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APPLICAT	ION FOR AUTHORI	ZATION TO INJECT			
Ι.	Purpose: S Application	econdary Recovery qualifies for admi	Pressure Mainten: Inistrative approval?	nce X Diraca .es [nu	
11.	Operator: <u>Mat</u>	ador Operating Co	ompany		
	Address: 415	W. Wall, Suite	1101, Midland, TX	79701	
	Contact party:	<u>Russ Mathis, Pr</u>	roduction Mgr.	Phone:915-687	7-5955
ΙΙΙ.	Well data: Com pro	plete the data red posed for injectio	quired on the reverse s on. Additional sheets	side of this form may be attached	for each well if necessary.
IV.	Is this an expa If yes, give th	nsion of an exist: e Division order n	ing project? 🔲 yes number authorizing the	no project	······································
۷.	ruleeerdu werr	WILH & UNE-HAIL MI	wells and leases with ile radius circle draw e well's area of review	a anound eres	ny proposed posed injection
* VI.	well's type, co	estruction. date of	ll wells of public rec zone. Such data shai drilled, location, dep illustrating all plugg	l include a descr	
VII.	Attach data on	the proposed opera	ation, including:		
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IX.	Describe the pr	oposed stimulation	n program, if any.		
* X.	Attach appropri with the Divisi	ate logging and to on they need not b	est data on the well. De resubmitted.)	(If well logs ha	ve been filed
* XI.	area dote and f	al analysis of fro producing) within o ls and dates samp.	esh water from two or : one mile of any inject les were taken,	more fresh water ion or disposal w	wells (if ell showing
XII.		drologic connectio	st make an affirmative engineering data and f on between the disposa		
XIII.	Applicants must	complete the "Pro	oof of Notice" section	on the reverse s	ide of this form
XIV.	Certification				
		wi whowrende and i			
	Name: <u>Russ</u>	Mathis	Tit	le <u>Production</u>	Manager
	Signature:		D	ate:	
	e information re	quired under Sect	ions VI, VIII, X, and nd resubmitted. Pleas	•	



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, sucks of cement used, hule 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 well: may submit a "typical data sheet" rather than submitting the data for each well.

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

XIV. PROOF OF NOTICE

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

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

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

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

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



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APPLICATION FOR AUTHORIZATION TO INJECT AP STATE #3

ITEM I

The purpose of this application is for Disposal.

ІТЕМ П

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

ІТЕМ Ш

See Data Sheet attached.

ITEM IV

This is <u>NOT</u> 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.



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APPLICATION FOR AUTHORIZATION TO INJECT AP STATE #3

ІТЕМ 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.

ІТЕМ ХП

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.

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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____1

_____ weeks. Beginning with the issue dated

October 10 1997 and ending with the issue dated

October 10

Publisher Sworn and subscribed to before

_____ 1997

me this 10th day of

October _____ 1997

LEGAL NOTICE Ootober 10, 1997 Matador Operating Company, 416 W. Wail, Ste. 1101, Midland, TX-79701. (915) 687-5955, Russ Mathis, ProductionAManager, is applying for a permit to convert the Lea AP State #3 well 2000' FSL; 2040 FEL, Sec 30, T19S, R35E, Lea County, to a sait water disposal well for produced risage water. Disposal will be into the Ban Andres formation from 5917' MD to 6054' MD with a maximum Injection rate for 2400 BWPD at a maximum pressure of 1225 p8I. Persons Wishing to object of request a nearing should contact the Oil Bonservation' Division, 2040 Bouth Pactiego, Sartta Fe, NM 87506 within 15 days. #15478

Notary Public.

My Commision expires October 18, 2000 (Seal)

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.

01101892000 01511798

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



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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>	<u>Spud</u>	<u>Comp.</u>	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'







<u>OCT-</u> 6-97 MON 2:24 PM	I OCD HOBBS	FAX NO.	15053930720	P.	1
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40. 07 COPIES RECEIVED			·	Form C-103 Supersedes Old	
DISTRIBUTION				C-102 and C-103	
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OPERATOR				•	914 NG.
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USE 477214				7. Unit Agreement Na	me
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2. Plime of Ciperator		······································		8. Farm or Lesse Han	n e
				Lea IH State	
Gulf Oil Corporation				9, Well No.	
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Box 670, Hobbs, New M	ex1c0 88240			10. Field and Pool. o	t Wildcat
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UNIT LETTER K	1980 PEET PROM THE SC	DUTH LINE AND 1980	J PEET PROM	Pearl Queen	imm
				ΔΙΙΙΙΙΙΙΙΙ	////////
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	15. Elevation (Sha	w whether DF, RT, GR, etc.)		12. County	HHHH
///////////////////////////////////////				Lea	MMM/
ÖINNINNINNINNIN		<u>3752' GL</u>			um.
Check	Appropriate Box To Ind	dicate Nature of Notice	e, Report or Oth	ner Data	
NOTICE OF	INTENTION TO:		SUBSEQUENT	REPORT OF:	
PERFORM REMEDIAL WORK	BLUG AND ABA	NOON REMEDIAL WORK		ALTERING (-
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FULL OF ALTER CASING	CHANGE PLANS	CASING TEST AND C	EMENT JOB		
		OTHER			
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		Plugger	obrada has	ned.	

17. Describe Froposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting to the work) BEE RULE 1903.

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.

318HED_	Elleyen	vive Area Engineer	May 23, 1972
2.	d Cha	OIL & GAS INSPECTOR	NOV 15 197



3. Ancle Addressed to: 4a. Ancle Mundard Edit Urin Receipt of the addressed to: 4b. Ancle Addressed to: 4c Addressed to:	- - -	Complete items 1 and/or 2 for additional services. Complete items 1, and/or 2 for additional services. Complete items 3, 4a, and 4b. Print y me and address on the reverse of this form so the card to Attach this form to the front of the mailpiece, or on the back if it permit. Write 'Return Receipt Requested' on the mailpiece below the a The Return Receipt will show to whom the article was delivered delivered. 3. Article Addressed to:	space does not article number, d and the date	I also wish to receive the following services (for an extra fee): 1. Addressee's Addres 2. Restricted Delivery Consult postmaster for fee.	Sen
PS Form 3811, December 1994 Dornestic Fleturn Receipt SENDER: Complete terms 1 and/or 2 for additional services. Service 1 by rot.		200 N. Loraine, Ste. 111 ₁ Midland, TX 79701	4b. Service Register Express Return Re	745 090 Type ed ⊠ Certifie Mail □ Insured ceipt for Merchandise □ COD	E,
SENDER: Service Return Receipt Service Return Receipt Service Ranch Service	IS VOUT RETTIN	5. Received By: (Print Name) 6. Signature: (Addressee or Agent) X	8. Addresse and fee is	e's Address (Only if requested paid)	Thank you
SENDER:	and a second	PS Form 3811 , December 1994		Domestic Return Receip	ot
Snyder Ranch Insured F 2.43 / 45 - 122 Illoo S. C47A Registered Si Certified Hobbs, Nm 88240 Registered Insured Attn: Larry Squires Return Receipt for Merchandse I coop Coop 5. Received By: (Print Name) 8. Addressee's Address (Only if requested and fee is paid) 9. Addressee's Address (Only if requested and fee is paid) Market Structure: Addressee or Agent) X Domestic Return Receipt 6. Signature: (Addressee or Agent) X Domestic Return Receipt 9. Addressee's Address on the reverse of this form so that we can return this following services (for an extra fee): I also wish to receive the following services (for an extra fee): 9. Print your name and address on the reverse of this form so that we can return this following services (for an extra fee): 1	the reverse sid	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 we card to you. Attach this form to the front of the mailpiece, or on the back if space permit. Write "Return Receipt Requested" on the mailpiece below the article The Return Receipt will show to whom the article was delivered ano	can return this e; e does not	ollowing services (for an xtra fee):	Service.
S. Received By: (Print Name) 8. Addressee's Address (Only if requested and fee is paid) S. Signature: (Addressee or Agent) X PS Form 3811, December 1994 Domestic Return Receipt ** ** <	Б.,	3. Article Addressed to: Snyder Ranch	4a. Article Num P 245 74 4b. Service Typ	e	eturn
		Hobbs, Nm 88240 Attn: Larry Squires	 Express Mai Return Receip 	I Insured I Insured I Insured I	using
SENDER: ************************************	s your	5. Signature: (Addressee or Agent) X	8. Addressee's a and fee is pai	· .	<u> </u>
SENDER: • Complete items 3, 4a, and 4b. I also wish to receive the following services (for an extra fee): • Origite items 3, 4a, and 4b. • Origite items 3, 4a, and 4b. I also wish to receive the following services (for an extra fee): • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite items 4. • Origite item 4. • Origite item 4. • Origite item 4. • Origite items 4. • Origite item 4. • Origite item 4. • Origite item 4. • Origi	F	PS Form 3811 , December 1994	De De	omestic Return Receipt	
	completed on the reverse side?	 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 w card to you. Attach this form to the front of the mailpiece, or on the back if spanpermit. Write <i>'Return Receipt Requested'</i> on the maipiece below the article "The Return Receipt will show to whom the article was delivered ar delivered. Article Addressed to: Chevron USA P.0. Box 1150 	e can return this ce does not de number. nd the date 4a. Article Num <u>P 245 74</u> 4b. Service Ty Registered Express Ma Return Recei	following services (for an extra fee): 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee. nber 5. 08 furn Receipt pe Ø Certified ail Insured pt for Merchandise COD	Return Receipt Service.
	our BETUB	6. Signature: (Addressee or Agent)	8. Addressee's and fee is pa	Address (Only if requested id)	Thank yo
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M ADOR PETROLEUM CORPORATIO

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,

RunMathy

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.

cc: Oil Conservation Division



M. ADOR PETROLEUM CORPORATI 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

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

Gentlemen:

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 operator within one-half mile of the injection well.

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,

RunMath

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.

cc: Oil Conservation Division



M. ADOR PETROLEUM CORPORATI(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

Gentlemen:

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Sincerely,

RunMath

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.



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Submit 3 Copica	State of New Mc		Form C-103
lo Appropriate District Office	Energy,incrals and Natural Re		Revised 1.1.89
DISTRICT I P.O. Box 1980, Hotby, NM 88240	OIL CONSERVATIO P.O. Box 208		WELL API NO. 30-025-34045
DISTRICT II P.O. Drawer DD, Arceiz NM \$\$210 Santa Fe, New Mexico 87504-2088			S. Indicato Type of Lozza STATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Azer, NM 87410			6. Slate Oil & Gas Lease No.
SUNDRY NOT	ICES AND REPORTS ON WEL	LS	
DIFFERENT RESE	OPOSALS TO DRILL OR TO DEEPEN RVOR. USE "APPLICATION FOR PER >101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name
I. Type of Well: OR GAS WELL X WELL			Lea AP State
2 Name of Openior	отная. 		E. Well No.
Matador Operating	Company		3
3, Address of Operator	#158, Dallas, TX 7	5231	9. Pool name or Wildcal Pearl San Andres West
4. Well Location		······	
Unix Lotter J ::20	00 Food From The South	Line and 204	10 Feer From The East Line
Section 30	Township 195 Rz		NMPM Lea County
	10. Elevation (Show whether 3753	рҒ. RKB. RT. GR. ес.)	
11. Check	Appropriate Box to Indicate 1	Nature of Notice, R	eport, or Other Data
NOTICE OF IN	TENTION TO:	SUB	SEQUENT REPORT OF:
		REMEDIAL WORK	
	CHANGE PLANS	COMMENCE DRILLING	
PULL OR ALTER CASING		CASING TEST AND CE	
OTHER: Amend depth	0	OTHER:	0

12. Describe Proposed or Completed Operations (Clearly state all periment describe periment dates, including estimated date of storing any proposed work) SEE RULE 1103.

Request permission to amend previously permitted depth of 6000' to 6220' per verbal communication 8-5-97.

I hardy could that the la	formation show is true and complete to the best of roy income	die ma bald, Vice President	
TYPE OR FILMT HAVE	R. F. Burke	214-987-7119	TELEPHONE NO.
(This spece for State User URI ATTROVED BY	GINAL SIGNED DISTRICT I SUPERVISOR	TITLE	AUG 13 1997

CONDITIONS OF APPROVAL, IF ANY:



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