CASE 6175: PETROLEUM CORPORATION? Zefes
OF TEXAS FOR SALT WATER DISPOSAL,
EDDY COUNTY, NEW MEXICO

Case No.

Application
Transcripts

Small Exhibits

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CASE 6175

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

March 8, 1978 EXAMINER HEARING 6 IN THE MATTER OF: Application of Petroleum Corporation of Texas for salt water disposal, Eddy) County, New Mexico. 10 BEFORE: Daniel S. Nutter, Examiner. 11 12 TRANSCRIPT OF HEARING 13 For the New Mexico Oil Lynn Teschendorf, Esq. Conservation Commission: Legal Counsel for the Commission State Land Office Building 14 Santa Fe, New Mexico 15 For the Applicant: Michael B. Campbell, Esq. CAMPBELL, BINGAMAN & BLACK 16 Attorneys at Law P. O. Box 2208 17 Santa Fe, New Mexico 18

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MR. NUTTER: Call the next case, Case Number 6175.

MS. TESCHENDORF: Case 6175, application of

Petroleum Corporation of Texas for salt water disposal,

MR. NUTTER: Call for appearances in this case?

MR. CAMPBELL: Mr. Examiner, my name is Michael

Campbell with the law firm of Campbell, Bingaman & Black,

appearing on behalf of Petroleum Corporation of Texas and

we have one witness to testify in this application.

MR. NUTTER: Please stand and be sworn.

(THEREUPON, the witness was sworn.)

ARTHUR BOICE

was called as a witness by the applicant, and having been first duly sworn, testified upon his oath as follows, to-wit:

DIRECT EXAMINATION

BY MR. CAMPBELL:

- Q Would you please state your name and the position you hold with Petroleum Corporation of Texas?
 - A. My name is Arthur Boice, Division Superintendent.
 - Q Have you previously testified before this Commission?
 - A. Yes, sir.

Eddy County, New Mexico.

- Q. In what capacity have you testified?
- A. As an engineer.

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MR. CAMPBELL: Mr. Examiner, would you like further qualification of the witness?

MR. NUTTER: If he has previously qualified as an expert witness I don't. That's sufficient.

- Q (Mr. Campbell continuing.) Would you please state what Petroleum Corporation of Texas seeks in Case Number 6175?
- A. We propose to convert the Jenkins"B" Federal No. 1

 located in Unit E in Section, Township 17 South, Range 30

 East to the Grayburg Jackson Pool to a salt water disposal well

MR. CAMPBELL: Mr. Examiner, we have a package of exhibits here that we have marked simply as Applicant's Exhibit One, which we will identify in sequence and explain for the Examiner.

- Q (Mr. Campbell continuing.) Mr. Boice, I hand you what has been marked as Applicant's Exhibit Number One and would you please begin to identify and explain the documents contained in that exhibit?
- A. The application to dispose of salt water by injection into the porous zone.

Then, we have the waiver of consent from the offset operators.

- Q. Have you obtained waivers from all offset operators?
- A. Yes.
- Q And those are included in your Exhibit Number One?
- A. Yes.

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Q.	Woul	.d	you	expla	ain	what	is	the	next	series	of
documents	in A	pp	olica	int's	Exi	nibit	Nun	nber	One?		

A. It is a tabular summary of all wells within a half mile of the Jenkins "B" Federal No. 1.

I have a well bore sketch of the plugged wells within a half mile are included in there.

- Q The well bore sketch is marked also as Exhibit A, is that correct?
 - A. Yes.
 - Q What is that document, again?
- A. It is a well bore sketch of the plugged wells that are within a half mile radius.

MR. NUTTER: There is only one well within that radius that has been plugged?

A Yes, sir.

MR. NUTTER: And that is this General American Birch A Five?

A. Yes, sir.

MR. NUTTER: Where is it on your plat, which is identified as Exhibit B and you haven't got to yet?

A. It will be in Unit letter G of Section 19, Township
17 South, Range 30 East.

MR. NUTTER: On there it is not shown as a plugged well but it has been plugged?

A. Yes, sir.

Q.	(Mr.	Ca	edqme	ell c	ontinuing	g.) Af	ter	the	plat	
document	what	is	the	next	exhibit	marked	als	o a:	s Exhibit	t Ca

A. These are the wells within a two-mile radius; all wells within a two-mile radius of the proposed injection well showing the formations as they do produce or have produced from.

- Q That would be in compliance with the Oil Conservation Commission's Rule 701-(b)(1), is that correct?
 - A. Yes.
- Q After that summary what is the next document in the series of documents?
- A. Exhibit D is a copy of the Schlumberger log on our Jenkins "B" Federal No. 6. The Well No. 1 is an old well and we do not have a log on it.
- Q The well log is also marked as Exhibit D, is that correct?
 - A. Correct.
- Q Following the well log what is the next exhibit document in Exhibit Number One?
- A. Exhibit E, it's a diagrammatic sketch of the proposed injection well showing that we are going to run plastic lined tubing and set on a packer and fill the annulus in an inert fluid.
 - Q. What is the next document in the series of documents?
 - A. Exhibit F, is the summary of the source of the

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injection fluid. All of the fluid that we propose to dispose of in this well comes from the Jenkins "B" Federal lease and the same formation.

- Q The last document in Exhibit Number One is what?
- A. The water analysis of the fluids to be injected.
- Q Were the documents contained in Applicant's Exhibit
 One prepared by you or under your supervision?
 - A. Yes.

MR. CAMPBELL: Mr. Examiner, I would move the admission of Applicant's Exhibit Number One.

MR. NUTTER: Applicant's Exhibit Number One with all of the partstherein will be admitted in evidence.

Q (Mr. Campbell continuing.) Mr. Boice, in your opinion would the granting of this application by the Commission prevent waste and protect correlative rights?

A. Yes.

MR. CAMPBELL: Mr. Examiner, we have no further questions or testimony as part of the application.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Boice, I notice from your Exhibit E, which is the schematic diagram of the subject well, that a twelve inch hole was drilled and ten and three quarter inch casing was set four hundred seventy-nine feet with fifty sacks of

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cement and the estimated top is at one fifty-six. I suppose that means that cement wasn't circulated on the surface casing, is that correct?

- A. No, sir.
- Q Are there any fresh water in this area?
- A. The bottom of the deepest fresh water zone in that area is approximately two hundred to three hundred feet.
 - Q That's the bottom of it?
 - A. Yes, sir.
- Q The top of the cement is at one hundred fifty-six and then you have an intermediate casing string shown on the diagram but there is not statistics or figures on that. Does that string of case exist?
- A. No, that string of casing doesn't exist. That's just on the sketch that we drew this on.
- Q This is a form schematic diagram and this string doesn't even exist, then?
 - A. Correct.
- Q Then, we have seven inch casing at three thousand feet with about one hundred sacks of cement with the estimated top at twenty-six sixty-three?
 - A. Yes, sir.
- Q. And you propose to dispose of water from the open hole interval from three thousand feet down to ", at thirty-two fifty-eight?

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	A.	Yes, sir.
	Q.	Through plastic lined tubing?
	A.	Yes, sir.
	Q.	Set in a packer and the annulus will be loaded with
an	inert	fluid, is that correct?
	Α.	Yes, sir.
	Q.	Now, what pressure to you propose to inject with?
	A.	It would be limited to not more than two tenths of
a j	pound p	er foot of depth which would be approximately

Q. Let' see, our casing is at three thousand so it would be six hundred pounds?

fifteen hundred -- excuse me -- six hundred.

- Yes, sir.
- Now, the log that you submitted was for Well No. 6, I believe you stated?
 - Yes, sir.
- Because you don't have a log on the disposal well and where is this Well No. 6 with respect to the disposal well?
 - It's northeast.
 - The diagonal offset to the northeast? Q.
- It's the first well in that direction but it would 22 be about two locations -- on the plat there you can see it --23
 - Is that the well that is right at the --
 - Right at the "O" in Petco.

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Q So, it is the diagonal offset to the northeast, then?

A. Yes, I would think that there would be room for one more well below it. It is the first well you come to diagonally.

Q Now, how many producing wells are on this lease?

Just the five wells that are listed on Exhibit F of Exhibit

One?

A. In addition to this No. 1, which we propose to make a disposal well out of.

Q. So, you have the No. 2, 3, 4, 5, and 6 on the lease?

A. Yes, sir.

Q How much water are they currently making?

A About two hundred barrels.

Q A day?

A. Yes, sir. I am sorry, that volume, it would be about one hundred and twenty-five barrels a day.

About one hundred and twenty-five barrels a day?

A. Yes, sir.

Q Now, Mr. Boice, referring to your Exhibit A on page five, which is the summary of the casing and cementing program on the wells within a half-mile radius, this General American Birch "A" 17 apparently has thirteen and three eighths casing set at three fifty-one with three hundred twenty-five sacks and top unknown.

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Then, it has nine and five at twenty-seven twenty-six with fourteen fifty sacks and the top is unknown.

Then, it has seven inch at forty-two oh nine with three hundred sacks and the top of the cement is thirty-one sixty.

So, the top of the cement there being at thirtyone sixty leaves an area in which there is no cement up to
the casing at twenty-seven twenty-six.

Now, that includes the interval that you will be injecting water into. That well is located less than a half mile from your well.

Do you think there is any possibility of migration of water from your disposal well into the upper formation into that well since there isn't any cement on the casing string there?

- A. I think the casing at twenty-seven twenty-six would stop it from going up.
- Q. What formation do we have there at twenty-seven twenty-six? Is that in the Queen or the Seven Rivers or what right in there?
- A. I believe that it is still in the San Andres. It's definitely below the Seven Rivers and the Queen.
- Q. Well, now, is the top of the San Andres shown on your log, which is included in your package of exhibits?
 - A. Let's see -- it is but I am not a geologist and I

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stake it for you.

Q I don't think the top of the San Andres is on here.

It's probably just immediately above.

A Just immediately above that.

MR. NUTTER: Are there any further questions of Mr. Boice?

If there are no further questions, the witness may be excused.

Do you have anything further, Mr. Campbell?
MR. CAMPBELL: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 6175? We will take the case under advisement.

(THEREUPON, the case was concluded.)

p	age	13	
	aye		

REPORTER'S CERTIFICATE

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

Sidney F. Morrish, C.S.R.

sid morrish reporting service
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125 Calle Mejia, No. 122, Santa Fe, New Mexico 87
Phone (\$05) 982-9212

I do hereby certify that the foregoing is a complete record of the proceedings in the Examinor harring of Case No. 6.75, neard by no on 3, 19.78...

New Mexico Oil Conservation Commission



DIRECTOR
JOE D. RAMEY

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

PHIL R. LUCERO March 21, 1978



Mr. Michael Campbell Campbell, Bingaman & Black Attorneys at Law Post Office Box 2208 Santa Fe, New Mexico 87501

Re: CASE NO. 6175 ORDER NO. R-5671

Applicant:

Petroleum Corporation of Texas

Dear Sir:

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

Although the order is silent on the subject, the Commission feels that the surface casing cement job in the disposal well authorized by this order is inadequate. Ten and 3/4-inch casing is set at 479 feet and cemented with 50 sacks of cement. Top of the cement is estimated to be at 156 feet and also at 267 feet. We feel that either of these is inadequate and that cement should come to the surface on this string of casing. Petroleum Corporation of Texas is therefore hereby directed to recement the surface casing to the surface prior to use of the well for salt water disposal. Please notify the Artesia District Office of the Commission of the date and hour this work is to be commenced so that a Commission representative may be present during the work.

Yours very truly

JOE D. RAMEY

Director

Copy of order also sent to:

Hobbs OCC Artesia OCC LAWYERS

JACK M. CAMPBELL
JEFF BINGAMAN
BRUCE D BLACK
MICHAEL B. CAMPBELL

13 1 1 1978

POST OFFICE BOX 2208

JEFFERSON PLACE

SANTA FE, NEW MEXICO 87501

Sund to

Case 6/75

February 13, 1978

Mr. Joe D. Ramey
Oil Conservation Commission
for the State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Jenkins "B" Federal LC-054988-B, Well No. 1 Eddy County, New Mexico

Dear Mr. Ramey:

Attached is an application of Petroleum Corporation of Texas to convert the above well to salt water disposal.

Support data includes the following:

Exhibit "A": Tabular summary of all wells, schematic of plugged and abandoned wells, within one-half mile radius of our proposed injection well.

Exhibit "B": Plat showing location of injection well and all other wells within a radius of two miles.

Exhibit "C": Summary of all other wells within a radius of two miles from proposed injection well.

Exhibit "D": Copy of the Schlumberger log on our Well No. 6 on the same lease. We do not have a log on the No. 1 Well.

Exhibit "E": Diagrammatic sketch of proposed injection well.

February 13, 1978 Page Two

Exhibit "F": Summary of the source of injection fluid.

Exhibit "G": Water analysis of fluid to be injected.

We would appreciate your scheduling the application for hearing. Thank you for your attention to this matter.

Very truly yours,

Michael Campbell

MC:dc

Enclosures

cc: Arthur Boice

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE NO. 6175 Order No. R-5671

APPLICATION OF PETROLEUM CORPORATION OF TEXAS FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 8, 1978, at Santa Fe, New Mexico, before Examiner, Daniel S. Nutter.

NOW, on this 14th day of March, 1978, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Petroleum Corporation of Texas, is the owner and operator of the Jenkins "B" Fed. Well No. 1, located in Unit E of Section 20, Township 17 South, Range 30 East, NMPM, Grayburg-Jackson Pool, Eddy County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the San Andres formation, with injection into the open-hole interval from approximately 3000 feet to 3258 feet.
- (4) That the injection should be accomplished through 2 3/8-inch plastic lined tubing installed in a packer set at approximately 2950 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.
- (5) That the injection well or system should be equipped with a pop-off valve or other acceptable device which will limit the wellhead pressure on the injection well to no more than 600 psi.

-2-Case No. 6175 Order No. R-5671

- (6) That the operator should notify the supervisor of the Artesia district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (7) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.
- (8) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Petroleum Corporation of Texas, is hereby authorized to utilize its Jenkins "B" Fed. Well No. 1, located in Unit E of Section 20, Township 17 South, Range 30 East, NMPM, Grayburg-Jackson Pool, Eddy County, New Mexico, to dispose of produced salt water into the San Andres formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 2950 feet, with injection into the openhole interval from approximately 3000 feet to 3258 feet;

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

- (2) That the injection well or system shall be equipped with a pop-off valve or other acceptable device which will limit the wellhead pressure on the injection well to no more than 600 psi.
- (3) That the operator shall notify the supervisor of the Artesia district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (4) That the operator shall immediately notify the supervisor of the Commission's Artesia district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.
- (5) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

-3-Case No. 6175 Order No. R-5671

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

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

EMERY C. ARNOLD Member

JOE D. RAMEY, Member & Secretary

SEAL

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR			ADDRESS				
)		1 Pusalesuu	2.37	my 76001		
Petroleum Corporation	or rexas	WELL NO.	FIELD	rox 91	1, Breckenr	iage,	TX 76024
Jenkins "B" Federal(I	.c-054988-B)	1	Grayb	ırg, Ja	ckson	T-11-	Eddie
UNIT LETTER	; w	ELL IS LOCATED	16501	T FROM THE	North	NE AND	330 1 PEET FROM THE
West LINE, SECTION	20 10	WASHIP 175	RANGE	30E	NMPM.		<u> </u>
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INTERMEDIATE					se	e Ex	(cut topa) 156
LONG STRING							C
24#	7"	3000 '	100		2663 TUBING PACKER		Estimated
Plastic lined	2-3/8"				Tension Pkr		
	ATTON		1	ORMATION			DF FORMATION
San Andres	NG, OR ANNULUS?	PERFORATION	290		INTERVAL(S) OF INJE	4322	•
mark tura	-	он 3000'			1' - 3258'		
Tubing IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS	NO, FOR WHAT PURPO				HAS WELL	L EVER BEEN PERFORATED IN ANY TER THAN THE PROPOSED INJEC-
NO LIST ALL SUCH PERFORATED INTERVA	Oil pr	roducer				TION ZON	No
LIST ALL SUCH PERFORATED INTERVA	LS AND SACKS OF C	EMENT USED TO SEAL	OFF OR SQUEEZE	EACH			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200 - 300 -		oil or gas zone in Grayburg 25	THIS AREA		DEPTH OF TOP OIL OR GAS Z Glorieta		
ANTICIPATED DAILY MINIMUM	I MAXEMUM		SED TYPE SYSTEM	IS INJ	ECTION TO BE BY GRA	VITY OR	APPROX. PRESSURE (PSI)
100	150	Open			ssure		600
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NAME AND ADDRESS OF SURFACE OWN	16	es ri	oduced	, Sa	ilt water	Ye	es (
Bogle Farms (grazing	allottee or	n Federal Lan	nd)				
LIST NAMES AND ADDRESSES OF ALL	OPERATORS WITHIN	ONE-HALF (1) MILE OF	F THIS INJECTION				
Atlantic Richfield Co	ompany P.	0, Box 1/10	Hobbs,	NM 882	240		
Holly Energy, Inc.	2001 Bryan	Tower Sur	ite 2680	Dallas	s, TX 75201		.=
General American Oil	Company	Meadows Buil	lding D	allas,	TX 75206		
Kennedy Oil Company,	Inc. P. O	. Box 151 A	Artesia, N	м 882	10		
					RAPORE E	MAX	
HAVE COPIES OF THIS APPLICATION OF SENT TO EACH OF THE FOLLOWING?	SEEN SURFACE OW	NER	EACH OF OF THIS	RATOR WIR	HIN ONE-HALF MILE	I THE NEW	MENICO STATE ENGINEER
	No		Yes			EXX 43	T NO.
ARE THE FOLLOWING ITEMS ATTACHE THIS APPLICATION (SEE RULE 701-B	Yes	A	ELECTRI I Fr	om Wel	MASE NO.	DIAGRAM!	MATIC SKETCH OF WELL
1 Hereby c		formation above is				edge and	belief.
All some	• -		ion Superi				ry 30, 1978
(Signature)		DIVISI	(Tit			Janua	(Date)
				·			

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

Coursests of C-108, 4 wavers and Exhibits "A" thru G

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911

BRECKENRIDGE, TEXAS 76024

February 7, 1978

Kennedy Oil Company, Inc. P. O. Box 151 Artesia, NM 88210

> Jenkins "B" Federal Well No. 1 Eddie County, New Mexico

Gentlemen:

Petroleum Corporation of Texas has made application to the New Mexico Oil Conservation Commission to convert the Jenkins "B" Federal Well No. 1, (Unit letter E, 1650' FNL & 330' FWL, Section 20, Township 17-S, Range 30-E), to a salt water disposal well. The fluid will be injected into the Grayburg Jackson Zone from 3000' - 3258'. There will be no off lease water injected into this well, and the anticipated daily volume will be approximately 125 barrels. The injection pressure will not exceed .2 lbs. per foot of depth.

If you have no objection to this conversion, please sign and return three copies of this letter in the enclosed envelope.

Yours truly

Arthur Boice

Division Superintendent

AHB/gw

I have no objection to granting of a permit to inject salt water into the above well.

KENNEDY OIL COMPANY, INC.

By: Valette Com Sy

TALL

Date:

ate: 49/78



817-559-3355

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911

BRECKENRIDGE, TEXAS 76024

January 30, 1978

Atlantic Richfield Company P. O. Box 1710 Hobbs, NM 88240

> Jenkins "B" Federal Well No. 1 Eddie County, New Mexico

Gentlemen:

Petroleum Corporation of Texas has made application to the New Mexico Oil Conservation Commission to convert the Jenkins "B" Federal Well No. 1 (Unit letter E, 1650' FNL & 330' FWL, Section 20, Township 17-S, Range 30-E), to a salt water disposal well. The fluid will be injected into the Grayburg Jackson Zone from 3000' to 3258'. There will be no off lease water injected into this well, and the anticipated daily volume will be approximately 125 barrels. The injection pressure will not exceed .2 lbs.per foot of depth.

If you have no objection to this conversion, please sign and return three copies of this letter in the enclosed envelope.

Yours truly,

Arthur Boice Division Superintendent

wg/8HA

I have no objection to granting of a permit to inject water into the above well.

ATLANTIC RICHFIELD COMPANY

By: A I Tweed OISTRICT ENGINEER Title

Date: 2-16-78



817-559-3355

PETROLEUM CORPORATION OF TEXAS

Company of the compan

P. O. BOX 911

BRECKENRIDGE, TEXAS 76024

February 7, 1978

Holly Energy, Inc 2001 Bryan Tower Suite 2680 Dallas, TX 75201

> Jenkins "B" Federal Well No. 1 Eddie County, New Mexico

Gentlemen:

Petroleum Corporation of Texas has made application to the New Mexico Oil Conservation Commission to convert the Jenkins "B" Federal Well No. 1, (Unit letter E, 1650' FNL & 330' FWL, Section 20, Township 17-S, Range 30-E), to a salt water disposal well. The fluid will be injected into the Grayburg Jackson Zone from 3000' - 3258'. There will be no off lease water injected into this well, and the anticipated daily volume will be approximately 125 barrels. The injection pressure will not exceed .2 lbs. per foot of depth.

If you have no objection to this conversion, please sign and return three copies of this letter in the enclosed envelope.

Yours truly,

Arthur Boice

Division Superintendent

AHB/gw

I have no objection to granting of a permit to inject salt water into the above well.

HOLLY ENERGY, INC.

By: ////

Christians Manyor

Title

Date: 2 4 3 . 28

PETCO

817-559-33**55**

PETROLEUM CORPORATION OF TEXASHERAL AMERICA

P. O. BOX 911

BRECKENRIDGE, TEXAS 76024

January 30, 1978

FEB 01 1978

General American Oil Company Meadows Building Dallas, TX 75206

> Jenkins "B" Federal Well No. 1 Eddie County, New Mexico

Gentlemen:

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Division Superintendent

AHB/gw

I have no objection to granting of a permit to inject salt water into the above well.

GENERAL AMERICAN QUE COMPANY

_____/

Data

Jace,_

cc-Landall Hawkins

JENKINS "B" FEDERAL (LC-054988-B) WELL NO. 1 Unit Letter E, Section 20 Township 17-S, Range 30-E 1650' FNL & 330' FWL Grayburg Jackson Formation Eddie County, New Mexico

Tabular summary of all wells within one-half mile of the above well, which penetrates the zone that we are making application to inject produced water.

SECTION 20, TOWNSHIP 17-S, RANGE 30-E

Holly Energy, Inc. W. D. McIntyre 'D" No. 2 (NM-0467932)
2310' FSL & 1650' FWL, Unit Letter K, Field: Grayburg Jackson

		Estimated Top				
Hole Size	Casing Size		Depth	Sacks Cement	of Cement	
10"	8-5/8"	28#	500'	50	270'	
8-1/4"	7"	24#	2900 '	100	2130'	

Total Depth 3280'

Producing Interval 2688' - 3280' Grayburg and San Andres

General American's Dexter "E" No. 2 (LC-029342-E)
1650' FNL & 2310' FEL, Unit Letter G, Field: Grayburg Jackson

			Setting		Estimated Top
Hole Size	Casin	g Size	Depth	Sacks Cement	of Cement
10"	8-1/4	32#	512'	50	280 '
8-1/4"	7"	24#	3000'	100	2230 '
Total Depth	32751	PRTD 2870 L			

Producing Interval 2539' - 2870' Grayburg

Petroleum Corporation of Texas Jenkins "B" Federal No. 2 (IC-054988-B)

990' FNL & 330' FWL, Unit Letter D, Field: Grayburg Jackson

	•	Setting	•	Estimated Top
<u>Hole Size</u>	Casing Size	_Depth	Sacks Cement	of Cement
10"	8-1/4" 32#	500'	50	262'
8~1/4"	7" 20 <i>⋕</i>	2912'	100	2140'
	00651 0171	•		

Total Depth 3265' PBTD 3171'

Producing Interval 2912' - 3171' Grayburg-San Andres

Petroleum Corporation of Texas Jenkins "B" Federal No. 3 (LC-054988-B) 330' FNL & 2310' FWL, Unit Letter C, Field: Grayburg Jackson)

		Estimated Top			
Hole Size	Casing	Size	Depth	Sacks Cement	of Cement
10"	8-1/4"	32#	505 '	50	267'
8-1/4"	7"	24#	2875 '	100	2100'

Total Depth 3300' Producing Interval 2875' - 3300' Grayburg-San Andres

Ex A

SECTION 20, TOWNSHIP 17-S, RANGE 30-E

Petroleum Corporation of Texas Jenkins "B" Federal No. 4 (IC-054988-B)

1650' FNL & 1650' FWL, Unit Letter F, Field: Grayburg Jackson

Setting Estimated Top of Cement Depth Hole Size Casing Size Sacks Cement 506 10" 8-1/4" 32# 50 2631 8-1/4" 7" 20# 2845 100 23001

Total Depth 3253'

Producing Interval 2845' - 3253' San Andres

Petroleum Corporation of Texas Jenkins "B" Federal No. 5 (LC-054988-B)

330' FNL & 330' FWL, Unit Letter D, Field: Grayburg Jackson

Setting Estimated Top Casing Size 8-5/8" 22# of Cement Sacks Cement <u>Hole Size</u> Depth 12-1/4" 4961 150 Cement Circulated 7-7/811-5-1/2" 15.5# 3667 1 780' 625

Total Depth 3693'

Producing Interval 2480' - 3620' Grayburg-San Andres

Petroleum Corporation of Texas Jenkins "B" Federal No. 6 (IC-054988-B)

660' FNL & 1650' FWL, Unit Letter C, Field: Grayburg Jackson

Total Depth 3698'

Producing Interval 2502' - 3652' Grayburg-San Andres

Holly Energy, Inc. W. D. McIntyre "A" No. 7 (NM-0467932)

1650' FSL & 1980' FWL, Unit Letter K, Field: Loco Hills, Morrow So. (Gas)

Setting Estimated Top Sacks Cement Hole Size Casing Size Depth of Cement 501' 13-5/8" 48# 200 200' 12-1/4" 8-5/8" 32# 34941 1335 Surface 11,3711 7-7/8" 5-1/2" 17# 795 67801

Total Depth 11,400' PBTD 11,287'

Producing Interval 11,101' - 11,129' Morrow

SECTION 19, TOWNSHIP 17-S, RANGE 30-E

General American Burch "A" No. 25 (LC-028793-A)
2615 FSL & 1295 FEL, Unit Letter I, Field: Grayburg Jackson

		Setting		Estimated Top
Hole Size	Casing Size	Depth	Sacks Cement	of Cement
11"	8-5/8" 28#	5061	75	270'
8-1/4"	7" 20 <i>‡</i>	29761	100	22061
6-1/4"	4-1/2" 9.5# Lin	ner 2950'-3540	100	2950'

Total Depth 3540'

Producing Interval (Grayburg) 2536'-2905' (San Andres) 2980'-3540'

General American Burch "A" No. 22 (LC-028793-A)
1345' FNL & 1295' FEL, Unit Letter A, Field: Grayburg Jackson

		S	Setting		Estimated Top
Hole Size	Casing St	ize	Depth	Sacks Cement	of Cement
10-3/4"	8-5/8"	24#	4931	50	315'
8-3/4"	7"	20#	2676'	100	2143'
6-1/4"	4-1/2" 9	.5# Liner	2640'-3690'	175	2640'

Total Depth 3690'

Producing Interval (Grayburg) 2538-2890 (San Andres) 2950-3690

General American Burch "A" No. 10 (LC-028793-A)
990' FNL & 330' FEL, Unit Letter A, Field: Grayburg Jackson

		Setting		Estimated Top
Hole Size	Casing Size	Depth	Sacks Cement	of Cement
10-3/4"	8-5/8" 32#	4871	50	173'
8-1/4"	7" 20 <i>#</i>	2899 '	100	2364 '
6-1/4"	4-1/2" 9.5#	Liner 2868'-3678'	250	2868'

Total Depth 3672'

Producing Interval Grayburg-San Andres 2488'-3613'

General American Burch "A" No. 6 (LC-028793-A)
990' FNL & 660' FEL, Unit Letter H, Field: Grayburg Jackson

		Setting		Estimated Top
Hole Size	Casing Size	Depth	Sacks Cement	of Cement
11-3/4"	10" 40#	460'	70	190'
8-1/4"	6-5/8" 24#	2900'	40	2600'
6-1/4"	4-1/2" 9.5# Lin	ner 2693'-3702'	160	2693 1

Total Depth 3702'

Producing Interval Grayburg-San Andres 2628'-3498'

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SECTION 19, TOWNSHIP 17-S, RANGE 30-E

General American Burch "A" No. 7 (LC-028793-Δ)
660' FNL & 1980' FEL, Unit Letter B, Field: Grayburg Jackson

			Setting		Estimated Top
Hole Size	Casing	3 Size	Depth	Sacks Cement	of Cement
10-3/4"	8-5/8	32#	475'	50	140'
8-1/4"	7''	24#	2715'	100	2183'

Total Depth 3645' PBTD 2620'

Producing Interval Grayburg 2538' - 2620'

General American Burch "A" No. 11 (LC-028793-A)
2310 FSL & 330 FEL, Unit Letter I, Field: Grayburg Jackson

			Setting		Estimated Top
Hole Size	Casing	Size	<u>Depth</u>	Sacks Cement	of Cement
10-3/4"	8-5/8"	32#	480'	50	280'
8-1/4"	7"	24#	29081	100	2370'
m . 1	00171				

Total Depth 2917'

Producing Interval Grayburg 25321-29171

General American Burch "A" No. 31 (LC-028793-A)

1650' FSL & 760' FEL, Unit Letter I, Field: Grayburg Jackson

+ 4		Setting		Estimated Top
Hole Size	Casing Size	Depth	Sacks Cement	of Cement
12-1/4"	8-5/8" 20#	495'	100	250'
7-7/8"	4-1/2" 10.5#	3410'	600	1303'

Producing Interval Grayburg-San Andres 2543' - 3336'

General American Burch "A" No. 32 (LC-028793-A)

165' FNL & 1155' FEL, Unit Letter A, Field: Grayburg Jackson

		Setting		Estimated Top
Hole Size	Casing Size	Depth	Sacks Cement	of Cement
12-1/4"	8-5/8" 24#	4961	100	250'
7-7/8"	5 - 1/2" 14#	3625'	625	740 ¹
PBTD 3619'				

Producing Interval Seven Rivers-Grayburg-San Andres 1613; - 3582;

PETROLEUM CORPORATION OF TEXAS EXHIBIT "A" - Page 5

SECTION 17, TOWNSHIP 17-S, RANGE 30-E

Kennedy Oil Company McIntyre No. 4 (NM-074936)
660' FSL & 860' FWL, Unit Letter M, Field: Grayburg Jackson

Setting Estimated Top Casing Size 8-5/8" 24# Sacks Cement of Cement Hole Size Depth 11" 514' 225 Cement Circulated 7-7/8" 5-1/2" 15.5#
Total Depth 4277' PBTD 4247' 4276 500 1970'

Producing Interval Queen, Grayburg & San Andres (2016' - 4247'

General American Burch "A" No. 17 (LC-028793-A)

660' FSL & 660' FEL, Unit Letter P, Field: Grayburg Jackson

		Setting		Estimated Top
Hole Size	Casing Size	Depth	Sacks Cement	of Cement
Unknown	13-3/8" 48#	351	325	Unknown
Unknown	9-5/8" 36#	2726'	1450	Unknown
8-1/4"	7" 23 <i>#</i>	4209 '	300	3160'
Total Donth	7330 made 380.	7 1		

Total Depth 4220' PBTD 3807

Producing Interval Grayburg-Paddock, Grayburg & San Andres 2471' - 3573'

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EXHIBIT "C"

Section 7

Unknown Root #4

Unit L, 1980' FSL and 660' FWL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico.

NM-7752 Ander son Federal #1

Unit 0, 660' FSL and 1980' FEL, Township 17-S, Range 30-E,

Morrow formation, Eddy County, New Mexico.

NM-7752 Randel #1

Unit P, 330' FSL and 330' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

NM-7752 Price #1

Unit unknown, 1980' FSL and 1980' FEL, Township 17-S,

Range 30-E, Grayburg formation, Eddy County, New Mexico.

Section 8

NM-2748 Gissler "B" #13

Unit C, 660' FSL and 660' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

Section 9

LC-056551-A Holder Federal #3

Unit M, 660' FSL and 660' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-029342-B Loco Hills "B" Federal #7

Unit N, 660' FSL and 1980' FWL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico.

LC-056551-A Federal Gulf #1

Unit unknown, 330' FSL and 330' FEL, Township !7-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

Ex c

Section 12

NM-7747

Square Lk. 12 Unit, Tract 1-A #6

Unit 0, 660' FSL and 1980' FWL, Township 17-S, Range 30- E,

Grayburg formation, Eddy County, New Mexico.

Section 13

LC-028784-C

Keely "C" #52

Unit A, 660' FNL and 660' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-028784-C

Keely "C" #51

Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico.

LC-028784-C

Keely "C" #47

Unit G, 1980' FNL and 1980' FEL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico.

LC-028784-C

Keely "C" #45

Unit H, 1980' FNL and 735' FEL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico.

LC-028784-C

Keely "A" #22

Unit 1, 1980' FSL and 660' FEL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

LC-028784-C

Keely "C" #49

Unit J, 1980' FSL and 1980' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-028784-C

Keely "C" #48

Unit K, 1980' FSL and 1980' FWL, Township 17-S, Range 30-E,

Queen and San Andres formations, Eddy County, New Mexico.

LC-028784-C

Keely "C" #50

Unit L, 1980' FSL and 660' FWL, Township 17-S, Range 30-E,

Queen and Grayburg formations, Eddy County, New Mexico.

LC-028784-A

Keely "A" #18

Unit M, 660' FSL and 660' FWL, Township 17-S, Range 30-E,

Queen and San Andres formations, Eddy County, New Mexico.

LC-028784-A

Keely "A" #20

Unit N, 660' FSL and 1980' FWL, Township 17-S, Range 30-E,

Queen and San Andres formations, Eddy County, New Mexico.

Section 13 cont d.

LC-028784-A Keely "A" #17

Unit 0, 660' FSL and 1980' FEL, Township 17-S, Range 30-E, Queen and San Andres formations, Eddy County, New Mexico.

LC-028784-A Keely "A" #21

Unit P, 660' FSL and 660' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.

Section 16

B-1565 State "BE" #1
Unit B, 990' FNL and 2310' FEL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico.

B-2130 Randel State #1

Unit C, 990' FNL and 2310' FWL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

B-2130 Randel State #3

Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

B-2130 Randel State #2

Unit D, 990' FNL and 990' FWL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

B-2130 Randel State #4

Unit D, 660' FNL and 660' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

B-8095 Etz "C" State #8

Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico. WIW

Unknown Etz "C" State #9

Unit E, 1370' FNL and 660' FWL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico. WIW

B-8095 Etz "C" State #27

Unit E, 1850' FNL and 1315' FWL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

B-8095 Etz-State #7

Unit F, 2970' FSL and 1650' FWL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

B-8095 Etz "C" State #10

Unit F, 1370' FNL and 1980' FWL, Township 17-S, Range 30-E,

Seven Rivers formation, Eddy County, New Mexico.

Section 16 cont'd.

B-8095 Etz "C" State #12

Unit F, 1980' FNL and 2310' FWL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico. WIW

B-8095 Etz "C" State #19

Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

B-8838 Etz "B" State #6

Unit G, 2490' FNL and 2310' FEL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico. WIW

B-8838 Etz "B" State #14

Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

B-8838 Etz "B" State #18

Unit G, 1980' FNL and 1980' FEL, Township 17-S, Range 30-E,

Queen, Grayburg and San Andres formations, Eddy County, New

Mexico.

Unknown State #1

Unit H, 2140' FNL and 990' FEL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

8-2130 Randel State #5

Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.

B-936 Etz State #5

Unit 1, 3630' FNL and 330' FEL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

B-936 Etz State #5

Unit 1, 2310' FSL and 990' FEL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico.

B-936 Etz State #20

Unit 1, 1980' FSL and 660' FEL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

B-1483 Etz State #2-J

Unit J, 2970' FNL and 2310' FEL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico. WIW

B-1483 Etz "J" State #15

Unit J, 1650' FSL and 1650' FEL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

Section 16 cont'd.

B-936	Etz State #1 Unit K, 1650' FSL and 1980' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
B-936	Etz State #11 Unit K, 2310' FSL and 1770' FWL, Township 17-S, Range 30-E, Queen formation, Eddy County, New Mexico.
B-936	Etz State #24 Unit K, 2310¹ FSL and 2310¹ FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
B-936	Etz State #26 Unit K, 1625' FSL and 2630' FWL, Township 17-S, Range 30-E, Queen formation, Eddy County, New Mexico.
B-2209	Etz "A" State #2 Unit L, 1980' FSL and 660' FWL, Township 17-S, Range 30-E, Queen formation, Eddy County, New Mexico. WIW-SI
B-2209	Etz "A" State #16 Unit L, 1650' FSL and 660' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
B-3138	McCullough State ∦I Unit M, 330' FSL and 990' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.
B-3138	McCullough State #2 Unit M, 990' FSL and 990' FWL, Township 17-s, Range 30-E, Queen formation, Eddy County, New Mexico.
B - 936	Etz State #1 Unit N, 660' FSL and 1980' FWL, Township 17-S, Range 30-E, San Andres formation, Eddy County, New Mexico.
B-936	Etz State #23 Unit N, 990' FSL and 1650' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
B-1483	Elz "J" State *i Unit O, 330' FSL and 1980' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
B-1483	Etz "J" State #22 Unit O, 990' FSL and 2310' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.

Section 16 cont'd.

B-14837 Etz "J" State #25

Unit 0, 330' FSL and 1650' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

B-936 Etz State #4

Unit P, 330' FSL and 990' FEL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

Etz State #21 8-936

Unit P, 990' FSL and 330' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New MExico.

Section 17

Collier Federal #1 NM-2933

Unit A, 660' FNL and 660' FEL, Township 17-S, Range 30-E, Queen, Greyburg and San Andres formations, Eddy County,

New Mexico.

LC-064123 Gulf Federal #1

Unit A, 990' FNL and 330' FEL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

NM-2933 Collier Federal #2

Unit B, 660' FNL and 1980' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

NM-074936 McIntyre #1

Unit D, 330' FSL and 530' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-056551-A Holder CB Federal #2

Unit D, 660' FNL and 660' FWL, Township 17-S, Range 30-E,

Queen, Grayburg and San Andres formations, Eddy County,

New Mexico.

LC-056551-A Holder CB Federal #1

Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 30-E,

Queen, Grayburg and San Andres formations, Eddy County,

New Mexico.

Loco Hills "B" Federal #3 LC-029372-B

Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

NM-074936

Unit G. 1980' FNL and 1980' FEL, Township 17-s, Range 30-E,

Queen formation, Eddy County, New Mexico.

Section 17 cont'd.

NM-074936

McIntyre "D" #1

Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.

NM30-015-21177

McIntyre "D" #2

Unit H, 2310' FNL and 330' FEL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

LC-060527 McIntyre "F" #1

Unit 1, 1980' FSL and 660' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-060527 McIntyre "F" #2

Unit J, 1980' FSL and 1980' FEL, Township 17-S, Range 30-E,

Seven Rivers and Queen formations, Eddy County, New Mexico.

NM-074936 Arco #

Unit K, 1980' FSL and 1980' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

NM-074936 Arco #2

Unit L, 1980' FSL and 660' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

NM30-015-21178 McIntyre "D" #3

Unit N, 1650' FNL and 330' FEL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

NM-074936 McIntyre #6

Unit N, 990' FSL and 2310' FWL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

NM-074936 McIntyre #2

Unit 0, 330' FSL and 1650' FEL, Township 17-S, Range 30-E,

Queen and Grayburg formations, Eddy County, New Mexico.

NM-074936 McIntyre #3

Unit P, 660' FSL and 1980' FWL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico.

NM-074936 McIntyre #5

Unit P, 990' FSL and 990' Fel, Township 17-S, Range 30-E,

Grayburg and San Andres formation, Eddy County, New Mexico.

Section 18

LC-028793-C	Burch "C" #24 Unit A, 660' FNL and 660' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	
LC-028793-C	Burch "C" #21 Unit B, 660' FNL and 1980' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #25 Unit C, 660' FNL and 1893' FWL, Township 17-S, Range 30-E, San Andres formation, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #26 Unit D, 660' FNL and 617' FWL, Township 17-s, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #23 Unit E, 1980' FNL and 617' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	
14-08-001-1602	Grayburg Deep Unit #1 Unit F, 1980' FNL and 1894' FWL, Township 17-S, Range 30-E, Morrow formation, Eddy County, New Mexico,	
LC-028784-93-B	Burch "B" #24 Unit F, 2120' FNL and 1676' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	
30-015-21658	Burch "B" #31 Unit F, 2615' FSL and 3985' FEL, Township 17-S, Range 304E, Grayburg and San Andres formations, Eddy County, New Mexico.	
LC-028793-C	Burch "C" #20 Unit G, 1980' FNL and 1980' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	
LC-028793 - C	Burch "C" #23 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	
LC-028793-C	Burch "C" # 22 Unit 1, 1980' FSL and 660' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	

Section 18 cont'd.

LC-028793-C Burch "C" #19

Unit J, 1980' FSL and 1980' FEL, Township 17-S, Range 30-E,

Queen, Grayburg and San Andres formations, Eddy County,

New Mexico.

LC-028784-93-B Burch "B" #22

Unit K, 1980' FSL and 1894' FWL, Township 17-S, Range 30-E,

Queen, Grayburg and San Andres formations, Eddy County,

New Mexico.

LC-028784-93-B Burch "B" #21

Unit L, 1980' FSL and 617' FWL, Township 17-S, Range 30-E,

Queen and San Andres formations, Eddy County, New Mexico.

LC-028793-A Burch "A" #16

Unit M, 330' FSL and 905' FWL, Township 17-S, Range 30-E,

San Andres formations, Eddy County, New Mexico.

LC-028793-A Burch "A" #28

Unit M, 990' FSL and 330' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-028793-A Burch "A" #15

Unit N, 660' FSL and 1895' FWL, Township 17-S, Range 30-E,

Queen and Grayburg formations, Eddy County, New Mexico.

LC-028793-A Burch "A" #14

Unit 0, 660' FSL and 1980' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

Section 19

LC-028793-A Burch "A" #33

Unit B, 25' FNL and 2615' FEL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-028793-A Burch "A" #8

Unit C, 990' FNL and 2310' FWL, Township 17-S, Range 30-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-028793-A Burch "A" #9

Unit D, 990' FNL and 990' FWL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico,

Section 19 cont'd.

	The state of the s
LC-028793-A	Burch "A" #29 Unit D, 330' FNL and 330' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028 7 93-Ą	Burch "A" #3 Unit E, 1980' FNL and 600' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.
LC-028793-A	Burch "A" #23 Unit E, 2565' FNL and 955' FWL, Township I7-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028793-A	Burch "A" #4 Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 30-E, San Andres formation, Eddy County, New Mexico.
LC-028793-A	Burch "A" #12 Unit J, 2310' FSL and 2310' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028793-A	Burch "A" #27 Unit J, 1650' FSL and 1650' FEL, Township 17-S, Range 30-E, Seven Rivers formation, Eddy County, New Mexico.
LC-028 7 93-A	Burch "A" #13 Unit K, 2310' FSL and 1650' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
30-015-22092	Burch "A" #34 Unit K, 1650' FSL and 2970' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028793-A	Burch "A" #2 Unit L, 1980' FSL and 660' FWL, Township 17-S, Range 30-E, San Andres formation, Eddy County, New Mexico.
LC-028784-93-B	Burch "B" #6 Uni† M, 660' FSL and 660' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-93-B	Burch "B" #1 Unit N, 330' FSL and 1650' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-93-B	Burch "B" #13 Unit N, 990' FSL and 1650' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.

LC-060999

	Section 19 cont'd.
LC-028793-C	Burch "C" #35 Unit O, 330' FSL and 1650' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028793-C	Burch "C" #5 Unit P, 660' FSL and 660' FEL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.
LC-028793-C	Burch "C" #3 Unit P, 990' FSL and 2310' FEL, Township 17-S, Range 30-E, San Andres formation, Eddy County, New Mexico.
	Section 20
LC-029342-C	McIntyre "C" #2 Unit A, 330' FNL and 330' FEL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.
LC-029342-B	Dexter "B" # Unit B, 660' FNL and 1980' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-029342-C	McIntyre "C" #3 Unit H, 1650' FNL and 990' FEL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.
LC-054280	McIntyre "A" ∦ Unit 1, 2430' FSL and 990' FEL, Township 17-S, Range 30-E, San Andres formation, Eddy County, New Mexico.
LC-054280	McIntyre "A" #4 Unit I, 1650' FSL and 410' FEL, Township 17-5, Range 30-E, Abo formation, Eddy County, New Mexico.
LC-057634	McIntyre "A" ∦3 Unit J, 2365' FSL and 2310' FEL, Township !7-S, Range 30-E, San Andres formation, Eddy County, New Mexico.
LC-060999	McIntyre "B" #1 Unit L, 2310' FSL and 330' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.

McIntyre "B" #2 Unit M, 660' FSL and 660' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.

NM-074936

Section 20 cont'd.			
LC-029342-J	McIntyre "J" #6 Unit N, 660' FSL and 1980' FWL, Township 17-S, Range 30-E, San Andres formation, Eddy County, New Mexico. DRY HOLE		
LC-057634	McIntyre "A" #6 Unit O, 990 FSL and 1650 FEL, Township 17-S, Range 30-E, Morrow formation, Eddy County, New Mexico.		
LC-054280	McIntyre "A" #2 Unit P, 990' FSL and 990' FEL, Township 17-S, Range 30-E, Yates formation, Eddy County, New Mexico.		
LC-054280	Mclntyre "A" #5 Unit P, 990' FSL and 410' FEL, Township 17-S, Range 30-E, San Andres and Abo formations, Eddy County, New Mexico.		
∦ Unknown	McIntyre "C" #1 SE of Sec. 20, Township 17-S, Range 30-E, fermation unknown, Eddy County, New Mexico.		
	Section 21		
NM-074936	McIntyre "D" #11 Unit A, 660' FSL and 660' FEL, Township 17-S, Range 30-E, Yates thru Abo formations, Eddy County, New Mexico. DRY HOLE		
NM-0467932	McIntyre "E" #4 Unit A, 330' FNL and 990' FEL, Township 17-S, Range 30-E, Queen, Grayburg and San Andres formations, Eddy County, New Mexico.		
LC-060528	McIntyre "G" #! Unit B, 330' FNL and 2310' FEL, Township 17-S, Range 30-E Grayburg formation, Eddy County, New Mexico.		
LC-029342-C	McIntyre "C" #1 Unit D, 330' FNL and 990' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.		
LC-029342-D	McIntyre "D" #5 Unit H, 1650' FNL and 990' FEL, Township 17-S, Range 30-E, Grayburg formation,Eddy County, New Mexico.		
LC-029342 - A	Federal X #6 Unit I, 2310' FSL and 2310' FWL, Township 17-S, Range 30-E, Yates formation, Eddy County, New Mexico.		

Sinclair Federal #2 Unit J, 2230' FSL and 2100' FEL, Township 17-S, Range 30-E, Abo formation, Eddy County, New Mexico.

Section 21 cont'd.

	Section 21 cont'd.
NM-074936	McIntyre "D" #10 Unit J, 1650' FSL and 1980 FWL, Township 17-S, Range 30-E, Yates thru Abo formations, Eddy County, New Mexico. DRY HOLE
∦ Unknown	Federal X #1 NE/4 SW/4 of Sec., Township 17-S, Range 30-E, Unit K, Seven Rivers formation, Eddy County, New Mexico.
LC-029392-A	McIntyre #2-A Unit K, 3210' FSL and 1650' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-029342-∙A	Maintyre "A" # 4A-X Unit K, 1600' FSL and 2310' FWL, Township 17-S, Range 30-E, Queen formation, Eddy County, New Mexico. DRY HOLE
∦ Unknown	Woolley Federal #3 Unit K, 1980' FSL and 1650' FWL, Township 17-S, Range 30-E, Abo formation, Eddy County, New Mexico.
LC-029342	Brigham "H" # Unit L, 2340' FSL and 330' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-029342	Brigham "H" #2 Unit L, 1650' FSL and 330' FWL, Township 17-S, Range 30-E, Abo formation, Eddy County, New Mexico.
LC-029342-A	Woolley Federal #1 Unit M, 660' FSL and 660' FWL, Township 17-S, Range 30-E, Abo formation, Eddy County, New Mexico. SWD
LC-029342-A	Federal X #4 Unit M, 330' FSL and 990' FWL, Township 17-S, Range 30-E, Yates formation, Eddy County, New Mexico.
LC-029342-A	Federal X #7 Unit M, 990' FSL and 330' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.
LC-029342-A	Federal X #5 Unit N, 330' FSL and 2310' FWL, Township 17-S, Range 30-E, Seven Rivers formation, Eddy County, New Mexico.
LC-029342-A	Woolley #2 Unit N, 1750' FWL and 890' FSL, Township 17-S, Range 30-E, Morrow formation, Eddy County, New Mexico.

Section 24

Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #23 Unit A, 330' FNL and 990' FEL, Township 17-S, Range 29-E, Queen formation, Eddy County, New Mexico. LC-028784-A Keely "A" #10 Unit B, 660' FNL and 1980' FWL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #16 Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 29-E San Andres formation, Eddy County, New Mexico. LC-028784-A Keely "A" #19 Unit D, 660' FNL and 660' FWL, Township 17-S, Range 29-E, Grayburg formation, Eddy County, New Mexico. LC-028784-A Keely "A" #9 Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexico. LC-054406 Dexter #1 Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #4 Unit G, 2340' FNL and 1650' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #4 Unit G, 1650' FNL and 1650' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico.		00011011 21
Unit A, 330' FNL and 990' FEL, Township 17-S, Range 29-E, Queen formation, Eddy County, New Mexico. LC-028784-A Keely "A" # IO Unit B, 660' FNL and 1980' FEL, Township 17-S, Range 29 - E Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" # I6 Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 29-E San Andres formation, Eddy County, New Mexico. LC-028784-A Keely "A" # I9 Unit D, 660' FNL and 660' FWL, Township 17-S, Range 29-E, Grayburg formation, Eddy County, New Mexico. LC-028784-A Keely "A" # 9 Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter # I Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter # 2 Unit F, 1345' FN! and 1345' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" # 4 Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" # 15 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" # 2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" # 2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" # 2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" # 2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexico.	LC-028784-A	Keely "A" #3 Unit A, 990' FNL and 330' FEL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
Unit B, 660' FNL and 1980' FEL, Township 17-S, Range 29 - E Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #16 Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 29-E San Andres formation, Eddy County, New Mexico. LC-028784-A Keely "A" #19 Unit D, 660' FNL and 660' FWL, Township 17-S, Range 29-E, Grayburg formation, Eddy County, New Mexico. LC-028784-A Keely "A" #9 Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter #1 Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter #2 Unit F, 1345' FN! and 1345' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #4 Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29-formation unknown, Eddy County, New Mexi LC-028784-A Keely "A" #5 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico.	LC-028784-A	Unit A, 330' FNL and 990' FEL, Township 17-S, Range 29-E,
Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 29-E San Andres formation, Eddy County, New Mexico. LC-028784-A Keely "A" #19 Unit D, 660' FNL and 660' FWL, Township 17-S, Range 29-E, Grayburg formation, Eddy County, New Mexico. LC-028784-A Keely "A" #9 Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexico. LC-054406 Dexter #1 Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-054406 Dexter #2 Unit F, 1345' FN! and 1345' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #4 Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #15 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico.	LC-028784-A	Keely "A" #10 Unit B, 660' FNL and 1980' FEL, Township 17-S, Range 29 -E, Grayburg and San Andres formations, Eddy County, New Mexico
Unit D, 660' FNL and 660' FWL, Township 17-S, Range 29-E, Grayburg formation, Eddy County, New Mexico. LC-028784-A Keely "A" #9 Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter #1 Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter #2 Unit F, 1345' FN! and 1345' FNL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #4 Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #15 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E	LC-028784-A	Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 29-E,
Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 29-E Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter #1 Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29- Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter #2 Unit F, 1345' FNL and 1345' FWL, Township 17-S, Range 29- Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #4 Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29- formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #15 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29- Grayburg and San Andres formations, Eddy County, New Mexic LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E	LC-028784-A	Unit D, 660' FNL and 660' FWL, Township 17-S, Range 29-E,
Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-054406 Dexter #2 Unit F, 1345' FNL and 1345' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #4 Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29-formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #15 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexico. LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E	LC-028784-A	Keely "A" #9 Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico
Unit F, 1345' FN! and 1345' FWL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexit LC-028784-A Keely "A" #4 Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29-formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #15 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexit LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E		Dexter # Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico
Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29- formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #15 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29- Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E	LC-054406	Dexter #2 Unit F, 1345' FNL and 1345' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico
Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29-Grayburg and San Andres formations, Eddy County, New Mexi LC-028784-A Keely "A" #2 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E	LC-028784-A	Unit G, 2310' FNL and 1650' FEL, Township 17-S, Range 29-E,
Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E formation unknown, Eddy County, New Mexico. LC-028784-A Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E	LC-028784-A	Keely "A" #15 Unit G, 1650' FNL and 2310' FEL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico
Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E	LC-028784-A	Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E,
	LC-028784-A	Keely "A" #5 Unit 1, 2310' FSL and 330' FEL, Township 17-S, Range 29-E, Queen and San Andres formations, Eddy County, New Mexico.

Section 24 cont'd.

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LC-028784-A	Keely "A" #11 Unit 1, 1650' FSL and 990' FEL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-A	Keely "A" #8 Unit J, 1980' FSL and 1980' FEL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-A	Keely "A" #27 Unit J, 1345' FSL and 2615' FEL, Township 17-S, Range 29-E, Seven Rivers, Graburg and San Andres formations, Eddy County, New Mexico.
LC-028784-A	Keely "A" #7 Unit K, 1980' FSL and 1980' FWL, Township 17-S, Range 29-E, San Andres formation, Eddy County, New Mexico.
LC-028784-A	Keely "A" #24 Unit K, 2535' FSL and 2615' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-A	Keely "A" #6 Unit L, 1980' FSL and 660' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-A	Keely "A" #25 Unit L, 2615' FSL and 1295' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-A	Keely "A" #26 Unit L,2615' FSL and 25' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-B	Keely "B" #3 Unit M, 660' FSL and 660' FWL, Township 17-S, Range 29-E, formation unknown, Eddy County, New Mexico.
LC-028784-93-B	Keely "B" #24 Unit M, 660' FSL and 560' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-93-B	Keely "B" #2 Unit N, 660' FSL and 1980' FWL, Townhip 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028784-93-B	Keely "B" #26 Unit N, 1295' FSL and 1345' FWL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.

Section 24 cont'd.

LC-028784-C

Keely "C" #5

Unit 0, 660' FSL and 1980' FEL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico.

LC-028784-C

Keely "C" #4

Unit P, 660' FSL and 660' FEL, Township 17-S, Range 29-E,

Grayburg formation, Eddy County, New Mexico.

Section 25

LC-028784-C

Grayburg Deep Unit #5

Unit A, 330' FNL and 660' FEL, Township 17-S, Range 29-E,

Abo formation, Eddy County, New Mexico.

LC-028784-C

Keely "C" #8

Unit A, 660' FNL and 660' FEL, Township 17-S, Range 29-E,

Grayburg formation, Eddy County, New Mexico.

LC-028784-C

Keely "C" #40

Unit A, 25' FNL and 25' FEL, Township 17-S, Range 29-E,

San Andres formation, Eddy County, New Mexico.

LC-028784-C

Keely "C" #7

Unit B, 660' FNL and 1980' FEL, Township 17-S, Range 29-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-028784-C

Keely "C" #39

Unit B, 25' FNL and 2615' FEL, Township 17-S, Range 29-E,

Grayburg and San Andres formations, Eddy County, New Mexico.

LC-028784-93-B

Keelv "B" ∦6

Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 29-E,

San Andres formation, Eddy County, New Mexico. WIW

LC-028784-93-B

Keely "B" # 14

Unit C, 25' FNL and 1345' FWL, Township 17-S, Range 29-E,

San Andres formation, Eddy County, New Mexico.

LC-028784-93-B

Keely "B" #20

Unit C, 1295' FNL and 2615' FWL, Township 17-S, Range 29-E,

San Andres formation, Eddy County, New Mexico.

LC-028784-C

Keely "C" #11

Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 29-E,

formation unknown, Eddy County, New Mexico.

Section 25 cont'd.

LC-028784-C Keely "C" #12 Unit G, 1980' FNL and 1980' FEL, Township 17-S, Range 29-E, San Andres formation, Eddy County, New Mexico. Keely "C" #13 LC-028784-C Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 29-E, San Andres formation, Eddy County, New Mexico. LC-028784-C Keely "C" #30 Unit H, 1345! FNL and 1295' FEL, Township 17-S, Range 29-E, San Andres formation, Eddy County, New Mexico. Keely "C" #20 LC-028784-C Unit 1, 1980' FSL and 660' FEL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico. Keely "C" #34 LC-028784-C Unit 1, 2615' FSL and 1295' FEL, Township 17-S, Range 29-E, Grayburg and San Andres formations, Eddy County, New Mexico. Keely "C" #33 LC-028784-C Unit J, 2615' FSL and 2615' FEL, Township 17-S, Range 29-E, San Andres formation, Eddy County, New Mexico. Section 28 LC-028936-C Federal S #1 Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 30-E,

Grayburg formation, Eddy County, New Mexico. Federal S #3 LC-028936-C Unit C, 330' FNL and 2310' FWL, Township 17-S, Range 30-E, Seven Rivers formation, Eddy County, New Mexico. LC-028936-C

Federal S #4 Unit F, 1650' FNL and 2310' FWL, Township 17-S, Range 30-E, Seven Rivers formation, Eddy County, New Mexico.

Grayburg-Jackson Premier Sand Unit #3 30-015-21692 Unit J, 2310' FSL and 2310' FEL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.

LC-028936-C Federal S #6 Unit K, 1980' FSL and 1980' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.

Section 29

LC-028936-D U.S.A. Woolley "C" #1

Unit A, 330' FNL and 330' FEL, Township 17-S, Range 30-E,

Abo formation, Eddy County, New Mexico.

NM-18300 Federal EX #1

Unit G, 1980' FNL and 1980' FEL, Township 17-S, Range 30-E,

Seven Rivers and San Andres formations, Eddy County, New

Mexico. DRY HOLE

NM-18300 Hudson Federal #1

Unit G, 1990' FNL and 1970' FEL, Township 17-S, Range 30-E,

Seven Rivers and Queen formations, Eddy County, New Mexico.

LC-028936-D Arnold #9-E

Unit I, 1650' FSL and 1650' FEL, Township 17-S, Range 30-E,

Yates, Grayburg and San Andres formations, Eddy County, New

Mexico.

LC-028936-D Loco Hill Fed. Comm. #1

Unit L, 1980' FSL and 990' FWL, Township 17-S, Range 30-E,

Morrow formation, Eddy County, New Mexico.

LC-028936-D Woolley #7-D

Unit L, 1650' FSL and 990' FWL, Township 17-S, Range 30-E,

Queen Formation, Eddy County, New Mexico,

LC-060529 Beeson "F" #9

Unit N, 330' FSL and 2310' FWL, Township 17-S, Range 30-E,

Yates, Queen and Grayburg formations, Eddy County, New Mexico.

LC-060529 Beeson "F" #8

Unit 0, 1650' FEL and 330' FSL, Township 17-S, Range 30-E,

Seven Rivers, Queen and Grayburg formations, Eddy County,

New Mexico.

LC-028936-J Federal "T" #1

Unit P, 330' FSL and 330' FEL, Township 17-S, Range 30-E,

San Andres formations, Eddy County, New Mexico.

Section 30

Section 30		
LC_028793-C	Burch "C" #16 Unit A, 660' FNL and 660' FEL, Township 17-S, Range 30-E, San Andres formation, Eddy County, New Mexico.	
LC-028793-C	Burch "C" #9 Unit B, 660' FNL and 1980' FEL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #10 Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #15 Unit C, 330' FNL and I260' FWL, Township I7-S, Range 30-E, formation unknown, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #32 Unit C, 1295' FNL and 2665' FEL, Township 17-S, Range 30-E, Seven Rivers, Grayburg and San Andres formations, Eddy County, New Mexico.	
LC-028784-93-B	Grayburg Deep Unit #6 Unit C, 330' FNL and 1980' FWL, Township 17-S, Range 30-E, no producing formation, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #9 Unit D, 660' FNL and 660' FWL, Township 17-S, Range 30-E, formation unknown, Eddy County, New Mexico.	
LC-028784-93-B	Burch "8" #11 Unit E, 1980' FNL and 660' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #12 Unit F, 1980' FNL and 1980' FWL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.	
LC-028784-93-B	Burch "B" #16 Unit F, 1345' FNL and 1260' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	
LC-028793-C	Burch "C" #18 Unit G, 1980' FNL and 1980' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.	

Section 30 cont'd.

	30011011 30 CONT U.
LC-028793-C	Burch "C" #26 Unit H, 1980' FNL and 660' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028793-C	Burch "C" #28 Unit J, 1980' FSL and 1980' FEL, Township 17-S, Range 30-E, Grayburg and San ANdres formations, Eddy County, New Mexico.
LC-028793-C	Burch "C" #41 Unit J, 2615' FSL and 2615' FEL, Township 17-S, Range 30-E, Seven Rivers, Grayburg and San Andres formations, Eddy County New Mexico.
LC-028793-C	Burch "C" #27 Unit K, 1980' FSL and 1980' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028793-C	Grayburg Deep Unit #4 Unit L, 1946' FSL and 662' FWL, Township 17-S, Range 30-E, Abo formation, Eddy County, New Mexico.
LC-028793-C	Burch "C" #30 Unit M, 660' FSL and 622' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028793-C	Burch "C" #3 Unit N, 660' FSL and 1980' FWL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
LC-028793-C	Burch "C" #32 Unit O, 660' FSL and 1980' FEL, Township 17-S, Range 30-E, Grayburg and San Andres formations, Eddy County, New Mexico.
	Section 31
LC-060529	Beeson "F" #7 Unit A, 990' FNL and 330' FEL, Township 17-S, Range 30-E, Queen and Grayburg formations, Eddy County, New Mexico.
10.000520	December 415

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	Section 31	
LC-060529		EL, Township 17-S, Range 30-E, ns, Eddy County, New Mexico.
LC-060529		FEL, Township 17-S, Range 30-E, mations, Eddy County, New Mexico.
LC-060529	Beeson "F" #II Unit H, 1650' FNL and 330' Grayburg formation, Eddy Co	FEL, Township 17-S, Range 30-E, unty, New Mexico.

Section 31 cont'd.

LC-060529

Beeson "F" #10

Unit unknown, 990' FNL and 1650' FEL, Township 17-S, Range 30-E, Grayburg formation, Eddy County, New Mexico.

Section 32

B-4108

Carper-Miles-Talmadge State #3-A

Unit B, 330' FNL and 330' FEL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

B-4108

State B-4108 #1

Unit C, 660' FNL and 1980' FWL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

∦ unknown

State #1-D

Unit D, 990' FNL and 990' FEL, Township 17-S, Range 30-E,

Queen formation, Eddy County, New Mexico.

Unknown

State #1-DD

Unit D, 990' FNLand 330' FWL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico.

B-4108

Scheurich #7-B

1650' FNL and 4950' FEL, Township 17-S, Range 30-E, Unit E,

San Andres formation, Eddy County, New Newtico.

Unknown

Scheurich #8-B

Unit F, 1650' FNL and 1650' FWL, Township 17-S, Range 30-E,

San Andres formation, Eddy County, New Mexico. WIW

,		PLAN-O-GRAM
		EXHIBIT "E"
	\ 	Company Petroleum Corporation of Texas
		(LC-054988-B) Well No. 1 Leose Jenkins "B" Federal
: -:		Unit Letter E, 1650' FNL & 330' FWL Section 20, Township 17-S, Range 30-E
		12" Hole 10-3/4" Csg. 40# Set @ 479' w/50 sx cmt. Estimated top 156'
		Casing tbg. annulus will be filled with an inert fluid.
		Whin stand One form C-108 (and top © 257') NOTE: The well will be equiped with a pressure gauge attached to the annulus to detect leakage, and a pop-off valve that will limit injection pressure to no more than .2 lbs. PSI per foot of depth.
American de constitución de co		than .2 lbs. PSI per foot of depth.
CLEVAGUE (CLESCOME SIT MERCHANISM)		a
The state of the s	,	2-3/8" Plastic lined tubing will be set @ 2948'.
		2 x 7 Baker ADI Tension Packer will be set @ 2950'7" Csg. 24# Set @ 3000' w/100 sx cement. Estimated top 2663'.
		Dpen hole completion 3000'-3258' (San Andres)TD 3258' - 9-5/8" Cable tool hole.
	Cementing	Special Tools Acidizing Chemical Services
•	Extra il Cara es di	THE THE TAXABLE AVAY AREA YOUR WILLIAM
	Formation Testing	Fracturing OIL WILL CEMENTING COMPANY Dump Bailer Casing Equipment
	± 1	EX E
		्रेस के विकास का क्षेत्र के किया है। जिस्सी के किया के किया के किया किया है। जिस्सी के किया किया किया किया किय विकास के किया किया किया किया किया किया किया किया

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JENKINS "B" FEDERAL (LC-054988-B)
WELL NO. 1
Unit Letter E, 1650' FNL & 330' FWL
Section 20, Township 17-S, Range 30-E
Eddie County, New Mexico

Source of injection fluid into the above well will be from the following wells on the same lease:

WELL NO.	UNIT <u>LETTER</u>	LOCATION	FORMATION	
2	D	990' FNL & 330' FWL	Grayburg - San Andres	
3	C	330' FNL & 2310' FWL	Grayburg - San Andres	
4	F	1650' FNL & 1650' FNL	Grayburg - San Andres	
5	D	330' FNL & 330' FWL	Grayburg - San Andres	
6	С	660' FNL & 1650' FWL	Grayburg - San Andres	

these weeks 125 BWPD make about I00

Ex E

Cochran Chemical Company, Inc.



DE-EMULSIFIERS • WATERFLOOD CHEMICALS • PARAFFIN SOLVENTS • SCALE REMOVER & INHIBITORS

P. O. DRAWER 1341

PHONE 257-2825

CCC, INC. P. O. Box 5421 MIDLAND, TEXAS 79701 682.7860

WEWOKA, OKLAHOMA 74884

PETROLEUM CORPORATION OF TEXAS May 24, 1977

PETROLEUM CORPORATION OF TEXAS Jenkins "B" Lease Loco Hills, New Mexico

INTRODUCTION:

A sample of water has been analyzed in our laboratory and we are pleased to submit a water analysis which includes total dissolved solids, pH, and the concentrations of Chlorides and Sulfates.

WATER ANALYSIS:

Total Solids	20,600	Mq/L
Total Chlorides	9,620	ņ
pH7.15		
Sulfate	1,010	Mq/L

Dr. William B. Hughes Chemist

Ex G

CASE 6175: Application of Petroleum Corporation of Texas for salt water disposal, Eddy County, New Mexico.
Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the
San Ardres formation through the open-hole interval From 3000 feet to 3258 feet in its Jenkins
"B" Fed. Well No. 1 located in Unit 2 of Section 20, Township 17 South, Range 30 East, Grayburg-Jackson Pool, Eddy County, New Mexico.

CASE 6176: Application of Read & Stevens, Inc., for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Scharb Com Well No. 1 located in the center of Unit J of Section 7, Township 19 South, Range 35 East, Scharb-Bone Spring Pool; Lea County, New Mexico.

CASE 6156: (Readvertised)

Application of Southland Royalty Company for an unorthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its East Well No. 5A to be located 1120 feet from the North line and 1790 feet from the West line of Section 24, Township 31 North, Range 12 West, Blanco-Mesaverde Pool, San Juan County, New Mexico.

- CASE 6177: Application of Texas International Petroleum Corporation for directional drilling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the directional drilling of a proposed gas well, the surface location of which would be 1650 feet from the South line and 1800 feet from the East line of Section 29, Township 20 South, Range 30 East, Golden Lane Field, Eddy County, New Mexico, in such a manner as to bottom said well in the Morrow formation within 100 feet of a point 1980 feet from the North line and 1985 feet from the West line of said Section 29, the N/2 of the Section to be dedicated to the well.
- CASE 6178: In the matter of the application of the Oil Conservation Commission of New Mexico upon its own motion for an order creating and extending certain pools in Chaves, Eddy, Lea, and Roosevelt Counties, New Mexico, and the assignment of a discovery allowable in Eddy County, New Mexico.
 - (a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Alacran Hills-Atoka Gas Pool. The discovery well is the Read and Stevens, Inc. WR State Com Well No. 1 located in Unit X of Section 6, Township 21 South, Range 27 East, NATM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, MARM Section 6: Lots 9, 10, 15, 16 & SE/4

(b) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the West Malaga-Atoka Gas Pool. The discovery well is the HNG Oil Company Valdez 5 Com Well No. 1 located in H of Section 5, Township 24 South, Range 28 East, NATPM. Said pool would comprise:

TOWNSHIP 24 SCUTH, RANGE 28 EAST, NAPM Section 5: E/2

(c) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the Palmillo-Wolfcamp Pool, and assign 43,300 barrels of discovery allowable to the discovery well, Southland Royalty Company Palmillo State Well No. 1 located in Unit G of Section 32, Township 18 South, Rarge 29 East, NAPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NAPM Section 32: NE/4

(d) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the Railroad Mountain-San Andres Pool. The discovery well is the Harlow Corporation Graves Well No. 1 located in Unit F of Section 11, Township 8 South, Range 28 East, NAPM. Said pool would comprise:

TOWNSHIP 8 SOUTH, RANGE 28 EAST, NMPM Section 11: NW/4

(e) EXTEND the Angell Ranch-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 31: All

(f) EXTEND the Avalon-Strawn Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SCUTH, RANGE 27 EAST, NMPM Section 31: S/2 Section 32: S/2

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO .

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

CASE NO6175
Order No. R- 5671
APPLICATION OF PETROLEUM CORPORATION OF TEXAS FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.
ORDER OF THE COMMISSION
BY THE COMMISSION:
This cause came on for hearing at 9 a.m. on March 8, 1978 at Santa Fe, New Mexico, before Examiner, Daniel S. Nutter
NOW, on this <u>day of March</u> , <u>1978</u> , the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,
FINDS:
(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
(2) That the applicant, Petroleum Corporation of Texas
is the owner and operator of theJenkins "B" Fed. Well No. 1 ,
located in Unit E of Section 20 , Township 17 South ,
Range 30 East , NMPM, Grayburg-Jackson Pool ,
Eddy County, New Mexico.
(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the San Andres
formation, with injection into the open-hole interval
from approximately 3000 feet to 3258 feet.
(4) That the injection should be accomplished through
inch plastic lined tubing installed in a packer
set at approximately 2950 feet; that the casing-tubing annulus
should be filled with an inert fluid; and that a pressure gauge
or approved leak detection device should be attached to the

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CASE	NO.		

annulus in order to determine leakage in the casing, tubing, or packer.

- with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 600 psi.
- (6) That the operator should notify the supervisor of the Artesia district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (7) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.
- (8) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1)	That the	applicant,	Petr	coleum Corp	oration of	Texas_,
is hereby	authorize	d to utili	ize its	Jenkins "	B" Fed. Wel	1 No. 1,
located i	n Unit <u>E</u>	of Sect	tion 20) Towns	hip <u>17</u>	South,
Range 30	East	, NMPM,	Gray	burg-Jacks	onPool	
Eddy	Count	y, New Moz	kico, to	dispose o	f produced	salt
water into	o the Sa	n Andres			formatio	n, injec-
tion to b	e accompli	shed throu	igh	2/	3	inch
tubing in	stalled in	a packer	set at	approximat	ely 2950	eet,
with inje	ction into	the open-	-hole	interval f	rom approxi	mately
3000	feet to	3258	feet;			

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

- (2) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 600 psi.
- (3) That the operator shall notify the supervisor of the Artesia district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.
- (4) That the operator shall immediately notify the supervisor of the Commission's Artesia district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.
- (5) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (6) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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