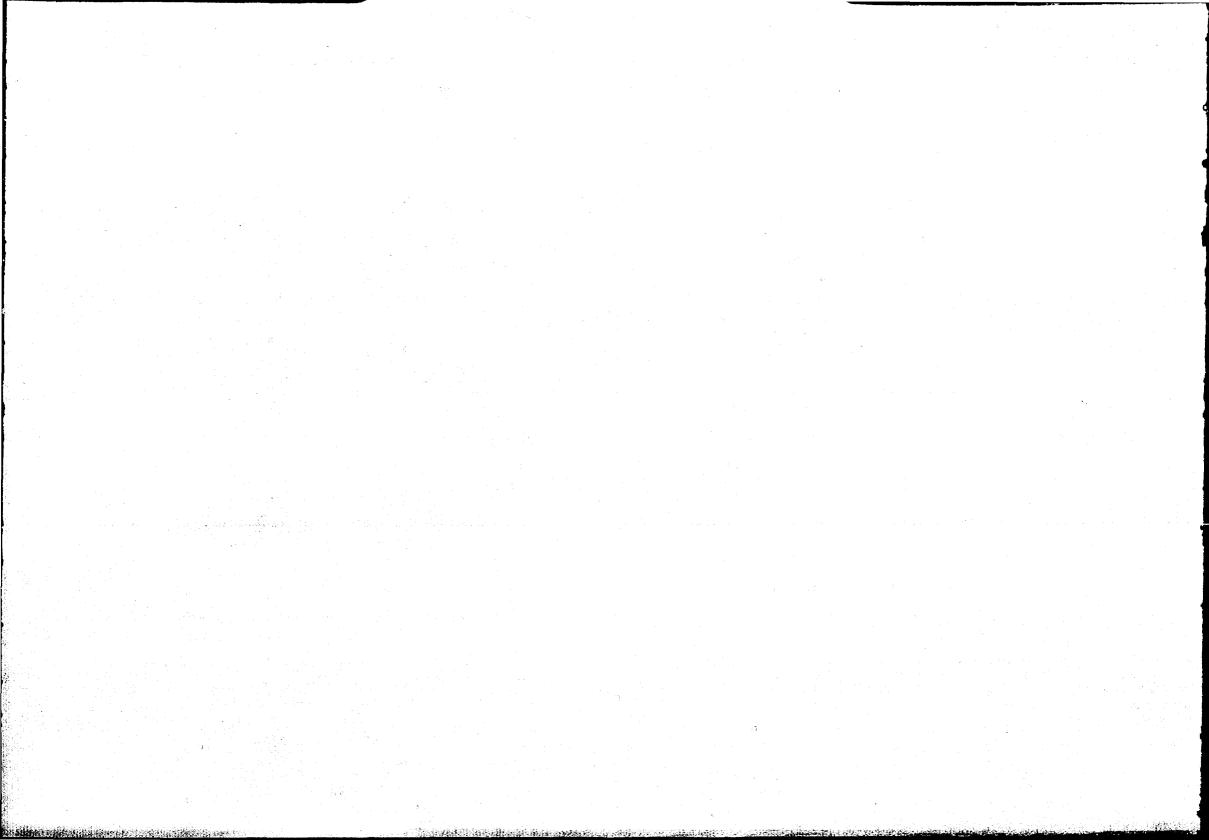
CASE NO.

7622

APPlication,
Transcripts,
Small Exhibits,

ETC.



DOCKET MAILED

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A.	To convert	the	U.S. No	. 1 to an i	injection
well in order	to possibly have	a p	ressure	maintenand	ce program
for this field	1.				

- Q. And where is the well located?
- 7 South, Range 32 East, Roosevelt County, New Mexico; 660 from the south line; 1980 from the west line.
- Q. I now refer you to what has been marked as Applicant's Exhibit Number One and ask you to identify it.
 - A. Yes, this is Exhibit One.
 - Q. And what is it?
- A. Okay. A map of the area showing the township and range and also the area of interest, area of review, the small circle that has a one-half mile radius, a large circle, two mile radius, scale of one inch equals 4000 feet.
- Q Now I refer you to what has been marked as Exhibit Number Two and ask you to identify that.
- A. That is the injection well data sheet. It has all the necessary data about the well, how it was completed, and the type surface and tubing in it.
- Q. And this is the well that will be the proposed injection well, is that correct?

A. Yes, sir, it is.

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Now I would refer you to what has been marked Exhibit Number Three and I ask you to identify it.

A. Okay. These are the wells within the area of review, one-half mile radius. They comprise the leases within that half mile radius, all of which belong to El Ran, which we operate, El Ran.

Q I would now refer you to what has been marked Exhibit Number Four and ask you to describe what's contained therein with respect to your operations and geological data.

A. We propose to utilize this injection well to dispose of water produced from the following leases operated by El Ran, Inc.: The Byron, U.S., the Dachner, the Federal, Carroll, Sarah, Roberts, Barton, and Yeager.

Present water production from the above leases is approximately 400 barrels per day and this is what we propose to inject. Maximum anticipated volume would be 500 barrels per day. Average injection rate will be one barrel per minute at 400 pounds.

Maximum anticipated rate is 1-1/2 barrel per minute at 700 pounds.

This proposal is to re-inject water from the -- produced from the San Andres formation back into the

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San Andres formation. It will be a closed system.

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The injection zone in this proposed well is the San Andres formation, which is composed of dolomite. The gross thickness of the injection zone is 107 feet with perforations from 4169 to 4276. Top of the San Andres formation in the proposed injection well is 3450, and the well was still in the San Andres at 4311, total depth.

The depth to the bottom of the underground source of drinking water would be 380 feet, which is the base of the Tertiary formations in this well.

The San Andres zone is 4169 to 4276 in the U. S. No. 1, and has been stimulated with 6000 gallons of acid. We do not plan any other stimulation except for occasional small acid jobs to clear any scaling that might occur.

Well logs have been filed with the Division and Commission.

There are two fresh water wells within one mile radius of this proposed injection well. The location of the wells is shown below, one being to the southwest approximately 3900 feet, and this is referred to as the Carroll fresh water Well No. 2; another one being approximately 2300 feet to the northeast, the Carroll Fresh Water Well No.

1.

The water wells are pumped by electric pumps and the water is used for livestock consumption. The water analysis of the two wells are enclosed.

El Ran, Inc., geological and engineering personnel have examined available geologic and engineering data and find no evidence of open faults or other hydrologic connection between the disposal zone and any underground source of drinking water.

Q. Okay, and as I understand it, the water analysis reports of these two drinking water wells are attached to this exhibit?

A. Yes.

Q. Now I would ask you to refer to what's been marked as Exhibit Number Five and identify it.

A. It is the analysis of the produced water from the U. S. No. 1 Well. There is 42,820 parts sodium; 39,600, calcium; 10,980 parts magnesium; chlorides 168.185; sulfates 200. Total dissolved solids, 261,785; iron 16.5.

In your opinion would the granting of the application in this case be in the interest of the prevention of waste and the protection of correlative rights?

A. Yes, sir, because it would possibly enable us to recover more oil.

Were Exhibits One through Five prepared

pages back in there, we don't have a top of cement on either

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10 2 of those casing strings. Do you know what that is? 3 λ. Be approximately the same. They were all 4 about 175 sacks of cement; approximately the same as the U.S. 5 How about the surface casing string? You 0. 6 cemented it with 550 sacks, apparently? Yes, sir. A. 8 I wonder if -- would you check your records 9 when you get home and advise me as to whether you circulated 10 cement on that long -- on the short string, and what the cal-11 culated top would be on the long string, if you don't have 12 it? 13 Certainly will. A. 14 I mean if you didn't measure it. 15 Yeah, I set the well, so I'll be --16 Yeah. And then on the next page, your 17 Roberts No. 1, you don't show the depth of the 4-1/2 inch, 18 nor the top of the cement. Oh, yeah, the top of the cement 19 is given on both of those, but we don't have the casing setting 20 depth on the 4-1/2. 21 Okay, sir, well, it's 4330 -- 4327 is what 22 we set it at. 23 Is it on here somewhere? Q. 24 It shows plugback depth and what we do is 25 run our casing with a one-foot shoe and I pull one foot up

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2	is productive in	the other wells.
3	A.	Yes, sir.
4	Q.	Now do you have producing wells ir all
5	directions from	this disposal well or injection well?
6	A.	Yes, sir.
7	Q.	And how does it compare structurally with
8	the other wells?	
9	A.	They're all approximately flat.
10	Q.	Are they?
11	A	I don't think it varies ten feet.
12	Q.	From one well to the other.
13	A.	From one, one end of it to the other, and
14	the only thing, t	he only difference is natural fracturing
15	Q.	Uh-huh.
16	A.	what produces and what doesn't.
17	Q.	And you don't expect to inject anything
18	other than produc	ed water.
19	A.	Right, just produced water.
20		MR. NUTTER: Are there any further questions
21	of the witness?	He may be excused.
22		Do you have anything further, Mr. Lopez?
23		MR. LOPEZ: No.
24		MR. NUTTER: Does anyone have anything they
25	wish to offer in (Case Number 7622?

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HERDBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

July W. Boyd CSE

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 1982.

heard by me on 1982.

Examiner

Oil Conservation Division

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2086 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

July 30, 1982

Mr. Owen Lopez Montgomery & Andrews Attorneys at Law Post Office Box 2307	Re:	ORDER	NO.R.	7622 -7044	
Santa Fe, New Mexico		Appli	cant:		
			El Ran	Inc.	
Dear Sir:					,
oivision order recently en			, 500		
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DR/fd					
JOE D. RAMEY Director JOR/fd Copy of order also sent to Jobbs OCO Artesia OCD Artesia OCD					

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 7622 Order No. R-7044

APPLICATION OF EL RAN, INC. FOR A WATERFLOOD PROJECT, CHAVES COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 21, 1982, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>28th</u> day of July, 1982, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, El Ran, Inc., seeks authority to institute a waterflood project in the Chaveroo-San Andres Pool by the injection of water into the perforated interval from 4169 feet to 4276 feet in its U. S. Well No. 1 located in Unit N of Section 34, Township 7 South, Range 32 East, NMPM, Chaves County, New Mexico, said injection to be through plastic-lined tubing set in a packer located at approximately 4100 feet.
- (3) That the wells in the proposed project are not in an advanced state of depletion and may not properly be classified as "stripper" wells.
- (4) That although the proposed project does not fit the definition of a waterflood project contained in Rule 701 F.l of the Division Rules and Regulations, it does fit the definition of a pressure maintenance project contained in Rule 701 E.l of the Division Rules and Regulations.

-2-Case No. 7622 Order No. R-7044

- (5) That the proposed project should be classified as a pressure maintenance project and, in accordance with Rule 701 E., project rules, including the allowable formula, promulgated therefor.
- (6) That the proposed pressure maintenance project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste, and will not impair correlative rights.
- (7) That the initial project area should comprise the following described lands in Chaves County, New Mexico:

TOWNSHIP 7 SOUTH, RANGE 32 EAST, NMPM Section 34: S/2

TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM Section 3: N/2

- (8) That the project area should be expanded upon completion of additional injection wells or producing wells in the San Andres formation which may be shown to be affected by the injection program.
- (9) That the project allowable should be equal to top unit allowable for the Chaveroo-San Andres Pool times the number of developed (production or injection) proration units within the project area.
- (10) That the transfer of allowable between wells on any given lease within the project area should be permitted.
- (11) 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 from injection, production, or plugged and abandoned wells.
- (12) That the injection well or injection pressurization system should be so equipped as to limit injection pressure at the wellhead to no more than 835 psi, but the Division Director should have authority to increase said pressure limitation, should circumstances warrant.
- (13) That the subject application should be approved and the project should be governed by the provisions of Rules 702 through 708 of the Division Rules and Regulations.

-3-Case No. 7622 Order No. R-7044

IT IS THEREFORE ORDERED:

- (1) That the applicant, El Ran, Inc., is hereby authorized to institute a pressure maintenance project in the Chaveroo-San Andres Pool by the injection of water into selected perforated intervals between the depths of 4169 feet and 4276 feet in its USA Well No. 1, located in Unit N of Section 34, Township 7 South, Range 32 East, NMPM, Chaves County, New Mexico.
- (2) That injection into said well shall be through internally coated tubing, set in a packer which shall be located at approximately 4100 feet; that the casing-tubing annulus of said injection well shall be loaded with an inert fluid and equipped with an approved pressure gauge or attention-attracting leak detection device.
- (3) That the operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the tubing or packer in any injection well, the leakage of water or oil from or around any producing well, or the leakage of water or oil from or around any plugged and abandoned well within the project area and shall take such timely steps as may be necessary or required to correct such failure or leakage.
- (4) That the injection well herein authorized and/or the injection pressurization system shall be so equipped as to limit injection pressure at the wellhead to no rare than 835 psi, provided however, the Division Director may authorize a higher surface injection pressure upon satisfactory showing that such pressure will not result in fracturing of the confining strata.
- (5) That the subject pressure maintenance project is hereby designated the El Ran Chaveroo Pressure Maintenance Project and shall be governed by Special Rules and by the provisions of Rules 701 through 708 of the Division Rules and Regulations.
- (6) That Special Rules and Regulations governing the operation of the El Ran Chaveroo Pressure Maintenance Project are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE EL RAN CHAVEROO PRESSURE MAINTENANCE PROJECT

Rule 1. That the initial project area shall comprise the following described lands in Chaves County, New Mexico:

-4-Case No. 7622 Order No. R-7044

TOWNSHIP 7 SOUTH, RANGE 32 EAST, NMPM Section 34: S/2

TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM Section 3: N/2

- Rule 2. That the project area may be expanded administratively by the Division Director upon completion of additional injection wells or production wells, provided it can be shown that such production wells are affected by the injection of water into the San Andres formation.
- Rule 3. The allowable for each lease within the project area shall be any amount up to and including a volume equal to the top unit allowable for the Chaveroo-San Andres Pool times the number of proration units in the project area on that lease.
- Rule 4. The allowable assigned to any given lease within the project area may be produced from any well or wells on that lease within the project area in any proportion.
- Rule 5. The Division Director is hereby authorized to approve such additional producing wells and injection wells at orthodox and unorthodox locations within the boundaries of the project area as may be necessary to complete an efficient production and injection pattern, provided said wells are drilled no closer than 330 feet to the outer boundary of the lease on which they are located nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary. To obtain such approval, the project operator shall file proper application with the Division, which application, if it seeks authorization to convert additional wells to injection or to drill additional production or injection wells shall include the following:
 - (a) A plat identifying the project area and the individual wells contained therein and showing the location of the proposed well, all wells within the unit area, and offset operators.
 - (b) A schematic drawing of any proposed injection well which fully describes the casing, tubing, packer, monitoring equipment, perforated interval, and depth.
 - (c) A letter stating that all offset operators to the proposed well have been furnished a complete copy of the application and the date of notification.

-5-Case No. 7622 Order No. R-7044

> Such other applicable requirements as may be contained in Rule 701 of the Division Rules and Regulations.

The Division Director may approve the proposed well if, within 20 days after receiving the application, no objection to the proposal is received. The Director may grant immediate approval, provided waivers of objection are received from all offset operators.

- That the pressure maintenance project herein authorized shall be governed by the provisions of Rules 702 through 708 of the Division Rules and Regulations.
- That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO dil conservation division

JOE D. RAMEY,

Director

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1. Name of	the injection formation	SAN ANORES		
2. Name of	Field or Pool (if appli	cable) Chaveroo		-
3. Is this	a new well drilled for	injection? / Yes	M No	
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WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: BYRON

WELL NO .: /-/

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter P, 60 FSL & 990' FE 6.

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 11/27/18 COMPLETION DATE: 12/28/
TOTAL DEPTH: 4325' PLUG BACK DEPTH: 4323'

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD + TOP OF CEMENT 1728' V. 600 SX 4324' V 1717 SX 85/8" SURFACE -

41/2" 3324 -

TUBING RECORD:

PACKER DEPTH . DEPTH 23/8" 4172

PERFORATIONS AND TREATMENT:

TREATMENT INTERVAL

Acidize W/ 600 gals. 20% HC1 4176 - 4294

POTENTIAL TEST:

DATE

BEFORE EXAMINER NUTTER OIL CONSERVATION DIVISION

El Kan EXHIBIT NO.

PRODUCTION

Pumped 83 BOLS OIL + O MIS WATE in 24 hours. 30 met

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: BURON

WELL NO .: 2

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter 0,660' FSL & 1980' FE.L

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FRE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 6-1-78

COMPLETION DATE: 6 26-78

TOTAL DEPTH: \$3/2' PLUG BACK DEPTH: \$306

. CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD + TOP OF CEMENT SIZE WEIGHT DEPTH 41/2" 9.5 \$312' 1250 SX SURFACE

TUBING RECORD:

PACKER DEPTH. DEPTH 4260

PERFORATIONS AND TREATMENT:

INTERVAL 4160' - 1258"

TREATMENT Acidize W/ 6000 gals. 20% HCI

POTENTIAL TEST:

DATE

6-27-78

PRODUCTION

Pumped 45,0045 on + 85,0045 -2000 in 24 hours. mc+-26

WELLS WITHIN AREA OF REVIEW (MILC RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: BYRON WELL NO .: 3

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter J, 1980 FEL & 1650 FSL

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 12-1-18 COMPLETION DATE: 1-1-79

TOTAL DEPTH: \$343' PLUG BACK DEPTH: \$332."

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD & TOP OF CEMENT 85/8" 24" 1755' 600 Sx- - SURFACE 41/2" 10.5 4342" 1755X - 3342

TUBING RECORD:

SIZE DEPTH PACKER DEPTH.

PERFORATIONS AND TREATMENT:

INTERVAL

4/64'-4297'

Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE

1-4-79

PRODUCTION

Pumped 83 ABLS DIL +D BBG WATER

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: BYRUN WELL NO .: 4

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter I, 990' FEL & 1650' FSL

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 5-4-79 COMPLETION DATE: 5-15-19
TOTAL DEPTH: \$335' PLUG BACK DEPTH: \$323'

. CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD & TOP OF CEMENT 85/8" 24" 1702' SSO SK SURFACE -4324' 1755x 3324 41/2"

TUBING RECORD:

PACKER DEPTH. SIZE 4190

PERFORATIONS AND TREATMENT:

TREATMENT INTERVAL 4213- 1293" Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE 5-15-19

PRODUCTION

Pumped 91 BBLS OIL + OBBLS 12 IN 24 hours. 610 met

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: DACHNER WELL NO .: 2

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter F, 165D FNL & 2200 F.WL

Sec. 3, T85, R32E, Chaves County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 10/4/79 COMPLETION DATE: 10/22/79
TOTAL DEPTH: 4309' PLUG BACK DEPTH: 4307'

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD + TOP OF CEMENT 1692' 55P SY 85/8" 24* SURFACE 41/2" 10.5 4308' 175 sx 3308

TUBING RECORD:

PACKER DEPTH. SIZE DEPTH

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT 1/87' t 4272' Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE 10/20/19 PRODUCTION

Pumped 125 BELS of DIL + O BBLS & IN 24 hours.

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: DACHNER

WELL NO .: &

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter D, WO FWL & UD'FNL.

Sec. 3, T85, R32E, Chaves County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 3/17/80 COMPLETION DATE: 4/8/80 TOTAL DEPTH: \$396' PLUG BACK DEPTH: \$395

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD + TOP OF CEMENT

24# 1683' 600 5x Surface

41/2" 10.5 \$395' 175.5% 33.95

TUBING RECORD:

DEPTH PACKER DEPTH. SIZE

23/8" \$320.

PERFORATIONS AND TREATMENT:

INTERVAL

4212 - 4390" Acidize W/ 6000 gals. 20% HCI

POTENTIAL TEST:

DATE

PRODUCTION

Pumped 79 6815 012 + 10 8815 62

in 24 hours.

WELLS WIFHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ron, Inc.

LEASE NAME: FEDERAL

WELL NO. : /

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter J, 440 ft from N 4 NE +2200 ft from W

Sec. 3, T85, R32E, Chaves County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 8-15-19

COMPLETION DATE: 8-28-79

TOTAL DEPTH: 1298' PLUG BACK DEPTH: 1296!

CASING RECORD:

CEMENTING RECORD + TOP OF CEMENT

SIZE WEIGHT DEPTH CEMENTING RECORD

85/8" 24" 1710' SSD SX SER CIRC

41/2" 10.5 4310' 175, Sx 3295

called in 7/21.

TUBING RECORD:

PACKER DEPTH . DEPTH

1276.

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT

\$212 - 1276 Acidize W/ 6000 gals. 20% HCI

POTENTIAL TEST:

DATE

8-29-79

PRODUCTION

Pumped 101 BUS DIL + O BRES WATER in 24 hours.

WELLS WITHIN AREA OF REVIEW (MILE RADIUS)

OPERATOR: El Ron, Inc.

LEASE NAME: ROBERTS

WELL NO .: /

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter 8, 1980 FEL & 40 FNL

Sec. 3, T85, R32E, Chaves County, New Mexico

TYPE OF LEASE: FEE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

COMPLETION DATE: 11/1/18

SPUD DATE: 10/17/78 COMPLETION DATE: 11/1/ TOTAL DEPTH: 4330' PLUG BACK DEPTH: 4337'

CASING RECORD:

CEMENTING RECORD + TOP OF CEMEN SIZE WEIGHT DEPTH 600 SX - SURFACE

41/2" 10.5 4327 175,51 3320

TUBING RECORD:

PACKER DEPTH.

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT

4177- 4269" Acidize W/ 6000 gals. 20% HCI

POTENTIAL TEST:

DATE

11-2-18

PRODUCTION

Pumped 91 BBLS OIL + 9 BBLS WATER in 24 hours.

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: ROBERTS

WELL NO.: 2

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter A, 440 FNL & 990 FEL

Sec. 3, T85, R32E, Choves County, New Mexico

TYPE OF LEASE: Fee

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 2-2-79 COMPLETION DATE: 2-10-79.
TOTAL DEPTH: \$333' PLUG BACK DEPTH: \$332'

. CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD 85/8" 24 1725, 600 SX - SURFACE CEMENTING RECORD + TOP OF CEMEN

41/2" 9.5 4332 200 51 - 3300

TUBING RECORD:

DEPTH PACKER DEPTH 4180'.

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT

4192 - 4302 Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE

2-10-79

PRODUCTION

Pumped 88 BBIS DIL + O BBIS WATER in 24 hours. met 10

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: ROBERTS

WELL NO .: \$

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter G, 1980' FEL & 1650' FN/

Sec. 3, T85, R32E, Chaves County, New Mexico

TYPE OF LEASE: Fee

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 8-23-79 COMPLETION DATE: 9-5-79.
TOTAL DEPTH: 43/2' PLUG BACK DEPTH: 4283'

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD + TOP OF CEMENT 550 ST SURFACE 24 1667 10.5 \$311' - 3450 175,5%

TUBING RECORD:

PACKER DEPTH . SIZE DEPTH 4225

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT 4180' - 4274 Acidize W/ 6000 gals. 20% HCI

POTENTIAL TEST:

DATE 9-4-19 PRODUCTION

Pumped 97 BOLS OIL + O BBLS WATER

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: 4 5.

WELL NO .: 2

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter K, 1650' FSL x 2310 FWL

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 5-10-79

COMPLETION DATE: 6-1-79

TOTAL DEPTH: \$327' COMPLETION DATE: 6-1-

CASING RECORD:

CEMENTING RECORD & TOP OF CEMENT SIZE WEIGHT DEPTH

1702' - 5503x. SURFACE

41/2" 10.5# 4322' 175.5x 3322

TUBING RECORD:

PACKER DEPTH DEPTH SIZE

t254.

PERFORATIONS AND TREATMENT:

INTERVAL

4174 - 4302 Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE

6-1-79

PRODUCTION

Pumped 94 BBLS OIL + 0 BBLS WETER

IN 24 hours. 788 met

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: U.S:

WELL NO .: 4

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter & , 1650 FSL & 990 FWL.

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEDERA!

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 9/15/80 COMPLETION DATE: 10/7/80

TOTAL DEPTH: 4262' PLUG BACK DEPTH: 4360

CASING RECORD:

CEMENTING RECORD + TOP OF CEMENT SIZE WEIGHT DEPTH 85/8" . 23 F 1712' & 5/5 5x SURFACE 41/2" 10.5# 4362' 175.5x 3362

TUBING RECORD:

PACKER DEPTH . SIZE 4292

PERFORATIONS AND TREATMENT:

TREATMENT INTERVAL Acidize W/ 6000 gals. 20% HC1 4209- +288

POTENTIAL TEST:

DATE

10/1/10

PRODUCTION

Pumped 45 8865 BIL + 22 8865 WAR IN 24 hours.

Proposed Operation

El Ran, Inc. proposes to utilize this injection well to dispose of water produced from the following leases operated by El Ran, Inc.: Byron, U. S., Dachner, Federal, Carroll, Sarah, Roberts, Barton and Yeager.

Present water production from the above leases is approximately 400 BBL which is the porposed average volume to be injected. Maximum anticipated volume would be 500 BBL per day. Average injection rate will be one barrel per minute at 400%. Maximum anticipated rate is one and one-half barrel per minute at 700%. This proposal is to re-inject water produced from the San Andres formation back into the San Andres formation. This will be a closed system.

VIII

Geological Data

The injection zone in this proposed well is the San Andres formation which is composed of dolomite. The gross thickness of the injection zone is 107 feet with perforations from 4169' to 4276'. The top of the San Andres formation in the proposed injection well is 3450' and the well was still in the San Andres at 4311' total depth.

The depth to the bottom of the underground source of drinking water would be 380', which is the base of the Tertiary formations in this well.

IX

Proposed Stimulation

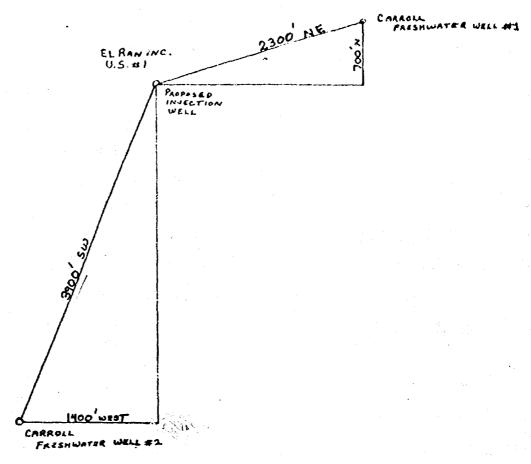
The San Andres zone (4169'-4276') in the U.S. #1 has been stimulated with 6000 gals. of acid. We do not plan on any other stimulation except for occasional small acid jobs to clear any scaling that might occur.

X

Well logs have been filed with the Division.

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EI Ram EXHIBIT NO. 4
CASE NO. 7622

There are two fresh water wells within a one mile radius of this proposed injection well. The location of the wells is shown below. The water wells are pumped by electric pumps and the water is used for livestock consumption. Water analysis of the two wells are enclosed.



IIX

El Ran, Inc. geological and engineering personnel have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

William W. Ranck

Geological Engineer



TRETOLITE DIVISION

369 Marchall Avenue / Saint Laure, Misseuli 63119 (314) WO 1-3500/TWX 910-760-1660/Teles 44-2417

WATER ANALYSIS REPORT

JRCE <u>Carrol 12 F.h.V.</u> Analysis					ABIAINCIC	
Analysis		_DATE SAM	APLED	5/24/82	ANALYSIS	
			.)	Mg/L	*Meq/L	
1. pH						
2. H ₂ S (Qualitative) Neg.	•					
3. Specific Gravity 1,000				;	•	
4. Dissolved Solids			1386		•	
5. Suspended Solids						
6. Phenolphtholein Alkalinity (CaCO3)				* ****		
7. Methyl Orange Alkalinity (CaCO3)			580_			
8. Bicarbonate (HCO ₃)		HCO,	707	÷61	12	нсо,
9. Chlorides (CI)		CI .	_67	÷ 35.5		CI
10. Sulfates (SO4)		so,	175	÷48	4	so,
11. Colcium (Co)		Ca	-80	÷20	_4	Co
12. Magnesium (Mn)		Mg .	12	÷12.2	_1	Мд
13. Total Hardness (CaCO ₂)			250			•
14. Total from (Fe)				 -		
15. Bazium (Qualitative)						
16. Strontium *Milli equivolents per liter						
16. Strontium *Milli equivolents per liter PROBABLI	E MINER				S Mag/l	- Ma/l
*Milli equivolents per liter PROBABLI Ca HCO ₈	7	Compound	· · · · · · · · · · · · · · · · · · ·	Equiv. Wt.)	C Meq/L	= Mg/L 324
*Milli equivolents per liter PROBABLE Ca HCO ₈ 12		Compound	· · · · · · · · · · · · · · · · · · ·	Equiv. Wt.) 81.04		= Mg/L 324
*Milli equivolents per liter PROBABLE PROBABLE Ag SO4 Ag PROBABLE PRO		Compound Ca (HCO ₃)	· · · · · · · · · · · · · · · · · · ·	Equiv. Wt. 3 81.04 68.07	_4	324
*Milli equivolents per liter PROBABLE PROBABLE Ag No Ca HCO ₈ 12 4 13 No CI 2		Compound Ca (HCO ₈) Ca SO ₄ Ca Cl ₂	2	Equiv. Wt. 3 81.04 68.07 55.50	_4	324
*Milli equivolents per liter PROBABLE PROBABLE Ag SO4 Ag PROBABLE PRO		Compound Ca (HCO ₃)	2	Equiv. Wt. 3 81.04 68.07	_4 0- 0-	324
*Milli equivolents per liter PROBABLE PROBABLE Ag No CI Saturation Values Distilled Water 20°C		Compound Ca (HCO ₈) Ca SO ₄ Ca Cl ₂ Mg (HCO ₈)	2	Equiv. Wt. 3 81.04 68.07 55.50 73.17		
*Milli equivolents per liter PROBABLE Age HCO3 Mg SO4 Age CI Saturation Values Distilled Water 20°C Ca CO3 13 Mg/L		Compound Ca (HCO ₈) Ca SO ₄ Ca Cl ₂ Mg (HCO ₃) Mg SO ₄	2	Equiv. Wt. 3 81.04 68.07 55.50 73.17		324
*Milli equivolents per liter PROBABLE Ag Ag No Sol Ag Saturation Values Ca CO3 13 Mg/L Ca SO4 * 2H2O 2,090 Mg/L		Compound Ca (HCO ₈) Ca SO ₄ Ca Cl ₂ Mg (HCO ₈) Mg SO ₄	2	81.04 68.07 55.50 73.17 60.19		324 -0- -0- 73 -0- -0-
*Milli equivolents per liter PROBABLE Ag Ag No Sol Ag Saturation Values Ca CO3 13 Mg/L Ca SO4 * 2H2O 2,090 Mg/L		Compound Ca (HCO ₈) Ca SO ₄ Ca Cl ₂ Mg (HCO ₈) Mg 5O ₄ Mg Cl ₂ Na HCO ₈	2	81.04 68.07 55.50 73.17 60.19 47.62 84.00		324 -0- -0- 73 -0- -588



TRETOLITE DIVISION
369 Marrhall Arrave / Strat Louis, Missouri 63319
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

WATER ANALYSIS REPORT

RESSE Attn: Bray Cooter El Ean, I	nc ADDRESS_	Tatum	121		5/26/82
RCE Carrol Il F.V.W.	DATE SAM	PLED 5/24/	82	ANALYSIS NO	
Analysis		Mg/L		*Meq/L	
1. pH					
2. H2S (Qualitative) Neg.					'
3. Specific Gravity 1.000	-				
4. Dissolved Solids	***	3,396		•	
5. Suspended Solids	· 				
ó. Phenolphihalein Alkalinity (CoCO,)	_				
7. Methyl Orange Alkalinity (CaCO ₃)	~ 	410			
8. Bicarbonate (HCO ₃)	HCO ₁ ~	500	-:-61	8	нсо
9. Chlorides (CI)	Cl	711	÷ 35.5		CI
10. Sulfates (SO ₄)		1750	÷ 48	36	so,
11. Calcium (Ca)		528	÷20	16	Co
12. Magnesium (Mg)	Mg	514	÷ 12.2	42	Mg
13. Total Hardness (CaCO ₃)		3700			
14. Total Iron (Fe)					
15. Barium (Qualitative)					
16. Strontium					
*Milli equivalents per liter					
PROBABLE MI	NERAL COMP	OSITION			
	Compound	Equiv.	₩ı. x	Meq/L	= Mg/L
Co ← HCO ₃	Ca (HCO ₃) ₂		04	-8	648
32 Mg	Ca \$O _a	68.	07	_8	545
6 No CI 20	Ca Cl ₂	5 <i>5.</i> .	50	0	
	Mg (HCO3);	, 73.	1 7	_0_	
Saturation Values - Distilled Water 20°C Ca CO ₃ - 13 Mg/L	Mg SO4	60.	9	_28	1685
Co SO, • 2H ₂ O 2,090 Mg/L	Mg Cl ₂	47.6	32	_14	667_
Mg CO ₃ 103 Mg/L	No HCO3	84.0	00 -	0	
	No ₂ 504	71.0	13		
	Na Cl	58.4		_6	351_
ARKS <u>cc: file</u>					

Respectfully submitted TRETOUTE COMPANY

Cale Blackmil

PETRO-CHEM 1111 Spring Car Highway - > O B - 1867 Midland, Texas 79701

(915) 687 6786 - 694 4396

RECEIVED JUL

API WATER ANALYSIS REPORT FORM

	API WATER ANALYSIS	Sumple No	Tinte Sampled
Company El. RAN,	INC.	County or Par	i ish State
Field	Legal Description	ith Parination	Water, Billi
Lease or Unit	Well 1 Sampling Point		Sampled By
Type of Water (Produced,	Supply, etc.)	OTHER PROPER	D. Cox

DISSOLVED SOLIDS

DISSOLVED SOURCE		me/l
CATIONS	mp/1 42,820	1,862
Sodium, Na (calc.)	39,600	1,980
Calcium, Ca Magnesium, Mg	10,980	900_
Barium, Ba	ND	

ANIONS

VNIONS	168.185	4,738
Chloride, Cl	200-	4
Julius, 80.	0	0
Carbonate, COs	0	0.
Bicarbonate, HCOa		
	,	

Total Dissolved Solids (calc.)

261,785

16.50 Iron, Fe (total) Present Sulfide, as HaS

	7.060
рН	1.195
Specific Gravity, 60/60 F.	77.033
Resistivity (olim-meters) 11F. Total Bardness, CaCO3	144,000
Total Alkalinity, CaCO3	and the second second second
Supersaturation, CaCO3	

WATER PATTERNS -- me/l

			STAN	DARD				
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REMARKS & RECOMMENDATIONS:

Calcium Sulfate Scaling Potential - Nil Calcium Carbonate Stability Index:

Severe Scaling indicated at all temperatures.

BEFORE EXAMINER NUTTER OIL CONSERVATION DIVISION Lan EXHIBIT NO. J

Dockets Nos. 25-82 and 26-82 are tentatively set for August 4 and August 18, 1982. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 21, 1982

9 A.M. - MORGAN HALL, CIL CONSERVATION DIVISION, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO.

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

- ALLOWABLE: (1) Consideration of the allowable production of gas for August, 1982, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
 - (2) Consideration of the allowable production of gas for August, 1982, from four provated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.
- CASE 7560: (Continued from July 7, 1982, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Charles H. Heisen, Fidelity and Deposit Company of Maryland, Surety, and all other interested parties to appear and show cause why the Crownpoint Well No. 1, located in Unit F, Section 18, Township 18 North, Range 13 West, McKinley County, should not be plugged and abandoned in occordance with a Division-approved plugging program.

CASE 7599: (Continued from June 9, 1982, Examiner Hearing)

Application of Barber Oil Inc. for an Exception to Rule 705-A Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the provisions of Rule 705-A of the Division Rules and Regulations to permit 37 temporarily abandoned injection wells in its Russell Pool waterflood project to remain inactive for a period of up to three years without the required cement or bridge plugs being installed therein to isolate the injection zone.

- CASE 7622: Application of El Ran, Inc. for a waterflood project, Chaves County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Chaveroo-San Andres Pool by the injection of water into the perforated interval from 4169 feet to 4276 feet in its U. S. Well No. 1, located in Unit N of Section 34, Township 7 South, Range 32 East.
- CASE 7516: (Continued from May 12, 1982, Examiner Hearing)

Application of Benson-Montin-Greer for a unit agreement, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the North Canada Ojitos Unit Area, comprising 12,361 acres, more or less, of Jicarilla Apache Indian lands in Township 27 North, Range 1 West.

- CASE 7623: Application of C & K Petroleum, Inc. for compulsory pooling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Abo
 formation underlying the SE/4 SE/4 of Section 28, Township 16 South, Range 37 East, to be
 dedicated to a well to be drilled at a standard location thereon. 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, designation of the applicant as
 operator of the well, and a charge for risk involved in drilling said well.
- CASE 7620: (Continued from July 7, 1982, Examiner Hearing)

Application of Mesa Petroleum Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in all formations from the surface through the base of the Abo formation underlying the SW/4 of Section 8, Township 5 South, Range 25 East, to be dedicated to a well to be drilled at a standard location thereon. 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7624: Application of John Yuronka for an unorthodox gas well location and compulsory pooling, Lea County, New Merico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Jalmat Gas Pool underlying the SW/4 of Section 31, Township 22 South, Range 37 East, to form a non-standard gas provation unit to be dedicated to a well to be drilled at an unorthodox location 990 feet from the South line and 330 feet from the West line of said Section 31. 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

(Readvertised) CASE /618:

Application of Doyle Hartman for an unorthodox gas well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a gas well to be drilled 1450 feet from the South line and 1980 feet from the East line of Section 20, Township 30 South, Range 37 East, Eumont Gas Pool, the SE/4 of said Section 20 to be simultaneously dedicated to said well and to the State A-20 Well No. 1 located in Unit I of said Section 20.

- CASE 7625: Application of GMW Corp. for designation of a tight formation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Pawnee Strayn Reservoir underlying Sections 9 and 10, 14 thru 16, 21 thru 24, and 26 and 27, Township 26 South, Range 36 East, containing 7,040 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271. 701-705.
- In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, contracting, and extending certain pools in Rio Arriba, San Juan, McKinley, and Sandoval Counties, New Mexico.
 - (a) That the Otero-Gallup Oil Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby contracted by excluding.

TOWNSHIP 25 NORTH, RANGE 5 WEST, NMPM Section 35: W/2 SW/4

(b) That a new pool in Rio Arriba County, New Mexico, classified as a Chacra Pool for gas production, is hereby created and designated the Adobe-Chacra Pool, comprising the following described area:

> TOWNSHIP 24 NORTH, RANGE 4 WEST, NMPM Section 13: 5/2 24: E/2

(c) That a new pool in San Juan County, New Mexico, classified as a Gallup Fool for oil production, is hereby created and designated the Armenta-Gallup Oil Pool, comprising the following described area:

TOWNSHIP 29 NORTH, RANGE 10 WEST, NAPH Sections 26; SW/4

27: 5/2

28: E/2 SW/4 and SE/4

33: E/2 NW/4 and NE/4

34: N/2

35: N/2 and N/2 SE/4

(d) That a new pool in San Juan County, New Mexico, classified as a gas pool for Fruitland production, is hereby created and designated the Glades-Fruitland Pool, comprising the following described area:

TOWNSHIP 32 NORTH, RANGE 11 WEST, NMPM Section 31: YM/4

TOWNSHIP 32 NORTH, RANGE 12 HEST, NMPH Sections 35: N/2 and SE/4 36: N/2 and SW/4

(e) That a new pool in Sandoval County, New Mexico, classified as a Mancos pool for oil production, is hereby created and designated the San Ysidro-Mancos Oil Pool, comprising the following described area:

> TOWNSHIP 21 MORTH, RANGE 3 WEST, NMPM Section 29: S/2 SW/4 30: E/2 E/2 and SW/4 SE/4

(f) That the Albino-Pictured Cliffs Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 32 NORTH, RANGE 8 WEST, NMPH

Sections 11: S/2

13: W/2 and NE/4

14: E/2 and SW/4

26: NE/4

TOWNSHIP 32 NORTH, RANGE 7 WEST, NMPM Section 18: NM/4

That the Angel Peak-Gallup Associated Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

THE THEORY OF THE OWNER OF THE PROPERTY OF THE

TOWNSHIP 27 NORTH, RANGE 10 WEST, NMPH

Sections 22: All 27: N/2

Page 3 of 10 Examiner Hearing - Wednesday - July 21, 1982

(h) That the Aztec-Fruitland Fool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

> TOWNSHIP 28 NORTH, RANGE 10 WEST, NMFM Section 9: SE/4

> TOWNSHIP 29 NORTH, PANGE 11 WEST, PHEP Sections 25: SE/4 33: N/2

(i) That the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 31 HORTH, RANGE 12 WEST, NMPM Sections 14: 5E/4 35: NE/4

(j) That the B S Mesa Gallup Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 26 NORTH, RANGE 4 WEST, NMFM Section 9: W/2 and SE/4

(k) That the Ballard-Pictured Cliffs Pool in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 23 NORTH, RANGE 3 WEST, NMFM Sections 25: All 36: N/2

TOWNSHIP 24 NORTH, RANGE 5 WEST, NMPM Sections 6: NW/4 16: SE/4

TOWNSHIP 25 NORTH, RANGE 6 WEST, NMPM Sections 27: SW/4 34: N/2 35: NW/4

TOWNSHIP 26 NORTH, RANGE ? WEST, NMPM Section 19: N/2 and SE/4

TOWNSHIP 26 NORTH, RANGE 8 WEST, NMFM Sections 9: SE/4
10: All
15: NE/4

(i) That the Bisti-Parmington Fool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM Section 3: SW/4

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPN Sections 31: E/2
32: All

(m) That the Bisti-Lower Gallup Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 24 NORTH, RANGE 10 WEST, NMPH Section 9: N/2 : MM/4

(n) That the Blanco Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 25 NORTH, RANGE 3 WEST, NMPM
Sections 8: E/2
16: All
17: All
20: N/2
21: W/2

TOWNSHIP 25 NORTH, RANGE 5 WEST, NHPM Sections 1: All

2: All

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM Sections 17: W/2

16: E/2 20: W/2

27: S/2

TOWNSHIP 26 MORTH, RANGE 6 WEST, NAPH Sections 23: All

24: W/2

TOWNSHIP 27 NORTH, NANGE 9 WEST, NMPM Section 6: E/2

YOWNSHIP 29 NORTH, PANGE 10 WEST, HMPM Sections 7: All 15: H/2

18: All

19: All

36: A11

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMFM Sections 1, 12, 13, 24, 25: All

TOWNSHIP 30 NORTH, RANGE 11 WEST, NMPM Sections 8: All 9: All

TOWNSHIP 31 NORTH, RANGE 5 WEST, NMPM Sections 7: All 8: W/2

YOWNSHIP 31 MORTH, RANGE 12 WEST, NMPM Section 31: All

(o) That the Blanco-Pictured Cliffs Pool in Rio Arriba, San Juan, and Sandoval Counties, New Mexico, as heretofore classified, defined and described, is hereby extended to

TOWNSHIP 28 NORTH, PANGE 7 WEST, NMPM Section 8: All

TOWNSHIP 29 NORTH, RANGE 7 WEST, NMPM Section 31: SE/4

TOWNSHIP 30 NORTH, RANGE 8 WEST, NMPM Section 20: S/2

TOWNSHIP 31 NORTH, RANGE 10 WEST, NINPM Section 25: NW/4

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPH Section 29: NE/4

TOWNSHIP 32 NORTH, RANGE 11 WEST, NHPH Section 10: W/2

TOWNSHIP 32 NORTH, RANGE 12 WEST, NMPM Sections 15: S/2 35: NW/4

(p) That the East Blanco-Pictured Cliffs Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 30 NORTH, RANGE 4 WEST, NEPM

Sections 11: SE/4 14: E/2

26: W/2

35: NW/4

(q) That the South Blanco-Pictured Cliffs Pool in Rio Arriba, Sandoval, and San Juan Counties, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 24 NORTH, RANGE 1 WEST, LMPM Sections 17: SW/4 18: W/2

TOWNSHIP 26 NORTH, RANGE 7 WEST, NAPH Section 17: SE/4

TOWNSHIP 26 NORTH, RANGE 8 WEST, NMPM

Sections 3: S/2 and NW/4

4: SE/4

TOWNSHIP 28 NORTH, RANGE 7 WEST, NIMPM

Logistic reasons as a class relational deal of the made along the title

Sections 10: All 11: All 15: NW/4

(r) That the Bloomfield-Charry Pool in San Juan County, New Mexico, as meretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 29 NORTH, RANGS 10 WEST, NMPM Section 30: M/2

TOWNSHIP 29 NORTH, PANGE 11 WEST, NMPH Sections 20: W/2

25: SE/4

28: 5/2

29: All 301 NE/4

31: N/2

32: N/2

33: N/2 and SE/4

(s) That the Bloomfield-Farmington Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 29 NORTH, RANGE 11 MEST, NMPM Sections 25: SW/4 26: SE/4 SE/4

(t) That the Cha-Cha-Gallup Oil Pool in San Juan County, New Mexico, as heretefore classified, defined and described, is hereby extended to include:

TOWNSHIP 28 NORTH, MANGE 13 WEST, NMPM Section 22: W/2 SW/4

TOWNSHIP 29 NORTH, RANGE 14 WEST, NMPM Sections 7: S/2 SW/4

TOWNSHIP 29 NORTH, RANGE 15 WEST, NMPM

Sections 1: S/2 SW/4

13: NW/4

(u) That the Chacon-Dakota Associated Pool in Rio Arriba and Sandoval Counties, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 22 NORTH, RANGE 2 WEST, NMPM

Section 7: SW/4

TOWNSHIP 22 NORTH, RANGE 3 WEST, NEPH

Sections 1: E/2

3: NW/4

10: E/2

11: All 12: All

TOWNSHIP 23 NORTH, RANGE 3 WEST, NPPM Sections 2: W/2

11: NE/4

36: SW/4

TOWNSHIP 24 NORTH, PANGE 3 WEST, NMPM

Sections 15: SW/4

16: E/2 and NW/4

22: NW/4

26: NW/4 27: NE/4

(v) That the Choza Mesa-Pictured Cliffs Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 29 NORTH, RANGE 3 WEST, NUMPH

Section 29: SW/4

(w) That the Crouch Mesa-Mesaverds Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 29 NORTH, RANGE 11 WEST, NAPH

Section 6: SE/4

(x) That the Cuervo-Gallup Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 24 NORTH, RANGE 8 WEST, NMPM

Section 20: SW/4 SW/4

(y) That the Dufers Point Gallup-Dakota Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 24 NORTH, RANGE 8 WEST, NMPM Sections 3: S/2 SW/4

4: S/2 SE/4

(z) That the Farmer-Fruitland Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP TO NORTH, RANGE II WEST, NMPM Sections 8: All 9: W/2

(aa) That the Flora Vista-Fruitland Pool in San Juan County, New Nexico, as heretofore classified, defined and described, is Noveby extended to include:

TOWNSHIP 31 NORTH, RANGE 12 WEST, NMPM Section 34: SE/4

TOWNSHIP 30 NORTH, RANGE 12 HEST, NMPM Section 15: NW/4

(bb) That the Flora Vista-Gallup Pool in San Juan County, New Mexico, as he-etofore classified, defined and described, is hereby extended to include:

TOWNSHIP 30 NORTH, RANGE 12 WEST, NMPM Sections 5: N/2 6: NE/4

11: NW/4

(cc) That the Fulcher Kutz-Pictured Cliffs Pool in San Juan County, New Mexico. as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 27 NORTH, RANGE 11 WEST, FMPM Sections 1: W/2 12: W/2

TOWNSHIP 28 NORTH, RANGE 11 WEST, NMPM Section 36: W/2

(dd) That the South Gallegos Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 26 NORTH, RANGE 11 WEST, NMPM Section 18: NE/4

(es) That the Gallegos-Gallup Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 26 NORTH, RANGE 11 WEST, NMPM Section 12: SW/4

(ff) That the Gobernador-Pictured Cliffs Pool in Rio Arriba County, New Maxico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 29 NORTH, RANGE 5 WEST, NMPH

Sections 4: SW/4

9: NE/4

15: NE/4

25: NE/4

26: NE/4

TOWNSHIP 30 NORTH, RANGE 5 WEST, NMPM Section 34: SW/4

(99) That the Gonzales-Mesavezde Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 25 NORTH, RANGE 5 WEST, NHPM Sections 4: E/2 and NW/4

9: NE/4

10: All

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM

Sections 31: NW/4 32: SE/4

33: W/2

(hh) That the Harris Mesa-Chacra Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPM Sections 5: NM/4

6: NE/4

TOWNSHIP 28 NORTH, RANGE 9 WEST, NMPM Sections 19: SE/4

29: NW/4

30: NE/4

(ii) That the Horseshoe-Gallup Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 30 NORTH, RANGE 15 WEST, EMPM Section 19: N/2 SW/4

(jj) That the Hospah-Dakota Oil Pool in McKinley County, New Mexico, as heretofore, classified, defined and described, is hereby extended to include:

IOWNSHIP 17 NORTH, MANGE 8 WEST, NHPM Section 6: SW/4 SE/4

(kk) That the West Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 26 NORTH, RANGE 11 WEST, NMPM Section 3: NM/4

TOWNSHIP 27 NORTH, RANGE 11 WEST, NHPM Sections 11: W/2

29: W/2

30: All

31: All

32: NA/4

33: All

34: W/2

TOWNSHIP 28 HORTH, RANGE 11 WEST, NMPM

Sections 34: NE/4 35: All

(11) That the Largo-Chacra Pool in Rio Arriba and San Juan Counties, New Mexico,

as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 27 NORTH, RANGE 7 WEST, NAPH Section 22: NE/4

TOWNSHIP 27 NORTH, RANGE 8 WEST, NMPM Sections 2: SW/4

That the South Lindrith Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include:

TOWNSHIP 23 NORTH, RANGE 4 WEST, NMPM Section 3: NW/4 NE/4

TOWNSHIP 24 NORTH, RANGE 4 WEST, NMPM

Sections 27: S/2 S/2

28: SE/4

33: E/2

34: All

(nn) That the West Lindrith Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM

Section 6: N/2

TOWNSHIP 24 NORTH, RANGE 4 WEST, NHPM

Sections 10: SW/4 14: SE/4

36: NE/4

TOWNSHIP 25 NORTH, RANGE 4 WEST, NMPM

Sections 14: SE/4 15: NE/4

35: E/2

TOWNSHIP 25 NORTH, RANGE 5 WEST, NMPM

Section 35: SW/4

(oo) That the North Los Pinos-Fruitland Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 32 NORTH, RANGE 8 WEST, NMPM Section 23: N/2

(pp) That the South Los Pinos Pruitland-Pictured Cliffs Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

<u> 1900-le de la company de</u>

TOWNSHIP 31 NORTH, RANGE 7 WEST, NMPH

Sections 7: SE/4 10: SW/4

12: W/2

TOWNSHIP 32 NORTH, RANGE 7 WEST, NMFM

Sections 26: SW/4 27: SE/4

34: NE/4

36: MM/4 Page 8 of 10 Examiner Hearing - Wednesday- July 21, 1982

> (qq) That the Lybrock-Gallup Oil Pool in Ric Arriba and Sandoval Counties, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 23 NORTH, RANGE 6 WEST, NMPM Section 29: E/2 NW/4

TOWNSHIP 23 NORTH, RANGE 7 WEST, NMPM Sections 2: W/2 NW/4 6: NE/4 SE/4

9: 11/2 58/4

TOWNSHIP 24 HORTH, RANGE 8 WEST, NMPM

Sections 22: SE/4 SE/4

25: SE/4 NW/4, SW/4 NE/4, and NW/4 SE/4

26: NW/4, W/Z NE/4, and NE/4 SE/4

27: N/2, N/2 SW/4, and NW/4 SE/4

(rr) That the Marcelina-Dakota Oil Pool in McKinley County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 16 NORTH, RANGE 10 WEST, NADA Section 13: 5/2 SE/4

(ss) That the Meadows-Gallup Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 29 NORTH, RANGE 15 WEST, NMPM Sections 2: SW/4 SW/4

3: NW/4,NE/4 SW/4, N/2 SE/4 and SE/4 SE/4

4: NE/4 and NW/4 SE/4

10: NE/4 NE/4

TOWNSHIP 30 NORTH, RANGE 15 WEST, HMPM
Sections 28: SW/4 SW/4
29: SE/4 SE/4
33: N/2 NW/4 and SE/4 NW/4

(tt) That the Miguel Creek-Gallup Oil Pool in McKinley County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 16 NORTH, RANGE 6 WEST, NMPM

Sections 20: S/2 NE/4 21: W/2 SW/4 and NE/4 SW/4

28: SW/4 NW/4

(uu) That the Mt. Nebo-Fruitland Pool in San Juan County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include:

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM

Sections: 28: NW/4

¢

29: E/2

32: NE/4

(vv) That the Ojito Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, as heratofore classified, defined and described, is hereby extended to include:

TOWNSHIP 25 NC 1, RANGE 3 WEST NMPM
Sections 7: W/2
18: W/2 and NE/4
20: N/2

21: W/2 NW/4

(ww) That the Otero-Chacra Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 25 NORTH, RANGE 5 WEST NIPH

SW/4 Sections 13:

14: SE/4

23: NE/4

34: 5/2

35: SW/4

36: SE/4

TOWNSHIP 25 NORTH, RANGE 6 WEST, NMPM Sections 21: SW/4

26: NW/4

TOWNSHIP 26 NORTH, RANGE 6 WEST, HMPM

Sections 24: SW/4 25: NW/4

TOWNSHIP 26 NORTH, RANGE 7 WEST, HMPM

Sections 2: W/2 15: NE/4

TOWNSHIP 27 NORTH, RANGE 7 WEST, NMPM

Sections 34: S/2

35: W/2

(xx) That the Otero-Gallup Oil Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 24 NORTH, RANGE 5 WEST, NMPM

Section 3: N/2 NE/4

(yy) That the North Pinon-Fruitland Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is nereby extended to include:

TOWNSHIP 28 NORTH, RANGE 12 WEST, NMPM

Sections 9: All

16: NE/4

(22) That the Pinon-Gallup Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 28 NORTH, RANGE 12 WEST, NMPH

Section 13: W/2 NW/4

(aaa) That the Potwin-Pictured Cliffs Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 24 NORTH, RANGE 8 WEST, NHPM

Section 8: NE/4

(bbb) That the Ute Dome-Dakota Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 32 NORTH, RANGE 13 WEST, NMPM

Section 31: N/2

(ccc) That the Ute Dome-Paradox Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 32 NORTH, RANGE 13 WEST; NMPM

Section 19: All

(ddd) That the WAW Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

MOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM

Section 5: NE/4

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM

Section 9: S/2

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM

Section 25: NE/4

(eee) That the Whitewash Mancos-Dakota Oil Pool in San Juan County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

GOWNSHIP 24 NORTH, RANGE 9 WEST, HMPM Sections 10: SE/4 SE/4 11: W/2 SW/4

(fff) That the Wildhorse-Gallup Pool in Rio Arriba County, New Mexico, as heretofore classified, defined and described, is hereby extended to include:

TOWNSHIP 26 NORTH, RANGE 3 WEST, HMPM Section 18: NE/4

Flo, This applie has to be set for hearing - will You please call & inform Thx R.J. Applie - Denied alle Office to

OPERATOR'S COPY

Form Approved : Budget Bureau No. 42-R1424

UNITED STATES . DEPARTMENT OF THE INTERIOR	5. LEASE NM 18	846
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTE	للمناز والمحاورة فرواعت والمعارضة بالمحادث والمحادث والمحادث والمحادث
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT	JUN 10 1982
Do not use this form for proposals to drill or to deepen or plug back to a different eservoir. Use Furm 2-331. C for such proposals.)	8. FARM OR LEASE NAM	Annual Contraction of the Contra
1. oil [X] gas () other 2. NAME OF OPERATOR	9. WELL NO. U, S,	· · · · · · · · · · · · · · · · · · ·
El Rán, Inc.	10. FIELD OR WILDCAT	IAME
3. ADDRESS OF OPERATOR P. O. Box 911 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	Sec. 34, T7S, R	
AT SURFACE: 660' FSL & 1980' FW L AT TOP PROD. INTERVAL: AT TOTAL DEPTH: Same	12. COUNTY OR PARISH Roosevelt 14. API NO.	
6. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW 4493.5 G	
EQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	44/3.3 G	1-7
EST WATER SHUT-OFF	(NOTE: Report desurts of michael form 9-	ultiple completion or zone 330.)
other) Convert Well to Salt Water U.S. GEO	OGICAL SURVEY	•

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well is currently producing approximately 1 BOPD and 12 water which is uneconomical. Therefore, we request permission to convert the well to a Salt Water Disposal. Attached you will find a copy of the application to the state.

Production within 1/2 mile - ask diet about heaving 6-14-82 - All S. A. prod. w/ El Ran Operator

Subsurface S	Safety Valve: Manu. and Type		Set @	Ft.
18. I hereby	certify that the foregoing is true an	d correct		
SIGNED		TITLE Vice-President DATE	June 1, 1982	
APPROVED BY	LAT WCZOS	space for Federal or State office use) TITLE		
CONDITIONS	JUN 3 1982	SUBJECT TO LIKE APPROVAL BY STATE		
	JAMES A. GILLHAM DISTRICT SUPERVISOR	See Instructions on Reverse Side		

STATE OF NEW MEXICO ENERGY AND HINERAL'S DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BUX 2009 STATE LAND OFFICE HURCHING SANTA FE, NEW MEXICO 8/501

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JUN	10	FORM C-10	1-81

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PLIC	ATION FOR AU	THORIZATION TO INJECT	Car >67.2
ĩ.	Purpose: Applica	Secondary Recovery Pressure	Haintenance Disposal Storage proval? Nyes Ino
II.	Operators	El Ran, Inc.	
	Address:	P. G. Box 911, Lubbock, T	exas 79408
	Contact pa	rty: Robert R. Ranck	Phone: 806/763-4091
.11	Hell data:		reverse side of this form for each well l sheets may be attached if necessary.
IV.		expansion of an existing project?	

- ٧. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VIIV Attach data on the proposed operation, including:
 - Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed; Proposed average and maximum injection pressure;
 - Sources and an appropriate analysis of injection fluid and compatibility with
 - the receiving formation if other than reinjected produced water; and
 If injection is for disposal purposes into a zone not productive of all or at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
 - ıX. Describe the proposed stimulation program, if any.
- Attach appropriate logging and test data on the well. (If well logs have been filed X. with the Division they need not be resubmitted.)
- XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if evailable and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
 - XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Robert R. Ranck	Title _	Vice-President
Signature: Robert R Kanch	Date:	June 1, 1982

 If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

TILL WELL DATA

- A. The fullowing well data must be submitted for each injection well covered by this application. The data must be both in tabular and schemotic form and shall include:
 - (1) Lease name; Well No.; location by Section, Tourship, and Range; and footage location within the section.
 - (2) Each easing string used with its size, setting depth, sucks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative amplications within 15 days from the date this application was mailed to them.

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(or describe	d and model) any other casing-tubing	seal).		
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3. Is this a	new well drilled for in		• -	
4. Has the w	ell ever been perforated plugging detail (sacks o	in any other zone(s)? Li f cement or bridge plug(s)	st all such parf	proted interva
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WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: BURON

WELL NO .: 2

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter 0,660 F.5L & 1980 F.E.L

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: /EE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 6-1-78

COMPLETION DATE: 6-26-78

TOTAL DEPTH: \$312' PLUG BACK DEPTH: \$306.

. CASING RECORD:

SIZE	WEIGHT	DEPTH	CEMENT	ING RECORD +	TOP OF CEMENT
85/8"	. 24*	310'	225, sx.	SURFACE	
41/2"	9,5	43/2'	1250 sx	SURFACE	1 17.4 10 11.61

TUBING RECORD:

PACKER DEPTH . DEPTH

PERFORATIONS AND TREATMENT:

INTERVAL 4160 - 1258

TREATMENT Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE

6-27-78

PRODUCTION

Pumped 45,0015 DIL + 85,0015-WATER in 24 hours mct-26

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: BURON

WELL NO.: 3

FIELD NAME: C'haveroo

LOCATION OF WELL: Unit Letter J, 1980' FEL & 1650' +51

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 12-1-18 COMPLETION DATE: 1-1-19
TOTAL DEPTH: \$343' PLUG BACK DEPTH: \$332'

. CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD & TOP OF CEMENT 600 SX- - SURFACE 85/2"

10.5 4342 41/2" 1755X

TUBING RECORD:

DEPTH PACKER DEPTH SIZE 23/8" 1222

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT Acidize W/ 6000 gals. 20% HCI 4164'- 4297'

POTENTIAL TEST:

DATE

1-4-79

PRODUCTION

Pumped 83 BBLS DIL + O BBLS WATE in 24 hours. 45 met

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: BYRON WELL NO .: 4

FIELD NAME: C'haveroo

LOCATION OF WELL: Unit Letter I, 990' FEL & 1650' FSL

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 5-1-79 COMPLETION DATE: 5-15-79

TOTAL DEPTH: \$325' PLUG BACK DEPTH: \$323'

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD + TOP OF CEMENT 85/8" 24" 1702' 550 SX SURFACE 41/2" 10.5 4324" 175 SX 3324

TUBING RECORD:

SIZE DEPTH PACKER DEPTH.

23/8" 4/90'.

PERFORATIONS AND TREATMENT:

INTERVAL

42/3'- 4293'

Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE 5-15-19 PRODUCTION

Pumped 91 BBLS DIL + DBBLS 2011 IN 24 hours. 610 mc+

WELLS WITHIN AREA OF REVIEW (MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: DACHNER WELL NO.: 2

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter F, 165D FNL & 2200 FWL

Sec. 3, T85, R32E, Choves County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 10/4/19 COMPLETION DATE: 10/22/79
TOTAL DEPTH: 4309' PLUG BACK DEPTH: 4307'

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD & TOP OF CEMENT 550 SX 85/8" SURFACE

24* 1692' 10.5 4308' 41/2" 175 SX 3308

TUBING RECORD:

PACKER DEPTH. DEPTH SIZE

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT

4/87' to 4272' Acidize W/ 6000 gols. 20% HCI

POTENTIAL TEST:

DATE

10/20/19

PRODUCTION

Pumped 125 BBLS of DIL + O BBLS WARD

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: DACHNER

WELL NO .:

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter D, 660 FWL 2 660 FNL

Sec. 3, T85, R32E, Choves County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 3/17/80 COMPLETION DATE: 4/8/80
TOTAL DEPTH: \$396' PLUG BACK DEPTH: \$395

CASING RECORD:

SIZE	WEIGHT	DEPTH	CEMENTIN	IG RECORD 4	TOP OF CEMENT
8 ⁵ /8"	24#	1683'	600 Sx-	SURPACE	Section 1
41/2"	10.5	£395'	175, 5x	33.95	e e e e e e e e e e e e e e e e e e e

TUBING RECORD:

PACKER DEPTH DEPTH 4320'

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT 4212 - 4390"

Acidize W/ 6000 gals. 20% HCI

POTENTIAL TEST:

DATE

PRODUCTION

Pumped 79 BBLS 012 + 10 BBLS WATER IN 24 hours.

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ron, Inc.

LEASE NAME: FEDERAL

WELL NO. : /

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter J, 440 Fr from NAINE + 2200 Fr from WA

Sec. 3, T85, R32E, Choves County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 8-15-79

COMPLETION DATE: 8-28-79

TOTAL DEPTH: 1298' PLUG BACK DEPTH: 1296!

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD & TOP OF CEMENT

85/8" 24" 1710' 550 5X

41/2" 10.5 4310' 175, 5X

TUBING RECORD:

SIZE DEPTH PACKER DEPTH.

23/8" 4276'.

PERFORATIONS AND TREATMENT:

INTERVAL

4242 - 4276

Acidize W/ 6000

4242-4276' Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE

8-29-79

PRODUCTION

Pumped 101 DUS DIL + OBBLS WATER in 24 hours.

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: ROBERTS

WELL NO .: /

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter B , 1980 FELY 440 FNL

Sec. 3, T85, R32E, Chaves County, New Mexico

TYPE OF LEASE: FEE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 10/17/18

COMPLETION DATE: 11/1/18 :

TOTAL DEPTH: 4330' PLUG BACK DEPTH: 4327'

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD + TOP OF CEMENT

600 SX - SURFACE

41/2" 175 SX 3320 10.5

TUBING RECORD:

SIZE DEPTH PACKER DEPTH

23/2"

PERFORATIONS AND TREATMENT:

INTERVAL 4117'- 4269" Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE

11-2-18 Pumped 91 BBLS DIL # 9 BBLS WATER in 24 hours.

PRODUCTION

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: ROBERTS

WELL NO.: 2

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter A, 440' FNL 4-990' FEL

Sec. 3, T85, R32E, Choves County, New Mexico

TYPE OF LEASE: Fee

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 2-2-19

COMPLETION DATE: 2-10-79.

TOTAL DEPTH: \$333' PLUG BACK DEPTH: \$332'

CASING RECORD:

SIZE	WEIGHT	DEPTH	CEMENT	ING	RECORD	+ TOP OF CEMENT
85/8"	24	1725	600 sx		SURFACE	
41/2"	9.5	4332	200 St		5300	

TUBING RECORD:

PACKER DEPTH SIZE DEPTH 4180

PERFORATIONS AND TREATMENT:

INTERVAL 4192 - 4302 Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE

2-10-79

PRODUCTION

Pumped 88 pais OIL + 0 365 WETER in 24 hours. met 70

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: ROBERTS

WELL NO .: \$

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter G, 1980 FEL & 1650 FNZ

Sec. 3, T85, R32E, Chaves County, New Mexico

TYPE OF LEASE: Fee

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 8-23-79

COMPLETION DATE: 9-5-79".

TOTAL DEPTH: \$3/2' PLUG BACK DEPTH: \$283.

CASING RECORD:

SIZE	WEIGHT	DEPTH	CEMENT	ING RECORD	+ TOP	of Cement
85/8"	24	1667	550 st	SURTHER		e e e e e e e e e e e e e e e e e e e
41/2"	10.5	4311'	175, SK	- 3450		

TUBING RECORD:

SIZE DEPTH PACKER DEPTH.

PERFORATIONS AND TREATMENT:

INTERVAL
4180'- 4274' Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

<u>DATE</u> 9-4-19

PRODUCTION

Pumped 97 BOLS DIL + O BOLS WATER

WELLS WITHIN AREA OF REVIEW (& MILE RADIUS)

OPERATOR: El Ron, Inc.

LEASE NAME: 1/5

WELL NO .: 2

Chaveroo FIELD NAME:

LOCATION OF WELL: Unit Letter K, 1650 FSL & 2310 FWL

Sec. 34, T75, R3ZE, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

COMPLETION DATE: 6-1-79

SPUD DATE: 5-10-79 COMPLETION DATE: 6-1TOTAL DEPTH: \$327' PLUG BACK DEPTH: \$322'

CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD 4 TOP OF CEMENT 23# 85/8" 1702' 550 sx SURFACE 10.5# 4322' 41/2" 175 SX 3322

TUBING RECORD:

PACKER DEPTH. SIZE DEPTH 23/8" t254.

PERFORATIONS AND TREATMENT:

INTERVAL 4174 - 4302'

TREATMENT Acidize W/ 6000 gals. 20% HC1

POTENTIAL TEST:

DATE

6-1-79

PRODUCTION

Pumped 94 BBLS OIL + 0 BBLS WETER in 24 hours. 718 met

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: 4.5.

WELL NO.: 4

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter & , 1650 FSL & 990 FWL.

Sec. 34, T75, R32E, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEDERAL

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 9/13/80 COMPLETION DATE: 10/7/80
TOTAL DEPTH: 4262' PLUG BACK DEPTH: 4360'

. CASING RECORD:

SIZE WEIGHT DEPTH CEMENTING RECORD + TOP OF CEMENT

85/8" 23# 1712 SURFACE 575, 5x

41/2" 10.5# 4362" . 175 5x 3362

TUBING RECORD:

PACKER DEPTH DEPTH SIZE

4292.

PERFORATIONS AND TREATMENT:

INTERVAL TREATMENT

Acidize W/ 6000 gals. 20% HCI 4209- 4288

POTENTIAL TEST:

DATE

10/8/80

PRODUCTION

Pumped 45 BBLS DIL + 22 BBLS WATER IN 24 hours.

Proposed Operation

El Ran, Inc. proposes to utilize this injection well to dispose of water produced from the following leases operated by El Ran, Inc.: Byron, U.S., Dachner, Federal, Carroll, Sarah, Roberts, Barton and Yeager.

Present water production from the above leases is approximately 400 BBL which is the porposed average volume to be injected. Maximum anticipated volume would be 500 BBL per day. Average injection rate will be one barrel per minute at 400#. Maximum anticipated rate is one and one-half barrel per minute at 700#. This proposal is to re-inject water produced from the San Andres formation back into the San Andres formation. This will be a closed system.

VIII

Geological Data

The injection zone in this proposed well is the San Andres formation which is composed of dolomite. The gross thickness of the injection zone is 107 feet with perforations from 4169' to 4276'. The top of the San Andres formation in the proposed injection well is 3450' and the well was still in the San Andres at 4311' total depth.

The depth to the bottom of the underground source of drinking water would be 380', which is the base of the Tertiary formations in this well.

XI

Proposed Stimulation

The San Andres zone (4169'-4276') in the U. S. #1 has been stimulated with 6000 gals. of acid. We do not plan on any other stimulation except for occasional small acid jobs to clear any scaling that might occur.

X

Well logs have been filed with the Division.

There are two fresh water wells within a one mile radius of this proposed injection well. The location of the wells is shown below. The water wells are pumped by electric pumps and the water is used for livestock consumption. Water analysis of the two wells are enclosed.

EL HAN INC.
U.S d1

PROPOSED
INSECTION

WELL

CARROLL
FRESHWATER WELL #2

XII

El Ran, Inc. geological and engineering personnel have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

William W. Ranck

Geological Engineer



TRETOLITE DIVISION
369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500/TWX 910-760-1660/Tefrx 44-2417

WATER ANALYSIS REPORT

URCE	Carrol #2 F.W.W.	DATE SAM	PLED	5/24/82	ANALYSIS	
	Analysis			Mg/L	*Meq/L	
1.	рН 7.1					
2.	H ₂ S (Qualitative) Neg.					
; 3.	Specific Gravity 1.000					
4.	Dissolved Solids	_	1386	L	•	:
5.	Suspended Solids					
6.	Phenolphthalein Alkalinity (CoCO3)			• • • • • • • • • • • • • • • • • • •		
7.	Methyl Orange Alkalinity (CaCO ₁)		580	and the second s		
8.	Bicarbonate (HCO ₃)	HCO ₃	_797_	- 61	12	нсо,
9.	Chlorides (CI)	CI	67	: 35.5	2	CI
10.	Sulfates (SO ₄)	\$O ₄	175	÷48	4	\$O,
11.	Calcium (Ca)	Со	_08	- 20	4	Ca
12.	Magnesium (Mg)	Mg _	_12	12.2	1	Mg
13.	Total Hardness (CaCO ₃)		250	· · · · · · · · · · · · · · · · · · ·		
14.	Total Iron (Fe)	-				
15.	Barium (Qualitative)			K.		
16.	Strontium					
.*Mi	Ili equivalents per liter PROBABLE MII	NERAL COMP	OSITIC)N		
j	•	Compound		— Equiv. Wt. X		= Mg/L
14	Ca + HCO ₃ 12	Ca (HCO ₃)		81.04	K Meq∕L 4	= Mg/L 324
1	Mg SO, 4	Ca SO ₄	2	68.07	-0-	-0-
	Na CI 2	Ca Cl ₂		55.50	-0-	-0-
13		Mg (HCO ₃)		73.17	1	73
Sat	uration Values Distilled Water 20°C Ca CO ₃ 13 Mg/L	Mg SO ₄	4	60.19	-0-	0-
	Ca SO ₄ • 2H ₂ O 2,090 Mg/L	Mg Cl ₂		47.62	-0-	-0-
- ·	Mg CO ₃ 103 Mg/L	Na HCO ₃		84.00		588_
		Na ₂ SO ₄		71.03	4	
		Na Cl		58.46		
AARKS	cc: file	· +-				-
MRK3	<u> </u>					
				TRETO	tfully submitted LITE COMPANY	
				Gale Bl	ackwall 1	



TRETOLITE DIVISION
369 Marshall Avenue / Saint Cours, Missouri 63119
13141 W9 1-3500/TWX 910-760-1660/Teler 44-2417

WATER ANALYSIS REPORT

NIOCE	Carrol #1 F.W.1		Inc. ADDRESS	<u>Tatur, 18</u> APLED <u>5/24/82</u>	ANALYSIS	<u>5/26/82</u>
JONCE	Analysis	* 1	DAIE 3AM	Mg/L	NO *Meq/L	
1.	- pH	7.0				
2.	H ₂ S (Qualitative)	Neg.				
3.	Specific Gravity	1.000				
	Dissolved Solids	1.000		3,896	•	
4. 5.	Suspended Solids		•			
6.	Phenolphthalain Alk		· _	410		
7.	Methyl Orange Alkal	•	·	500	sı 8	
8.	Bicarbonate (HCO	31	HÇO:	And the second of the second o	V	HCO; CI
9.	Chlorides (CI)		CI .	1750	06	
10.	Sulfates (SO ₄)		\$0, _ Ca	528 ÷		SO;
11. 12.	Calcium (Ca) Magnesium (Mg)		•		12.2 42	
			Mg _	3700	12.2 42	Mg
13.	Total Hardness (C	(aCO ₁)	_			
14.			_			
15.	Barium (Qualitativ	/e }				
16. •Mi	Strontium illi equivalents per li	ter				
••••	• • • • • • • • • • • • • • • • •		INERAL COMP	POSITION		
	<u>.</u>	<u>*</u>	- Compound	Equiv. Wt	. X Meq/L	= Mg/L
16	Ca	—— HCO ₃	Ca (HCO ₃)			648_
42	Mg	so ₄ 36	Ca SO.	68.07	8	545
6	Na		Ca Cl ₂	55.50	-0-	0-
		<u></u>	Mg (HCO ₃)	7	-0-	0-
	ruration Values Di	stilled Water 20°C		_	_28	168
Sat		13 Ma/L	Wa 2C.	60.19		
Sat	Ca CO ₃ Ca SO ₄ • 2H ₂ O	13 Mg/L 2,090 Mg/L	Mg SO; Mg Cla	60.19 47.62	_14	667
Sat	Ca CO ₃		Mg Cl ₂	47.62	_14 0-	667 0-
Sat	Ca CO ₃ Ca SO ₄ • 2H ₂ O	2,090 Mg/L	Mg Cl ₂ Na HCO ₃	47.62 34.00		
Sat	Ca CO ₃ Ca SO ₄ • 2H ₂ O	2,090 Mg/L	Mg Cl ₂ Na HCO ₃ Na ₂ SO ₄	47.62 34.00 71.03	0-	0-
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	Ca CO ₃ Ca SO, • 2H ₂ O Mg CO ₃	2,090 Mg/L	Mg Cl ₂ Na HCO ₃ Na ₂ SO ₄	47.62 34.00 71.03	-0- -0-	
Sat	Ca CO ₃ Ca SO, • 2H ₂ O Mg CO ₃	2,090 Mg/L	Mg Cl ₂ Na HCO ₃ Na ₂ SO ₄	47.62 34.00 71.03 58.46	-0- -0-	

PETRO-CHEM

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API WATER ANALYSIS REPORT FORM

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Type of Water	(Produced,	Supply	, etc.)	Sampling P	oint	**** * *	e se		ngled By

DISSOLVED SOLIDS			i.	OTHER PROPERTIES	
CATIONS	mg/l	me/l		pH	7.060
Sedium, Na (calc.)	42,820	1,862.		Specific Gravity, 60700 F	1,195
Calcium, Ca	39,600	1,980		Resistivity (ohmometers) 779 F.	0.033
Magnealum, Mg	10,980.			Total Bactness, CaCO3	144,000
Barium, Ba	1811			Total Alkalimty, CaCO3	er kontag mikeringan dijer
	a confirmed affirm to the design about the second of	-		Supersyturation, CaCO3	
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				WATER PATTERNS (mr/l
ANJONS		. 500			
Chloride, Cl	168,185	4.738		STANDARD	
Sulfate, SO ₄	200_	4_		90 0 0 10 0 10 10 10 10 10 10 10 10 10 10	
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Bicarbonate, HCOa	Q_	0.	•	comming the comment of the comment o	fill fill HHCO
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e de de	14 50			Majorifie semila e mila e instre e e estato e estato	وولسايد وسايد
Iron, Fe (total)	16.50				
Sulfide, as HaS	Present			المسين والمناه والمسلوب المسلوب المساوع	त्यामानुसमाम्बर्धाः
				\$ \$ \$ \$ = 5	ğ 8

REMARKS & RECOMMENDATIONS:

Calcium Sulfate Scaling Potential - N11 Calcium Carbonate Stability Index:

Severe Scaling indicated at all temperatures.

5-18-81 5-19-81

Affidavil of Publication

and the second s	I. Marshall Stinnett
LEGAL NOTICE El Ran, Inc., P.O. 80x 911, Lubbock, Texas 19408, 808-763-4081 processe to convertitu U.S. No. 1 oil well to a Sait Wa'ar disposal well. Subject well is located 667 FSL & 1960' FWL. in Section 34, 7-South, Range 32E, Rocievit County, New Mexico. The probased injection formation 1: the San Andres and, a maximum rate of 2 RPM at 700 ffel is expected. Any in- terested parties must file objections or request for hearings with the Oil Conservation Division, P.O. 80x 2088, Sants Fe. New Mexico 87501 within fifteen (13) days of today, June 1, 1962. Published in the Portales News- Tribune June 1, 1862, Legal No. 7548.	Business Manager of
Wafar disposal well. Subject well is located 667 FSL & 1360 FWL in Section 34, 7-South, Range 32K, Rockevelt County, New Mexico. The problem of the county o	THE PORTALES NEWS-TRIBUNE
San Andres and mention face of RPM at 100 field is expected. Any interested parties must file objections or request for hearings with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 27501 within fifteen (13) days of today, June 1, 1982. Published in the Portales News-	a newspaper of general paid circulation and entered under second class postal privilege in Roosevelt County, published daily, (except Saturday) at Portales, New Mexico, for the fifty-two (52) consecutive weeks preceding this date, do solemnly swear that a copy of the above notice, as per clipping attached, was published weekly in the regular and entire issue of said
	newspaper, and not in any supplement thereof for1
	consecutive weeks commencing with the issue dated
	June 1 19 82
	and ending with the issue dated
	All publication costs having been paid.
	markall It A
subscribed and sworn to before me this	1st day of June 19 82
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	NOTARY PUBLIC
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PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, \$300



RETURN TO



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.,	(City, State, and ZIP Code)			

· Grand

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7622 Order No. R-7044

APPLICATION OF EL RAN, INC. FOR A WATERFLOOD PROJECT, CHAVES COUNTY, NEW MEXICO.

Osu

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 21, 1982, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of July, 1982, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

certain ilminin ale mandina

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- institute a waterflood project in the Chaveroo-San Andres Pool by the injection of water into the perforated interval from 4169 feet to 4276 feet in its U. S. Well No. 1 located in Unit N of Section 34, Township 7 South, Range 32 East, NMPM, Chaves County, New Mexico, and injection to be through plastic-lined fubing set in a packer located at approximately 4100 feet

July orders (13)

And orders (13)

And orders (13)

That the wells in the proposed project are not in an advanced state of depletion and may not properly be classified as "stripper" wells.

That although the proposed project does not fit the definition of a waterflood project contained in Rule 701 F.1 of the Division Rules and Regulations, it does fit the definition of a pressure maintenance project contained in Rule 701 E.1 of the Division Rules and Regulations.

- (5) That the proposed project should be classified as a pressure maintenance project and, in accordance with Rule 701 E., project rules, including the allowable formula, promulgated therefor.
- That the proposed pressure maintenance project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste, and will not impair correlative rights.

(7) That the initial project area should comprise the following described lands: within applicant's proposed Young Lucp (Bone Epring) Unit Area, Lea County, New Mexico:

TOWNSHIP 7 SOUTH, RANGE 32 EAST, NAPM

Sec 34: 5/2 4 3/2

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM Section 31 5/2 SW/4 and W/2 SE/4

TOWNSHIP & SOUTH, RANGE 32 Section 1: NE/4 NE/4

Sec. 3: N/2

Section 10: N/2 NW/4 and NW/4 NE/4

That the project area should be expanded upon completion of additional injection wells or producing wells in the Bone Spring formation in the proposed Young Deep (Bone Spring) Unit Area which may be shown to be affected by the injection program.

Chaveron San Andres

That the project allowable should be equal to top unit allowable for the North Young-Bone Spring Pool times the number of developed (production or injection) proration units within the project area.

on any given lease

(10) That the transfer of allowable between wells within the project area should be permitted.

ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells. including the recementing of the 4-1/2 inch casing string back to at least 7900 feet when the Young Deep "4" Federal Well No. 1 in Unit M of Section 3, "Township 18 South, Range 32 East, NMPM, is plugged back.

That the injection wells or injection pressurization system should be so equipped as to limit injection pressure at the wellhead to no more than 1690 psi, but the Division Director should have authority to increase said pressure limitation, should circumstances warrant.

-3-Case No. 7595-Order No. R-7023-

(13) That the subject application should be approved and the project should be governed by the provisions of Rules 702 through 708 of the Division Rules and Regulations.

--- IT IS THEREFORE ORDERED:

- (1) That the applicant, El Ran, Inc., , is hereby authorized to institute a pressure maintenance project in the Charleton-San Andres Pool by the injection of water into selected perforated intervals between the depths of 4/69 feet and 4276 feet in its USA Well No. 1, located in Unit N of Section 34, Township 7 South, Range 32 East, NMPM, Chares County, New Mexico.
- (2) That injection into said well shall be through internally coated tubing, set in a packer which shall be located is how the upperment perforation; that the casing-tubing annulus of said injection well shall be loaded with an inert fluid and equipped with an approved pressure gauge or attention-attracting leak detection device.
- (3) That the operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the tubing or packer in any injection well, the leakage of water or oil from or around any producing well, or the leakage of water or oil from or around any plugged and abandoned well within the project area and shall take such timely steps as may be necessary or required to correct such failure or leakage.
- (4) That the injection well herein authorized and/or the injection pressurization system shall be so equipped as to limit injection pressure at the wellhead to no more than 835 psi, provided however, the Division Director may authorize a higher surface injection pressure upon satisfactory showing that such pressure will not result in fracturing of the confining strata.
- (5) That the subject pressure maintenance project is hereby designated the ElRan Chaveros Pressure Maintenance Project and shall be governed by Special Rules and by the provisions of Rules 701 through 708 of the Division Rules and Regulations.
 - (6) That Special Rules and Regulations governing the operation of the El Raw Chaverse Pressure Maintenance Project are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE

EL RAN CHAVEROO PRESSURE MAINTENANCE PROJECT

Rule 1. That the initial project area shall comprise the following described lands in Charts County, New Mexico:

TOWNSHIP 7 SOUTH, RANGE 32 EAST, NMPM Section 34: 5/2

TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM Section 3: N/2

Rule 2. That the project area may be expanded administratively within the applicant's proposed by the Division Director upon completion of additional injection wells or production wells, provided it can be shown that such production wells are affected by the injection of water into the

Rule 3. The allowable for the project area shall be any amount up to and including a volume equal to the top unit allowable for the Chaverou-San Andres Pool times the number of proration units in the project area on that lease.

produced from any well or wells within the project area in any proportion.

Rule 5. The Division Director is hereby authorized to approve such additional producing wells and injection wells at orthodox and unorthodox locations within the boundaries of the proposed project does as may be necessary to complete an erricient production and injection pattern, provided said producing wells are drilled no closer than 330 feet to the outer boundary of the least not closer than 10 feet to any quarter-quarter section or subdivision inner boundary. To obtain such approval, the project operator shall file proper application with the Division, which application, if it seeks authorization to convert additional wells to injection or to drill additional production or injection wells shall include the following:

(a) A plat identifying the lands committed to the unit agreement and those lands not committed to said agreement, and showing the location of the proposed well, all wells within the unit area, and offset operators.

- (b) A schematic drawing of any proposed injection well which fully describes the casing, tubing, packer, monitoring equipment, perforated interval, and depth.
- (c) A letter stating that all offset operators to the proposed well have been furnished a complete copy of the application and the date of notification.
- (d) Such other applicable requirements as may be contained in Rule 701 of the Division Rules and Regulations.

The Division Director may approve the proposed well if, within 20 days after receiving the application, no objection to the proposal is received. The Director may grant immediate approval, provided waivers of objection are received from all offset operators.

- (7) That the pressure maintenance project herein authorized shall be governed by the provisions of Rules 702 through 708 of the Division Rules and Regulations.
- (8) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

u do lie linguaga de Certe Scale

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY

Director

SEAL

WELLS WITHIN AREA OF REVIEW (1/2 MILE RADIUS)

OPERATOR: El Ran, Inc.

LEASE NAME: BYRON

WELL NO .: /-/

FIELD NAME: Chaveroo

LOCATION OF WELL: Unit Letter P. 60 FSL & 990' FEb.

Sec. 34, T7S, R3ZE, ROOSEVELT County, New Mexico

TYPE OF LEASE: FEE

WELL STATUS: Pumping oil well

PRODUCING FORMATION: San Andres

SPUD DATE: 11/27/78

COMPLETION DATE: 12/28/18

TOTAL DEPTH: \$325' PLUG BACK DEPTH: \$323

CASING RECORD:

CEMENTING RECORD & TOP OF CEMENT 1728 600 SX SURFACE

170 SX 3324

TUBING RECORD:

PACKER DEPTH SIZE DEPTH

PERFORATIONS AND TREATMENT:

INTERVAL

Acidize W/ 600 gals. 20% HC1 4176 - 4294

POTENTIAL TEST:

12-28-78

PRODUCTION

Pumped 83 BOLS OIL + O MIS WATER in 24 hours. 30 met