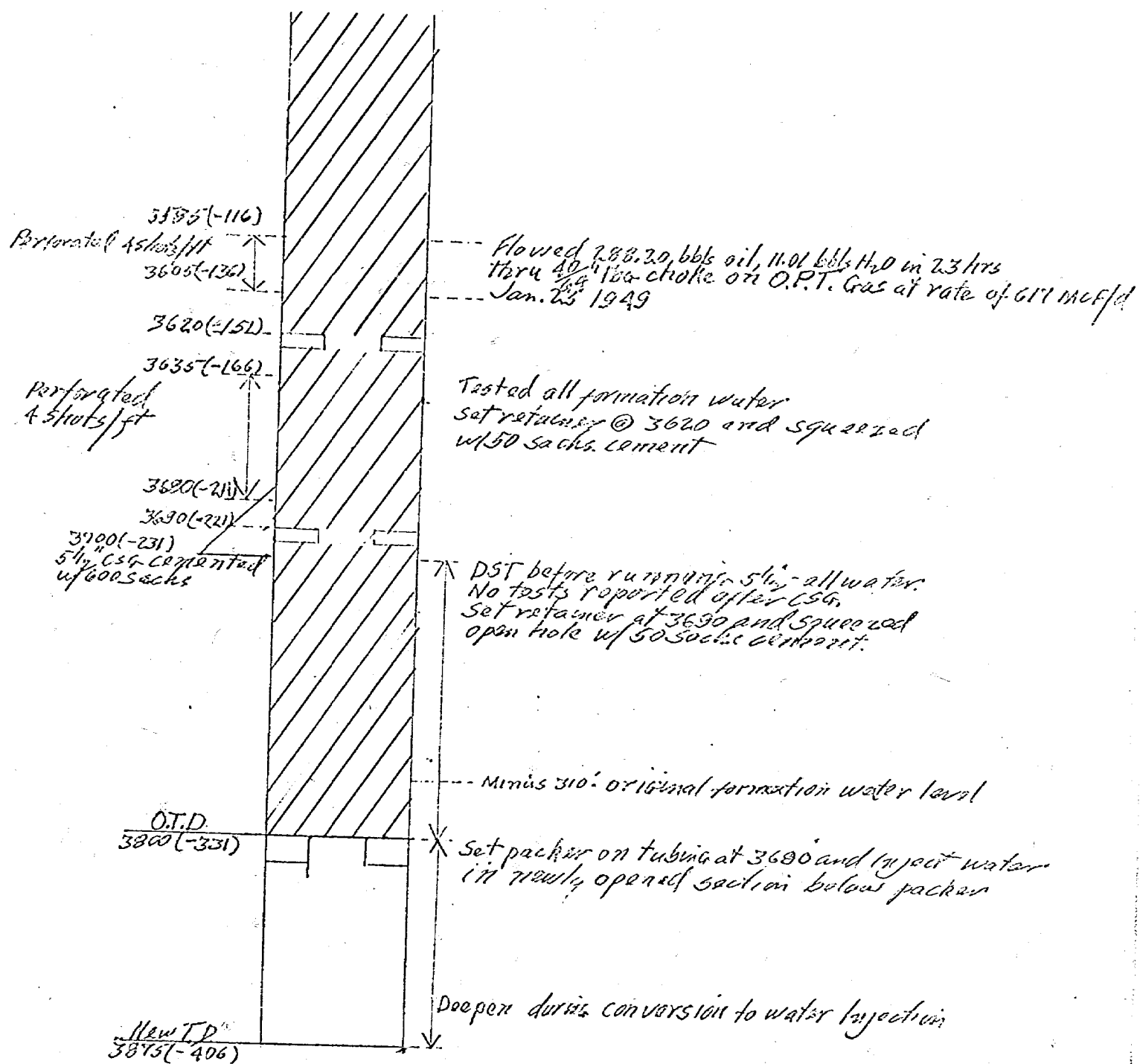
(7) Swab back acid water and test new formation for injectivity. If not satisfactory, retreat. If satisfactory, initiate water injection in the newly opened hole section below the packer.

The State JCT #1 is a structurally high well and the water will be introduced into a zone that is below the established original water level in the Langlie-Mattix Field in any well within the prescribed radius of two miles.

John Yuronka (Amerada) State JC<sup>TM</sup> #1  
CofNW/4, NE/4 Sec. 16, T-23-S, R-36-E

Diagram of present mechanical condition  
of well and procedure for converting to  
water injection





Note: 2" EUE tubing - w/ packer to be set at 3690 -  
 will be run to 3850 during final  
 completion as injection well.

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0233  
RESIDENCE 682-4576  
AREA CODE 915

February 16, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Re: Request for approval to convert temporarily  
abandoned oil and gas producer - State JC<sup>TM</sup>  
#1 - Located C/NW/4NE/4 16-23-36, to water  
injection for the purpose of disposing of  
produced waters from other wells on the Lease.

Dear Sir:

Attached please find the waivers signed by the Offset  
Operators on the Application for Salt Water Disposal sub-  
mitted on the captioned subject dated January 27, 1976.

Please note Maralo, Inc. letter stating that they do  
not own rights below a depth of 3701'. This was obtained on  
a farmout from Shell Oil Company who's waiver is attached.

Sincerely yours,

John Yuronka

JY/ph

Attachs: (6)

Case 5641  
Exhibit 4

L. P. Thompson  
Division Manager  
Production Department  
Hobbs Division  
Western Hemisphere Petroleum Division

Continental Oil Company  
P.O. Box 460  
1001 North Turner  
Hobbs, New Mexico 88240  
(505) 393-4141

February 9, 1976

Mr. John Yuronka  
120 C Central Building  
Midland, Texas 79701

Gentlemen:

SWD Application for your State JC "T" No. 1 Section 16, Township 23  
South Range 36 East

As requested by your letter dated January 31, 1976 we forward the  
approved ballot..

Yours very truly,



L. P. Thompson

VTL:af



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT  
CENTRAL UNITED STATES  
MIDLAND DIVISION

TEXACO INC.  
P. O. BOX 3109  
MIDLAND, TEXAS 79701

February 12, 1976

WAIVER OF OBJECTION TO CONVERTING  
TO AND INITIATING PRODUCED WATER  
INJECTION IN THE JOHN YURONKA (AMERADA)  
STATE JC "T" WELL NO. 1C

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

Gentlemen:

Texaco Inc. has been advised by John Yuronka of his application to convert to and initiate produced water injection in the subject well located in the NW/4 of the NE/4 of Section 16, Twp. 23-S, Range 36-E.

Texaco Inc., as an offset operator, waives objection to this application.

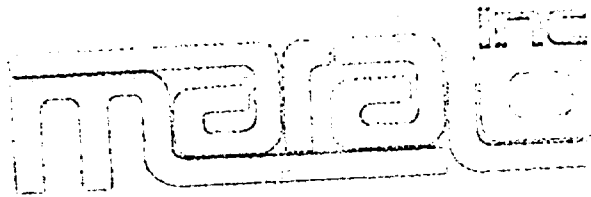
Yours very truly,

Darrell Smith  
Division Manager

By *R. G. Brown*  
R. G. Brown  
Assistant to Division Manager

RES/lc

cc: John Yuronka  
120-C Central Bldg.  
Midland, Texas 79701



February 9, 1976

John Yuronka  
120-C Central Building  
Midland, Texas 79701

Re: Lowe Lease #1032  
Lea County, New Mexico

Dear Mr. Yuronka:

In reply to your request for a waiver objection to converting the State JC"T" #1C in the NW/4 NE/4 of Section 16, T23S, R36E, please be advised that, according to our records, Maralo, Inc. and Erma Lowe do not own any rights below the depth of 3,701 feet in this tract. Therefore, it is not necessary for them to waive an objection to your injecting water below this depth.

Yours very truly,

A handwritten signature in cursive script that reads "John R. Burke".

John R. Burke  
Land Department

JRB:ph

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

January 31, 1976

OFFICE 684-6223  
RESIDENCE 683-4579  
AREA CODE 915

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

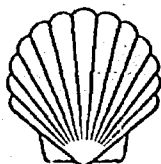
Gentlemen:

Cleary Petroleum Corporation operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

CLEARY PETROLEUM CORPORATION  
by W. L. Long  
Title District Production Manager

JY/ph



# SHELL OIL COMPANY

PETROLEUM BUILDING

P.O. BOX 1509

MIDLAND, TEXAS 79701

February 6, 1976

Subject: Waiver of Objection to Converting  
to and Initiating Produced Water  
Injection in John Yuronka (Amerada)  
State JC "T" No. 1  
C of NW/4 NE/4 Sec. 16,  
T-23-S, R-36-E

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

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

Shell Oil Company has a lease offsetting the John Yuronka Ares-State Lease, being NE/4 Sec. 16, T-23-S, R-36-E. We have no objection to the work and program as specified in the data submitted.

Yours very truly,

J. D. Hughes  
Operations Manager-Midland  
Mid-Continent Division

JES:DCW

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0223  
RESIDENCE 688-4570  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"U" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Texas Pacific Oil Company, Inc. operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

TEXAS PACIFIC OIL COMPANY, INC.  
by KJ Womack 2/10/76  
Title District Manager

JY/ph

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-6223  
RESIDENCE 683-4579  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Continental Oil Company operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

Continental Oil Company

by

L. P. THOMPSON

Title Division Manager- Production

JY/ph

HALLIBURTON DIVISION LABORATORY  
HALLIBURTON COMPANY  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
LABORATORY WATER ANALYSIS

No. W75-484

To John Yuronka

Date 6-14-1975

323 Central Building

Midland, Texas

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_

Date Rec. 6-13-1975

Well No. Ares State # 1,3

Depth #1:3634; #3:3665

Formation Queen (Dolo. Phase)

County \_\_\_\_\_

Field \_\_\_\_\_

Source Well Bleeder

	Well # 1	Well # 3	
Resistivity	0.659 @ 78°F	0.374 @ 78°F	
Specific Gravity	1.01	1.01	
pH	7.2	6.6	
Calcium (Ca)	765	495	*MPL
Magnesium (Mg)	114	456	
Chlorides (Cl)	6,000	11,000	
Sulfates (SO <sub>4</sub> )	180	150	
Bicarbonates (HCO <sub>3</sub> )	1,659	1,586	
Soluble Iron (Fe)	Nil	Nil	

Remarks:

\*Milligrams per liter

Case 5641  
Exhibit 5

Respectfully submitted,

Analyst: Adam  
cc: \_\_\_\_\_

HALLIBURTON COMPANY

By Adam S. Cerny  
DIVISION CHEMIST ENC.

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

HALLIBURTON DIVISION LABORATORY  
HALLIBURTON SERVICES  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
**LABORATORY WATER ANALYSIS**

No. 576-191

Date 3-2-76

To John Yuranka  
120-C Central Building  
Midland, Texas 79701

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_ Date Rec. 3-2-76  
Well No. Ares State #4 Depth 3350-55' Formation Seven Rivers  
County Lea Field Jal Mat Source Wellhead

Resistivity	<u>2-29-76</u>	<u>3-1-76</u>
	<u>0.179 @ 72°</u>	<u>0.181 @ 72° F.</u>
Specific Gravity	<u>1.034</u>	<u>1.034</u>
pH	<u>7.6</u>	<u>7.6</u>
Calcium (Ca)	<u>1,850</u>	<u>1,600</u>
Magnesium (Mg)	<u>3,090</u>	<u>3,180</u>
Chlorides (Cl)	<u>26,500</u>	<u>26,000</u>
Sulfates (SO <sub>4</sub> )	<u>1,950</u>	<u>2,200</u>
Bicarbonates (HCO <sub>3</sub> )	<u>950</u>	<u>1,000</u>
Soluble Iron (Fe)	<u>Nil</u>	<u>Nil</u>

\*MPL

\*Milligrams per liter

Remarks:

Respectfully submitted,

Case 5641  
Exhibit 6

Analyst: Brewer  
cc:

HALLIBURTON COMPANY

By

CHEMIST

**NOTICE**

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Lease		Pool	County		Type of Test - (X)		Scheduled	Completion	Special						
John Yurionka		Tangle Matrix	Lea County		<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
120-C Central Building, Midland, Texas 79701															
LEASE NAME	WELL NO.	U	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL.	
			S	T	R						WATER BBL.	GRAV. OIL	OIL FLS.		GAS M.C.F.
ARCO Crump	1	I	1	24.5	36E	2-28-76	2"	---	11	24	2.32	35	6.39	143.6	22,473
	2	J	1	24.5	36E	2-29-76	2"	---	19	24	12.21	35	15.99	112.4	7,029
Aves State	1	A	16	23S	36E	1-10-76	2"	---	23	24	51.99	33	4.85	88.0	18,144
	2	H	16	23S	36E	1-14-76	2"	---	13	24	33.97	33	3.46	12.0	3,468
Gulf Billa	1	I	17	24.5	37E	1-20-76	2"	---	9	24	40.12	33	6.27	80.0	12,759
	1	O	8	24.5	37E	2-15-76	20/64"	150	19	24		35	5.53	384.8	69,584
Hodges	1	P	8	24.5	37E	2-16-76	27/64"	80	21	24		35	7.61	550.2	72,300
	2														

Case 5641  
Exh. bit 7

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

*John Yurionka*  
(Signature)  
Authorized Agent  
(Title)  
March 9, 1976  
(Date)

© Proposed by well...

Case 5641

#2

Form C-108  
Revised 3-1-68NEW MEXICO OIL CONSERVATION COMMISSION  
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

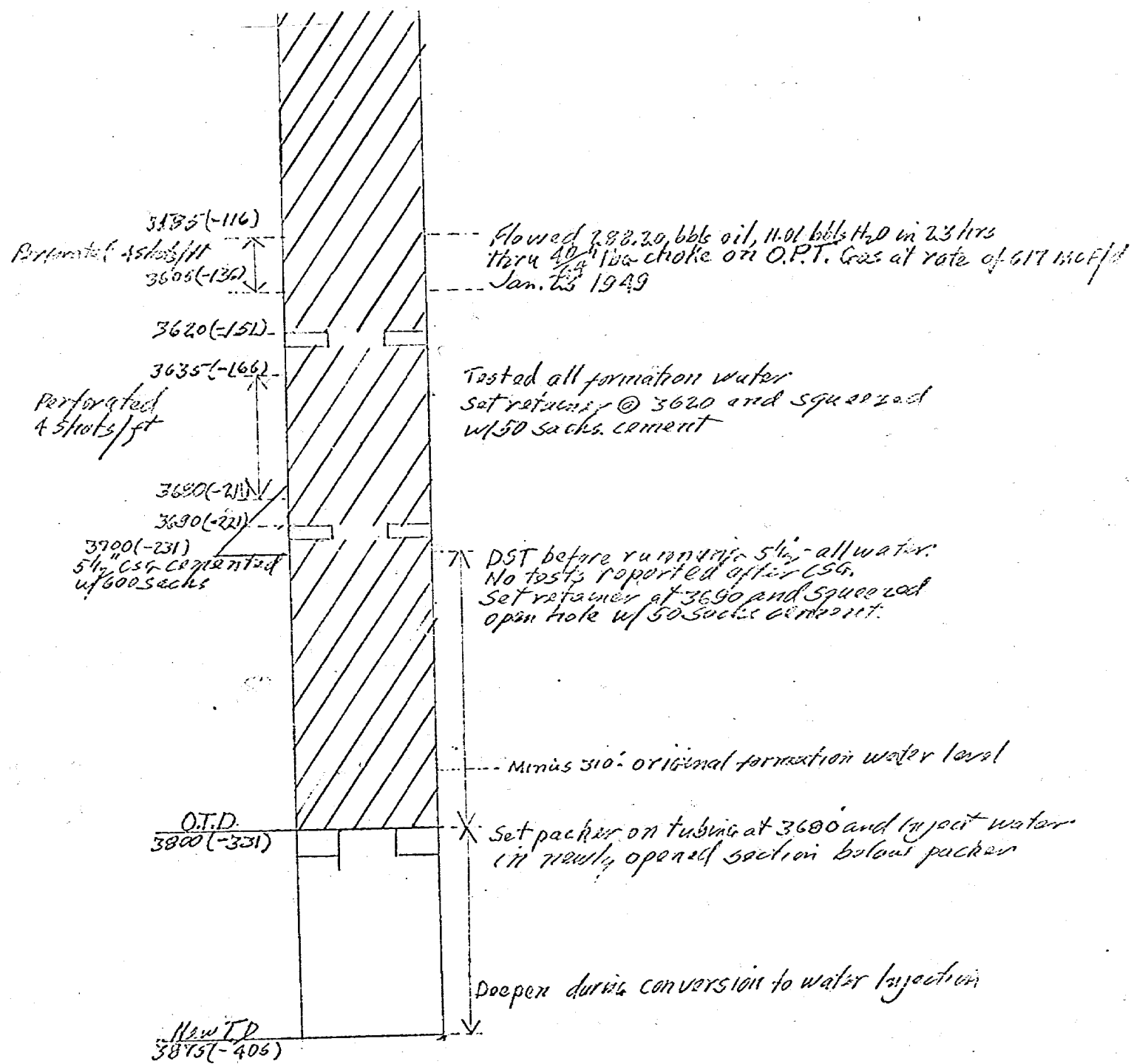
OPERATOR <b>John Yuronka</b>		ADDRESS <b>120-C Central Bldg., Midland, Texas 79701</b>			
LEASE NAME <b>State JC"T"</b>		WELL NO. <b>1</b>	FIELD <b>Langlie-Mattix</b>		COUNTY <b>Lea</b>
LOCATION UNIT LETTER <b>B</b> ; WELL IS LOCATED <b>660'</b> FEET FROM THE <b>North</b> LINE AND <b>660'</b> FEET FROM THE <b>West</b> LINE. SECTION <b>16</b> TOWNSHIP <b>23-S</b> RANGE <b>36-E</b> NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	<b>8-5/8 OD</b>	<b>295</b>	<b>250</b>	<b>Circulated</b>	
INTERMEDIATE					
LONG STRING	<b>5-1/2"</b>	<b>3700</b>	<b>600</b>	<b>2470'</b>	<b>Temperature Survey</b>
TUBING	<b>2" BUE</b>	<b>3850</b>	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Halliburton R-4 @ Approx. 3690</b>		
NAME OF PROPOSED INJECTION FORMATION <b>Queen Dolomite</b>		TOP OF FORMATION <b>3655</b>		BOTTOM OF FORMATION <b>3975 Estimated</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>3800 to 3875</b>	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Originally drilled by Amerada as an oil well</b>		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>yes</b>	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>Please see attached discussion of well history and conversion procedure</b>					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>180'</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>3634</b>		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>5200 Estimated</b>	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM <b>80</b>	MAXIMUM <b>230</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Initially by gravity</b>	APPROX. PRESSURE (PSIG) <b>---</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 -			WATER TO BE DISPOSED OF <b>yes</b>	NATURAL WATER IN DISPOSAL ZONE <b>yes</b>	ARE WATER ANALYSES ATTACHED? <b>Presently produced waters</b>
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Ross Robinson - Lessee 903 19th Street, Eunice N. M.</b>					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
<b>Texas Pacific Oil Co. 1509 West Wall, Midland, Texas 79701</b>					
<b>Texaco, Inc., Midland Savings Bldg., Midland, Texas 79701</b>					
<b>Shell Oil Co., Petroleum Bldg., Midland, Texas 79701</b>					
<b>Marcelo Inc., Midland Tower, Midland, Texas 79701</b>					
<b>Continental Oil Co., Midland Savings Bldg., Midland, Texas 79701</b>					
<b>Cleary Petroleum Corp., Gihls Tower West, Midland, Texas 79701</b>					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER <b>Yes (Lessee)</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>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.

John Yuronka  
(Signature)John Yuronka, Authorized Agent  
(Title)1-27-76

(Date)

NOTE: Should waivers from 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.



Note: 2" EUE tubing - w/ packer to be set at 3690 - will be run to 3850 during final completion as injection well.

Case 5641

#4

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-6223  
RESIDENCE 683-4370  
AREA CODE 915

February 16, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Re: Request for approval to convert temporarily  
abandoned oil and gas producer - State JC"TH"  
#1 - Located C/NW/4NE/4 16-23-36, to water  
injection for the purpose of disposing of  
produced waters from other wells on the Lease.

Dear Sir:

Attached please find the waivers signed by the Offset  
Operators on the Application for Salt Water Disposal sub-  
mitted on the captioned subject dated January 27, 1976.

Please note Maralo, Inc. letter stating that they do  
not own rights below a depth of 3701'. This was obtained on  
a farmout from Shell Oil Company who's waiver is attached.

Sincerely yours,

John Yuronka

JY/ph

Attachs: (6)

L. P. Thompson  
Division Manager  
Production Department  
Hobbs Division  
Western Hemisphere Petroleum Division

Continental Oil Company  
P.O. Box 460  
1001 North Turner  
Hobbs, New Mexico 88240  
(505) 393-4141

February 9, 1976

Mr. John Yuronka  
120 C Central Building  
Midland, Texas 79701

Gentlemen:

SWD Application for your State "JC "T" No. 1 Section 16, Township 23  
South Range 36 East

As requested by your letter dated January 31, 1976 we forward the  
approved ballot..

Yours very truly,



L. P. Thompson

VTL:af



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT  
CENTRAL UNITED STATES  
MIDLAND DIVISION

February 12, 1976

TEXACO INC.  
P. O. BOX 3109  
MIDLAND, TEXAS 79701

WAIVER OF OBJECTION TO CONVERTING  
TO AND INITIATING PRODUCED WATER  
INJECTION IN THE JOHN YURONKA (AMERADA)  
STATE JC "T" WELL NO. 1C

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

Gentlemen:

Texaco Inc. has been advised by John Yuronka of his application to convert to and initiate produced water injection in the subject well located in the NW/4 of the NE/4 of Section 16, Twp. 23-S, Range 36-E.

Texaco Inc., as an offset operator, waives objection to this application.

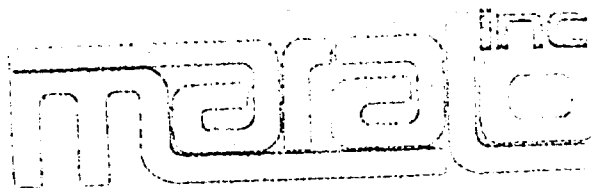
Yours very truly,

Darrell Smith  
Division Manager

By *R. G. Brown*  
R. G. Brown  
Assistant to Division Manager

RES/lc

cc: John Yuronka  
120-C Central Bldg.  
Midland, Texas 79701



February 9, 1976

John Yuronka  
120-C Central Building  
Midland, Texas 79701

Re: Lowe Lease #1032  
Lea County, New Mexico

Dear Mr. Yuronka:

In reply to your request for a waiver objection to converting the State JC"T" #1C in the NW/4 NE/4 of Section 16, T23S, R36E, please be advised that, according to our records, Maralo, Inc. and Erma Lowe do not own any rights below the depth of 3,701 feet in this tract. Therefore, it is not necessary for them to waive an objection to your injecting water below this depth.

Yours very truly,

A handwritten signature in cursive script that reads "John R. Burke".

John R. Burke  
Land Department

JRB:ph

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0223  
RESIDENCE 683-4570  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

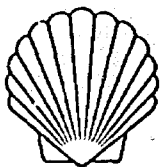
Gentlemen:

Cleary Petroleum Corporation operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

CLEARY PETROLEUM CORPORATION  
by W. C. Foreman  
Title District Production Manager

JY/ph



## SHELL OIL COMPANY

PETROLEUM BUILDING  
P.O. BOX 1509  
MIDLAND, TEXAS 79701

February 6, 1976

Subject: Waiver of Objection to Converting  
to and Initiating Produced Water  
Injection in John Yuronka (Amerada)  
State JC "T" No. 1  
C of NW/4 NE/4 Sec. 16,  
T-23-S, R-36-E

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

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

Shell Oil Company has a lease offsetting the John Yuronka Ares-  
State Lease, being NE/4 Sec. 16, T-23-S, R-36-E. We have no objection to  
the work and program as specified in the data submitted.

Yours very truly,

J. D. Hughes  
Operations Manager-Midland  
Mid-Continent Division

JES:DCW

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-6223  
RESIDENCE 683-4579  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Texas Pacific Oil Company, Inc. operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

TEXAS PACIFIC OIL COMPANY, INC.

by K. J. Womack, Jr. 2/10/76

Title District Manager

JY/ph

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-6223  
RESIDENCE 682-4570  
AREA CODE 915

January 31, 1976

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


Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"TM" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Continental Oil Company operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

Continental Oil Company  
by   
L. P. THOMPSON  
Title Division Manager- Production

JY/ph

Case 5641

HALLIBURTON DIVISION LABORATORY  
 HALLIBURTON COMPANY  
 MIDLAND DIVISION  
 LOVINGTON, NEW MEXICO 88260  
 LABORATORY WATER ANALYSIS

No. W75-484Date 6-14-1975

To John Yuronka  
323 Central Building  
Midland, Texas

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_ Date Rec. 6-13-1975  
 Well No. Ares State # 1,3 Depth #1:3634; #3:3665 Formation Queen (Dolo. Phase)  
 County \_\_\_\_\_ Field \_\_\_\_\_ Source Well Bleeder

	Well # 1 <i>W75-484</i>	Well # 3
Resistivity	<u>0.659 @ 78°F</u>	<u>0.374 @ 78°F</u>
Specific Gravity	<u>1.01</u>	<u>1.01</u>
pH	<u>7.2</u>	<u>6.6</u>
Calcium (Ca)	<u>765</u>	<u>495</u>
Magnesium (Mg)	<u>114</u>	<u>456</u>
Chlorides (Cl)	<u>6,000</u>	<u>11,000</u> <i>(Sample for testing sent to lab)</i>
Sulfates (SO <sub>4</sub> )	<u>180</u>	<u>150</u>
Bicarbonates (HCO <sub>3</sub> )	<u>1,659</u>	<u>1,586</u>
Soluble Iron (Fe)	<u>Nil</u>	<u>Nil</u>

\*MPL

\*Milligrams per liter

Remarks:

Respectfully submitted,

Analyst: Adam  
 CC:

HALLIBURTON COMPANY  
 By Adam Salinas  
 DIVISION CHEMIST ENGR.

## NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

Case 5641

HALLIBURTON DIVISION LABORATORY  
HALLIBURTON SERVICES  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
LABORATORY WATER ANALYSIS

No. 376-191

To John Yurooka  
120-C Central Building  
Midland, Texas 79701

Date 3-2-76

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_ Date Rec. 3-2-76

Well No. Ares State #4 Depth 3350-55' Formation Seven Rivers

County Lea Field Jal Kat Source Wellhead

	2-29-76	3-2-76	
Resistivity	0.179 @ 72° F.	0.181 @ 72° F.	
Specific Gravity	1.034	1.034	
pH	7.6	7.6	
Calcium (Ca)	1,850	1,600	*MPL
Magnesium (Mg)	3,090	3,180	
Chlorides (Cl)	26,500	26,000	
Sulfates (SO <sub>4</sub> )	1,950	2,200	
Bicarbonates (HCO <sub>3</sub> )	950	1,000	
Soluble Iron (Fe)	Nil	Nil	

Remarks: \_\_\_\_\_ \*Milligrams per liter

Respectfully submitted,

Analyst: Brewer  
cc:

HALLIBURTON COMPANY

By W. L. Lawrence  
CHEMIST

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

Case 5641  
#1

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL	
		U	S	T						WATER BBL.	GRAV. OIL	OIL BBL.		GAS M.C.F.
Langlie Matrix														
120-C Central Building, Midland, Texas 79701														
ARCO Crump	1	I	1	24S	2-28-76	2"	---	11	24	2.32	35	6.39	143.6	22,473
	2	J	1	24S	2-29-76	2"	---	19	24	12.21	35	15.99	112.4	7,029
Ares State	1	A	16	23S	1-10-76	2"	---	23	24	51.99	33	4.85	88.0	18,144
	2	H	16	23S	1-14-76	2"	---	13	24	33.97	33	3.46	12.0	3,468
Gulf Rilla	1	I	17	24S	1-20-76	2"	---	9	24	40.12	33	6.27	80.0	12,759
Hodges	1	O	8	24S	2-15-76	20/64"	150	19	24		35	5.53	384.8	69,584
	2	P	8	24S	2-16-76	27/64"	80	21	24		35	7.61	550.2	72,300

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

*John Vironka*  
(Signature)

Authorized Agent

(Title)

March 9, 1976

(Date)

No well will be assigned an allowable greater than the amount of oil produced on the official test. During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

John Yuronka (Amerada) State JCT #1  
C/NW/4, NE/4, Sec. 16, Twp 23-S, R-36-E

Well history, present mechanical condition  
and proposed procedure for converting to  
water disposal.

#3  
w/ attached  
abstract  
Case 5641

The captioned well was completed in January, 1949, by Amerada Petroleum Corp. flowing oil from a dolomite phase of the Queen formation in the Langlie-Mattix Field.

Subsequently the oil bearing zone became non-commercial and the well was converted in January, 1957, to gas production from the Yates Formation. By November, 1962, the Yates had been sufficiently depleted and water production had increased to the extent that State JCT #1 was no longer capable of commercial production. The well was T. A. 'd until January, 1973, when a pumping unit was installed and productivity tests conducted for one month. Even at current gas prices State JCT #1 proved incapable of commercial gas production and has remained idle since that latest test.

Therefore it is now proposed to convert the State JCT #1 to salt water disposal for service to other wells on the same lease.

Following are pertinent details of the history and physical and mechanical conditions now existing in State JCT #1, and a proposed conversion program.

Derrick floor elevation 3469'. Original Total Depth 3800'(-331). 5 1/2" O.D. casing cemented at 3700'(-231). Available files, including those of the N. M. C. C., do not contain a record of productivity tests of the open hole section from 3700' to 3800' subsequent to cementing 5 1/2" csg. However, a drill stem test from 3687' to 3800' prior to running 5 1/2" csg. had gas to surface 20 minutes and a head of drilling mud in 55 minutes. Obtained 1880' of slightly gas cut formation water in 4 hours. There was no oil and gas was estimated at 5000 cu. ft./day.

After running 5 1/2" casing, a drillable cement retainer was set at 3690' and the open hole squeezed with 50 sacks cement.

Casing was perforated from 3635' to 3680' and treated with 500 gal. Acid. Flowed 100% formation water. Set cement retainer at 3620' and squeezed perforations 3635' to 3680' with 50 sacks cement. Perforated casing 3585' to 3605' and treated w/1000 gal. acid in two stages. Flowed 288.20 bbls. oil, 11.01 bbls. water in 23 hrs. through 40/64" tbg. choke on initial potential test. Gas at rate of 617 MCF/day. Completed January 23, 1949.

By August 1949, well could no longer flow unassisted because of increasing water production. To secure gas for lift purposes the Yates Sand was perforated from 3280' to 3300' and 3330' to 3355'. The gas sand was treated with 2000 gal. acid.

State JCT #1 was produced by gas lift until January, 1951, when water had increased to the degree it was unprofitable to continue operations. The erstwhile oil bearing zone was abandoned by setting a cement retainer at 3400' and squeezing perforation 3585' to 3605' with 200 sacks cement.

State JCT #1 was then converted to a gas well by perforating from 3150' to 3210' and treating the new perforation with 2000 gal. Acid. Well was recompleted as a Yates gas well producing from perforation 3150' to 3210', 3280' to 3300', and 3330' to 3355'. It was potentialized on Feb. 20, 1951, flowing 1,640,000 cu. ft. gas and 55 bbls. water per day. Gas sales to Permian Basin Pipeline Co. began on December 24, 1953.

By August, 1956, well was producing an average of 200 bbls. water/day and persisted in loading with water and dying. In December, 1956, State JCT #1 was reworked by squeezing off all open perforations w/150 sacks cement and then drilling out to 3312. Casing was reperforated 3150' to 3210' and 3280' to 3300'. Perforated section

was then fractured with 10,000 gal. oil and 10,000# sd. On initial test after fracturing well flowed 13.80 bbls. oil and fed 920 MCF gas into the 500 PSIG line in 24 hours.

Within two months water production averaged 20 to 30 bbls. per day. The oil was exhausted and gas production varied between 500 and 700 MCF/d. The well had begun to load with water and a compressor was required to feed gas into the transmission line.

Periodic swabbing was required to keep well on production.

In May, 1961, a cement retainer was set at 3229' and perforations from 3280' to 3300' squeezed with 50 sacks cement. The perforations 3150' to 3210' were refractured with 20,000 gal. crude oil and 40,000# sd. Casing was additionally perforated from 3090' to 3100', treated with 500 gal Acid and fractured with 10,000 gal crude oil and 10,000# sd.

Following reworking well averaged 100 bbls. water and 293 MCF/day. Well feeding through a compressor into a 100 PSIG line.

By November, 1962, State JCT #1 could no longer be operated profitably. The N. M. C. C. gave permission to temporarily abandon the well and disconnect from the pipe line. It has remained inactive since, except for the testing period in 1973 noted above.

To convert the State JCT #1 to water disposal the following program is proposed:

- (1) Set cement retainer at 3060' and squeeze perforations from 3090' to 3100' and 3150' to 3210' with approximately 300 sacks cement.
- (2) Drill out cement to top of retainer at 3229 and pressure test for "shut off." If satisfactory, proceed with program. If not, resqueeze.
- (3) Drill out cement plugs from 3229' to top of retainer at 3400'. Test

squeezed perforations from 3230' to 3300' and 3330' to 3355' for shut off. If satisfactory, proceed with program. If not, resqueeze.

(4) Drill out plugs from 3400' to 3690' and test squeezed perforations from 3585' to 3605' and 3635' to 3680' for shut off. If satisfactory, proceed with program. If not, resqueeze.

(5) Drill out cement plug in squeezed open hole from 3700' to O. T. D. at 3800' and deepen well an additional 70' to 75'.

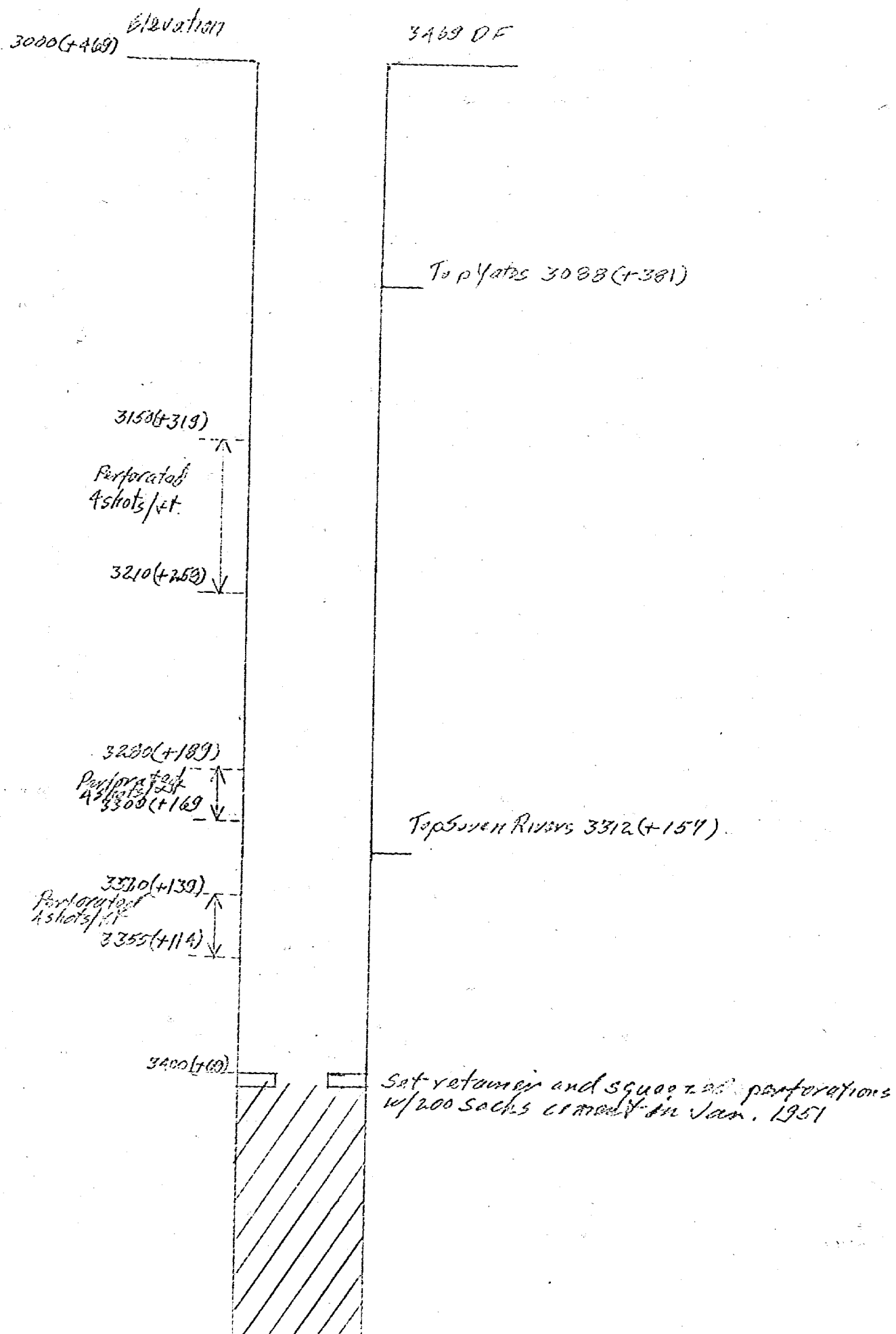
(6) Run tubing and packer and treat new hole with 2500 gal. 15% Acid.

(7) Swab back acid water and test new formation for injectivity. If not satisfactory, retreat. If satisfactory, initiate water injection in the newly opened hole section below the packer.

The State JCT #1 is a structurally high well and the water will be introduced into a zone that is below the established original water level in the Langlie-Mattix Field in any well within the prescribed radius of two miles.

John Yuronka (Amerada) State JC<sup>TM</sup> #1  
CofNW/4, NE/4 Sec. 16, T-23-S, R-36-E

Diagram of present mechanical condition  
of well and procedure for converting to  
water injection



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
March 3, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of John Yuronka for salt ) CASE  
water disposal, Lea County, New Mexico. ) 5641

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil Conservation Commission: William F. Carr, Esq.  
Legal Counsel for the Commission  
State Land Office Building  
Santa Fe, New Mexico

sid morrish reporting service  
General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

1 MR. STAMETS: The hearing will please come to order.  
2 We will call first, Case 5641.

3 MR. CARR: Case 5641, application of John Yuronka  
4 for salt water disposal, Lea County, New Mexico.

5 Mr. Examiner, we have received a request from this  
6 applicant that the case be continued to the examiner hearing  
7 to be held on March 17, 1976.

8 MR. STAMETS: Case 5641 will be continued to that  
9 date.

**sid morrish reporting service**  
General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

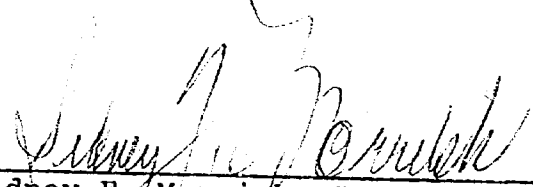
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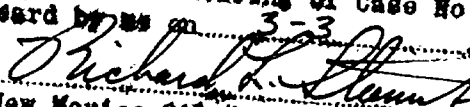
sid morrish reporting service  
General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

Page 3

REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,  
do hereby certify that the foregoing and attached Transcript  
of Hearing before the New Mexico Oil Conservation Commission  
was reported by me, and the same is a true and correct record  
of the said proceedings to the best of my knowledge, skill and  
ability.

  
Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 5641  
heard by me on 3-3, 1976.  
  
Richard L. Stamm, Examiner  
New Mexico Oil Conservation Commission

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
March 3, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of John Yuronka for salt water disposal, Lea County, New Mexico. CASE 5641

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil	William F. Carr, Esq.
Conservation Commission:	Legal Counsel for the Commission
	State Land Office Building
	Santa Fe, New Mexico

sid morrish reporting service

General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

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2 We will call first, Case 5641.

3 MR. CARR: Case 5641, application of John Yuronka  
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5 Mr. Examiner, we have received a request from this  
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7 to be held on March 17, 1976.

8 MR. STAMETS: Case 5641 will be continued to that  
9 date.

sid morrish reporting service

General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
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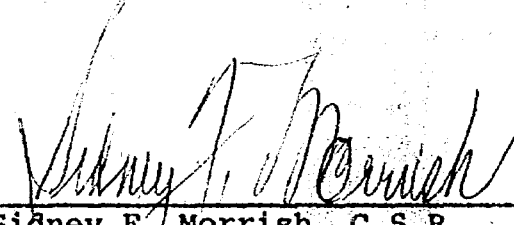
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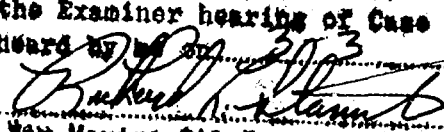
sid morrish reporting service

General Court Reporting Service  
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Phone (505) 982-9212

REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,  
do hereby certify that the foregoing and attached Transcript  
of Hearing before the New Mexico Oil Conservation Commission  
was reported by me, and the same is a true and correct record  
of the said proceedings to the best of my knowledge, skill and  
ability.

  
Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 5641.  
heard by me on 3/23/76  
  
Examiner  
New Mexico Oil Conservation Commission

Dockets Nos. 12-76 and 13-76 are tentatively set for hearing on April 14 and 28, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 31, 1976

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Mutter, Alternate Examiner:

CASE 5641: (Continued from March 17, 1976 Examiner Hearing)

Application of John Yuronka for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water by injection to the Queen formation through the open-hole interval from approximately 3800 to 3875 feet in his State JC "T" Well No. 1 located in Unit B of Section 16, Township 23 South, Range 36 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 5651: (Continued & Readvertised)

Application of Burmah Oil & Gas Co. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 1780 feet from the South line and 660 feet from the West line of Section 11, Township 24 South, Range 28 East, Eddy County, New Mexico, the W/2 of said Section 11 to be dedicated to the well.

CASE 5655: Application of Apollo Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water into the lower Yates-Seven Rivers formation through the open-hole interval from 3289 to 3363 feet in its Brown Well No. 5, located in Unit E of Section 25, Township 25 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.

CASE 5656: Application of David Fasken for an unorthodox location and simultaneous dedication, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of his Avalon Federal Com Well No. 2, to be drilled 660 feet from the South and West lines of Section 1, Township 21 South, Range 25 East, Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico, with all of said Section 1, a previously approved 854-acre non-standard gas proration unit, to be simultaneously dedicated to said well and to applicant's Avalon Federal Com Well No. 1, located in Unit P of said Section 1.

CASE 5657: Application of Inexco Oil Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of a well to be drilled 350 feet from the East line and 803 feet from the South line of Section 1, Township 21 South, Range 26 East, Burton Flat Field, Eddy County, New Mexico, the S/2 of said Section 1 to be dedicated to the well.

CASE 5658: Application of Inexco Oil Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 10, Township 21 South, Range 26 East, Avalon Field, Eddy County, New Mexico, to be dedicated to applicant's Inexco Federal-State Com Well No. 1-10, to be drilled at an orthodox location. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5659: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Penrose Skelly Grayburg and Drinkard production in the wellbore of its Mittie Weatherly Well No. 1, located in Unit F of Section 17, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 5660: Application of Exxon Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Fairview Mills Unit Area comprising 3240 acres, more or less, of Federal and Fee lands in Township 25 South, Range 34 East, Lea County, New Mexico.

CASE 5661: Application of Randolph M. Richardson for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the CC Tank Unit Area comprising 10,550 acres, more or less, of Federal, State, and fee lands in Townships 19 and 20 South, Ranges 23 and 24 East, Eddy County, New Mexico.

Examiner Hearing - Wednesday- March 31, 1976  
-2-

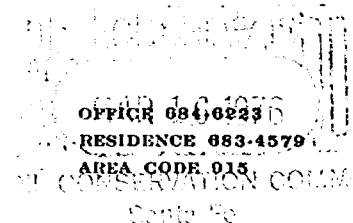
Docket No. 11-76

CASE 5662: Application of Walter W. Krug dba Wallen Production Company for an exception to Order No. R-111-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the Potash-Oil Area casing-cementing rules for Yates-Seven Rivers wells to be drilled in the following-described lands, Lea County, New Mexico:

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM  
Section 20: S/2 NE/4 & SE/4  
Section 21: S/2 SW/4  
Section 28: N/2 NW/4

Applicant proposes rules for said area which would permit completion of said wells with a shallow cavings string cemented in and with 7-inch production casing to the top of the pay and a 4 1/2-inch liner through the pay, all cemented to the surface.

**JOHN YURONKA**  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701



March 12, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Re: Case No. 5641

Dear Sir:

The captioned case concerns my application to dispose of produced water into the Queen formation of the Langlie Mattix Pool, Lea County, New Mexico.

This case is set for hearing on March 17, 1976, but because of a heavy work-load in the field, a continuance is requested to the next hearing date. My understanding is that this date is March 31, 1976. If this is not the case, please set it at the earliest possible date after March 31, 1976.

It is also requested that I be notified immediately regarding this new date in order that I may make plans to present evidence in support of my request. Your prompt attention to this matter will be greatly appreciated.

Very truly yours,

*John Yuronka*  
John Yuronka

JY/ph

*Cont Case  
5641 to  
Ex Hrg Mar 31*

Dockets Nos. 11-76 and 12-76 are tentatively set for hearing on March 31, 1976 and April 14, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 17, 1976

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Mutter, Examiner, or Richard L. Stanets, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for April, 1976, from seventeen prorated pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
- (2) Consideration of the allowable production of gas for April, 1976, from five prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

CASE 5636: (Continued & Readvertised)

Application of Julian Ard for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled in the center of the SW/4 SE/4 of Section 32, Township 9 South, Range 27 East, West Sawyer-San Andres Pool, Lea County, New Mexico, in exception to the provisions of Rule 4, Order No. R-3850.

CASE 5641: (Continued from March 3, 1976, Examiner Hearing)

Application of John Yuronka for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water by injection to the Queen formation through the open-hole interval from approximately 3300 to 3375 feet in his State JC "T" Well No. 1 located in Unit B of Section 16, Township 23 South, Range 26 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 5645: Application of Amoco Production Company for suspension of Rules 14A and 15A of the gas proration rules, Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks suspension for a period of one year from April 1, 1976, of those provisions of Rule 14A and 15A of the General Rules and Regulations for the prorated gas pools of Southeastern New Mexico promulgated by Order No. R-1670, as amended, that provide for the cancellation of underproduction and the shutting-in of overproduced wells, as applied to the Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico.

CASE 5646: Application of Southern Union Gas Company for suspension of Rules 14A and 15A of the gas proration rules, Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks suspension for a period of one year from April 1, 1976, of those provisions of Rules 14A and 15A of the General Rules and Regulations for the prorated gas pools of Southeastern New Mexico promulgated by Order No. R-1670, as amended, that provide for the cancellation of underproduction and the shutting-in of overproduced wells, as applied to the Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico.

CASE 5647: Application of Griffin & Burnett, Inc. for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Hagood Unit Area comprising 3,147 acres, more or less, of State and Federal lands in Township 26 South, Range 35 East, Lea County, New Mexico.

CASE 5648: Application of Depco, Inc. for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its DHY State Well No. 1, located in Unit F of Section 23, Township 19 South, Range 28 East, Eddy County, New Mexico, to produce gas from the Wolfcamp and Morrow formations.

CASE 5649: Application of Harrington Transportation, Inc. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Llano, Inc. Leavitt Well No. 1, to be drilled 1930 feet from the North line and 1650 feet from the West line of Section 13, Township 18 South, Range 26 East, Eddy County, New Mexico, the W/2 of said Section 13 to be dedicated to the well.

CASE 5650: Application of Robinson Resource Development Company, Inc. for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the formations of Pennsylvanian age or older underlying the N/2 of Section 18, Township 21 South, Range 25 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a previously approved unorthodox location in Unit H of said Section 18. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of the applicant as operator of the well and a charge for the risk involved in drilling said well.

Examiner Hearing - Wednesday - March 17, 1976  
-2-

CASE 5651: Application of Burmah Oil & Gas Co. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 1780 feet from the South line and 660 feet from the West line of Section 11, Township 24 South, Range 28 East, Eddy County, New Mexico, the W/2 of said Section 11 to be dedicated to the well.

CASE 5652: Application of Continental Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Basin-Dakota gas and Otero-Gallup oil production in the wellbores of the following wells on its Northeast Haynes Lease in Township 24 North, Range 5 West, Rio Arriba County, New Mexico:

- No. 1 in Unit L of Section 9
- No. 2 in Unit D of Section 16
- No. 3 in Unit P of Section 16
- No. 4 in Unit E of Section 21
- No. 5 in Unit E of Section 22
- No. 6 in Unit D of Section 15
- No. 7 in Unit L of Section 19
- No. 8 in Unit P of Section 15

CASE 5653: Application of Mathis, Spencer & Hutson for pool creation and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Permo-Penn production, Lea County, New Mexico, and the promulgation of special pool rules therefor, including a provision for 160-acre spacing and proration units.

CASE 5654: Application of Continental Oil Company for a non-standard gas proration unit and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 480-acre non-standard gas proration unit comprising the N/2 and SE/4 of Section 2, Township 22 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, said unit to be simultaneously dedicated to applicant's State J-2 Wells Nos. 9 and 12, located in Units C and D, respectively, of said Section 2.

CASE 5422: (Reopened)

In the matter of Case 5422 being reopened pursuant to the provisions of Order No. R-4931, which order established special rules and regulations for the EK-Bone Springs Pool, Lea County, New Mexico, including a provision for 80-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

Dockets Nos. 9-76 and 10-76 are tentatively set for hearing on March 17 and March 31, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 3, 1976

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 5621: (Continued and Readvertised)

Application of El Paso Natural Gas Company, as agent for Northwest Production Corporation, for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval to commingle Basin-Dakota and Blanco-Mesaverde gas production in the wellbore of the Northwest Production Corporation Jicarilla 119N Well No. 4, located in Unit H of Section 6, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

CASE 5631: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the amendment of the Special Rules for the Bisti-Lower Gallup Oil Pool, San Juan County, New Mexico, to permit the drilling of wells in said pool at any point within a 40-acre tract not closer than 330 feet to the outer boundary thereof.

CASE 5632: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the amendment of the Special Rules for the Devils Fork-Gallup Pool, Rio Arriba County, New Mexico, to delete therefrom the provisions for a volumetric withdrawal formula and substitute therefor a casinghead gas equivalent formula similar to that in effect for the Angels Peak-Gallup Pool, as promulgated by Order No. R-1410-C.

CASE 5633: Application of Shell Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinberry, Tubb-Drinkard and Devonian production in the wellbore of its J. P. No. 1 Well located in Unit C of Section 2, Township 25 South, Range 37 East, Justis Field, Lea County, New Mexico.

CASE 5634: Application of Yates Petroleum Corporation for a unit agreement, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Duncan Dome Unit Area comprising 7,641 acres, more or less, of State lands in Township 17 South, Ranges 17 and 18 East, Chaves County, New Mexico.

CASE 5635: Application of Sundance Oil Company for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water by injection into the San Andres formation through the perforated interval from approximately 3852 to 3858 feet in its Ingram Federal Well No. 2 located in Unit I of Section 5, Township 8 South, Range 31 East, Tom Tom-San Andres Pool, Chaves County, New Mexico.

CASE 5636: Application of Julian Ard for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled in the center of the SW/4 SE/4 of Section 32, Township 9 South, Range 37 East, West Sawyer-San Andres Pool, Lea County, New Mexico, in exception to the provisions of Rule 4, Order No. R-3850.

CASE 5637: Application of R. C. Bennett & J. C. Ryan for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Exxon-State Well No. 2, located in Unit F of Section 25, Township 19 South, Range 28 East, Eddy County, New Mexico; to produce gas from the Upper Pennsylvanian formation through the casing-tubing annulus and gas from the Morrow formation through tubing.

CASE 5638: Application of Belco Petroleum Corporation for Amendment of Order No. R-5111, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Commission Order No. R-5111, which order pooled all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 5, Township 22 South, Range 27 East, to be dedicated to a well drilled at an unorthodox location 660 feet from the South line and 1980 feet from the West line of said Section 5. Applicant proposes the amendment of said order to pool all such mineral interests in the formations of Mississippian and Siluro-Devonian age underlying the W/2 of said Section 5 and to approve the unorthodox location of the well for said formations.

CASE 5639: Application of Franklin, Aston & Pair for pool creation and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Strawn production for its Aztec State No. 3 Well located 710 feet from the North line and 2110 feet from the East line of Section 36, Township 17 South, Range 32 East, Lea County, New Mexico, and for the promulgation of special rules therefor, including a provision for 160-acre spacing units.

CASE 5640: Application of Phillips Petroleum Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of East Brunson-Ellenburger, East Brunson-McKee and Drinkard oil production in the wellbore of its Sims No. 6 Well located in Unit H of Section 24, Township 22 South, Range 37 East, Lea County, New Mexico.

CASE 5641: Application of John Yuronka for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water by injection into the Queen formation through the open-hole interval from approximately 3800 to 3875 feet in his State JC "T" Well No. 1 located in Unit B of Section 16, Township 23 South, Range 37 East, Lovell-Mattie Pool, Lea County, New Mexico.

CASE 5642: Application of Penroc Oil Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Canyon and Morrow production in the wellbore of its JCN-State Well No. 1, located in Unit O of Section 2, Township 20 South, Range 21 East, Eddy County, New Mexico.

CASE 5643: Southeastern New Mexico nomenclature case calling for an order for the creation and extension of certain pools in Eddy and Lea Counties, New Mexico.

(a) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production and designated as the West Arkansas Junction-San Andres Pool. The discovery well is the Coquina Oil Corporation State KKN Well No. 1, located in Unit J of Section 20, Township 19 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 36 EAST, NMPM  
Section 20: SE/4

(b) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Cabin Lake-Atoka Gas Pool. The discovery well is the Corinne Grace Livingston Ridge Unit Well No. 1Y, located in Unit L of Section 36, Township 21 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 30 EAST, NMPM  
Section 36: W/2

(c) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Grayburg-San Andres production and designated as the Cemetery-Grayburg San Andres Pool. The discovery well is the Gulf Oil Corporation Jones Federal NCT-A Well No. 1, located in Unit L of Section 14, Township 20 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM  
Section 14: SW/4

(d) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the North Cemetery-Wolfcamp Gas Pool. The discovery well is the David Fasken Seven Rivers Federal Well No. 1, located in Unit C of Section 17, Township 20 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM  
Section 17: N/2

(e) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the West Henshaw-Wolfcamp Pool. The discovery well is the Yates Petroleum Corporation Marco Polo EA State Well No. 1, located in Unit H of Section 32, Township 16 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 30 EAST, NMPM  
Section 32: NE/4

(f) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Queen-Grayburg and San Andres production and designated as the South Loco Hills Queen-Grayburg-San Andres Pool. The discovery well is the Gene A. Snow Alscott Well No. 1, located in Unit I of Section 31, Township 18 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM  
Section 31: SE/4 NE/4 & NE/4 SE/4  
Section 32: S/2 NW/4, N/2 SW/4, W/2 NE/4 and SE/4 NE/4

(g) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the West Lusk-Morrow Gas Pool. The discovery well is the Adobe Oil Company Harniffin State Com Well No. 1, located in Unit P of Section 16, Township 19 South, Range 31 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPM  
Section 16: S/2

(h) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Otis-Morrow Gas Pool. The discovery well is the Apexco Inc. Walterschied Com Well No. 1, located in Unit G of Section 35, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM  
Section 26: W/2  
Section 35: All

(i) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Penasco Draw-Atoka Gas Pool. The discovery well is the Yates Petroleum Corporation Scout EH Federal Com Well No. 2, located in Unit I of Section 27, Township 18 South, Range 25 East, NMPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM  
Section 27: E/2

(j) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Scanlon-Morrow Gas Pool. The discovery well is the Harvey E. Yates Fannie Lou Federal Well No. 1, located in Unit G of Section 31, Township 20 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM  
Section 31: N/2

(k) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Queen production and designated as the Square Lake-Queen Gas Pool. The discovery well is the Corpening Enterprises Exxon State Well No. 1, located in Unit M of Section 16, Township 16 South, Range 31 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 31 EAST, NMPM  
Section 16: SW/4

(l) EXTEND the Atoka-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 21: S/2 SE/4 & E/2 SE/4  
Section 28: N/2 NE/4

(m) EXTEND the North Burton Flat-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM  
Section 13: N/2  
Section 14: All

(n) EXTEND the Cabin Lake-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 30 EAST, NMPM  
Section 35: E/2  
Section 36: W/2

(o) EXTEND the Cruz-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 33 EAST, NMPM  
Section 19: NE/4

(p) EXTEND the Drinkard Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM  
Section 25: SE/4

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM  
Section 30: SW/4

- (q) EXTEND the La Rica-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM  
Section 3: All

- (r) EXTEND the Paddock Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM  
Section 21: SW/4

- (s) EXTEND the Red Lake-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 24: E/2

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM  
Section 19: W/2

- (t) EXTEND the Tonto (Seven Rivers) Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM  
Section 13: SW/4  
Section 14: S/2

- (u) EXTEND the Townsend-Strawn Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM  
Section 4: Lots 1, 2, 7, 8, 9, 10, 15, & 16, and SE/4

- (v) EXTEND the White City-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 26 EAST, NMPM  
Section 16: All  
Section 34: All

TOWNSHIP 25 SOUTH, RANGE 26 EAST, NMPM  
Section 3: All

CASE 5098: (Reopened) (Continued from February 18, 1976 Examiner Hearing)

In the matter of Case 5098 being reopened pursuant to the provisions of Order No. R-4682, which order established special rules for the Red Tank-Morrow Gas Pool, Lea County, New Mexico, including a provision for 640-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 320-acre spacing.

CASE 5641

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-8223  
RESIDENCE 683-4579  
AREA CODE 915

February 16, 1976

FEB 18 1976  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attn: Mr. J. D. Ramey, Secretary-Director

Re: Request for approval to convert temporarily  
abandoned oil and gas producer - State JC"T"  
#1 - Located C/NW/4NE/4 16-23-36, to water  
injection for the purpose of disposing of  
produced waters from other wells on the Lease.

Dear Sir:

Attached please find the waivers signed by the Offset  
Operators on the Application for Salt Water Disposal sub-  
mitted on the captioned subject dated January 27, 1976.

Please note Maralo, Inc. letter stating that they do  
not own rights below a depth of 3701'. This was obtained on  
a farmout from Shell Oil Company who's waiver is attached.

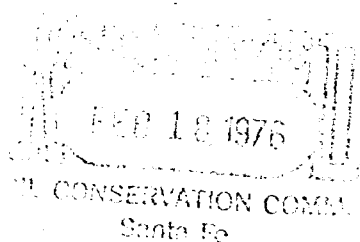
Sincerely yours,

*John Yuronka*  
John Yuronka

JY/ph

Attachs: (6)

inc.



February 9, 1976

John Yuronka  
120-C Central Building  
Midland, Texas 79701

Re: Lowe Lease #1032  
Lea County, New Mexico

Dear Mr. Yuronka:

In reply to your request for a waiver objection to converting the State JC"T" #1C in the NW/4 NE/4 of Section 16, T23S, R36E, please be advised that, according to our records, Maralo, Inc. and Erma Lowe do not own any rights below the depth of 3,701 feet in this tract. Therefore, it is not necessary for them to waive an objection to your injecting water below this depth.

Yours very truly,

John R. Burke  
Land Department

JRB:ph

NEW MEXICO OIL  
CONSERVATION COMMISSION  
PRODUCING DEPARTMENT  
CENTRAL UNITED STATES  
MIDLAND DIVISION



PETROLEUM PRODUCTS

TEXACO INC.  
P. O. BOX 3109  
MIDLAND, TEXAS 79701

February 12, 1976

WAIVER OF OBJECTION TO CONVERTING  
TO AND INITIATING PRODUCED WATER  
INJECTION IN THE JOHN YURONKA (AMERADA)  
STATE JC "T" WELL NO. 1C

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

Gentlemen:

Texaco Inc. has been advised by John Yuronka of his application to convert to and initiate produced water injection in the subject well located in the NW/4 of the NE/4 of Section 16, Twp. 23-S, Range 36-E.

Texaco Inc., as an offset operator, waives objection to this application.

Yours very truly,

Darrell Smith  
Division Manager

By R. G. Brown  
R. G. Brown  
Assistant to Division Manager

RES/lc

cc: John Yuronka  
120-C Central Bldg.  
Midland, Texas 79701

RECEIVED  
JAN 18 1976  
NEW MEXICO  
OIL CONSERVATION COMMISSION

**JOHN YURONKA**  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0223  
RESIDENCE 688-4579  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Cleary Petroleum Corporation operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

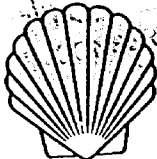
CLEARY PETROLEUM CORPORATION

by

*H. E. Green*

Title District Production Manager

JY/ph



## SHELL OIL COMPANY

PETROLEUM BUILDING  
P.O. BOX 1509  
MIDLAND, TEXAS 79701

February 6, 1976

Subject: Waiver of Objection to Converting  
to and Initiating Produced Water  
Injection in John Yuronka (Amerada)  
State JC "T" No. 1  
C of NW/4 NE/4 Sec. 16,  
T-23-S, R-36-E

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

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

Shell Oil Company has a lease offsetting the John Yuronka Ares-State Lease, being NE/4 Sec. 16, T-23-S, R-36-E. We have no objection to the work and program as specified in the data submitted.

Yours very truly,

J. D. Hughes  
Operations Manager-Midland  
Mid-Continent Division

JES:DCW

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0223  
RESIDENCE 683-4570  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Texas Pacific Oil Company, Inc. operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

TEXAS PACIFIC OIL COMPANY, INC.

by R J Womack on 2/10/76

Title District Manager

JY/ph

**JOHN YURONKA**  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0223  
RESIDENCE 688-4579  
AREA CODE 915

January 31, 1976

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

Attn: Mr. J. D. Ramey, Secretary-Director

Subject: Waiver of objection to converting  
to and initiating produced water  
injection in John Yuronka (Amerada)  
State JC"T" #1 C of NW/4NE/4 Sec.  
16, Twp. 23-S, Rng. 36-E.

Gentlemen:

Continental Oil Company operating within one-  
half mile of the John Yuronka Ares-State Lease, being NE/4 Sec. 16,  
Twp. 23-S, Rng. 36-E, has no objection to the work and program as  
specified in the data submitted.

Yours truly,

Continental Oil Company  
by L. P. Thompson  
L. P. THOMPSON  
Title Division Manager-Production

JY/ph



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT  
CENTRAL UNITED STATES  
MIDLAND DIVISION

February 12, 1976

FEB 17 1976  
OIL CONSERVATION COM.  
TEXACO INC.  
P. O. BOX 3109  
MIDLAND, TEXAS 79701

WAIVER OF OBJECTION TO CONVERTING  
TO AND INITIATING PRODUCED WATER  
INJECTION IN THE JOHN YURONKA (AMERADA)  
STATE JC "T" WELL NO. 1C

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

Case 5641

Gentlemen:

Texaco Inc. has been advised by John Yuronka of his application to convert to and initiate produced water injection in the subject well located in the NW/4 of the NE/4 of Section 16, Twp. 23-S, Range 36-E.

Texaco Inc., as an offset operator, waives objection to this application.

Yours very truly,

Darrell Smith  
Division Manager

By R. G. Brown  
R. G. Brown  
Assistant to Division Manager

RES/lc

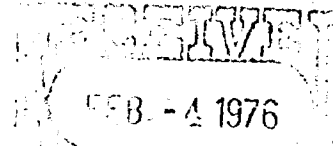
cc: John Yuronka  
120-C Central Bldg.  
Midland, Texas 79701

Case 5641

**JOHN YURONKA**  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0228  
RESIDENCE 683-4579  
AREA CODE 915

January 27, 1976



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

CONSERVATION COM.  
Santa Fe

Attn: Mr. J. D. Ramey, Secretary-Director

Re: Request for approval to convert temporarily  
abandoned oil and gas producer - State JC"T"  
#1 - Located C/NW/4NE/4 16-23-36, to water  
injection for the purpose of disposing of  
produced waters from other wells on the Lease.

Gentlemen:

John Yuronka respectfully requests administrative approval under provisions of Rule 701 (B&C) providing for injection of fluids into reservoirs.

Attached hereto are the data required by Section B of Rule 701 to convert to and initiate water injection into John Yuronka (Amerada) State JC"T" #1. In addition a discussion of the wells history and proposed conversion procedure is also attached.

These same data have been supplied each operator within one-half mile of the proposed injection well along with a request they waive any objection to this operation.

It should be noted that the zone into which water will be injected is below any horizon that is producing or has produced within a two mile radius of the proposed disposal well.

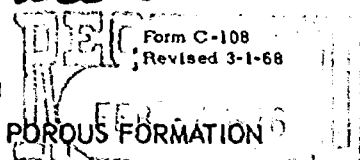
In view of the facts set out here-in and in the attachments it is respectfully requested the Commission enter an order approving water disposal in State JC"T" #1. If under these circumstances this application is ineligible for administrative approval, an examiner hearing is respectfully requested at the earliest available docket.

Yours truly,

*John Yuronka*  
John Yuronka

JY/ph

Case 5641



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

OPERATOR <b>John Yuronka</b>		ADDRESS <b>120-C Central Bldg., Midland, Texas 79701</b>	
LEASE NAME <b>State JC"T"</b>	WELL NO. <b>1</b>	FIELD <b>Langlie-Mattix</b>	COUNTY <b>Lea</b>
LOCATION UNIT LETTER <b>B</b> ; WELL IS LOCATED <b>660'</b> FEET FROM THE <b>North</b> LINE AND <b>660'</b> FEET FROM THE <b>West</b> LINE, SECTION <b>16</b> TOWNSHIP <b>23-S</b> RANGE <b>36-E</b> NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING	<b>8-5/8 OD</b>	<b>295</b>	<b>250</b>
INTERMEDIATE			
LONG STRING	<b>5-1/2"</b>	<b>3700</b>	<b>600</b>
TUBING	<b>2" EUE</b>	<b>3850</b>	<b>Halliburton R-4 @ Approx. 3690</b>
NAME OF PROPOSED INJECTION FORMATION <b>Queen Dolomite</b>		TOP OF FORMATION <b>3655</b>	BOTTOM OF FORMATION <b>3975 Estimated</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>3800 to 3875</b>
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Originally drilled by Amerada as an oil well</b>		HAS WELL EVER BEEN PERFORMED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>yes</b>
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH			
<b>Please see attached discussion of well history and conversion procedure</b>			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>180'</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>3634</b>	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>5200 Estimated</b>
ANTICIPATED DAILY INJECTION VOLUME (BBL/D.) <b>80</b>	MINIMUM <b>230</b>	MAXIMUM <b>Closed</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Initially by gravity</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>
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Ross Robinson - Lessee 98 19th Street, Eunice, N. M.</b>		ARE WATER ANALYSES ATTACHED? <b>Presently produced waters</b>	
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
<b>Texas Pacific Oil Co. 1509 West Wall, Midland, Texas 79701</b>			
<b>Texaco, Inc., Midland S. Bldg., Midland, Texas 79701</b>			
<b>Shell Oil Co., Petroleum Bldg., Midland, Texas 79701</b>			
<b>Maralo Inc., Midland Tower, Midland, Texas 79701</b>			
<b>Continental Oil Co., Midland Savings Bldg., Midland, Texas 79701</b>			
<b>Cleary Petroleum Corp., Gihls Tower West, Midland, Texas 79701</b>			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER <b>Yes (Lessee)</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>Yes</b>	DIAGRAMMATIC SKETCH OF WELL <b>Yes</b>

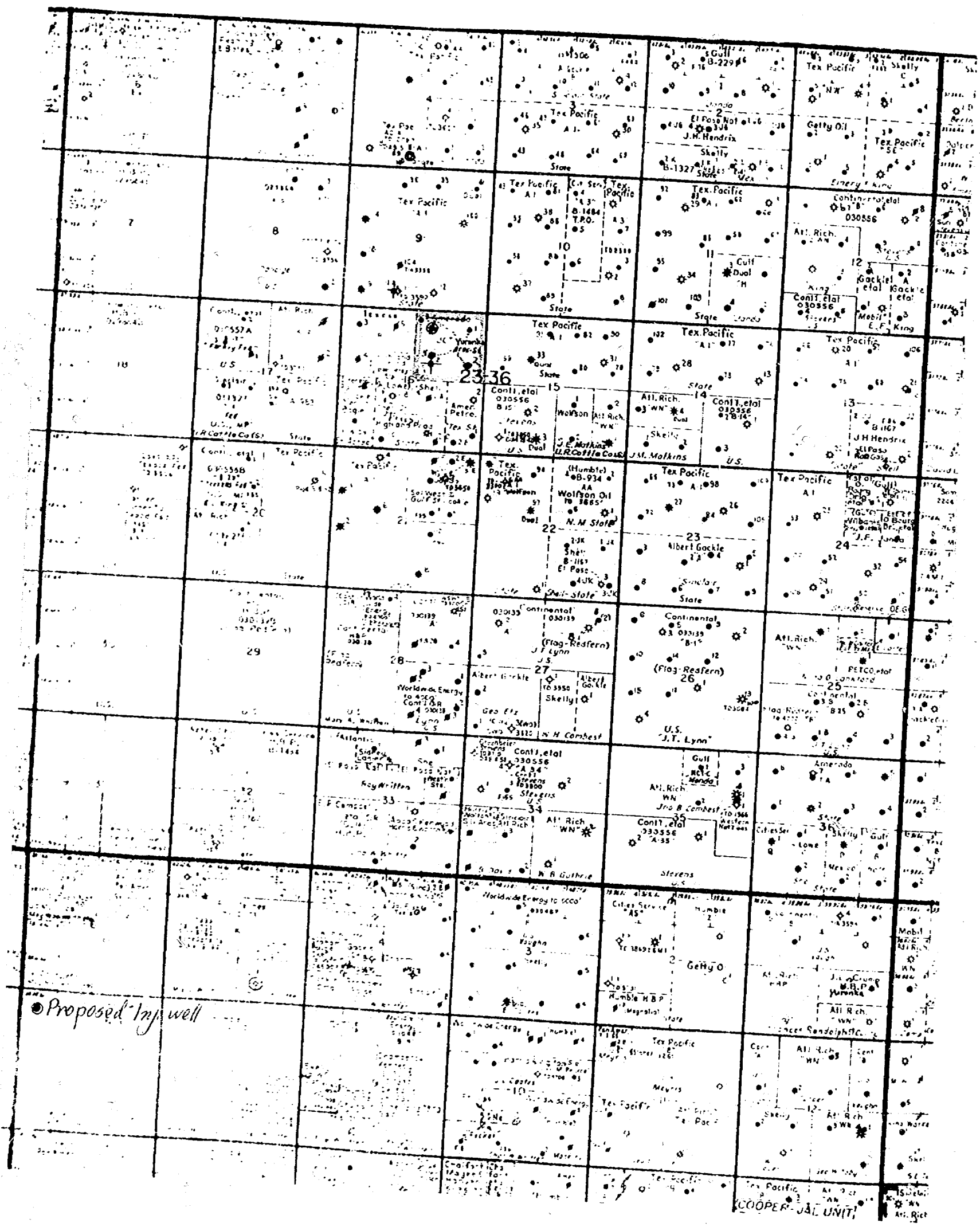
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

John Yuronka  
(Signature)

John Yuronka, Authorized Agent  
(Title)

1-27-76  
(Date)

NOTE: Should waivers from 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.



Case 5641

John Yuronka (Amerada) State JCT #1  
C/NW/4, NE/4, Sec. 16, Twp 23-S, R-36-E

Well history, present mechanical condition  
and proposed procedure for converting to  
water disposal.

The captioned well was completed in January, 1949, by Amerada Petroleum Corp. flowing oil from a dolomite phase of the Queen formation in the Langlie-Mattix Field.

Subsequently the oil bearing zone became non-commercial and the well was converted in January, 1957, to gas production from the Yates Formation. By November, 1962, the Yates had been sufficiently depleted and water production had increased to the extent that State JCT #1 was no longer capable of commercial production. The well was T. A.'d until January, 1973, when a pumping unit was installed and productivity tests conducted for one month. Even at current gas prices State JCT #1 proved incapable of commercial gas production and has remained idle since that latest test.

Therefore it is now proposed to convert the State JCT #1 to salt water disposal for service to other wells on the same lease.

Following are pertinent details of the history and physical and mechanical conditions now existing in State JCT #1, and a proposed conversion program.

Derrick floor elevation 3469'. Original Total Depth 3800'(-331). 5 1/2" O.D. casing cemented at 3700'(-231). Available files, including those of the N. M. C. C., do not contain a record of productivity tests of the open hole section from 3700' to 3800' subsequent to cementing 5 1/2" csg. However, a drill stem test from 3687' to 3800' prior to running 5 1/2" csg. had gas to surface 20 minutes and a head of drilling mud in 55 minutes. Obtained 1880' of slightly gas cut formation water in 4 hours. There was no oil and gas was estimated at 5000 cu. ft./day.

After running 5  $\frac{1}{2}$ " casing, a drillable cement retainer was set at 3690' and the open hole squeezed with 50 sacks cement.

Casing was perforated from 3635' to 3680' and treated with 500 gal. Acid. Flowed 100% formation water. Set cement retainer at 3620' and squeezed perforations 3635' to 3680' with 50 sacks cement. Perforated casing 3585' to 3605' and treated w/1000 gal. acid in two stages. Flowed 288.20 bbls. oil, 11.01 bbls. water in 23 hrs. through 40/64" tbg. choke on initial potential test. Gas at rate of 617 MCF/day. Completed January 23, 1949.

By August 1949, well could no longer flow unassisted because of increasing water production. To secure gas for lift purposes the Yates Sand was perforated from 3280' to 3300' and 3330' to 3355'. The gas sand was treated with 2000 gal. acid.

State JCT #1 was produced by gas lift until January, 1951, when water had increased to the degree it was unprofitable to continue operations. The erstwhile oil bearing zone was abandoned by setting a cement retainer at 3400' and squeezing perforation 3585' to 3605' with 200 sacks cement.

State JCT #1 was then converted to a gas well by perforating from 3150' to 3210' and treating the new perforation with 2000 gal. Acid. Well was recompleted as a Yates gas well producing from perforation 3150' to 3210', 3280' to 3300', and 3330' to 3355'. It was potentialled on Feb. 20, 1951, flowing 1,640,000 cu. ft. gas and 55 bbls. water per day. Gas sales to Permian Basin Pipeline Co. began on December 24, 1953.

By August, 1956, well was producing an average of 200 bbls. water/day and persisted in loading with water and dying. In December, 1956, State JCT #1 was reworked by squeezing off all open perforations w/150 sacks cement and then drilling out to 3312. Casing was reperforated 3150' to 3210' and 3280' to 3300'. Perforated section

was then fractured with 10,000 gal. oil and 10,000# sd. On initial test after fracturing well flowed 13.80 bbls. oil and fed 920 MCF gas into the 500 PSIG line in 24 hours.

Within two months water production averaged 20 to 30 bbls. per day. The oil was exhausted and gas production varied between 500 and 700 MCF/d. The well had begun to load with water and a compressor was required to feed gas into the transmission line.

Periodic swabbing was required to keep well on production. In May, 1961, a cement retainer was set at 3229' and perforations from 3280' to 3300' squeezed with 50 sacks cement. The perforations 3150' to 3210' were refractured with 20,000 gal. crude oil and 40,000# sd. Casing was additionally perforated from 3090' to 3100', treated with 500 gal Acid and fractured with 10,000 gal crude oil and 10,000# sd.

Following reworking well averaged 100 bbls. water and 293 MCF/day. Well feeding through a compressor into a 100 PSIG line.

By November, 1962, State JCT #1 could no longer be operated profitably. The N. M. C. C. gave permission to temporarily abandon the well and disconnect from the pipe line. It has remained inactive since, except for the testing period in 1973 noted above.

To convert the State JCT #1 to water disposal the following program is proposed:

- (1) Set cement retainer at 3060' and squeeze perforations from 3090' to 3100' and 3150' to 3210' with approximately 300 sacks cement.
- (2) Drill out cement to top of retainer at 3229 and pressure test for "shut off." If satisfactory, proceed with program. If not, resqueeze.
- (3) Drill out cement plugs from 3229' to top of retainer at 3400'. Test

HALLIBURTON COMPANY  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
**LABORATORY WATER ANALYSIS**

*Case 5641*

No. W75-1035

Date 12-22-75

To John Yuronka

323 Central Building

Midland, Texas

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_

Date Rec. 12-22-75

Well No. As Marked

Depth 3300-3400'

Formation Seven Rivers

County \_\_\_\_\_

Lea

Field \_\_\_\_\_

Jalmat

Source \_\_\_\_\_

Wellhead

Sol West

Cookie St. #1

	Ares St. #3	Ares St. #4	
Resistivity	0.187 @ 72° F.	0.144 @ 72° F.	0.514 @ 72° F.
Specific Gravity	1.016	1.024	1.012
pH	7.4	6.4	6.6
Calcium (Ca)	750	2,000	650 *MPL
Magnesium (Mg)	870	1,680	600
Chlorides (Cl)	9,000	15,000	6,500
Sulfates (SO <sub>4</sub> )	1,400	750	900
Bicarbonates (HCO <sub>3</sub> )	1,185	1,330	1,460
Soluble Iron (Fe)	Nil	Nil	Nil

\*Milligrams per liter

Remarks:

Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY

By

W. D. Brewer

DIVISION CHEMIST

**NOTICE**

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

Case 5641

HALLIBURTON COMPANY  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
**LABORATORY WATER ANALYSIS**

No. W75-1031

To John Yuronka

Date 12-22-75

323 Central Building

Midland, Texas

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_

Date Rec. 12-22-75

Well No. As Marked

Depth 3600'

Formation Queens

County \_\_\_\_\_

Lea

Field \_\_\_\_\_

Langlie-Mattix

Source \_\_\_\_\_

Wellhead

	Ares St. #1	Ares St. #2	
Resistivity .....	0.770 @ 72° F.	0.850 @ 72° F.	
Specific Gravity .....	1.010	1.010	
pH .....	6.0	7.0	
Calcium (Ca) .....	750	700	*MPL
Magnesium (Mg) .....	210	210	
Chlorides (Cl) .....	4,500	4,000	
Sulfates (SO <sub>4</sub> ) .....	Less than 50	Less than 50	
Bicarbonates (HCO <sub>3</sub> ) .....	1,710	1,950	
Soluble Iron (Fe) .....	Nil	Nil	
.....			
.....			
.....			

Remarks:

\*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY

By \_\_\_\_\_

DIVISION CHEMIST

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## SHELL OIL COMPANY

PETROLEUM BUILDING  
P.O. BOX 1509  
MIDLAND, TEXAS 79701

February 6, 1976

Subject: Waiver of Objection to Converting  
to and Initiating Produced Water  
Injection in John Yuronka (Amerada)  
State JC "T" No. 1  
C of NW/4 NE/4 Sec. 16,  
T-23-S, R-36-E

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

Attention Mr. J. D. Ramey, Secretary-Director

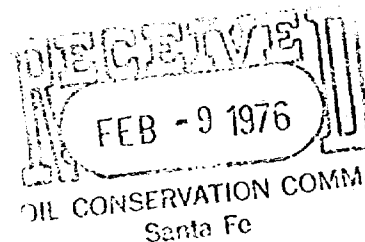
Gentlemen:

Shell Oil Company has a lease offsetting the John Yuronka Ares-State Lease, being NE/4 Sec. 16, T-23-S, R-36-E. We have no objection to the work and program as specified in the data submitted.

Yours very truly,

J. D. Hughes  
Operations Manager-Midland  
Mid-Continent Division

JES:DCW



Case 5641

OIL CONSERVATION COMMISSION  
Hobbs DISTRICT

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO

DATE February 6, 1976

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD X \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated \_\_\_\_\_  
for the John Yuronka State JCT #1-B 16-23-36  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

Jerry Sexton

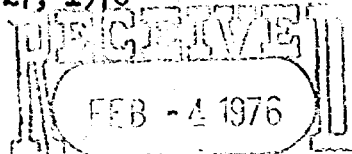
16-23-36  
OIL CONSERVATION COMMISSION  
SANTA FE

Case 5641

JOHN YURONKA  
CONSULTING PETROLEUM ENGINEER  
120-C CENTRAL BUILDING  
MIDLAND, TEXAS 79701

OFFICE 684-0228  
RESIDENCE 688-4579  
AREA CODE 915

January 27, 1976



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

Oil CONSERVATION COMM.  
Santa Fe

Attn: Mr. J. D. Ramey, Secretary-Director

Re: Request for approval to convert temporarily  
abandoned oil and gas producer - State JC"T"  
#1 - Located C/NW/4NE/4 16-23-36, to water  
injection for the purpose of disposing of  
produced waters from other wells on the Lease.

Gentlemen:

John Yuronka respectfully requests administrative approval under provisions of Rule 701 (B&C) providing for injection of fluids into reservoirs.

Attached hereto are the data required by Section B of Rule 701 to convert to and initiate water injection into John Yuronka (Amerada) State JC"T" #1. In addition a discussion of the wells history and proposed conversion procedure is also attached.

These same data have been supplied each operator within one-half mile of the proposed injection well along with a request they waive any objection to this operation.

It should be noted that the zone into which water will be injected is below any horizon that is producing or has produced within a two mile radius of the proposed disposal well.

In view of the facts set out here-in and in the attachments it is respectfully requested the Commission enter an order approving water disposal in State JC"T" #1. If under these circumstances this application is ineligible for administrative approval, an examiner hearing is respectfully requested at the earliest available docket.

Yours truly,

*John Yuronka*  
John Yuronka

JY/ph

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

OPERATOR <b>John Yuronka</b>		ADDRESS <b>120-C Central Bldg., Midland, Texas 79701</b>	
LEASE NAME <b>State JC"TI"</b>	WELL NO. <b>1</b>	FIELD <b>Langlie-Mattix</b>	COUNTY <b>Lea</b>
LOCATION UNIT LETTER <b>B</b> ; WELL IS LOCATED <b>660'</b> FEET FROM THE <b>North</b> LINE AND <b>660'</b> FEET FROM THE <b>West</b> LINE, SECTION <b>16</b> TOWNSHIP <b>23-S</b> RANGE <b>36-E</b> NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING	<b>8-5/8 OD</b>	<b>295</b>	<b>250</b>
INTERMEDIATE			
LONG STRING	<b>5-1/2"</b>	<b>3700</b>	<b>600</b>
TUBING	<b>2" EUE</b>	<b>3850</b>	<b>Halliburton R-4 @ Approx. 3690</b>
NAME OF PROPOSED INJECTION FORMATION <b>Queen Dolomite</b>		TOP OF FORMATION <b>3655</b>	BOTTOM OF FORMATION <b>3975 Estimated</b>
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>		PERFORATIONS OR OPEN HOLES? <b>Open hole</b>	PROPOSED INTERVAL(S) OF INJECTION <b>3800 to 3875</b>
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Originally drilled by Amerada as an oil well</b>		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>yes</b>
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>Please see attached discussion of well history and conversion procedure</b>			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>180'</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>3634</b>	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>5200 Estimated</b>
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.) <b>80</b>	MINIMUM <b>230</b>	MAXIMUM <b>230</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</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>		IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Initially by gravity</b>	APPROX. PRESSURE (PSIG) <b>—</b>
WATER TO BE DISPOSED OF <b>yes</b>		NATURAL WATER IN DISPOSAL ZONE <b>yes</b>	ARE WATER ANALYSES ATTACHED? <b>Presently produced waters</b>
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Ross Robinson - Lessee 908 19th Street, Eunice N. M.</b>			
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
<b>Texas Pacific Oil Co. 1509 West Wall, Midland, Texas 79701</b>			
<b>Texaco, Inc., Midland Savings Bldg., Midland, Texas 79701</b>			
<b>Shell Oil Co., Petroleum Bldg., Midland, Texas 79701</b>			
<b>Karalo Inc., Midland Tower, Midland, Texas 79701</b>			
<b>Continental Oil Co., Midland Savings Bldg., Midland, Texas 79701</b>			
<b>Cleary Petroleum Corp., Gibbs Tower West, Midland, Texas 79701</b>			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER <b>Yes (Lessee)</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>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.

*John Yuronka*      John Yuronka, Authorized Agent      1-27-76  
(Signature)      (Title)      (Date)

NOTE: Should waivers from 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.



John Yuronka (Amerada) State JCT #1  
C/NW/4, NE/4, Sec. 16, Twp 23-S, R-36-E

Well history, present mechanical condition  
and proposed procedure for converting to  
water disposal.

The captioned well was completed in January, 1949, by Amerada Petroleum Corp. flowing oil from a dolomite phase of the Queen formation in the Langlie-Mattix Field.

Subsequently the oil bearing zone became non-commercial and the well was converted in January, 1957, to gas production from the Yates Formation. By November, 1962, the Yates had been sufficiently depleted and water production had increased to the extent that State JCT #1 was no longer capable of commercial production. The well was T. A.'d until January, 1973, when a pumping unit was installed and productivity tests conducted for one month. Even at current gas prices State JCT #1 proved incapable of commercial gas production and has remained idle since that latest test.

Therefore it is now proposed to convert the State JCT #1 to salt water disposal for service to other wells on the same lease.

Following are pertinent details of the history and physical and mechanical conditions now existing in State JCT #1, and a proposed conversion program.

Derrick floor elevation 3469'. Original Total Depth 3800'(-331). 5 1/2" O.D. casing cemented at 3700'(-231). Available files, including those of the N. M. C. C., do not contain a record of productivity tests of the open hole section from 3700' to 3800' subsequent to cementing 5 1/2" csg. However, a drill stem test from 3687' to 3800' prior to running 5 1/2" csg. had gas to surface 20 minutes and a head of drilling mud in 55 minutes. Obtained 1880' of slightly gas cut formation water in 4 hours. There was no oil and gas was estimated at 5000 cu. ft./day.

After running 5  $\frac{1}{2}$ " casing, a drillable cement retainer was set at 3690' and the open hole squeezed with 50 sacks cement.

Casing was perforated from 3635' to 3680' and treated with 500 gal. Acid. Flowed 100% formation water. Set cement retainer at 3620' and squeezed perforations 3635' to 3680' with 50 sacks cement. Perforated casing 3585' to 3605' and treated w/1000 gal. acid in two stages. Flowed 288.20 bbls. oil, 11.01 bbls. water in 23 hrs. through 40/64" tbg. choke on initial potential test. Gas at rate of 617 MCF/day. Completed January 23, 1949.

By August 1949, well could no longer flow unassisted because of increasing water production. To secure gas for lift purposes the Yates Sand was perforated from 3280' to 3300' and 3330' to 3355'. The gas sand was treated with 2000 gal. acid.

State JCT #1 was produced by gas lift until January, 1951, when water had increased to the degree it was unprofitable to continue operations. The erstwhile oil bearing zone was abandoned by setting a cement retainer at 3400' and squeezing perforation 3585' to 3605' with 200 sacks cement.

State JCT #1 was then converted to a gas well by perforating from 3150' to 3210' and treating the new perforation with 2000 gal. Acid. Well was recompleted as a Yates gas well producing from perforation 3150' to 3210', 3280' to 3300', and 3330' to 3355'. It was potentialized on Feb. 20, 1951, flowing 1,640,000 cu. ft. gas and 55 bbls. water per day. Gas sales to Permian Basin Pipeline Co. began on December 24, 1953.

By August, 1956, well was producing an average of 200 bbls. water/day and persisted in loading with water and dying. In December, 1956, State JCT #1 was reworked by squeezing off all open perforations w/150 sacks cement and then drilling out to 3312. Casing was reperforated 3150' to 3210' and 3280' to 3300'. Perforated section

was then fractured with 10,000 gal. oil and 10,000# sd. On initial test after fracturing well flowed 13.80 bbls. oil and fed 920 MCF gas into the 500 PSIG line in 24 hours.

Within two months water production averaged 20 to 30 bbls. per day. The oil was exhausted and gas production varied between 500 and 700 MCF/d. The well had begun to load with water and a compressor was required to feed gas into the transmission line.

Periodic swabbing was required to keep well on production.

In May, 1961, a cement retainer was set at 3229' and perforations from 3280' to 3300' squeezed with 50 sacks cement. The perforations 3150' to 3210' were refractured with 20,000 gal. crude oil and 40,000# sd. Casing was additionally perforated from 3090' to 3100', treated with 500 gal Acid and fractured with 10,000 gal crude oil and 10,000# sd.

Following reworking well averaged 100 bbls. water and 293 MCF/day. Well feeding through a compressor into a 100 PSIG line.

By November, 1962, State JCT #1 could no longer be operated profitably. The N. M. C. C. gave permission to temporarily abandon the well and disconnect from the pipe line. It has remained inactive since, except for the testing period in 1973 noted above.

To convert the State JCT #1 to water disposal the following program is proposed:

- (1) Set cement retainer at 3060' and squeeze perforations from 3090' to 3100' and 3150' to 3210' with approximately 300 sacks cement.
- (2) Drill out cement to top of retainer at 3229 and pressure test for "shut off." If satisfactory, proceed with program. If not, resqueeze.
- (3) Drill out cement plugs from 3229' to top of retainer at 3400'. Test

squeezed perforations from 3280' to 3300' and 3330' to 3355' for shut off. If satisfactory, proceed with program. If not, resqueeze.

(4) Drill out plugs from 3400' to 3690' and test squeezed perforations from 3585' to 3605' and 3635' to 3680' for shut off. If satisfactory, proceed with program. If not, resqueeze.

(5) Drill out cement plug in squeezed open hole from 3700' to O. T. D. at 3800' and deepen well an additional 70' to 75'.

(6) Run tubing and packer and treat new hole with 2500 gal. 15% Acid.

(7) Swab back acid water and test new formation for injectivity. If not satisfactory, retreat. If satisfactory, initiate water injection in the newly opened hole section below the packer.

The State JCT #1 is a structurally high well and the water will be introduced into a zone that is below the established original water level in the Langlie-Mattix Field in any well within the prescribed radius of two miles.

HALLIBURTON COMPANY  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
**LABORATORY WATER ANALYSIS**

Case 5641

No. W75-1035

To John Yuronka

Date 12-22-75

323 Central Building

Midland, Texas

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Submitted by \_\_\_\_\_ Date Rec. 12-22-75

Well No. As Marked Depth 3300-3400' Formation Seven Rivers

County Lea Field Jalmat Source Wellhead

	<u>Ares St. #3</u>	<u>Ares St. #4</u>	<u>Sol West Cookie St. #1</u>
Resistivity .....	0.187 @ 72° F.	0.144 @ 72° F.	0.514 @ 72° F.
Specific Gravity .....	1.016	1.024	1.012
pH .....	7.4	6.4	6.6
Calcium (Ca) .....	750	2,000	650 *MPL
Magnesium (Mg) .....	870	1,620	600
Chlorides (Cl) .....	9,000	15,000	6,500
Sulfates (SO <sub>4</sub> ) .....	1,400	750	900
Bicarbonates (HCO <sub>3</sub> ) .....	1,185	1,330	1,460
Soluble Iron (Fe) .....	Nil	Nil	Nil
.....			
.....			
.....			

Remarks:

\*Milligrams per liter

Respectfully submitted,

Analyst: Brewer  
cc:

HALLIBURTON COMPANY

By W. D. Brewer  
DIVISION CHEMIST

**NOTICE**

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

HALLIBURTON COMPANY  
MIDLAND DIVISION  
LOVINGTON, NEW MEXICO 88260  
LABORATORY WATER ANALYSIS

No. W75-1034

To John Yuronka

Date 12-22-75

323 Central Building

Midland, Texas

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by

Date Rec. 12-22-75

Well No. As Marked

Depth 3600'

Formation Queens

County Lea

Field Langlie-Mattix

Source Wellhead

	Ares St. #1	Ares St. #2	
Resistivity	0.770 @ 72° F.	0.850 @ 72° F.	
Specific Gravity	1.010	1.010	
pH	8.0	7.0	
Calcium (Ca)	750	700	*MPL
Magnesium (Mg)	210	210	
Chlorides (Cl)	4,500	4,000	
Sulfates (SO <sub>4</sub> )	Less than 50	Less than 50	
Bicarbonates (HCO <sub>3</sub> )	1,710	1,950	
Soluble Iron (Fe)	Nil	Nil	

Remarks:

\*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY

By

W. L. Brewer

DIVISION CHEMIST

NOTICE

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DRAFT

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5641

Order No. R- 5199

APPLICATION OF JOHN YURONKA FOR  
SALT WATER DISPOSAL, LEA COUNTY,  
NEW MEXICO.

*[Signature]*

ORDER OF THE COMMISSION *[Signature]*

BY THE COMMISSION:

*[Signature]*

This cause came on for hearing at 9 a.m. on March 31, 1976  
at Santa Fe, New Mexico, before Examiner, Daniel S. Butler ex.

NOW, on this        day of March, 1976, the Commission,  
a quorum being present, having considered the testimony, the  
record, and the recommendations of the Examiner, and being fully  
advised in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, John Yuronka,  
is the owner and operator of the State JC "T" Well No. 1,  
located in Unit B of Section 16, Township 23 South,  
Range 36 East, NMPM, Langlie-Mattix Pool,  
Lea County, New Mexico.

(3) That the applicant proposes to utilize said well to  
dispose of produced salt water into the Queen  
formation, with injection into the open-hole interval  
from approximately 3800 feet to 3875 feet.

(4) That the injection should be accomplished through 2 3/8  
      -inch plastic lined tubing installed in a packer  
set at approximately 3690 feet; that the casing-tubing annulus  
should be filled with an inert fluid; and that a pressure gauge  
*and/or vacuum*  
or approved leak detection device should be attached to the

CASE NO. \_\_\_\_\_

annulus in order to determine leakage in the casing, tubing, or packer. *if injection should be by pressure*

(4) That ~~the~~ injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than <sup>950</sup>~~700~~ psi.

(5) That the operator should notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(6) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(7) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, John Yuronka, is hereby authorized to utilize ~~xxx~~ his State JC "T" Well No. 1 located in Unit B of Section 16, Township 23 South, Range 36 East, NMPM, Langlie-Mattix Pool, Eddy County, New Mexico, to dispose of produced salt water into the Queen formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 3690 feet, with injection into the open-hole interval from approximately 3800 feet to 3875 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus <sup>and/or vacuum</sup> or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

CASE NO.

if injection into said well shall be under pressure,  
(2) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than <sup>950</sup>~~1000~~ psi.

(5) (4) That the operator shall notify the supervisor of the Hobbs district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(6) (4) That the operator shall immediately notify the supervisor of the Commission's Hobbs district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(7) (4) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(8) (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-  
above designated.

(3) That if injection into said well is under a vacuum, the operator shall conduct an annual pressure test of the casing-tubing annulus to determine leakage of the casing, tubing, or packer in said well.

(4) That the operator shall notify the Hobbs office of the Commission of the date and time of such pressure tests in order that they may be witnessed by a Commission representative.