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

Continued to

CASE NO.

564/

APPlication,
Transcripts,
Small Exhibits,

ETC.

	EW MEXICO OIL CONSERVATION C EXAMINER HEARING	ONALSSION
		NEW MEXICO
Hearing Date	MARCH 31, 1976	TIME: 9:00 A.M.
NAME	REPRESENTING	LOCATION
John Yuwnh	u John Yuronk	a Midland
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Reilly Fluellen	Inexes Oil Co	Houston
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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) CASI	

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

water disposal, Lea County, New Mexico.)

APPEARANCES

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

INDEX Page JOHN YURONKA 3 Direct Examination by Mr. Kellahin 9 Cross Examination by Mr. Stamets 5 6 7 EXHIBIT INDEX 9 Page 10 Applicant's Exhibit No. One, Land Plat 11 Applicant's Exhibit No. Two, Form C-108 12 Applicant's Exhibit No. Three, History of Well 9. 13 9 Applicant's Exhibit No. Four, Waiver 14 Applicant's Exhibit No. Five, Water Analysis 15 Applicant's Exhibit No. Six, Water Analysis 16 9 Applicant's Exhibit No. Seven, Form C-116 37 18 19 20. 21 22 23 24 25

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

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

MR. STAMETS: Call for appearances.

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

(THEREUPON, the witness was duly sworn.)

JOHN YURONKA

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Mr. Yuronka, would you please state your name and occupation?
 - John Yuronka, Consulting Petroleum Engineer.
 - You are the applicant in this case? Q.
 - Yes, sir.
- And do you own and operate the particular lease in question?
 - Yes, sir. A.
 - Let me ask you this: Have you previously testified Q.

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

A. Yes, sir.

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

MR. STAMETS: They are.

- Q. (Mr. Kellahin continuing.) Mr. Yuronka, please refer to Exhibit Number One and would you identify the acreage in question and explain to the Examiner what you are seeking?
- A. The acreage in question is the northeast quarter of Section 16, Township 23 South, Range 36 East, Lea County, New Mexico. The lease in question is outlined in red and the proposed salt water disposal well is circled in blue. Exhibit Number One is a land plat of the general area.
 - Q. What will be the source of the water to be disposed of in your disposal well?
 - A. The water produced on that particular lease.
 - Q. How many wells produce water on that lease?
 - A. All four.
 - Q. What is the total volume of water per day to be disposed of in this well?
 - A. Approximately two hundred and fifty to three hundred barrels a day.
 - Q. Will that be under pressure or by vacuum?
 - A. We hope originally that it will be by vacuum.

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- Are there any other disposal wells in the area?
- To my knowledge Texas Pacific has a well just east in the north half of Section 15.
- Have you examined the possibility of using their disposal well to dispose of your produced water?
- Yes, sir, I have. We felt that it would be more A. economic for us to convert our own well to disposal, plus the fact that we would have it to operate.
 - Please refer to Exhibit Number Two and identify it?
- Exhibit Number Two is the application to dispose of salt water, which is Form C-108.
 - Q. What will be the interval of disposal?
- Between thirty-eight hundred to thirty-eight, seventyfive.
 - And that is the Queen formation?
 - Yes, sir.
- Please refer to what we have marked as Exhibit Number Q. Three and its parts. What is Exhibit Number Three, Mr. Yuronka?
- Exhibit Number Three is a history of the proposed salt water disposal well, plus a schematic diagram of the well in its present condition.
- Would you turn to the schematic and describe briefly for the benefit of the Examiner your method of completion?
- It is contained in the letter. The well was originally completed by Amerada in January of 1949 as an oil

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What do you propose to do in order to adapt this well for salt water disposal?

Again, this is contained in the letter. We intend to go in there and squeeze the present formation that exists, that are open and we will have approximately eight hundred feet of cement and the bridge plugs to drill out and we will test each zone that was squeezed to be sure the squeeze job is holding before we go on down. Then we will drill an additional seventy-five feet of open hole. We will run and set our packer in the casing and inject into the seventy-five

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feet which we have deepened.

Q What is the structural relationship of the disposal well to the offsetting producing wells?

A. It is structurally higher. It is located on the reflection of the Capitan Reef and is structurally higher. The zones into which we will be injecting are below elsewhere with the sharp dip, below what was considered the original oil-water contact of a minus three hundred feet.

- Q Will all of the producing formations in the offset wells be above the interval into which you intend to inject?
 - A. Yes, our lease is, yes, sir.
- Q All right, please refer to Exhibit Number Four, Mr. Yuronka, and describe for the Examiner what those are?
- A. Exhibit Number Four is the waiver signed by all offset operators in regard to this salt water disposal. They are Continental, Texaco, Cleary Petroleum, Shell Oil Company and TP.
 - Q Please refer to Exhibit Number Five and identify it?
- A. Exhibit Number Five is a water analysis of Well No. I which is in the northeast quarter-northeast quarter of Section 16 and No. 3 which is in the same forty-acre tract as the proposed salt water disposal well. The Well No. 1 is a Langlie-Mattix producer and the Well No. 3 is a Jalmat producer I would like to point out the chloride content. The chloride content in Well No. 1 is more applicable, it is normally six

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- Please refer to Exhibit Number Six and identify it?
- Exhibit Number Six is the most recently completed well on the lease, which is one location south of the proposed disposal well. The chloride content again is high and these were taken early in the producing of the well. I just filed a potential test on this well Monday.
 - Please refer to Exhibit Number Seven.
- Exhibit Number Seven is a Form C-116 that contains tests on the two wells in the Langlie-Mattix Pool on the subject lease at the time it was submitted. If you will note, Well No. 1 produces approximately fifty-two barrels a day of water and Well No. 2 has just recently been completed up the hole and we are in the process of testing it right now. No. 3 not shown here is a Jalmat well, a Jalmat oil well and it produces approximately a hundred barrels of water a day and fifty-two barrels of oil and No. 4 is the recently 18 19 completed well mentioned previously. 20
 - What are you currently doing with the produced water
 - We are hauling it. This is one of the reasons that we want to do the effective salt water disposal, that is, we are hauling over seven thousand barrels a month and it is costing us between thirty-five hundred and four thousand dollars

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Q.

And will there be a packer in the well?

How do you propose to monitor the annulus in this

Above the casing seat, yes, sir.

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particular well?

- A. The annulus?
- Q Yes. To determine whether there is any leakage around the packer or the tubing?
- A. Well, periodically on a well of this type we will check the casing to see if there is any increase in pressure.
 - Q. Periodically, what, once a month?
 - A. Yes, sir.
 - Q And this is done by your pumper?
 - A. Yes, sir.
- Q. Have you done any injectivity tests on this particular well yet?
 - A. No, sir.
- Q. Now, is this water production going into the same zone that the oil is being produced from and that the water is being produced from or is this going into a different zone?
- A. It is going much deeper down the hole. Our lowest producing well subsea-wise is No. 1 and it is at a minus one eighty. In this particular well, thirty-eight hundred feet which is the present TD of the well is a minus three, thirty-one and I think that is shown on Exhibit Three.
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pressure diá not exceed point, seven, oh, times the depth of the well, roughly twenty-six hundred and sixty pounds?

- Yes.
- That would be an acceptable limit?
- Yes, sir. We would have to have some tremendous equipment out there to get it in at that pressure. We couldn't afford it.
- That would be something like eight or nine hundred surface pounds?
 - Uh-huh.

MR. STAMETS: Any other questions of the witness? He may be excused.

(THEREUPON, the witness was excused.)

MR. STAMETS: Anything further in this case?

MR. KELLAHIN: No, sir.

MR. STAMETS: The case will be taken under advisement

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.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 57.4.

.... 19.76 Mexico Oil Conservation Commission

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

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a month to haul it. It costs approximately fifty cents a barrel to haul it and dispose of it. Mr. Yuronka, in your opinion will approval of this application be in the best interests of conservation and the prevention of waste and the protection of correlative rights? 6 Yes, sir. Were Exhibits One through Seven either prepared by 7 you directly or compiled under your direction and supervision? 8 9 Yes, they were. If the Examiner please, we move the A. 10 MR. KELLAHIN: 11 introduction of Exhibits One through Seven. These exhibits will be admitted. 12 MR. STAMETS: Applicant's Exhibits One Through 13 (THEREUPON, 14 Seven were admitted into evidence.) MR. KELLAHIN: That concludes our direct examination 15 16 17 CROSS EXAMINATION 18 BY MR. STAMETS: Mr. Yuronka, are you going to use lined tubing in 19 20 this particular well? We propose to use plastic coated, yes, sir. 21 And will there be a packer in the well? 22 23 Above the casing seat, yes, sir.

How do you propose to monitor the annulus in this

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

particular well?

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 - Periodically, what, once a month?
 - A. Yes, sir.
 - Q. And this is done by your pumper?
 - A Yes, sir.
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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

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 555

heard by me on. Examiner New Mexico Oil Conservation Commission

sid morrish reporting service General Court Reporting Service 87501 General Court Reporting Service 87501 825 Calle Mejia. 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.) 8 5641 (Cont.) sid morrish reporting service

Ceneral Court Reporting Service

825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501

Phone (505) 982-9212 BEFORE: Daniel S. Nutter, Examiner 11 TRANSCRIPT OF HEARING 12 13 APPEARANCES 14 For the New Mexico Oil William F. Carr, Esq. Conservation Commission: Legal Counsel for the Commission 15 State Land Office Building Santa Fe, New Mexico 16 17 18 19 20 21 22 23 24

MR. NUTTER: We will call Case Number 5641.

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

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

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

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Gase No. 54/...
heard by me on 3//2 ... 19.26...

New Mexico 011 Conservation Commission

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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.

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1	BEFORE THE NEW MEXICO OIL CONSERVATION COMMIS	CT ∩N
2	Santa Fe, New Mexico March 17, 1976	
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4	EXAMINER HEARING	
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		North Control
6	IN THE MATTER OF:);
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8	water disposal, Lea County, New Mexico.) 5641) (Cont.)
9		. 기록 중요 이 생물. - 1일 기업 :
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12	TRANSCRIPT OF HEARING	
13	APPEARANCES	
14	For the New Mexico Oil William F. Carr Conservation Commission: Legal Counsel f	, Esq. or the Commission
15	State Land Offi	ce Building
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Phone (505) 982-9212

do mereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 1824

Mexico Oil Conservation Commission ..., Examiner



OIL CONSERVATION COMMISSION

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

DIRECTOR
JOE D. RAMEY

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:			
	two copies of the above-reference ntly entered in the subject case.	ed	
Yours very truly,		* *	
JOE D. RAMEY			
JOE D. RAMEY Director			
, , , , , , , , , , , , , , , , , , ,			
, , , , , , , , , , , , , , , , , , ,			
(/Director	ent to:		
JDR/fd	· · · · · · · · · · · · · · · · · · ·		

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, Chairman

EMERY C. ARNOLD, Member

JOE P. RAMEY, Member & Secretary

SEAL

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Form C-108 Revised 3-1-68

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR	-		ADDRESS		***************************************
John Yuronka			120-C Ce	ntral Bldg., Mid	lland, Texas 79701
LEASE NAME		WELL NO.	FIELO		COUNTY
State JC"T"		1	Langlie-	Mattix	Lea
LOCATION	 	· · · · · · · · · · · · · · · · · · ·			
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West Line, Section	16 to	NNSHIP 23-S	RANGE 36-E	NMPM.	
			AND TUBING DATA		
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LONG STRING					
LUNG STRING					
	5-1/2"	3700	600	24701	Temperature Survey
TUBING		\ . · ·	NAME, MODEL AND DEPTH	_	
·	2" EUE	3850	Halliburton R-		
NAME OF PROPOSED INJECTION FORM	MATION		TOP OF FORMATION	801	TOM OF FORMATION
Queen Dolomite	:	<u> </u>	3655		3975 Estimated
IS INJECTION THROUGH TUBING, CAS	ING, OR ANNULUS?	PERFORATIONS	OR OPEN HOLE? PROPOSE	O INTERVAL(S) OF INJECTION	i *
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LIST ALL SUCH PERFORATED INTERV	VALS AND SACKS OF C	EMENT USED TO SEAL O	FF OR SQUEEZE EACH		
Please see attach	ed discussion	n of well his	story and conve	rsion procedure	6.6
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Shell Oil Co., Petr	roleum Bldg.,	Midland, Te	xas 79701		
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Maralo Inc., Midlan					
Continental Oil Co.				3 79701	
Cleary Petroleum Co	orp., Gihls 1	<u>Cower West, M</u>	idland, Texas	79701	
HAVE COPIES OF THIS APPLICATION SENT TO EACH OF THE FOLLOWING?	BEEN SURFACE OW	NER	LACH OPERATOR WE OF THIS WELL	THIN ONE-HALF MILE	
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ARE THE FOLLOWING ITEMS ATTACH THIS APPLICATION (SEE RULE 701-	HED TO PLAT OF ARE	A .	ELECTRICAL LOG	DIA	GRAMMATIC SKETCH OF WELL
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(John / Minor	11/2/1	John V	uronka, Authori	and land	1-27-76
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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 protect 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.

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION EXHISIT NO. 3

John Yuronka (Amerada) Sta C/NW/4, NE/4, Sec. 16, Twp 23CASBAGA-E

Well history, present mechanical condition and proposed procedure for collecting die 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 JC"T" #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 34691. Original Total Depth 38001(-331). 5 1 0.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 ½" csg. However, a drill stem test from 3687' to 3800' prior to running 5 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 $3\frac{1}{2}$ " 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 potentialed 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 0. 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 JCuTu //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

3000(+469) Elevation		3469 DF
		Top Yates 3088 (+381)
3150H319)		
Perforated 4shots/++		
3210(+259)		
en a		
3280(+189) Pay/project	3	TopSoven Rivors 3312 (+157)
1370(+139) Personal fort Ashots f F 2355(+114)		
3400[+69]	7//	Set retoiner and squarter perforations w/200 sacks comed for Jan. 1951

Howed 283.20, bbb oil, 11.01 bbb Hap in 23 hrs thru 19 g too choke on O.P.T. Gas at rate of 611 Meffet Jan. 65 1949 3185 (-116) Perforate (45hob/11 3605(-130) 3620(=151)-Tested all formation water set returner @ 3620 and squeezed W50 sachs coment 3635 (-166)perforgled 4 shuts/ft 3690(-211) 7 DST before rumnings stin-allwater.
No tosts reported offer 156.
No tosts reported offer 156.
Set retainer at 3690 and Squeered open hole of 50 socks democret. 3690(-221) 3900(-231) 517" CSG Comented uf 600 Sacks - Minus 310: original formation water lavel Set packer on tubuscat 3600 and Inject water in newly opened section bolows packer Doepen during conversion to water Injection 3875(-406) Note: 2"Eue tubing-u/ pacher to be set at 3690will be run to 3850 during final completion as injaction well.

JOHN YURONKA CONSULTING PERIOLEUM ENGINEER 120-C CENTRAL BUILDING MIDLAND. TEXAS 79701 FOOTURY 16, 1976

OFFICE 664-6223 RESIDENCE 682-4576 AREA CODE 915

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 submitted on the captioned subject dated January 27, 1976.

Please note Maralo, Inc. lettor 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)

1.	BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION VIDAMA EXHIBIT NO. 4 CASE NO. 5641	
	Submitted by Hearing Date 31 MANG	-

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, Mompson

L. P. Thompson

VTL:af



PRODUCING DEPARTMENT CENTRAL UNITED STATES MIDIAND DIVISION

February 12, 1976

TEXACO INC. P. O. BOX 2109 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,

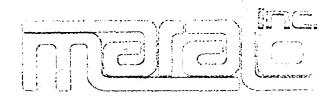
Darrell Smith Division Manager

R. C. Brown

Assistant to Division Manager

RES/1c

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,

John R. Burke Land Department

JRB:ph

JOHN YURONKA CONSULTINO PETROLEUM ENGINEER 120.C CENTRAL BUILDING MIDLAND, TEXAS 79701

OFFICE 084-6223 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

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

Shell Oil Company has a lease offsetting the John Yuronka Ares-Gentlemen: 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,

MH.MKim

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

2/10/16

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.

Title District Manager

JY/ph

JOHN TURONKA CONSULTINO PETROLEUM ENOINEER 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

THOMPSON

Title Division Manager- Production

JY/ph

MALLIBURTON DIVISION LABORAGORY

HALLIBURTON COMPANY

MIDLAND DIVISION LOVINGTON, NEW MEXICO 88260

LABORATORY WATER ANALYSIS

W75-484

To John Muro	nka	Date	6-14-1975
323 Centr	Texas	it nor any part thereof nor disclosed without first of laboratory management course of regular business	of Halliburton Company and neither or a copy thereof is to be published securing the express written approval it; it may however, be used in the operations by any person or concern sectiving such report from Halliburton
Submitted by		Date Rec	6-13-1975
Well No. Ares	State # 1,3 Depth #1:363	4; #3:3665Formation_	Queen(Dolo.Fhase)
County	Field	SourceSource	Well Bleeder
	Well # 1	Well # 3	
Resistivity	0.659 @ 7 8 ⁰ F	0.374 @ 78 ^c F	
Specific Gravity	רח ר	1.01	er en
Hq	7 2	6.6	•
Calcium (Ca)	765	495	*MPL
Magnesium (Mg)	11 <i>L</i>	456	
Chlorides (CI)	6.000	11,000	
Sulfates (SO ₄)	180	150	
Bicarbonates (HC		1,586	×.
Soluble Iron (Fe)	Nil	Nil	
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Remarks:	CASE NO. 5641		*Milligrams per liter
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e.	Respect	fully submitted,	.:
Analyst:	Adam	HALLIBURTON	COMPANY
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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.

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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 CONMISSION GAS-OIL RATIO TESTS

Seviced 1-1-65

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I hereby certify that the above information is true and complete to the best of my know-69,584,72,300 12,759 18,114 CU.FT/BBL 22,473 GAS - OIL RAT10 Special | 384.8 8 38.0 GAS N.C.F. TEST 5.53 35 15.99 6.27 ledge and belief. 3.46 OIL 861.S PROD. DURING WATER GRAV. 35.55 33 33 Completion Lea_County 1,0.12 51.99 12.32 official test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is increased to take advantege of this 25 percent tolerance in order that well can be assigned when apthorized by the Commission. volumes must be reported in MCF measured at a pressure base of 15,025 pala and a temperature of 60° F. Specific gravity base ನೆನೆ 7 LENGTH OF TRST HOURS ನನ ನೆ ನೆ ALLOW-ABLE なな 22 Schoduled X 1161 ප්පි TBG. PRESS. .1 1 1 1 1 SOURCE ON SOURCE OF THE STATE O 20/64" CHOKE SIZE TYPE OF TEST - (X) 22,22 ร็ร็ 5 یم RUTATZ يم بي 2-15-76 1-10-76 2-29-76 1-22-76 DATEOF TEST Langlie Maibix 37E 37E 37E 36E 36E œ 79701 24.5 27.5 238 LOCATION 245 ۲ ထ ထ 17 161 Texas ~ ~ S 0 24 4 11 H'n Þ Midland WELL 12 12 o Z 40 120-6 Central Building, LEASE NAME John Muronka Gulf Rilla Arcs State ARCO Crumo **Fodges** Submitted by Hearing Date_ 10

Authorized Agent

March 9, 1976

Mall 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.

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Form C-108 Revised J-1-68

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

John Yuronka John Yuronka Skate JC"I" 1 Langlio-Extix II. Log Warteries B War	OPERATOR			ADDRESS				
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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 564/

Exhibit 2

John Yuronka (Amerada) State JC"T" #1. C/NW/4, NE/4, Sec. 16, Twp 23-5, 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 JC"T" //L 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 //L 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 3469¹. Original Total Depth 3800¹(-331). $5\frac{1}{2}$ " O.D. casing cemented at 3700¹(-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 3700¹ to 3800¹ subsequent to cementing $5\frac{1}{2}$ " csg. However, a drill stem test from 3687¹ to 3800¹ prior to running $5\frac{1}{2}$ " csg. had gas to surface 20 minutes and a head of drilling mud in 55 minutes. Obtained 1880¹ 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 35851 to 36051 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 potentialed 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 porsisted 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 0. 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"T" #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

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1/ 1/200 Saches CI mont of In Jun. 1951	•

3185 (-116) Partorate (45hosfft Flowed 188.20, bbls oil, 11.01 bbls Had in 23 hrs thru 19 100 chake on O.P.T. Gas at rate of 611 Moffd 3605(-136) 3620(=151)_ 3635-(-166) Tasted all formation water set retainer @ 3620 and squarezed w150 sachs coment 3690(-21) 3630(-221) 3900(-231) 54, CSG Centented uf 600 Sacks No tosts reported offer csa. Set refamor at 3630 and Squee rod open hole wif so souls commont. - Minus 310: original formation water lavel Set packer on tubing at 3600 and in jour water Doepen duries conversion to water Injection

Note: 2"Eue tubing-w/ packer to be set at 3690will be run to 3950 during-final completion as injection well. JOHN YURONKA 120.0 CENTRAL BUILDING MIDLAND, TEXAS 79701

February 16, 1976

OFFICE 664-6223 RESIDENCE 688.4570 AREA CODE 915

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.

Attached please find the waivers signed by the Offset Operators on the Application for Salt Water Disposal sub-Dear Sir: 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

(6) Attachs:

> 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,

Mompson

L. P. Thompson

VTL:af



PRODUCING DEPARTMENT
CENTRAL UNITED STATES
MIDLAND DIVISION

February 12, 1976

TEXACO ING. P. O. BOX 3109 MIDLAND, TEXAS 78701

WAIVER OF OBJECTION TO CONVERTING TO AND INITIATING PRODUCED WATER INJECTION IN THE JOHN YURONKA (AMERADA) STATE JC "T" WELL NO. 16

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,

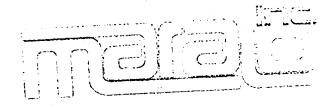
Darrell Smith
Division Manager

R. G. Brown

Assistant to Division Manager

RES/1c

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



February 9, 1976

John Yuronka 120-C Central Building Midland, Texas 79701

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 that, according to our records, Maralo, Inc. and Erma Lowe do not own 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,

Jolin Burke John R. Burke Land Department

JRB:ph

JOHN YURONKA CONSULTINO PETROLBUM ENGINEER 120-C CENTRAL BUILDING MIDLAND, TEXAS 70701

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:

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. Forlung

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

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,

MKI MKim

J. D. Hughes

Operations Manager-Midland Mid-Continent Division

JES:DCW

JOHN YURONKA

CONSULTINO PETROLEUM ENOINEEM

120-C CENTRAL BUILDING

MIDLAND, TEXAS 70701

OFFICE 684.6223 RESIDENCE 683-4579 AREA CODE 015

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

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. Gentlemen:

Yours truly,

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

JI/by

JOHN YURONKA CONSULTINO PETROLBUM 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:

Continental Oil Company operating within one-half mile of the John Yuronka Ares-State Lease, being NE/L Sec. 16, Continental Oil Company 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

L. P. THOMPSON Title Division Manager- Production

JY/ph

PIALLIBURTON DIVISION LABORAÇORY

HALLIBURTON COMPANY

MIDLAND DIVISION LOVINGTON, NEW MEXICO 88260 DRATORY WATER ANALYSIS

No.	W75-484

To John Muronka	N4		6-14-1975
323 Central Build Midland, Texas		it nor any part thereof or disclosed without first of laboratory monagem course of regular busine	ty of Halliburton Compony and neith nor a copy thereof is to be published to securing the express written approve ents, it may however, be used in the ss operations by any person or conce- receiving such report from Halliburte
Submitted by		Date Rec.	6-13-1975
Well No. Ares State #	1,3 Depth #1:3634;	#3:3665 Formation	Queen (Dolo. Fhase)
		Source	
	Well # 1		
Resistivity	0.659 @ 78 ⁰ F	0.374 @ 78°F	
Specific Gravity	7 07	1.01	
pH	9.0	6.6	
Calcium (Ca)	265	495	*MI
Magnesium (Mg)	114	456	
Chlorides (CI)	6 000	11,000	
Sulfates (SO ₄)	2.00	150	
Bicarbonates (HCO ₃)	C	1,586	
	Ni ?	Nil	
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Remarks:	1		*Milligrams per liter
			Case 5641 Exhibit s
- -	Respectfu	lly submitted,	*
Analyst: Adam		HALLIBURTON	COMPANY
CC:		au Alien Sie	Cernel

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.

GRION DIVISION LA

HALLIBURTON SERVICES

MIDLAND DIVISION LOVINGTON, NEW MEXICO 88260 LABORATORY WATER ANALYSIS

	LABORATI	781 40.	Date	3-2-76
John Yuroaka 120-0 Central Diild			or disclosed without first	of Halliburton Company and neither or a copy thereof is to be published securing the express written approval nt; it may however, be used in the s operations by any person or concern eceiving such report from Halliburton
Midland, Texas 7970	12.		Company.	
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				Seven Rivers
ubmitted by	- 1	3350-55	Formation Formation)
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	0.179 @ 72	0	0.181 6 72 F.	
Resistivity	0.179 € 16		1.034	
	1.034			
Specific Gravity	7.6		7.6	 *MPL
рН			1,600	
Calcium (Ca)	1,850	<u> </u>	3,180	
Calcium (Ca)	3,090),200	
Magnesium (Mg)			26,000	
Chlorides (CI)	26,500		2,200	
Cilionado	1,950			
Sulfates (SO ₄)	950		1,000	
Bicarbonates (HCO ₃)		,	Nil	
Soluble Iron (Fe)	911			
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***************************************				*Milligrams per liter
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Remarks:		office of the second		•
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				Case 5641
				Exhibit 6
a de la companya de l		Respec	tfully submitted,	TO LIDANIV
Remarks: Analyst: <u>Brever</u>	(sec		HALLIE	SURTON COMPANY
A dust Drever			-	La Transcal
Analyst: cc:	v.		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 1-1-68

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Ca se 3641

Form C-108 Revised 3-1-68

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR				ACDRESS					
John Yuronka		*,*		12)_C Cer	tral Ri	do 183	land, Texas	79701
LEASE NAME		WE	LL NO.	FIELD)-O OO1	OI GL DA	48.9 11.0.	COUNTY	17101
State JC"T"			1	Lai	nglie-l	lattix		Lea	
LOCATION				····					
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Maralo Inc., Midland Continental Oil Co., Cleary Petroleum Cory AVE COPIES OF THIS APPLICATION BE ENT TO EACH OF THE POLICATION BE	Midland Sar p., Gihls To Sumpace own	vings l ower W	Bldg., M est, Mid	idland, land, To	Yes	9701		AMMATIC SKETCH OF Yes	MELL

Wignature)

John Yuronka, Authorized Agent

Wignature)

(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

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. DEE RULE 701.

3135 (-116) Howed 188.20, bbb oil, 11.01 bbb the in 23 hrs thru 40 how choke on O.P.T. Gas at rate of 617 Moffel Jan. 65 1949 Perforate (45hos/H 3605(-136) 3620(=151)_ Tostad all formation water Set returner @ 3620 and squeezed w/50 sachs, coment 3635-(-166) 3650(-21)N/ 3630(-221) 7 DST before rumaning sti, allwater:
No tosts roported after CSG.
Set retainer at 3690 and squee cod
opin hole wif so socie acrossort. 3900(-231) 54, "CSG Cegrented uf600Sechs --- Minus 310 - original formation water lovel -X Set packer on tubing at 3600 and Inject water <u> 0.T.D.</u> 3800 (-331) Doepen during conversion to water Injection Note: 2"Eue tubing-w/ pacher to be set at 3690will be run to 3950 during- final completion as injaction wall.

JOHN YURONKA consulting distriction engineer 120-0 central building MIDLAND, TEXAS 70701

February 16, 1976

OFFICE 664-6223 RESIDENCE 662-4570 AREA CODE 915

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fo, 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 submitted 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)

Colon

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,

Mompson

L. P. Thompson

VTL:af



PRODUCING DEPARTMENT
CENTRAL UNITED STATES
MIDLAND DIVISION

PETROLEUM PRODUCTS

TEXACO INC. P. O. BOX 3109 MIDLAND, TEXAS 76701

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 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.

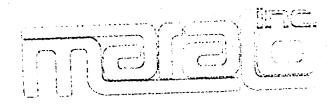
Yours very truly,

Darrell Smith Division Manager

Assistant to Division Manager

RES/1c

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 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

JOHN YURONKA 120.0 CENTRAL BUILDING MIDLAND, TEXAS 79701

January 31, 1976

OFFICE 684.6223 RESIDENCE 653-4570 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 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. State JC"T" #1 C of NW/4NE/4 Sec. 16, Twp. 23-S, Rng. 36-E.

(

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

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 CONSULTINO PETROLBUM ENGINEBR 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 walver 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:

operating within onehalf 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. Title District Manager

JY/ph

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

OYMICE 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"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,

by THOMPSON
Title Division Manager- Production

JY/ph

MALLIBURTON DIVISION LABORA, MAY HALLIBURTON COMPANY

MIDLAND DIVISION LOVINGTON, NEW MEXICO 88260

LABORATORY WATER ANALYSIS

No. 175-484	
< 11.1975	

	LABORATORY WATER	1 / () (7	-1975
o John Yuronka 323 Central Buildin Midland, Texas	ng	This report is the property of a it nor any part thereof nor a or disclosed without first secur of laboratory management; it course of regular business operand employees thereof receiving the company.	falliburton Company and neither copy thereof is to be published ing the express written approval may however, be used in the rations by any person or concerning such report from Halliburton
		Date Rec	6-13-1975
Submitted by	1,3Depth_#1:3634; #3:		Queen (Dolo, Frase)
Well No. Ares State &	11) Depin 11 Mily	Asolice No	11 Bleeder
County	Field Well # 1	Well # 3	
	Well # 1	0.374 @ 78°F	
Resistivity	0.659 @ 78°F	1.01	
Specific Gravity	1.01	6.6	
pH	7.2	495	*MPL
рН	765	456	Dest'
Calcium (Ca)		- William Tube	
Magnesium (Mg)	6,000		
Chlorides (Cl)	180	150	
Sulfates (SO ₄)		1,586	
Bicarbonates (HCO ₃)	1,0),	Nil	
Soluble Iron (Fe)			
20lings non 4			
***************************************			*Milligrams per liter
***************************************			, in the second
Remarks:	A STATE OF THE STA		
			•
•			
	Respect	ully submitted,	TON COMPANY
Ada	om	HALLIBUR	TON COMM
Analyst:	X ⁽¹⁾	Alem .	MISION-CHEMIST ENGE
CC:			t Halliburtan shall not be liable

NOTICE

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

120-C Central Duil	ding	This report is the property	of Halliburton Company and neither
Midland, Texas 797	3	it nor any part thereof no or disclosed without first	or a capy thereof is to be published securing the express written approval it; it may hawever, be used in the
reaction, 16Ad5 771		course of regular business	operations by any person or concern ceiving such report from Halliburton
Submitted by		Date Rec	3-2-76
Well No. Ares State #4	Depth 3359-551	Formation_	Seven Rivers
CountyLea	FieldJal_Kat	Source	Wellhead
	2-29-76	3-1-75	
Resistivity	0.179 @ 72 ⁰ .	0.181 @ 72 F.	·
Specific Gravity	1.03%	1.034	
ρH	n: /	7.6	
· Calcium (Ca)		1,600	*MPL
Magnesium (Mg)	3,090	3,180	
Chlorides (Cl)	26,500	26,000	
Sulfates (SO ₄)		2,270	· · · · · · · · · · · · · · · · · · ·
ë Bicarbonates (HCO₃)	0.40	1,000	
Soluble Iron (Fe)		Nil	
40			4
e de la companya de La companya de la co	۰		
Remarks:	40 · · · · · · · · · · · · · · · · · · ·	•	*Milligrams per liter
		· .	** · · · · · · · · · · · · · · · · · ·
	Respectfully s	ubmitted,	
		HALLIBURTON	0011011111

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

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Revised 1-1-65

			GAS - OIL	RATIO CU.FT/BBL		22,473	18,144	12,759	69,584		:						I hereby certify that the above information
		Special	TEST	GAS M.C.F.		143.6	88.0	o• ⊗	384.8	550.2				· · · · ·			hat the abo
			DURING	OIL	3	6.39	4.85	6.27		7.61						 	certify t
	7	Hon	D 0089	GRAV.	2 2	35.	333	33	35	35	· .		·			 	acreby
	Lea County	Completion	20	WATER	BBLS.	2.32	51.99	40.12				· ·			· 		
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County		[}		DAILY ALLOW-	ABLE	11	బచ	6	<u>-</u>	² ස්							
		; 	Sche		PRESS.		! !	1		સુદ્ધ			····	i.		 	
		TYPEOF	(X)	CHOKE	SIZE	22				179/22			·				
	1 5 3 Motor		TEST	DATE OF	TEST	2-28-76 P	7-10-76 9 57-71-1	1~20-76 P		2-15-76 F 2-16-76 F							
	0.5.1%	27.17.7	٠.٠		œ	363	36 K	27.5	1	37E 37E							
	.)-	a d	79701	NOIL	9-	27,5	238) c) ;	24.5 24.5							_
	10001	_	Toyer S	LOCATION	s	r-1 r-	3,1		₹	∞ ∞	,					 	
				1	כ	H,) 4:	C -	ન ——	0 24				· .			
		-	ीत भी भीत	WELL	o N	ى بىم	४ त	N	۲	નજ							
		John Yuronka		130-C Central Burnauls,	LEASE NAME	ARCO Crump	Ares State		Gulf Rilla								
4.	ator	John	S07	7.25		ARCO	Ares		Galk	Hodges							

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

Report coalny pressure in Heu of tubing pressure for any well producing through easing.

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.

is true and complete to the best of my know-ledge and belief.

John Urisans

Authorized Agent (Till)

w/ extrahed.

schemeter

Case 5641

John Yuronka (Amerada) State JC"T" #J. 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 JC"T" #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). $5\frac{1}{2}$ " 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 $5\frac{1}{2}$ " csg. However, a drill stem test from 3687' to 3800' prior to running $5\frac{1}{2}$ " 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 potentialed 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 34001 to 36901 and test squeezed perforations from 35851 to 36051 and 36351 to 36801 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 701 to 751.
 - (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 JCuru #1 CofNW/4, NE/4 Soc. 16, T-23-S, R-36-E

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

3000(+469) 6/2Vation		3469 DF
· · · · · · · · · · · · · · · · · · ·		Top Yates 3088 (+381)
3150(+319)		
Perforated 4shots/x+		
32/0(+2,63)		
3230(+189) Paylong 124 423305(+169		TopSoven Rivors 3312 (+154)
7370(+139)_ Pertorytos 45hots (+114) 7355(+114)		
3355(4114)		
3400[+69]	7, ,	Set-vetamen and squeet 200 perforations
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NEW	MEXICO	OIL	CONS	SERV	NOITAV	COMMISSION
	Sa	anta	Fe,	Nev	w Mexic	co
		Ma	rch	3,	1976	

EXAMINER HEARING

IN THE MATTER OF:

7:

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

CASE

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil Conservation Commission:

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

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

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

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

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

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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.

F. Morrish,

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 564

New Mexico Otl Conservation Commission

sid morrish reporting service

General Court Reporting Service

Calle Mejia, No. 122, Santa Fe, New Mexico 87501

Phone (505) 982-9212

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

EXAMINER HEARING

IN THE MATTER OF:

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

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

APPEARANCES

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

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A MOTUSA reporting service

General Court Reporting Service

Mejia, No. 122, Santa Fe, New Mexico 87501

Phone (505) 982-921

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

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

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

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

£ ...

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.

Morrish,

I do nereby certify that the foregoing is a complete record of the proceedings

sid morrish reporting service

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

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 Burman Oil & Gas Co. for an unorthodox cas 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 011 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, Jaluat Pool, Lea County, New Mexico.
- 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 Fast, Catclaw Braw-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 linit P of said Section 1.
- CASE 5657: Application of Inexco 011 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.
- Application of Inexco 011 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 Mittle Weatherly Well No. 1, located in Unit F of Section 17, Township 21 South, Range 37 Fast, Lea County, New Mexico.
- 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 3840 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 26 South, Ranges 23 and 24 East, Eddy County, New Mexico.

Docket No. 11-76

Examiner Hearing - Wednesday- March 31, 1976

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 PotashQil Area casing-cementing rules for Yates-Seven Rivers wells to be drilled in the followingdescribed lands, Lea County, New Mexico:

TOWNSHIP 20 SOUTH, RANGE 34 FAST, 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-liner through the pay, all cemented to the surface.

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

OFFICE 68 6623 D RESIDENCE 683-4579

Santa Po

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 Yuronko

JY/ph

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Ex Abril

Dockets Mos. 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. - GIL CONSERVATION COMMISSION CONFERENCE ROCM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Laniel S. Mutter, Examiner, or Pichard L. Stamets, 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 SN/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-3650.

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 3500 to 3575 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 5645: Application of Amoco Production Company for suspension of Pules 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 profrated gas pools of Southeastern New Mexico promulgated by Order No. R-1670, as smended, that provide for the carcellation 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, Tewnship 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 Recation 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 uncrthodox 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.

Application of Burman Oil & Gas Co. for an unorthodox gas well location, Eddy County, New Mexico.

Application of Burman Oil & Gas Co. for an unorthodox gas well location, Location of a Morrow location lo Examiner Hearing - Wednesday - March 17, 1976 CASE 5651:

CASE 5652:

Application of Continental Oil Company for downhole commingling, Pio Arriba County, New Mexico.

Application of Continental Oil Company for downhole commingle Pasin-Dakota gas and Oteronal Pasin of County, New Mexico In the above-styled cause, seeks authority to commingle Pasin-Dakota gas and Oteronal Pasin In the Northeast Haynes Lease in Applicant, in the above-styled cause, of the following wells on its Northeast Haynes Lease in Applicant, in the above-styled cause, of the following Wexico:

Application of Continental Oil Company for downhole commingling, Pio Arriba County, New Mexico.

Application of Continental Oil Company for downhole commingling, Pio 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 21
No. 4 in Unit E of Section 22
No. 5 in Unit E of Section 25
No. 6 in Unit D of Section 19
No. 7 in Unit L of Section 19
No. 8 in Unit P of Section 15
No. 8 in Unit P of Section 15

CASE 5653:

Application of Continental Oil Company for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit to seeks approval for a non-standard gas proration unit comprising the M/2 and 52/4 of Section 2.

Application of Continental Oil Company for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit and simultaneous approval for a non-standard gas proration unit comprising the M/2 and 52/4 of Section 2. CASE 5654:

CASE 5422:

In the matter of Case 5422 being reopened pursuant to the provisions of Order No. R-4911, Which lea Gourty, New York and Tea Gourty, New York and Tea Gourty, New York and State order established special rules and regulations for All interested parties may appear and state order established special rules and regulations. All interested parties may appear and state order established special rules and regulations of Order No. R-4911, Which he was a special pool of the EK-Bone Corings Pool, Lea Gourty, New York and Tea of said Section 2. (Reopened)

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
- In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider CASE 5632: 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 Blinebry, 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.
- 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, CASE 5634: more or less, of State lands in Township 17 South, Kanges 17 and 18 East, Chaves County, New Mexico.
- Application of Sundance Oil Company for salt water disposal, Chaves County, New Mexico. Applicant, CASE 5635: 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.
- 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 5636:
- Application of R. C. Bennett & J. C. Ryan for a dual completion, Eddy County, New Mexico. Appli-CASE 5637: cant, 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.
- Application of Belco Petroleum Corporation for Amendment of Order No. R-5111, Edda County, New Mexico. CASE 5638: 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.
- 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 CASE 5639: 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 Petrolcum 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 Fast, Lea County, New Memico.

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, Rance 27 First, Location State Fool, Loa County, New Mexico.

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

Southeastern New Mexico nomenclature case calling for an order for the creation and extension of CASE 5643: 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 18 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 36 EAST, NOPM 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. 17, located in Unit L of Section 36, Township 21 South, Range 30 East, NIPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 30 EAST, CMPM 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 Cometery-Grayburg San Andres Pool. The discovery well is the Culf 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, MMPM 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 Pasken 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, NOTE: 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, NORM 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 NN/4, N/2 SW/4, W/2 NE/4 and SE/4 NE/4

Docket No. 8-76

(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 Racmifin State Com Well No. 1, located in Unit P of Section 16, Township 19 South, Range 31 East, NNPM. Said pool would comprise:

TOWNSHIP-19 SOUTH, RANGE 31 EAST, MARM Section 16: 8/2

(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, NNPN. 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, NAPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NYPM 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, MMPM 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 Corporing 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, MMPM Section 16: SW/4

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

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NIPM Section 21: S/2 SE/4 & E/2 SW/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, NORM 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, MPM 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, NORPM Section 3: All

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

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NNPM 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: SN/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, MARM Section 16: All Section 34: All

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

http://disc.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 Cas Peci, 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.

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

February 16, 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

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 submitted on the captioned subject dated January 27, 1976.

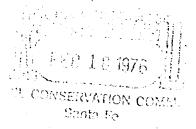
Please note Maralo, Inc. letter stating that they do not own rights below a depth of 37011. This was obtained on a farmout from Shell Oil Company who's waiver is attached.

Sincerely yours,

John Yuronka

JY/ph

Attachs: (6)



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



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

Assistant to Division Manager

RES/1c

John Yuronka 120-C Central Bldg. Midland, Texas 79701 JOHN YURONKA
CONSULTING PETROLEUM ENGINEER
120-C CENTRAL BUILDING
MIDLAND, TEXAS 79701

OPPICE 684-6223 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 N.E. Frenn

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,

MM. MMin

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:

operating within onehalf 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. 10/16 mack on 2/10/76 District Manager

JY/ph

JOHN YURONKA CONSULTING PETROLBUM 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,

JY/ph



PRODUCING DEPARTMENT
CENTRAL UNITED STATES
MIDLAND DIVISION

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

ease 5641

Texaco Inc. has been advised by John Yuronka of his application to convert to and initiate produced water injection 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, Two. 23-S. Range 36-E. Gentlemen:

Texaco Inc., as an offset operator, waives objection to Twp. 23-S, Range 36-E. this application.

Yours very truly,

Darrell Smith Division Manager

Assistant to Division Manager

RES/1c

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

bare 5641

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

OFFICE 684-0228 RESIDENCE 683-4579 AREA CODE 915

January 27, 1976

CFB - 4 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 (R&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 respect—fully 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.

John Yuru

John Yuronka

JY/ph

Gare 5641

Form C-108 Revised 3-1-68

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION O

OPERATOR			ALER DI INJECTION	ال البها	Man Low Lord
John Yuronka					Onserva in Comm. Midland, Texas 79701
LEASE HAME		WELL NO.	FIELD		COUNTY
State JC"T"		1 1	Langlie-	Mattix	Lea
LOCATION		· · · · · · · · · · · · · · · · · · ·			
UNIT LETTER	В	LL IS LOCATED 66	OT	North	LINE ANDFEET FROM THE
	*				
West LINE, SECTION	16 tow	NSHIP 23-S	RANGE 36-E	имрм.	
<u> </u>			AND TUBING DATA		
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEM	ENT TOP DETERMINED BY
	0.5/0.00	6 0 <i>E</i>	050	04244	
INTERMEDIATE	3-5/8 OD	<u> 295</u>	250	Circulated	
	1				
LONG STRING					
•	5-1/2"	3700	600	24701	Temperature Survey
TUBING	\	2100	NAME, MODEL AND DEPTH		prompozada o barroy
	2" EUE	3850	Halliburton R-	4 @ Approx.	3690
NAME OF PROPOSED INJECTION FORM			TOP OF FORMATION		BOTTOM OF FORMATION
Queen Dolomite		<u>e</u> :	3655		3975 Estimated
IS INJECTION THROUGH TUBING, CAS	SEULUHNA ROPAL	PERFCRATION		D INTERVAL(S) OF INJ	ECTION
Tubing	· · · · · · · · · · · · · · · · · · ·	Open ho	ole 3	800 to 3875	
IS THIS A NEW WELL DRILLED FOR	}		DSE WAS WELL ORIGINALLY		HAS WELL EVER BEEN PERFORATED IN AN ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
NO LIST ALL SUCH PERFORATED INTERV	Original;	ly drilled b	oy Amerada as ar	oil well	yes
					· · · · · ·
Please see attach	ed discussion	n of well hi	Istory and conve	rsion proced	UPO
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA	7	OIL OR GAS ZONE IN	THIS AREA	OIL OR GAS	ZONE IN THIS AREA
1801	TMAXIMUM	3634 JOPEN OR CLO	SEO TYPE SYSTEM IS I	NJECTION TO BE BY GR	Estimated AVITY OR APPROX, PRESSURE (PSIO
(BBLS.)	1 220	1 m		tially by gr	oreitz.
ANSWER YES OR NO WHETHER THE F ERALIZED TO SUCH A DEGREE AS TO	OLLOWING WATERS ARI	MIN- WATE	R TO BE DISPOSED OF NAT	URAL WATER IN DISPO-	ARE WATER ANALYSES ATTACHED?
STOCK [RRIGATION, OR OTHER GENE	RAL USE -	. • • • • <u>.</u>	ves	yes	Presently produced water
NAME AND ADDRESS OF SURFACE ON	NER (OR LESSEE, IF S	TATE OR FEDERAL LA	(ND)	Salara e e e e e	
Ross Robinson - Les	see 98 19th	Street. Eun:	lce N. M.		追。
LIST NAMES AND ADDRESSES OF AL	L OPERATORS WITHIN C	NE-HALF () MILE O	F THIS INJECTION WELL	34.5	
Texas Pacific Oil C	o. 1509 Wes	t Wall, Mid	land, Texas 797	701	3 - 4 1976
	4				Red
Texaco, Inc., Midla	nd S. in s B	ldg., Midlar	nd, Texas 7970]	COME	RVATION COM
Ø 35 A17 A		37233 3	MANAR	A CONC	Santa Fo
Shell Oil Co., Petr	otem Ridg.	matand, To	exas 79701		
landa Ina Mala	d Marine 1st d	land Mayer-	70701		
Naralo Inc., Midlan Continental Oil Co.				3 79701	
Cleary Patroleum Co	rn. Ghle T	ower West.	Midland Taxes	79701	
Cleary Petroleum Co	BEEN SURFACE OWN	ER	EACH OPERATOR W	ITHIN ONE-HALF MILE	
want to minute the tamponing		Lessee)	Yes		
ARE THE FOLLOWING ITEMS ATTACH THIS APPLICATION (SEE RULE 701-			ELECTRICAL LOG	······································	DIAGRAMMATIC SKETCH OF WELL
	Yes	·	Yes		Yes
I hereby		ormation above is	s true and complete to t	he best of my know	vledge and belief.
$\triangle 0$ 11	0				:
John Muro	ntra	John_	Yuronka, Author	ized 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 hald 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. DERULE 701.

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John Yuronka (Amerada) State JC"T" #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 converber, 1962, the Yates had been sufficiently depleted and water production had November, 1962, the Yates had been sufficiently depleted and water production had increased to the extent that State JC"T" #1 was no longer capable of commercial increased to the extent that State JC"T" #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

Therefore it is now proposed to convert the State JOT #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 ½ 0.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 5½ csg. However, a drill stem test from 3687: to 3800: prior to running 5½ csg. had gas to surface 20 minutes and a head of drill-irg 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 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 potentialed 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 3340'. 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

Within two months water production averaged 20 to 30 bbls. per day. The oil Was exchausted 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 transin 24 hours.

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

Following reworking well averaged 100 bbls. water and 293 MCF/day. Well feeding crude oil and 10,000# sd.

By November, 1962, State JOT #1 could no longer be operated profitably. N. M. C. C. gave permission to temporarily abandon the well and disconnect from the through a compressor into a 100 PSIG line. pipe line. It has remained inactive since, except for the testing period in 1973

To convert the State JCT #L to water disposal the following program is proposed: (1) Set cement retainer at 3060; and squeeze perforations from 3090; to 3100; noted above.

(2) Drill out cement to top of retainer at 3229 and pressure test for "shut and 3150' to 3210' with approximately 300 sacks cement.

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

Case 5641

LABORATORY WATER ANALYSIS

No. <u>W75-1035</u>

	LABURATO		*	Date	12-22-75
John Yuronka					of Halliburian Company and neither
323 Central Buildin	8,		it nor or disc	any part thereof n losed without first	securing the express written approval
Midland, Texas		·	of lab	oratory management of regular business imployees thereof r	s operations by any person or concern eceiving such report from Halliburton
			· · · · · · · · · · · · · · · · · · ·	Date Rec	12-22-75
bmitted by		3300-3	4001	Formation	o Divong
	Depth	ralmat		Source	Wellhead
ountyLea	1 10:0		Ares St. #4		Sol Wast Cookie St. #1
•	Ares St. #3		0.144 @		0.514 @ 72°F.
esistivity	0.187 @ 72 F.		1.024		1.012
pecific Gravity	1.016		6.4		6.6
ьН			2,000		650*MPI
Calcium (Ca)	750				600
Nagnesium (Mg)	870		1,680		6,500
Chlorides (Cl)	9,000		15,000		900
Sulfates (SO ₄)	1,400		750		1,460
Bicarbonates (HCO _a)			1,330	٠.	Nil
Soluble Iron (Fe)	_		Nil		RIL
	i vi				
					
			(;		*Milligrams per liter
Remarks:	•				
•			و المارية		
		Respect	fully submitted,		TON COMPANY
Analyst: <u>Prewer</u>		·		HALLIBUR	TON COMPANY
CCi	•		By	1.0	SION 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 amission, resulting from such report or its use.

Care 5641

HALLIBURTON COMPANY MIDLAND DIVISION

LOVINGTON, NEW MEXICO 88260 LABORATORY WATER ANALYSIS

No	75-1034
----	---------

To John Yuronka		Date	12-22-75
323 Central Buildi	.ng	it nor any part thereof no or disclosed without first s of laboratory managemen course of regular business	of Halliburton Company and neither or a copy thereof is to be published fecuring the express written approval, it may however, be used in the operations by any person or concern ceiving such report from Halliburton
Submitted by		Date Rec	12-22-75
Well No. As Marked	Depth36001	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	
На	¢. 0	7.0	
Calcium (Ca)	750	700	*MPI
Magnesium (Mg)	210	210	
Chlorides (CI)		4,000	
Sulfates (SO ₄)	Less than 50	Less than 50	
Bicarbonates (HCO ₃)	1,710	1,950	
Soluble Iron (Fe)	Nil	Nil	
•••••		· · · · · · · · · · · · · · · · · · ·	
			· · · · · · · · · · · · · · · · · · ·
			ms (19 ¹).
Remarks:		* 1 - 1 - 1	*Milligrams per liter
•			
	Respectful	ly submitted,	
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Analyst: Brewer cc:		HALLIBURTON By	Times
		DIVISION C	HEMIST

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



SHELL OIL COMPANY

PETROLEUM BUILDING
P.O. 80X 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,

MKI MKim

J. D. Hughes

Operations Manager-Midland Mid-Continent Division

JES: DCW

OIL CONSERVATION COMM.
Santa Fe

Case 5641

OIL CONSERVATION COMMISSION Hobbs DISTRICT

₩.		DATE	Februa	ry 6, 1	976
OIL CONSERVATION COMMISSION BOX 2088 SANTA FE, NEW MEXICO		RE:		NSL SWD	<u> </u>
I have examined the appropriate for the John Yuronka Operator and my recommendations are 0.KJ.S.	Lease and	#1-B Well N		16-2 Unit, S	3-36 -T-R
			Yours very	truly	

1 South

13 - 0 1876 /

Case 5641

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

OFFICE 684-6228
RESIDENCE 688-4579
AREA CODE 915

January 27, 1976

The sands which who

New Mexico Oil Conservation Commission P. O. Box 2088

Santa Fe, New Mexico 87501

IL CONSERVATION COMM.
Santa Fo

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 (R&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 (Amereda) 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 respect—fully 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 Yumanka

JI/ph

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR			ADDRESS				
John Yuronka				? Contro	i Ride.	Mi Al s	and, Texas 79701
LEASE HAME		WELL HO.	FIELD	001101	L muge,	124	COUNTY //OZ
State JC"T"		l	Tana	Lie-Matt	i se		Lea
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STOCK, IRRIGATION, OR OTHER GENE			'0S	yes	3	Pres	ently produced water
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Ross Robinson - Les	see 908 19th S	Street, Euni	ce N. M.		·····		
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ARE THE FOLLOWING ITEMS ATTACH	YOS (I	Lessee)	ELECTRICAL	Yes		DIAGRAI	MMATIC SKETCH OF WELL
ARE THE FOLLOWING ITEMS ATTACHI THIS APPLICATION (SEE RULE 701-B	i i		1			1	
	Yes			Yes		<u>i</u>	Yes
I hereby o	ertify that the info	rmation above is	true and complete	e to the bes	t of my know	ledge an	nd belief.
Clark Church	. L.	Tahu V	(. Sumanise A+	haus -ad	Agant	7	-21-76
Jum Vine	VIOL		uronka, Aut (Title)	DITEG	ukano		(Date)
(Signature)	<u>`</u>		(11116)				(50.0)

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. IEE RULE 701.

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John Yuronka (Amerada) State JC"T" #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 JC"T" #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). $5\frac{1}{2}$ " 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 $5\frac{1}{2}$ " csg. However, a drill stem test from 3687: to 3800: prior to running $5\frac{1}{2}$ " 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 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 potentialed 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. 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 32291 to top of retainer at 34001.

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 0. 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.

Gase 5641

HALLIBURTON COMPANY MIDLAND DIVISION LOVINGTON, NEW MEXICO 88260

1175-1035 LABORATORY WATER ANALYSIS To John Yuronka 12-22-75 Date. 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. 323 Central Building Midland, Texas 12-22-75 Submitted by___ Date Rec. Well No. As Marked Depth 3300-3400' Seven Rivers _Formation. Lea Jalmat Wellhead _Field___ ∴Source_ Sol Wast Cookie St. #1 Ares St. #3 Ares St. #4 0.187 @ 72°F. 0.144 @ 72°F. 0.514 @ 72 F. 1.016 1.024 1.012 Specific Gravity___ 6.4 6.6 7.4 pH 750 2,000 650__ Calcium (Ca) *MPL 870 600 1,680 Magnesium (Mg)____ 9,000 15,000 6,500 Chlorides (CI) 750 1,400 900 Sulfates (SO₄) Bicarbonates (HCO₃) 1,185 1,460 1,330 Soluble Iron (Fe) Nil Nil Nil *Milligrams per liter Remarks: Respectfully submitted, Analyst: Brewer HALLIBURTON COMPANY

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

W75-1034

To John Yuronka		Date	12-22-75	
323 Central Buildi Midland, Texas	ng	This report is the property it nor any part thereof no or disclosed without first of laboratory management course of regular business and employees thereof re Company.	or a copy thereof is to be securing the express writte it; it may however, be u operations by any person	e published in approval ised in the or concern
Submitted by		Date Rec	12-22-75	-
Well No. As Marked	Depth3600 t	Formation_	Queens	
County Lea	Field Langlie	-Mattix Source	Wellhead	· -
	Ares St. #1	Ares St. #2		
Resistivity	0.770 @ 72°F.	0.850 3 72°F.		·
Specific Gravity		1.010		nter and the Management of the Control
На На	6.0	7.0		
Calcium (Ca)	750	700		*MPL
Magnesium (Mg)	210	210		
Chlorides (CI)	4,500	4,000	4.	
Sulfates (SO ₄)	Less than 50	Less than 50		
Bicarbonates (HCO ₃)	1,710	1,950		
Soluble iron (Fe)	Nil	Nil		- <u> </u>
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Remarks:			*Milligrams per	liter
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Analyst: Brewer		HALLIBURTON	COMPANY	
CC;	**************************************	By Division C	Murel HEMIST	فسندانية, ويبيدنا غض

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.

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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. <u>5641</u>
Order No. R- 5/94
PPLICATION OF JOHN YURONKA FOR EALT WATER DISPOSAL, LEA COUNTY JEW MEXICO. ORDER OF THE COMMISSION
BY THE COMMISSION:
This cause came on for hearing at 9 a.m. on March 17, 1976 at Santa Fe, New Mexico, before Examiner, Daniel S. Nutter P.S.
NOW, on this day of <u>March</u> , <u>1976</u> , the Commiss 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 Fast , 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 <u>Queen</u>
formation, with injection into the open-hole interval
from approximately .3800 feet to 3875 feet.
(4) That the injection should be accomplished through
-inch plastic lined tubing installed in a packer
set at approximately 3690 feet; that the casing-tubing annulu
should be filled with an inert fluid; and that a pressure gauge
or approved leak detection device should be attached to the

J. Jykk

annulus in order to determine leakage in the casing, tubing,
or packer. It injection should by 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 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 XXXX his State JC "T" Well No.]
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, inject
tion to be accomplished through 2 3/8 -inch
tubing installed in a packer set at approximately 3690 feet,
with injection into the <u>open-hole</u> 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
or the annulus shall be equipped with an approved leak detection
device in order to determine leakage in the casing, tubing, or
packer.

-2-CASE NO (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 350 psi.

- (5) (1) 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
 - (6) That the operator shall immediately notify the superthat the same may be inspected. visor 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
 - (7) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 or leakage. 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 herein-

above designated.

(3) That if injection into said well is under a vacuum the operator shall conduct an annual avacuum the operator shall conduct an annual sto pressure test of the casing-tubing annulus to pressure lenkage of the casing, to bing, or determine lenkage of the casing, to be determined to said well packer in said well (4) That the operator shall notify the Hobbs and office of the Commission of the date and Time of such pressure tests in order

Time of such pressure tests in order

That they may be witnessed by a Commission

That they may represent to tive.