

BTA OIL PRODUCERS

104 SOUTH PECOS MIDLAND, TEXAS 79701 AC 915-682-3753

June 28, 1990

ROJKY MOUNTAIN DIVISION 555-177H STREET SUITE 835 DENVER, CO 80202 AC 303-292-9299

10037

PECK 7-3-94

RE: BTA - Application for Salt Water Disposal Lovington, 8903 JV-P, Well No. 3 Sec. 17, T16S, R37E Lea County, New Mexico

STATE OF NEW MEXICO Energy & Minerals Dept. Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Attn: Mr. David Catanach

Mr. Catanach:

We hereby request administrative approval of our application for Salt Water Disposal into the above referenced well.

All offset operators and the surface owner have been mailed a complete copy of our application by certified mail.

We have mailed our legal notice to the E-vington Daily Leader for publication. We will forward the "proof of publication" as soon as received.

Please advise if this application will require a hearing or if additional information is required.

Sincerely,

erathy Dougtten

DOROTHY HOUGHTON For BTA Oil Producers

DH/pd1

Attachments

xe: Hobbs District Office

MIDLAND PARTNERS CARLTON BEAL, JR. BARRY BEAL SPENCER BEAL KELLY BEAL DENVER PARTNER BARRY BEAL, JR.

ENERG	STATE OF NEW MEXICO Y AND MINERALS DEPART		DOI 10 DEFINITION DI UNICIONALI DI UNICIONAL		im L-108 Vised 7-1-81
APPLICA	TION FOR AUTHORIZATIO	N TO INJECT		Care	
Ι.			Pressure Mainten		Storage
II.	Operator:BTA	Oil Produc	ers		
	Address: 104	South Peco	s, Midland, TX	79701	
	Contact party: Dor	othy Hought	on	Phone: 915-68	2-3753
111.	Well data: Complete proposed		ired on the reverse . Additional sheets		
17.	Is this an expansion If yes, give the Div				•
۷.	Attach a map that id injection well with well. This circle i	a one-half_mil	e radius circle draw	n around each propo	
* VI.	Attach a tabulation penetrate the propos well's type, constru a schematic of any p	ed injection z ction, date dr.	one. Such data shal illed, location, dep	l include a descrip th, record of compl	tion of each
VII.	Attach data on the p	roposed operat:	ion, including:		
	 Whether the size Proposed ave Sources and size the receiv If injection at or with the dispose 	system is open rage and maximu an appropriate ing formation : is for dispose in one mile of al zone format:	um daily rate and vo or closed; um injection pressur analysis of injecti if other than reinje al purposes into a z the proposed well, ion water (may be me rby wells, etc.).	e; on fluid and compat cted produced water one not productive attach a chemical a	ibility with ; and of oil or gas nalysis of
*VIII.	Attach appropriate ge detail, geological na bottom of all underge total dissolved solid injection zone as we injection interval.	ame, thickness round sources o ds concentratio	, and depth. Give t of drinking water (a ons of 10,000 mg/l o	he geologic name, a quifers containing r less) overlying t	nd depth to waters with he proposed
IX.	Describe the proposed	d stimulation p	orogram, if any.		
* X.	Attach appropriate lo with the Division the			(If well logs have	been filed
* XI.	Attach a chemical and available and product location of wells and	ing) within one	e mile of any inject		
XII.	Applicants for dispose examined available ge or any other hydrolog source of drinking wa	eologic and eng gic connection	jineering data and f	ind no evidence of	open faults
XIII.	Applicants must comp	lete the "Proof	f of Notice" section	on the reverse sid	e of this form.
XIV.	Certification				
	I hereby certify that to the best of my kno	owledge and bel	.ief.		
	Name: Dorothy H	oughton	, Tit	le Regulatory A	dministrator

Si

Signature	Dorathy Dought	Date: <u>6-28-9</u>	0

* 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.

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A descr_ption 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 dement 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 hear..ng 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 applications within 15 days from the date this application was mailed to them. Lovington, 8903 JV-P No. 3-SWD 660' FNL & 760' FEL A, Sec. 17, T16S, R37E Lea County, NM

Form C-108 Attachment

Hole Size

111. Injection Well Data Sheet

this area:

		<u>nore srze</u>
Surface Casing:	13-3/8" @ 403' w/ 425 ex circ	17-1/2"
intermediate Casing:	3-578" @ 4454' w/1800 ax cir-	1."
	5-1/2" @ 11800' w/ 150 x; (Shot off esg @ 11.020', recover 271 jts)	7-7/8"
T <u>ital Pepth</u> :	11,800'	
:dbi <u>n</u> g:	2-7/8" fiberglass tubing @ 02000	
<u>Fack</u> <u>r</u> .	Eaker Loc-set Packer @ 2100"	
Name of I <u>njectica Jormatic</u> s:	Yates	
Injection Interval:	a,300 - 4,000°	
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Lovington, 8903 JV-P, No. 3-SWD Lea County, NM Attachment to C-108 June 28, 1990 Page -2-

VI. Tabulation of Data on all Wells in Review Area \underline{Well} : Harvey E. Yates Co. E. Lovington "8" #1 Location: 330' FSL & 660' FEL -P-, Sec. 8, T16S, R37E Lea County, New Mexico Type Well: 0il Producer 13-3/8" @ 391' w/ 400 sx - Circ Construction: 8-5/8" @ 4497' w/1370 sx - Circ 5-1/2" @ 11798' w/1200 sx -03-27-83 Date Drilled: Record of Completion: Perfs 11,476 - 11,488' IPF 646 BO Comp 05-14-83 Add'l Perfs 04-17-85 11,435 - 11,504' Note: Filed intent to F&A 12-28-89 <u>Well:</u> Harvey E. Yates Co. E. Lovington "8" #2 1874' FSL & 554' FEL Location: -I-, Sec. 8, T16S, R37E Lea County, New Mexico Type Well. 011 Producer 13-3/8" @ 405' w/ 450 sx - Circ 8-5/8" @ 4475' w/1600 sx - Circ Construction: 5-1/2" @ 11800' w/ 375 sk - TOC @ 10450' bate brilled: 03-07-86 Record of Completion: Perfs 11,498 - 11,508' IPF 428 BO Comp 04-09-86

Lovington, 8903 JV-P, No. 3-SWD Lea County, NM Attachment to C-108 June 28, 1990 Page -3-

<u>Well</u> :	BTA Oil Producers Lovington #1
Location:	2130' FNL & 1980' FEL -G-, Sec. 17, T16S, R37E Lea County, New Mexico
<u>Type Well</u> :	Oil Producer
<u>Construction</u> :	13-3/8" @ 407' w/ 450 sn - Circ 8-5/8" @ 4400' w/1800 sn - Circ 5-1/2" @ 11750' w/2000 sn - Circ
Date Drilled:	01-06-90
<u>Record of Completion</u> :	Perfs 11,486 - 11,528' IPF 543 BO Comp 02-20-90
<u>Xell</u> :	BTA Oil Producers Lovington #2
Lucation:	1980' FNL & 310' FEL -H-, Sec. 17, T16S, R37E Lea County, New Mexico
<u>file Mell</u> :	Oil Producer
<u>Construction</u> :	13-378" @ 418' w/ 450 sx - Circ 8-578" @ 4415' w/1900 +x - Circ 5-172" @ 11030' w/2000 sx - TOC @ 800'
Date Drilled:	03-27-90
Record of Completion:	Perfs 11,474 - 11,308' IPF 338 BO Comp 64-25-90

Lovington, 8903 JV-P, No. 3-SWD Lea County, NM Attachment to C-108 June 28, 1990 Page -4-

VII. Proposed Operation

Storage tanks will be located on the well site along with a powered salt water disposal pump. A salt water gathering system will transport from our tank battery, located at our 8903 Lovington #1 well, 1900 feet southwest. At the present time, only the Lovington #2 well is producing water at a rate of 95 barrels per day. If the wells' disposal capacity is such to handle additional water, other operator's wells in the area may be trucked in to the storage tanks. The system will be open.

The average injection rate is estimated at 500 BWPD. The proposed maximum injection rate is 1000 BWPD. The proposed average injection pressure is 1000 psi. The proposed maximum injection pressure is 1250 psi. The sources of injected water will be from the Strawn.

VIII.

<u>Geological Name</u> :	Yates	Sand
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Lithological Detail: Sandstone, red, fine - medium grained, fair to good porosity, interbedded with anhydrite, medium-well sorted.

Thickness: 700'

Depth: 3294 - 4000'

Geological Data of <u>Drinking Water Zone</u>: The underground source of drinking water overlying the zone of disposal is the Ogalla, which occurs from 50 to 250 feet and is approximately 200' thick.

IX. Proposed Stimulation Program

Perforate Zone 3300-4000 Acidize Zone w/3500 gal 15% HCl

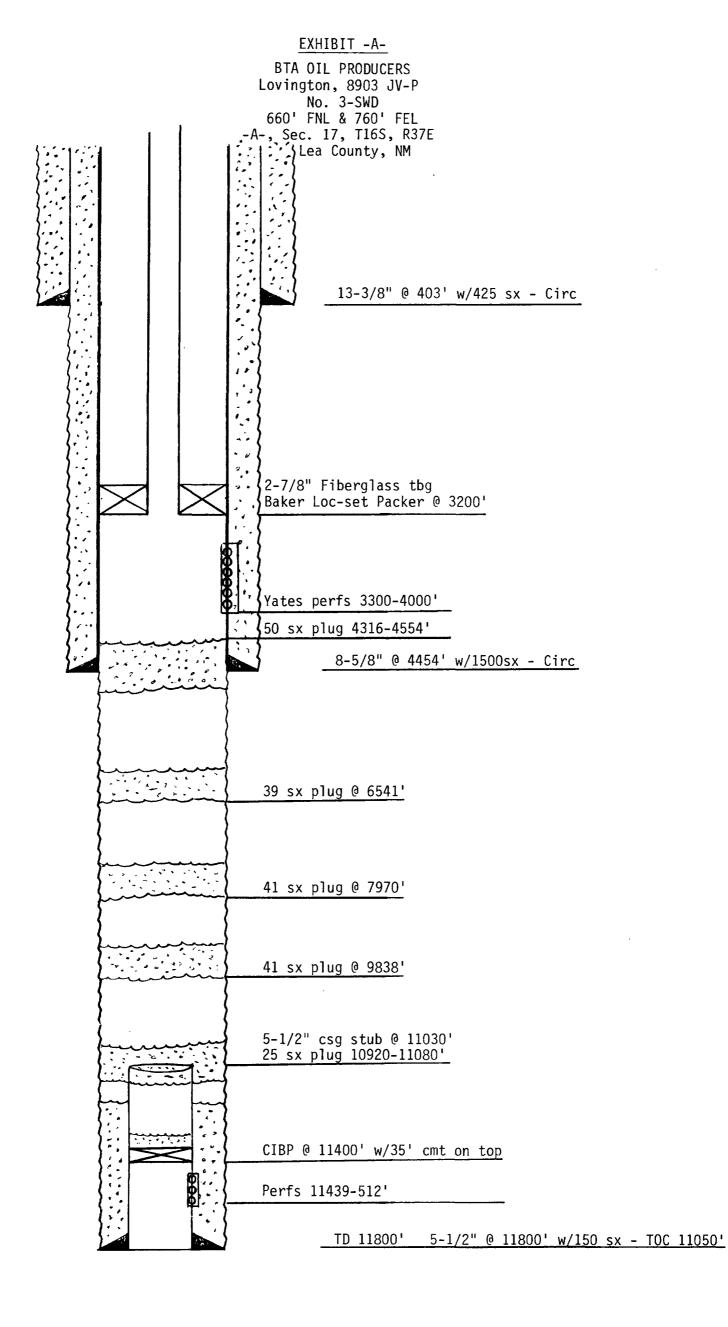
X. Logs were previously filed by original operator:

Harvey Yates Co.

XI. Analysis of fresh water well attached:

Exhibit -B- Column No. 1 (only water well within one mile) Lovington, 8903 JV-P, No. 3-SWD Lea County, NM Attachment to C-108 June 28, 1990 Page -5-

- XII. After examining all available geological and engineering data, we find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. A copy of our application has been furnished by certified mail to the surface owner and to each leasehold operator within one-half mile of our proposed injection well. See listing on Exhibit -C-.



P O BOX 1468	Martin Water Labo	ratories, Inc.		709 W. INDIANA	
MONAHANS, TEXAS 79756 PH 943-3234 OR 563-1040	EXHIBIT	м	HIDLAND, TEXAS 7970 PHONE 683-4521		
	RESULT OF WATE	R ANALYSES			
		LABORATORY NO.			
To: Mr. Royce Boyce		SAMPLE RECEIVED	6-22-		
104 South Pecos, Midland, TX		RESULTS REPORT	ED6-26-	90	
		Loui	aton #7		
COMPANYBTA Oil Producers	LEAS	E			
FIELD OR POOL SURVEY	NOILII LOVIIIge	Lea		NM	
	COUNTY		STATE		
SOURCE OF SAMPLE AND DATE TAKEN: NO. 1 Raw water - taken from	windmill (North	west of Loving	(1, 1, 2, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	21-90	
NO. 1 Raw water - taken from NO. 2 Produced water - taken	from Lovington	#2, 6-21-90			
NO. 3					
NO. 4					
REMARKS:					
СНЕМ	ICAL AND PHYSICA			+	
	NO. 1	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60° F.	1.0018	1.0673	+	<u> </u>	
pH When Sampled pH When Received		6 6.36	·· · · · · · · · · · · · · · · · · · · ·		
Bicarbonate as HCO3	325	628		+	
Supersaturation as CaCO3		020	+	+	
Undersaturation as CaCO3			- <u>†</u>	+	
Total Hardness as CaCO3	375	10,800			
Catcium as Ca	126	3,040	1		
Magnesium as Mg	15	778			
Sodium and/or Potassium	119	32,275			
Sulfate as SO4	168	1,289			
Chloride as Cl	136	56,105			
Iron as Fe	0.0	8 8.6			
Barium as Ba			+	+	
Turbidity, Electric			+		
Total Solids, Calculated	889	94,115			
Temperature °F.			+		
Carbon Dioxide, Calculated					
Dissolved Oxygen,					
Hydrogen Sulfide	0.0	0.0			
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to the best of his knowledge					
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Form No. 3		AV ISCH	ish?		

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Waylan C. Martin, M.A.

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EXHIBIT -C-

ETA OIL PRODUCERS Lovington, 8903 JV-P Well No. 3 Lea County, NM

Mrs. Vickie Norice Harris Surface Owner: Route 1, Box 33 Plains, Texas 79355

Offset leasehold Operators within one-half mile of the well location:

Amerada Hess Corporation 1201 Louisiana, Suite 700 Houston, Texas 77002 Attn: Mr. J. Y. Christopher

Pennzoil Exploration Production Co. 700 Milam Houston, Texas 77252 Attn: Mr. K. Stanaland

Nearburg Producing Company 402 E. Illinois, Suite 300 Midland, Texas 79701 Attn: Mr. Mark Nearburg

Matador Petroleum Corporation 8340 Meadow Road, Suite 158 Dallas, Texas 75231 Attn: Mr. Joe A. Young

Yates Energy Corporation 500 N. Main, Suite 1010 Roswell, NM 88202 Attn: Ms. Shari Hamilton

I hereby certify the above were mailed copies of our application on June 28, 1990, by certified mail.

Wordthey Sugation

Affidavit of Publication

STATE OF NEW MEXICO)) ss. COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Notice Of Application For Salt

Water Disposal

and numbered in the
Court of Lea
County, New Mexico, was published in a regular and
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, once each week on the
same day of the week, for
consecutive weeks, beginning with the issue of
June 29 19 19
and ending with the issue of
June 29 19 90

And that the cost of publishing said notice is the sum of \$.........

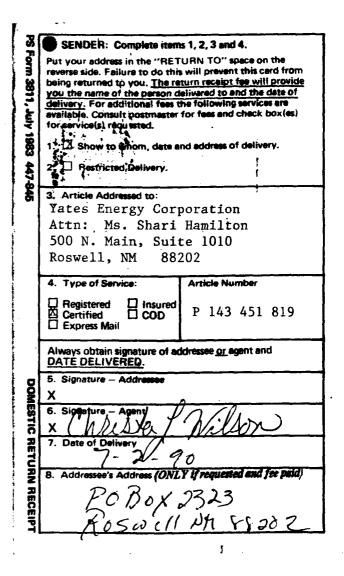
which sum has been (Paid) **Bassessed Xas** Court Costs

10th Subscribed and sworn to before me this

May 19 90 day_of Us 10 Notary Public, Lea County, New Mexico

L	EGALNOTICE
NOTICE (APPLICATION
SALT	WATER DISPERSION
BTA Oil	DE STATE HAND IN STATE
Midland, Te	145-77-11 91-
Dorothy 1	loughten. Bassinger
Administrate	
New Mexico	
for a permit to	
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The applie	
into the Yates	
JV-P, Well No	
well is located	
Sec. 17, T163	
Yates field of	
will be injected	
depth interval	
maximum inj	
with average	
psi.	
Interested	
or requests	
Conservation	
Santa Fe. N.M	
Published in	
June 29, 1990.	

3 SENDER: Complete items 1, 2, 3 and 4. Form Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from 3811, being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check boxtes. for service(s) requested. J. 1983 1. 🕅 Show to whom, data and addre ò Ŧ 4 2. C Restricted Delivery. () õ ÷ Ż 85 3. Article Addressed to: Matador Petroleum Corporation F 8340 Meadow Road, Suite 158 Dallas, TX 75231 Attn: Mr. Joe A. Young 4. Type of Service: Article Number Registered Insured Certified COD P 143 451 818 Express Mail • Always obtain signature of addressee or agent and DATE DELIVERED. 5. Signature - Addressee DOMESTIC X 6 Signature 7 Agent U hit Х RETURN 7. Date of Delivery 8. Addresses's Address (ONLY if requested and fee paid) RECEIPT



ň SENDER: Complete items 1, 2, 3 and 4. SENDER: Complete items 1, 2, 3 and 4. Form -orm Put your address in the "RETURN TO" space on the Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide မ္ထ being returned to you. The return receipt fee will provide 쏊 you the name of the person delivered to and the date of you the name of the person delivered to and the date of delivery. For additional fees the following services are delivery. For additional fees the following services are VInr available. Consult postmaster for fees and check box(es) available. Consult postmaster for fees and check box(es) **P** for service(s) requested. for service(s) requested. 1983 1983 1. 🕅 Show to whom, date and address of delivery. 1. X Show to whom, date and address of delivery. 2. Restricted Delivery. 447 2. Restricted Delivery. ŝ 846 3. Article Addressed to: 3. Article Addressed to: Mrs. Vickie Norice Harris Amerada Hess Corporation Route 1, Box 33 Attn: Mr. J.Y. Christopher Plains, TX 79355 1201 Louisiana, Suite 700 Houston, TX 77002 4. Type of Service: 4. Type of Service: Article Number Article Number P11sured P-143-451-574 Registered Registered P 143 451 586 Certified Certified Express Mail Express Mail $\sim 10^{-1}$ Always obtain signature of addressee or agent and DATE DELIVERED. Always obtain signature of addressee or agent and DATE DELIVERED. 5. Signature - Addressee 5. Signature - Addressee DOMESTIC . . X х norice 6. Signatúre - Age 6. Signature - Agent ā an X Nlé 7. Date of Delivery RETURN 7. Date of Delivery 0 390 a 6. 29-9 8. Addressee's Address (ONLY if requested and fee paid) 8. Addressee's Address (ONLY if request RECEIPT MECE 3 SENDER: Complete items 1, 2, 3 and 4. 3 Form SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from Put your address in the "RETURN TO" space on the being returned to you. The return receipt fee will provide reverse side. Failure to do this will prevent this card from you the name of the person delivered to and the date of delivery. For additional fees the following services are being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are evailable. Consult postmaster for fees and check box(es) Į available. Consult postmaster for fees and check box(es) for service(s) requested. for service(s) requested. 1993 1. 🖾 Show to whom, date and address of delivery. 883 1. XX Show to whom, date and address of delivery. 2. C Restricted Delivery. 2. A Restricted Delivery. ŧ 3. Article Addressed to: Pennzoil Exploration Production Co. 3. Article Addressed to: Nearburg Producing Company Attn: Mr. K. Stanaland Attn: Mr. Mark Nearburg 700 Milam 402 E Illinois, Suite 300 77252 Houston, TX Midland, TX 79701 4. Type of Service: Article Number Article Number 4. Type of Service: Registered P 143 451 816 Certified Registered P 143 451 817 Express Mail Certified Express Mail Always obtain signature of addressee or agent and DATE DELIVERED. Always obtain signature of addressegar agent and DATE DELIVERED 5. Signature - Addre DOMESTIC RETURN 5. Sjonsture X 6. Signature - Agent 6. Signatur **BILC** Х Х 7. Date of Deliver RETU 7. Date of Deliv 8. Addressee's Address (ONLY if requested and fee paid) 8. Addresses's Address (ONLY if requested and fee paid) ĪZ RECEIPT RECE

N DIVISION



RING MINERALS DEPARTMENT OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

STATE OF NEW MEXICO

7-11-90

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

GARREY CARRUTHERS

OIL CO	INSE	RVATI	ON DIV	ISION
P. O.	BOX	2088	}	
SANTA	FE,	NEW	MEXICO	87501

DIT CONSCRET

IUI. nov

RE: Proposed: MC DHC NSL NSP SWD X WFX PMX

Gentlemen:

I have examined the application for the:

Lease & Well No. Unit S-T-R Lease as follows: (Farmerly Thes, E. Lovington 17 St. #1) Operator and my recommendations are as follows: OHYours very truly,

Jerry Sexton Supervisor, District 1

/ed



STATE OF NEWLWERIGER ON DIVISION ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION FOR 10 38 HOBBS DISTRICT OFFICE

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

GARREY CARRUTHERS

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	
RE: Proposed:	

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	MC			
	DHC			
	NSL			
	NSP			
	SWDX	amen	J Su	10-393
	WFX			
	PMX			

Gentlemen:

I have examined the application for the:

<u>ucers</u> Lovington 8903 JU-P#3-A 17-16-37 Lease & Well No. Unit S-T-R Operator and my recommendations are as follows: REC MAKE

very truly, Yourg tiller.

/Jerry Sexton Supervisor, District 1

/ed