415 W. WALL, SUITE 1101 MIDLAND, TX 79701 (915) 687-5955

5 WD /U/27/47
ON 685

October 7, 1997

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

> RE: Lea AP St. #3 Lea County Sec. 30, T19S, R35E Application For Authorization to Inject

Gentlemen:

Please find enclosed the Application For Authorization to Inject.

The entire Form C-108 is provided showing appropriate information for articles I, II and XIV. Also, the information contained within this submittal is formatted in the same layout as the Form C-108 so the form can be referred to while reading the attached documents.

Should you have any questions please do not hesitate to call me at 915-687-5955.

Sincerely,

Atom could

Russ Mathis **Production Manager**

cc: Xeric Oil & Gas Chevron USA Snyder Ranch

UIL QUINQUINVATION DIVIDIN POST OFFICE BUX 2088 STATE LAND OFFICE BUILDING SANTA FEINEW MEXICO 87501

Ι.	Purpose: Secondary Recovery Pressure Maintenance X Dignal Storage					
•	Application qualifies for administrative approval? .es .nu					
ΙΙ.	Operator: Matador Operating Company					
	Address: 415 W. Wall, Suite 1101, Midland, TX 79701					
	Contact party: Russ Mathis, Production Mgr. Phone: 915-687-5955					
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.					
IV.	Is this an expansion of an existing project?					
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.					
* VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.					
VII.	Attach data on the proposed operation, including:					
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). 					
*VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, qeological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.					
IX.	Describe the proposed stimulation program, if any.					
* X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)					
* XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.					
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.					
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.					
XIV.	Certification					
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.					
	Name: Russ Mathis Title Production Manager					
	Signature: Date:					

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:
 - 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 description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

SENDER:	•	the second of th		
■ Complete items 1 and/or 2 for additional services. ■Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so the card to you.		I also wish to receive the following services (for an extra fee):		
Attach this form to the front of the mailpiece, or on the back if a permit.	1. Addressee's Address			
Write "Return Receipt Requested" on the mailning helpsy the a	article number.	2. Restricted Delivery		
The Return Receipt will show to whom the article was delivered delivered.	d and the date	Consult postmaster for fee.		
3. Article Addressed to:	Aa Article	NumberReturn Receipt		
	D 2/15	745 090		
Vanis 0:1 0 0	4b. Servic			
Xeric Oil & Gas		••		
200 N. Loraine, Ste. 111 ₁	☐ Regist			
Midland, TX 79701				
	7. Date of	Receipt for Merchandise COD		
	7. Date of	Delivery		
5. Received By: (Print Name)	8. Address	see's Address (Only if requested		
6. Signature: (Addressee or Agent)	and lee	ns paid)		
X				
PS Form 3811 , December 1994		Domestic Return Receipt		
ENDER: Complete items 1 and/or 2 for additional services.		I also wish to receive the		
Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we	o can return this	following services (for an		
eard to you		extra fee): 1. Addressee's Address		
attach this form to the front of the mailpiece, or on the back if space termit.	ce does not			
Nrite"Return Receipt Requested" on the mailpiece below the artic The Return Receipt will show to whom the article was delivered ar	tle number.	2. 🗆 Restricted Delivery 👸		
ine Hetum Heceipt will snow to whom the abude was delivered at felivered.	no the date	Consult postmaster for fee.		
Article Addressed to:	4a. Article N	umberReturn Receipt		
		P 245 745 -122		
Snyder Ranch	4b. Service	Type		
1100 S. C47A	☐ Registere	ed 🖺 Certified		
Hobbs, Nm 88240	☐ Express	does not number. the date 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee. 4a. Article Number Return Receipt P 245 745 -122 4b. Service Type Registered Resum Receipt for Merchandise COD 7. Date of Delivery 8. Addressee's Address (Only if requested		
Attn: Larry Squires	☐ Return Re			
Attn. Larry Squires	7. Date of De	elivery		
. Received By: (Print Name)	8. Addresse			
. Signature: (Addressee or Agent)	1	· ·		
X				
S Form 3811, December 1994		Domestic Return Receipt		
SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that	it we can return th	I also wish to receive the following services (for an extra fee):		
card to you. Attach this form to the front of the mailpiece, or on the back if s	space does not	1. Addressee's Address		
permit. Write "Return Receipt Requested" on the mailpiece below the a		2. Restricted Delivery		
The Return Receipt will show to whom the article was delivered delivered.	d and the date	Consult postmaster for fee.		
3. Article Addressed to:	4a. Article	Number		
Chauman 115A	D 245	745 Return Receipt		
Chevron USA	4b. Servic			
P.O. Box 1150	☐ Registe	•		
Midland, TX 79702	☐ Expres	• • • • • • • • • • • • • • • • • • • •		
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5 Received By: (Print Name)	7. Date of	Delivery		
5. Received By: (Print Name)	7. Date of 8. Address	<u> </u>		
Received By: (Print Name) Signature: (Addressee or Agent)	7. Date of 8. Address	Delivery see's Address (Only if requested		

APPLICATION FOR AUTHORIZATION TO INJECT AP STATE #3

ITEM I

The purpose of this application is for Disposal.

ITEM II

Matador Operating Company 415 W. Wall, Ste. 1101 Midland, TX 79701

ІТЕМ ІІІ

See Data Sheet attached.

ITEM IV

This is **NOT** an expansion of an existing project.

ITEM V

See map attached.

ITEM VI

"TABULATION OF WELLS"
See schematic of P&A well attached.

ITEM VII

- 1. The proposed average injection rate is 1200 BPD. The maximum anticipated injection rate is 2400 BPD.
- 2. The system will be closed system.
- 3. The average injection pressure is expected to be 300 psi or lower. The maximum injection pressure will 1225 psi. The 1225 psi maximum is 80% of measured frac press. at the surface, of 1533 psi.
- 4. The injection zone is the San Andres formation. All of the water to be disposed of will be San Andres water from the same field.
- 5. See 4 above.

APPLICATION FOR AUTHORIZATION TO INJECT AP STATE #3

ITEM VIII

The Lea AQ State Lease is located on the western side of the Central Basin, nearly approaching the Province of the Delaware Basin.

The proposed injection zone falls within the Lower San Andres formation of the Permian System. The Lower San Andres is between the depths of 5600-6120 ft. The lithology of this interval is a highly dolomitized carbonate rock. This carbonate section generally contains porosity ranges between 2% - 16% with an average porosity of approximately 9% by log value. The water saturation ranges between 30% - 70% with relatively high moveable water.

The Lower San Andres underlies a tight dolomite formation with chert inclusion with some sand zones scattered.

Below the Lower San Andres are deposits of tight limestone grading into Delaware Sands and shale sequences.

All known sources of underground drinking water are located above the depth of 500 ft. No known sources of drinking water are formed below the injection interval.

ITEM IX

Perfs have already been acidized with 7500 gals 20% HCL.

ITEM X

Logs are on file in Hobbs District.

ITEM XI

No fresh water wells were found within the one mile radius of the proposed injection well.

ITEM XII

The geological and engineering staff for Matador Petroleum Corporation have examined available geologic and engineering data and have found no evidence of open faults or any other hydrological connection between the disposal zone and any underground sources of drinking water.

APPLICATION FOR AUTHORIZATION TO INJECT AP STATE #3

ITEM XIII

Matador has sent copies of this application to Chevron USA and Xeric Oil & Gas as Operators of Record. Also a copy has been sent to <u>"Snyder Ranch"</u> as Landowner of the proposed site.

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, KATHI BEARDEN
Publisher
of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.
of
wccks.
Beginning with the issue dated
October 10 1997
and ending with the issue dated
October 10 1997
D.11.4
Publisher Sworn and subscribed to before
me this 10th day of

LEGAL NOTICE
October 10, 1997
Matador Operating Company,
415 W. Wall, Ste. 1101, Midland, TX-78701 (915) 8875955, Russ Mathis, Produclion-Manager, is applying for a
permit to convert the Lea AP
State #3 well 2000' FSL; 2040
FEL, Sec 30, T195, R355,
Lea County, to a selt water
disposal well for produced
/ Igage water. Disposal will be
into the Ban Andres formation
from 5917' MD to 6054' MD
with a maximum injection rate
// 2400 BWPD at a maximum
pressure of 225 ptl. Persons
wishing to object or request a
.nearing should contact the Oil
donservation' Division, 2040
South Pacheoo, Sarta Fe,
MM 87505 within 15 days.
#15476

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

October

My Commission expires October 18, 2000

Notary Public.

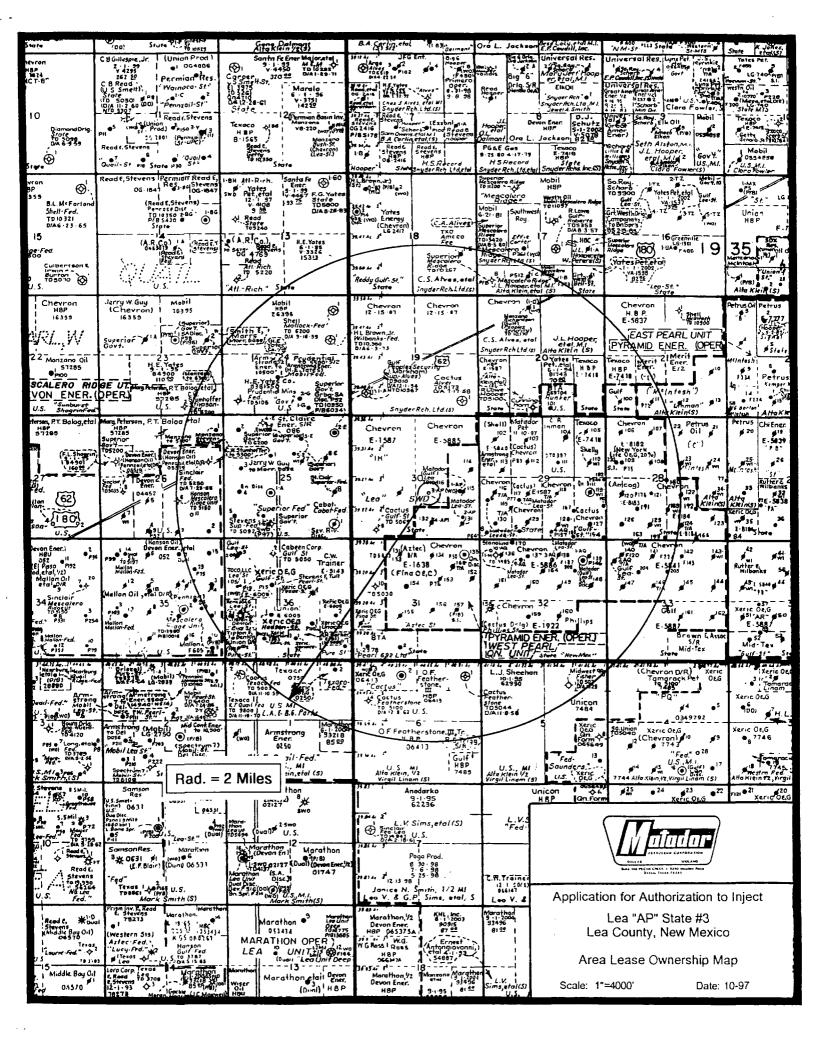
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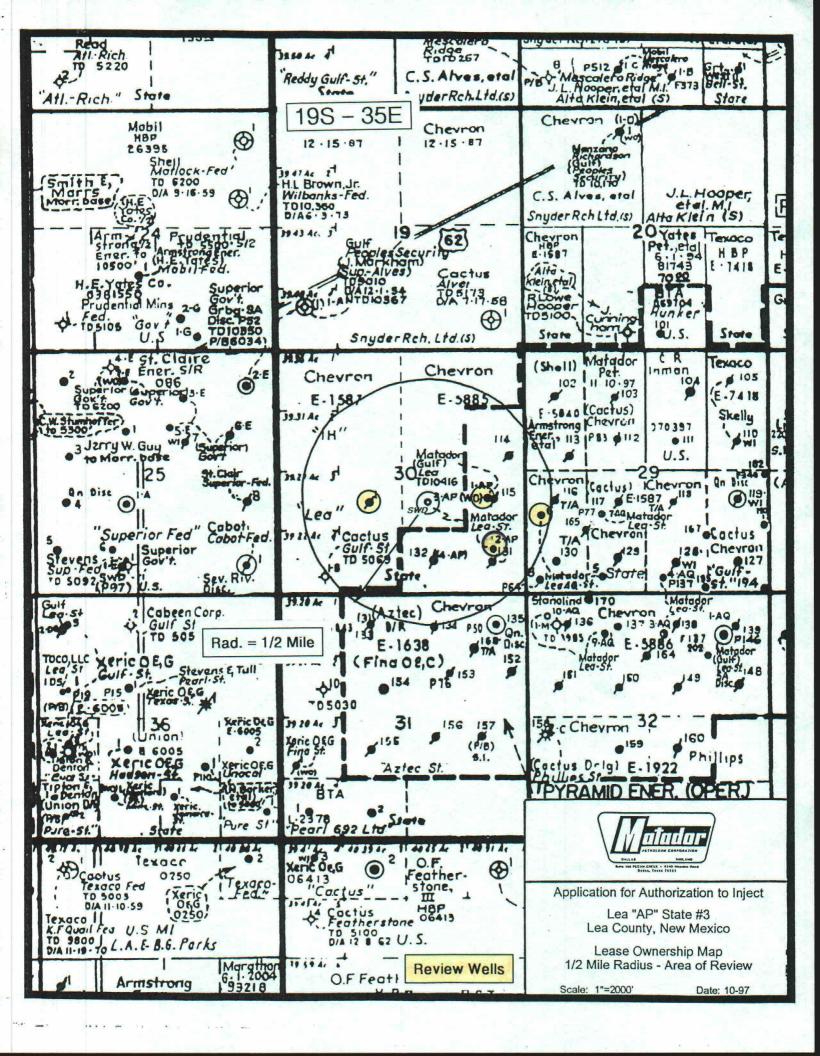
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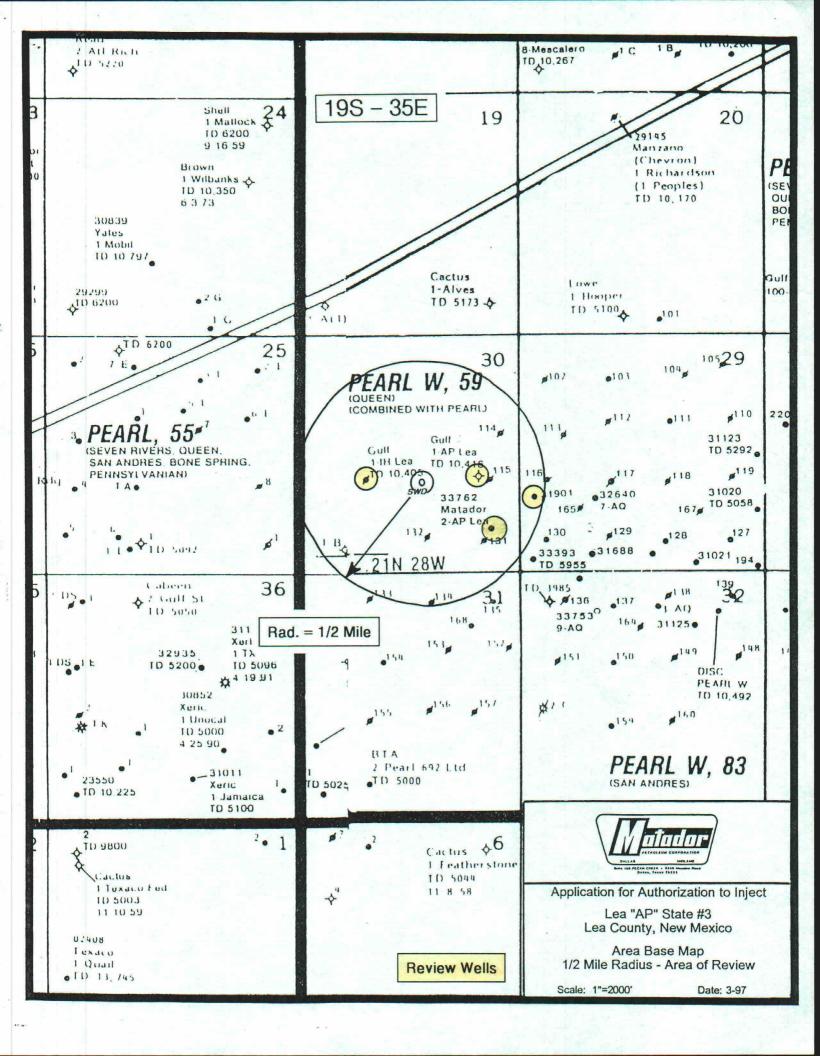
01101892000 01511798
Matador Operating Company
415 W. Wall Suite 1101
a/c 448550
Midland, TX 79701

INJECTION WELL DATA SHEET

	Matador Operating Company OPERATOR	Lea AP State			
-	3 2000 FSL 2040 FEL WELL NO. FOOTAGE LOCATION	30	19S TOWNSHIP	35E RANGE	
_	Schematic	<u>Tabular Data</u> Syrfaco Casing			
	AP#3	Size 8 5/8 ' TOC Surface Hole size 12 1/4"	feet determined by	•	
Tales	A 88," 24#, T-55 @ 450'.	Intermediate Casing Size None " TOC Hole size	foot determined by		
Series Park	Plastic Coated 28 T-55 Tbg	Long string Size 5 1/2 " TOC Surface Hole size 7 7/8"	feet determined by		
×	Packer e ≈ 5800 Perfs: 5917-35 5954-62 6040-54	Injection interval 5917 feet to (perforated or open-hole)		feet	
6167 6215	PBTD (FC on top of stoe It) 5t", 15.5#, I-SS, LTic Cement: 1620 5xs 38/65 he (19474) followed by 125 sxs cl c (1.324)				
	Arrow 1 X (brand and model) or describe any other casing-tubing	d with TK77 Plastic (moter) packer at	5800	set in a	
1	. Name of Field or Pool (if applic	Pearl San Andres			
3	If no, for what purpose was the as San. Andres Producer. Wel	well originally drilled? I was tested non-commerc	ial.		
4	. Has the well ever been perforate and give plugging detail (sacks	od in any other zone(a)? of cement or bridge plug(NO	(a) aseq)	orarad TuretA818	
5 .		own perforation 4678 known perforation 5044		nes (pools) in	



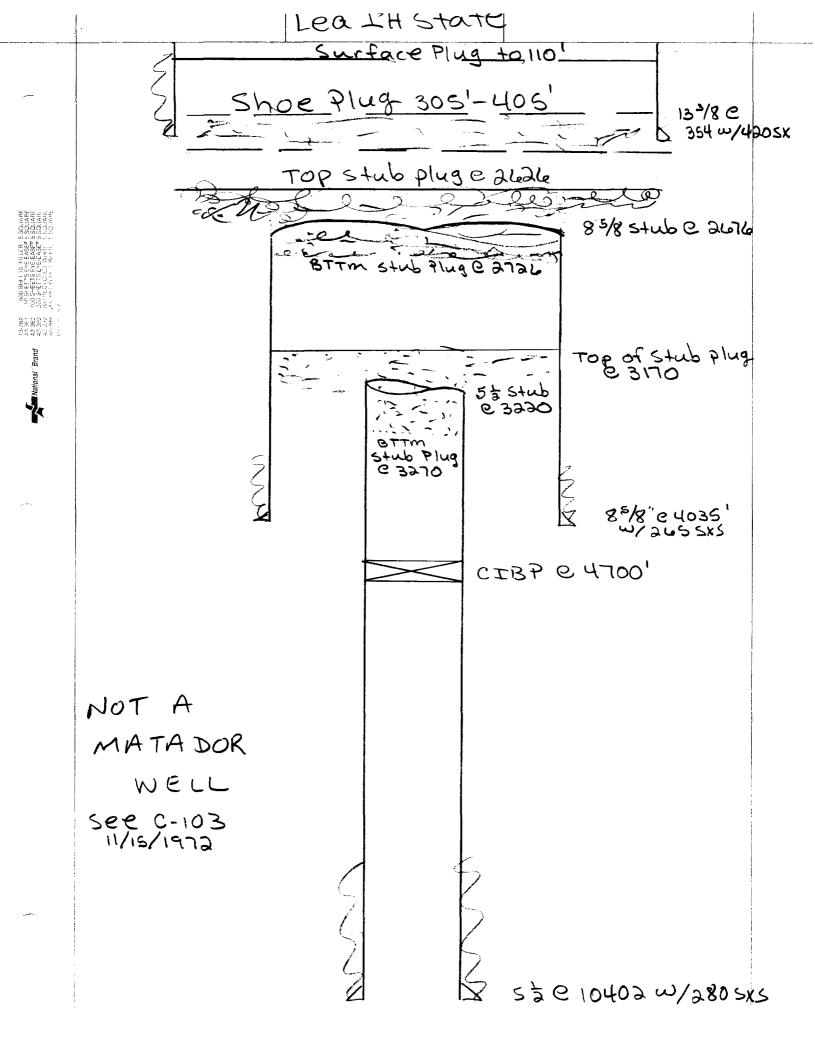




Application for Authorization to Inject Lea "AP" State #3 Lea County, New Mexico

Wells within the 1/2 mile radius (Area of Review) which penetrate the proposed injection zone.

	Well Name	<u>Status</u>	Spud	Comp.	Location	<u>TD</u>	Perfs / Comments
1.	Lea "AQ" St. #6	Producing	3-1-93	4-28-93	29-19S-35E (L)	5920'	5846-5864'
2.	Lea "AP" St. #1	P & A	2-13-72	4-18-72	30-19S-35E (I)	10,416'	PB 10,348'; Perf 10,088-100'; PB 6468'; Perf 6390-94' Set BP @ 6345'; Perf 6242-46'; Set BP @ 6210'; Perf 6160-64'; Sqzd perf 6160-64'
	OWWO - "AP" #1	Producing	9-12-84	10-12-84	30-19S-35E (I)	10,416'	PB 6115'; Perf 5717-65'; 5814-94'; 5903-19'
	OWWO - "AP" #1	SWD	8-22-97	8-25-97	30-19S-35E (I)	10,416'	Re-perf 5902-22'; 5892-96'; 5832-36'; 5760-66'; 5748-50'; 5743-45'; 5734-38'. Addperfs: 5798-5804'; 5688-92'; 5622-26'
3.	Lea "AP" St. #2	Producing	1-27-97	2-27-97	30-19S-35E (P)	5935'	5874-76'; 5850-52'; 5840-42'; 5828-30'; 5784-86'; 5764-66'
4.	Lea "IH" St. #1	P & A	12-22-71	1-26-72	30-19S-35E (K)	10,405'	9847-54'



	• .	•			
40, OF COPIES RECEIVED				Form C-103	
DISTRIBUTION				Supersedes Old	
SANTA FE		NEW MEXICO OIL CON	ISERVATION COMMISSION	C-102 and C-103 Effective 1-1-65	
FILE					
J.\$.G.8.				Sa. Indicate Type of Lease	
AND OFFICE	1-1-1			State XX Fee	
PERATOR	1-1-			5, State Oil & Gas Lesse No.	
	<u></u>			B-1587	
ST EIHT BEU FON POL Beu	SUNDRY NOTICE	ES AND REPORTS ON PLUG RILL OR TO DEEPEN OR PLUG ALT _" (FORM C-101) FOR SI	N WELLS BACK TO A DIPPERENT RESERVOIR. ICH PROPOSALG.)		
				7. Unit Agreement Name	
WELL WELL	L DTHER-				
Plane of Operator				8. Form or Lease liams	
Julf Oil Corpora	tion			Lea IH State	
Address of Operator	9, Well No.				
lox 670, Hobbs, 1	New Mexico 882	40		1	
Location of Well	10. Field and Paol, or Wildest				
UNIT LETTER K	1980 ,	EST FROM THE South	LINE AND 1980	Pearl Queen	
THE West	LINE, SECTION _ 30 _	TOWNSHIP 19-S	RANGE 35-E		
	\overline{I}	5. Elevation (Show whether	DF, RT, GR, etc.)	12. County	
		3.	752 <u>'</u> GL	Lea	
	Check Appropriat		varure of Notice, Report or		
NOTIC	CE OF INTENTION		_	INT REPORT OF:	
			1	10 1 1 0 1 0 P.	
REMEDIAL WORK]	PLUS AND ABANDON	REMEDIAL WORK	ALTERING CARING	
]	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING	
MPORAPILY ABANDON]	PLUS AND ABANDON	COMMENCE DRILLING OFFIS,	· · · ·	
MPORAPILY ABANDON]		COMMENCE DRILLING OPES,	PLUE AND ABANDONNER	
ERVORM REMEDIAL WORK EMPORAPILY ABANDON ULL OR ALTER CASING			COMMENCE DRILLING OFFIS,	PLUE AND ADANDONMEN	

5116' PB, 10,405' TD.

Ran CI BP and set at 4700'. Loaded 5-1/2" casing with water. Capped BP with 5 sacks, 35' of cement. Cut and recovered 5-1/2" casing from 3220'. Spotted 35 barrels of mud on top of BP at 4700'. Spotted 20 sack, 100' cement plug from 3170' to 3270', across 5-1/2" casing stub at 3220'. Cut and recover 8-5/8" casing from 2676'. Spotted 40 sack cement plug from 2626' to 2726', across 8-5/8" stub at 2676'. Spotted 70 sack cement plug from 405' to 305', across 13-3/8" shoe at 354'. Spotted 70 sack cement plug from 110' to surface. Installed dry hole marker. Plugged and abandoned May 23, 1972.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief. OIL & GAS INSPECTOR NOV 15 197:

415 W. WALL, SUITE 1101 MIDLAND, TX 79701 (915) 687-5955

October 7, 1997

Snyder Ranch 1100 S. C47A Hobbs, NM 88240 Attn: Larry Squires

> RE: Lea AP St. #3 Lea County Sec. 30, T19S, R35E Application To Inject

Dear Mr. Squires:

Please find within a copy of the Application For Authorization To Inject.

In compliance with the requirements of Form C-108 this application has been sent to you because you are the landowner where the proposed well is located.

Please read the application carefully.

If there are no objections to the application please acknowledge below and mail to Matador Petroleum Co. at the above address or you may fax to 915-687-4809. Any objection must be filed with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, NM 87505 within 15 days from the date this application was mailed.

Should you have any questions or comments please do not hesitate to call me in Midland, Texas at 915-687-5955.

Sincerely,

Russ Mathis

Production Manager

Run Mathy

has no objection to Matador's Application for Authorization to Inject into the AP St. #3 well located in S30, T19S, R35E, Lea Co., NM.

cc: Oil Conservation Division

415 W. WALL, SUITE 1101 MIDLAND, TX 79701 (915) 687-5955

October 7, 1997

Xeric Oil & Gas 200 N. Loraine, Ste. 1111 Midland, TX 79701

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Gentlemen:

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In compliance with the requirements of Form C-108 this application has been sent to you because you are the operator within one-half mile of the injection well.

Please read the application carefully.

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Sincerely,

Russ Mathis Production Manager

Rusmaths

has no objection to Matador's Application for Authorization to Inject into the AP St. #3 well located in S30, T19S, R35E, Lea Co., NM.

cc: Oil Conservation Division

415 W. WALL, SUITE 1101 MIDLAND, TX 79701 (915) 687-5955

October 7, 1997

Chevron USA Production Comapny P.O. Box 1150 Midland, TX 79702

> RE: Lea AP St. #3 Lea County Sec. 30, T19S, R35E Application To Inject

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Should you have any questions or comments please do not hesitate to call me in Midland, Texas at 915-687-5955.

Russ Mathis
Production Manager

has no objection to Matador's Application for Authorization to Inject into the AP St. #3 well located in S30, T19S, R35E, Lea Co., NM.

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: /// 37420	E PETRO CORP.	Well:	101 7/	State flas
Contact: Russ Mi	(214/2)Tit	le: <u>// 00 - 50</u>	164 RUSOF	Phone: <u>915-487-595</u>
	<u>/0-14-9-7</u> RELE			
Proposed Injection A	pplication is for:	WATERF	LOOD	Expansion Initial
Original Order: R		Secondar	y Recovery	Pressure Maintenance
SENSITIVE A	AREAS	$\underline{\times}$ salt wa	ATER DISPOSAL	Commercial Well
WIPP Ca	pitan Reef			
*.		Additional Dat	a Req'd	
AREA of REVIEW W	/ELLS			
	Total # of AOR		# of Plugg	ged Wells
	Tabulation Com	plete	Schematic	es of P & A's
	(W) Cement Tops A	dequate	<u>~</u> AOR Repa	ir Required
INJECTION FORMA	TION			
Injection For	mation(s) <u>San</u>	Auges		Compatible Analysis 💯
PROOF of NOTICE				
	Copy of Legal Notice	`	Informatio	n Printed Correctly
<u>\</u> .	Correct Operators		Copies of	Certified Mail Receipts
<i>F/O</i>	Objection Received		Set to Hea	aring Date
NOTES:	·			
	-			
	APPLICATION QUALI	FIFS FOR ADMIN	ISTRATIVE APE	PROVAL? (1/4 c
COMMUNICATION WITH CONTAC				NOTAL: 410
1st Contact:		tter Date	Nature of Discussion	
2nd Contact:	Telephoned Let	tter Date	Nature of Discussion	
3rd Contact:	TelephonedLet	tter Date	Nature of Discussion	