EXON COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

MIDLAND PRODUCTION ORGANIZATION
OPERATIONS INTEGRITY

July 30, 1996

Application for Fluid Injection New Mexico "V" State Well No. 9 Lea County, New Mexico

State of New Mexico Energy and Minerals Department Oil and Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504

Exxon Corporation respectfully requests administrative approval of the enclosed application to convert the subject well to fluid injection. In support of this request, Form C-108 and its attachments are enclosed. Copies of this application are being sent by certified mail to the leasehold operator and surface owners within a 1/2 mile radius of proposed conversion well. Proof of Notice will be forwarded to you as soon as I receive it.

If you have any questions concerning this application, please call me at (915) 688-7899.

Sincerely,

Selena Nunez

/sqn Enclosures

c: New Mexico OCD
District I Office
Attn: Jerry Sexton
P. O. Box 1980
Hobbs, NM 88240

Offset Operators Surface Owners



OIL CONSERVATION DIVISION

POST OFFICE EOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87501 FORM C-108 Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT Pressure Maintenance X Disposal Storage Secondary Recovery I. Purpose: Application qualifies for administrative approval? y yes Operator: Exxon Corp. II. 79702 Address: P. O. Box 1600, ML-14 Midland, Texas Phone: (915) 688-7899 Contact party: <u>Selena Nunez</u> 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. yes IV. Is this an expansion of an existing project? X no If yes, give the Division order number authorizing the project Attach a map that identifies all wells and leases within two miles of any proposed ٧. 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; 2. Whether the system is open or closed; 3. Proposed average and maximum injection pressure; 4. 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, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval. IX. Describe the proposed stimulation program, if any. Х. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) Attach a chemical analysis of fresh water from two or more fresh water wells (if XI. 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. Title Sr. Office Assistant Name: Selena Nunez w · Signature: Date: 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 * If the information required under Sections VIof 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:
 - 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 lessehold 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.

INJECTION WELL DATA SHEET

	con Corp.	New Mexico "V" State		
	RATOR 10001 FCL 10001 FW	LEASE	210	27E
	9 1980' FSL 1980' FWL L NO. FOOTAGE LOCATION	10 SECTION	21S TOWNSHIP	37E
WCL	E NO. 1001WGE ERCYLION	SECTION	10442411	RANGE
Sec	Schematic Attached Wellbore Sketch	_	ubular Data	
000	noughed herizone energy	Surface Casing		275
		Size 10 3/4	" Cemented wi	thsx.
		Toc Surface	feet determined b	y <u>Circ.</u>
		Hole size 15		
		Intermediate Casing		
		Size 7 5/8	" Cemented wi	th 1100
		550	feet determined b	
		Hole size 9 7/8		, Temp. Survey
		Long string		
		Size <u>5 1/2</u>	" Cemented wi	th450 _{sx} .
		TOC 3550	feet determined by	Temp. Survey
		Hole size 6 3/4		
		Total depth 8240		
		Injection interval	4000	
		3763 feet (perforated or open-hi		feet
	osed ing size 2 3/8	ined withCemen	t Ined	set in a
	Lok set tune	mate packer a	rial) it <u>3700</u> t	feet
	(brand and model)			<u>-</u>
	describe any other casing-tub	orud asar).		
Othe	er Data	. Gravhura San Andres	•	
1.	Name of the injection format:			avburg
2.				ւչսս։ Կ
3.	Is this a new well drilled for		/X7 No	E3.1
	If no, for what purpose was	the well originally drilled	g? <u>Oil Producer</u>	Ellenburger
4.	Has the well ever been perfo and give plugging detail (sa	rated in any other zone(s) cks of cement or bridge plo	? List all such pe ug(s) used) <u>Yes</u>	erforated intervals
	Ellenburger 8096 - 8202 C	mt. Retainer at 8055, sq	z w/50 sx,	
	Hare 7693 - 7791, 7974-80	04 CIBP at 7650' w/20'	cmt., ABO 6897 -	7265
5.	CIBP at 6800', 35' cmt CI Give the depth to and name o this area.	BP at 4500', 35' cmt fany overlying and/or und	erlying oil or gas	zones (pools) in

VII: The proposed intervals for disposal of salt water are the San Andres and the lower Grayburg. The top of the Grayburg zone is at 3,746 feet and the top of the San Andres zone is at 3,932 feet. The Glorieta (top = 5,164 feet), which is below the San Andres, will not be perforated. The Grayburg and San Andres are mostly dolomite and are also porous and permeable -- they should be able to take the injected water without difficulty.

The only aquifer in the New Mexico "V" State area is the *Surface Allevium*. This aquifer ranges approximately from surface to about 100 feet true vertical depth. There are no other known aquifers in the immediate area. Because there is a separation of over 4,100 feet between the base of the aquifer and the upper perforation of the disposal interval, we do not expect any communication whatsoever.

XII: There are no known faults in the San Andres or Grayburg in the area. Thus, there is no opportunity for hydrologic connection between underground sources of drinking water and the proposed disposal zone.

Copies of NMOCD Form C-108 were sent to the following by Certified Mail on

July 30, 1996

Offset Operators

Millard Deck Estate C/O Nation's Bank of Texas 1777 NE Loop 410, Suite 1250 San Antonio, Texas 78217 Will N. Terry Trust P. O. Box 686 Hobbs, New Mexico 88241 Dallas McCasland P. O. Box 201 Eunice, New Mexico 88231

Surface Owners & Leasehold Operators

Amoco Prod. Co. P. O. Box 3092 Houston, Texas 77253

P. O. Box 2197 Houston, Texas 77252

Conoco Inc.

Lewis B. Burleson Inc. P. O. Box 2479 Midland, Texas 79702

Shell Western E&P Inc. P. O. Box 576 Houston, Texas 77001 Meridian Oil Inc. P. O. Box 4239 Houston, Texas 77210 Marathon Oil Company P. O. Box 3128 Houston, Texas 77253

Texas E&P Inc. P. O. Box 3109 Midland, Texas 79702 Chevron USA Inc. P. O. Box 1635 Houston, Texas 77251

P. O. Box 3040 Midland, Texas 79702

John H. Hendrix Corp.

Selena Q. Nunez

Environmental & Regulatory

Affairs

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

OIL CONSERVATION DIVISION

P 0. Box 2088

L API NO. 3002506471	

P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	975NA 2099		<u> </u>
DISTRICT III	Santa Fe, New Mexico	0/304-2000	5. Indicate Type of Lease	
1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease	No.
			B-935	
SUNDRY NOTIC	ES AND REPORTS ON WEI	LLS		
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVO	DSALS TO DRILL OR TO DEEPEN (DIR. USE 'APPLICATION FOR PER		7. Lease Name or Unit A	greement Name
(FORMC-10	I) FOR SUCH PROPOSALS.)		NEW MEXICO V S	TATE
I. Type of Well: OIL GAS WELL WELL	XOTHER SALT WAT	TER DISPOSAL		
2. Name of Operator EXXON CORPO	DRATION		8. Well No. 9	
3 Address of Operator ATTN: REGUI	ATORY AFFAIRS ML#	14	9. Pool name or Wildcat	
P. O. BOX .	1600		PENROSE SKELLY	GRAYBURG
4. Well Location	-			
Unit Letter K : 1980 Feet From	The SOUTH Line and	1980 Feet F	rom The WES	T Line
Section 10 Townsh	ip 21S Range 3		M LEA	County
	10. Elevation (Show whether I	OF, RKB, RT, GR, etc.)	**************************************	
Check Appr	opriate Box to Indicate N	ature of Notice, F	Report, or Other	Data
NOTICE OF INTE	ENTION TO:	SUB:	SEQUENT REF	PORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CASING
				PLUG & ABANDONMENT
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILL	LING OPNS.	ABANDONMENI L_
PULL OR ALTER CASING		CASING TEST AND	CEMENT JOB	F
OTHER:CONVERT TO SWD &	ADD ADD PERFS X	OTHER:		
12. Describe Proposed or Completed Operations work) SEE RULE 1103.	(Clearly state all pertinent details, and s	give pertinent dates, includin	g estimated date of starting	g any proposed
WELL IS CURENTLY IN WATER DISPOSAL USING PERFS. APPROX. 4248	G EXISTING GRAYBUR '-4962' W/ AC. OF	RG PERFS. AND Approx. 6500	ADDING SAN	ERT TO SALT Andres
COPY OF C-108 AND AS	SSOCIATED DOCUMENT	'S THAT HAVE	BEEN SENT T	O SANTA FE
	<i></i>			
1 hereby certify that the information above is the and SIGNATURE COMMENTAL COMMENTS.	VOIAL 11	elief. <u>Sr. Regulatory S</u>	pecialist	DATE 04/17/96
TYPE OR PRINT NAME Alex M. C	orrea	(91	.5) 688-6782	TELEPHONE NO.
(This space for State Use)				
V				
APPROVED BY	TITLE			DATE

03 TT 6.

25% : 44

WEI ORE SKETCH AND WELL HISTORY

ELEV.: KB 3466 ".	13.8 ABOVE CHF	FIELD:	WELL NAME: B-D-T :: 1980'F8	COUNT	EXICO"Y"STA CLEA EWL SEC	ST.:
	HOLE SIZE: 15	_T=21.	9		-	BY:
	HOLE SIZE: 15 TOC: Suf Circ 25sx			CASIN	G RECORD	,
		ì		SURFA	CE CASING	
	103/4. 329 CMT 375 SX	7	0.0.	WT/FT	GRADE	SET AT
	CMT_120_SX		163/4	40.48	1W	329
	074	-	75/8	26.4	11.55	3079
	HOLE SIZE: 978			PRODUC	TION CASING	G
	Toc. 550 (78)	1	<u> 5/2</u>	17	N-80	0-103
	- 177 784 PS. 115 -	g - r . = - [51/2	15.5	1-55	1125-469
	Tea Tea	-	51/2 51/2	15.5	J-55 J-55	1497-62
	13	5	51/2	17	11-55	1296'-67
	75% . 3079		51/2	17 T	UBING N-80	6760-871
	CMT_//00_SX		NO. JTS. O.E	. THO.	TYPE WT.	GDE. SET
			118 231	3 1 Ben 1	EUE 47	11-55
EMBURY (2	Graylung Perfx 3763-3891			WELL	HISTORY:	
3962-85	HOLE SIZE:674		3/52 D	ÉC PER	FUENCERCE	e 8696-810
1	TOC: 3550 (73)				RY78-8302.	ACIDIZE LA
	C18P@ 4500' -1 35' C-T	-		20 CNS 15	70	
	CIBP @ 4800 4/35	ا سیسدر	7/51 /100	108-	8202 w/60C	CA 157
		-			בבומני 4	
	397-7265 (H) 24052)	÷80	الهور			
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		نا			MER © 8055 150 sx. Pet	
		-		4-8004 [3		- ULCERTS
				7-1307-15		
			3/84 ACIL	112E 7974	1- ROOK W/3	000 GAL 15
	C18PG 7650' 4/20' CMT	-	4 40 0			200.004
3	7693-7791 (99 NOVES) HA				9'-779)' [91 0 GNS 15%	
4.4	7974-8004 (48PF) HAR	E		W 9300		<u> </u>
	MT RETAINER & 8055'	-369114786	9/9/ 39-48	P P 7650 . Pail	6897-7265 Acres	FRAT PLUOT
はおいい	8096-8202 (4SPF) ELLENE	-EW_			CHIL ON THE	
		COER			- / va// 35	
	5/2 . 8240				NEFEHCO 1	
	CMT_450_SX					
			Frong.		2 BW 1 162 KC	
_					5 HCIDIZE	- comm w
то: ЯЗИЛ ' РВО:	<u>8755 '</u>	1	PEDE	S Januel 3	7/-2-2941	SAR CALL VI

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

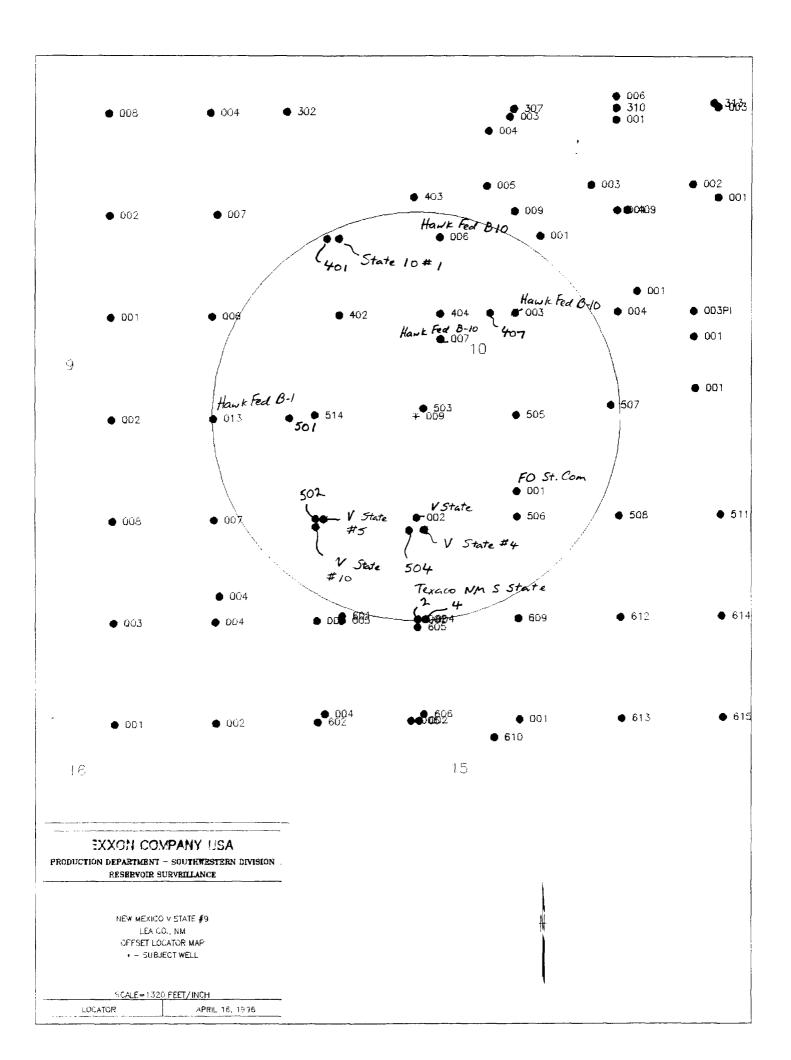
I, Kathi Bearden
Publisher
of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.
of
1 weeks. Beginning with the issue dated
June 16 , 1996
and ending with the issue dated
June 16 1996
Kathi Beader
Publisher Sworn and subscribed to before
me this day of
Sandra Catlett
Notary Public.
My Commission expires August 29, 1999

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.

(Seal)

LEGAL NOTICE June 16, 1996

Application to the New Mexico Oil Conservation Division for approval for fluid injection into the New Mexico "V" State, Well No..9. The well is located in Geetlen 10, T215, R37E, Lea County, New Mexico. The injection zone will be the Grayburg/San Andres for-mation from 3763' to 4962'. The maximum injection rate will be 600 barrels per day; the maximum injection pressure will be 1000 psig. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico, 87504, within 15 days. #14617



	(SX)	250 525	250 1360 450 470	250 1000 1250	260 1500 1050	250 1250 500	250 1612 835	250 1308 1250	250 1275 375
	DEPTH	268 3099 7980	270 3149 3072 8078	253 3099 7795	251 3149 8074	256 3099 8089	240 3150 7499	236 3128 8279	249 3128 7669
•	SSO	7 10 3/4" 7 5/8" 5 1/2"	10 3/4" 7 5/8" 5 1/2" 6 1/2"	13 3/8" 9 5/8" 7 5/8"	13 3/8" 9 5/8" 7" 87	10 3/8 7 5/8 5 1/2	13 3/8" 9 5/8" 7"	13 3/8" 9 5/8" 7"	10 3/4" 7 5/8" 5 1/2"
	COMMENTS*	Last production-1987	Active No production data Last production-1986	7520-7782 Abnd prod 11/16/64 6516-6708 Last production-1986 5726-6032 No production data 7520-7782 Last production-1988 Began injecting in 1988	Abnd prod 12/2/57 No production data No production data No production data Last production in 1987 Plugged off this interval	Last production-1989 Active	TA'd Active No production data No production data No production data	No production data Active No production data Last production-1986	Temp Abnd (1954) Temp Abnd (1954) Temp Abnd (1954) Last production in 1986 Currently Active
	PERFS TREATED	7827-7965	7966-8073 8061-8073 8010-8052 6545-6727 5739-6047 5680-6047 6545-6727	7520-7782 Abnd prod 6516-6708 Last produc 5726-6032 No product 7520-7782 Last product Began injecting in 1988	7656-8068 7656-7894 7923-8068 6998-7445 6210-6325 6998-7445	7637-7816 6807-7420	7445-7475 6598-6718 6191-6300 6710-6718 6191-6300	7800-7974 7800-7974 6925-7055 5728-6002	7614-7650 7095-7128 7006-7128 6624-6704 5590-5860
	¢#	0	77777777777	0	3350	0 -	0 2	0 2	000
	PRODUCING PERFS*	;	7966-8073	:	1	6807-7420	6598-6718	7800-7974	5590-5860
	рертн	7981	8079	7800	8075	8090	7500	8285	8161
	DATE DRILLED	06/22/51	06/08/52	07/04/52	08/04/52	05/17/52	06/01/54	02/24/53	06/01/54
	FOOTAGE	1980 FNL, 1980 FEL	1980 FNL, 2310 FWL	1980 FNL, 2310 FEL	2310 FNL, 2310 FWL	990 FNL, 2310 FWL	990 FNL, 840 FWL	990 FNL, 990 FWL	1980 FNL, 990 FWL
	SECT.#	01	01	10	10	10	0	10	01
	STATUS	Inactive Oil	Active Oil	Injector	Inactive Oil	Active Oil	Active Oil	Active Oil	Active Oil
	WELL NAME	Hawk-Federal B-10 #3	NE Drinkard Unit #404	NE Drinkard Unit #407	Hawk Federai B-10 #7	Hawk-Federal B-10 #6	NE Drinkard Unit #401	State 10 #1	NE Drinkard Unit #402
	OPER.	Conoco	Shell	Shell	Conoco	Conoco	Shell	Conoco	Shell
	API # 30-025-	06452	06454	06456	06457	06458	06459	06460	06461

^{*} Data source: Petroleum Information, Exxon well files

CMT	_	6 250 8 1050 9 450	2 275 4 1250 6 575	2 300 8 1500 3 535	4 300 5 1540 3 465	400 900 8450	350
DEPTH		316 2808 6659	332 3194 6656	342 3098 7673	344 3100 8043	329 3100 8396	329
CSG	26	10 3/4" 7" 5 1/2"	10 3/4" 7 5/8" 5 1/2"	9 10 3/4" 7 5/8" 6 5 1/2"	4 10 3/4" 7 5/8" 5 1/2"	12 3/4" 8 5/8" 5 1/2" active	12 3/4"
COMMENTS*	8 No production data 1 No production data 8 No production data 5 No production data 5 No production data 8 Last production data 9 No production data 8 No production data 4 No production data 3 Shut off with BP 5 Active as of Feb-1996 51, 5500	8 3 No production data 8 5 reperf w/ 2 spf 8 reperf w/ 2 spf	ed sketch	7620-7655 Last production-1989 7461-7573 No production data 6477-6500 Last production-1986 5710-5800 No production data Began injection in 1989	7935-7990 Last production-1994 6560-6689 (from scout tickets - 1976)	8170-8365 Abnd 01/20/59 12 8230-8365 Abnd 01/20/59 8 8102-8123 Abnd 03/02/61 5 7990-7994 Abnd 12/18/60 6940-7206 Petr. Info. shows as active 6200-6262 Squeezed in 1992 3827-3980 Active 6200-6262 Shut off with BP CIBP at 6720, 6120, 4400	5 Active
P PERFS TREATED	6105-6298 No prod 5764-5804 No prod 5698-5744 No prod 5576-5672 No prod 6105-6298 Last pro 6280-6298 No prod 5576-5804 No prod 5576-6073 Shut of 4022-4175 Active a	6625-6658 5710-5850 6625-6658 5710-5850 6625-6658	See attached sketch	7620-7655 7461-7573 6477-6500 5710-5800 Began injecti	7935-7990 6560-6689	8170-8365 8230-8365 8102-8123 7990-7994 6940-7206 6200-6262 3827-3980 6200-6262	7570-7705 Active
#	00008	0 2 2	54	0 - 0 7	0	00 0 8 4 15 15	0
PRODUCING PERFS*	4022-4175	6625-6658	P&A 05/16/4 Re-P&A'd 1954	;	1	3827-3980 3429-3731	7570-7705
ОЕРТН	6312	0999	6751	7673	8043	8336	7117
DATE	07/13/55	11/16/48	02/15/49	03/16/51	05/24/51	08/27/51	10/24/51
FOOTAGE	990 FSL, 1980 FEL	660 FSL, 660 FWL	660 FSL, 1980 FWL	660 FSL, 1980 FEL	500 FSL, 2080 FWL	660 FSL 760 FWL	1980 FSL, 1980 FEL
SECT. #	0	01	0	0	01	0	10
STATUS	Active Gas	Active Oil	P&A 05/16/49 Re-P&A'd 1954	Active Injector	Inactive Oil	Active Oil	Active Oil
WELL NAME	NM 'FO' St. Com. #1 Ac (formerly Tubb Gas Comm. #1)	NE Drinkard Unit #502	NM "V" State #2	NE Drinkard Unit #506	NM "V" State #4	NM "V" State #5	NE Drinkard Unit #505
OPER	Exxon	Shell	Exxon	Shell	Shell	Exxon	Shell
API #	06462	06463	06464	06465	06466	06467	06468

^{*} Data source: Petroleum Information, Exxon well files

CMT (SX)	350 900 500	350 1100 400	200 200 600	375 1000 450	275 1400 400	1200 500	300 1700 500
DEPTH	337 3107 7625	305 3105 7573	310 2975 5989	342 3104 7939	333 3165 7785	2603 6630	294 2999 7895
CSG	12 3/4" 8 5/8" 5 1/2"	11 3/4" 7 5/8" 5 1/2"	10 3/4" 7 5/8" 5 1/2"	10 3/4" 7 5/8" 5 1/2" 400 100	13 3/8" 9 5/8" 5 1/2"	8 5/8" 5 1/2" 0T 6450' T 5515'	13 3/8 8 5/8 5 1/2
D COMMENTS*	sque sque sque serfe erfe	70 Active 15 No production data 22 No production data 32 No production data 16 No production data 70 Commingled	36 Last production-1988 44 No production data	7810-7939 Abnd 04/14/59 16960-7132 Abnd 06/26/63 7780-7270 Abnd 06/26/63 5780-7270 Abnd 06/26/63 5672-6513 No production data 6674-6688 Squeezed 07/12/63 4066-4353 Active 6472-6513 Shut off with BP at 6400 5157-5192 Shut off with BP at 5100	7620-7752 Abnd 12/04/52 7620-7752 Last production-1988 6108-6290 Abnd 12/02/58 5237-5732 Abnd 12/02/58 Began injecting in 1988	S Open Hole 85/8 15 Abnd prod. 5 1/2 30 No production data 30 No production data 15 Shut off with BP PBDT 6450 14 Active	7706-7732 Abnd prod 03/15/64 5802-5912 Last production-1987 7800-7825 Last production-1993
PERFS TREATED	7504-7620 \$ 5788-5818 \$ 6105-6359 \$ 3781-3937 p 3980-3990 p CIBP at 5696	6608-6670 7525-7545 7488-7502 6820-6832 5726-5846	5874-5936 5793-5844	7810-7939 6960-7132 7180-7270 Cmt plug 71 6472-6513 6674-6688 4066-4353 6472-6513	7620-7752 7620-7752 6108-6290 5237-5732 Began injecti	6630-6662 6565-6615 5620-5700 6180-6280 6565-6615 3840-3944 5620-5700	7706-7732 5802-5912 7800-7825
G CMP		7 4 0 0 0 0	0 -	33355 140	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 0 0	0 -
PRODUCING PERFS*	3781-3990	6608-6670	!	4066-4353	}	3840.3944	;
DEPTH	7625	7573	2990	7939	7785	6667	7896
DATE DRILLED	12/14/51	02/02/52	06/06/62	05/01/52	12/04/52	11/17/48	01/19/51
FOOTAGE	500 FSL, 1880 FWL	2100 FSL, 760 FEL	1980 FSL, 330 FWL	560 FSL, 660 FWL	2080 FSL, 2080 FWL	660 FNL, 1980 FWL	660 FNL, 2080 FWL
SECT. #	0	0	10	0	10	35	15
STATUS	Active Oil	Active Oil	Inactive Oil	Active Oil	Injector	Inactive Oil Active Gas	Inactive Oil
WELL NAME	NM "V" State #7	NE Drinkard Unit #507	NE Drinkard Unit #501	NM "V" State #10	NE Drinkard Unit #503	NM "S" State #2	NM "S" State #4
OPER.	Exxon	Shell	Shell	Exxon	Shell	Техасо	Texaco
API # 30-025-	06469	06470	06474	06472	06473	60990	06611

^{*} Data source: Petroleum Information, Exxon well files

SUPPLEMENT TO APPLICATION FOR AUTHORIZATION FOR DISPOSAL NEW MEXICO "V" STATE #9 SECTION 10, T-21-S, R-37-E LEA COUNTY, NEW MEXICO

V. Two maps are atta

VI. Attached is a wellbore sketch and tabular data on wells within the area of review.

VII. Proposed Operations

Average daily injection rate = 325 BPD
 Maximum daily injection rate = 600 BPD
 Volume of fluids to be injected = 500k Bbls

- 2. System is Open (open or closed)
- 3. The average and maximum injection pressures will be:

		Avg.	Max.
	Interval	Pressure	Pressure
NM "V" State #9	3763' - 4962'	250#	750#

4. The source of water that will be disposed of is from the San Andres and Grayburg formation.

Avalon info:

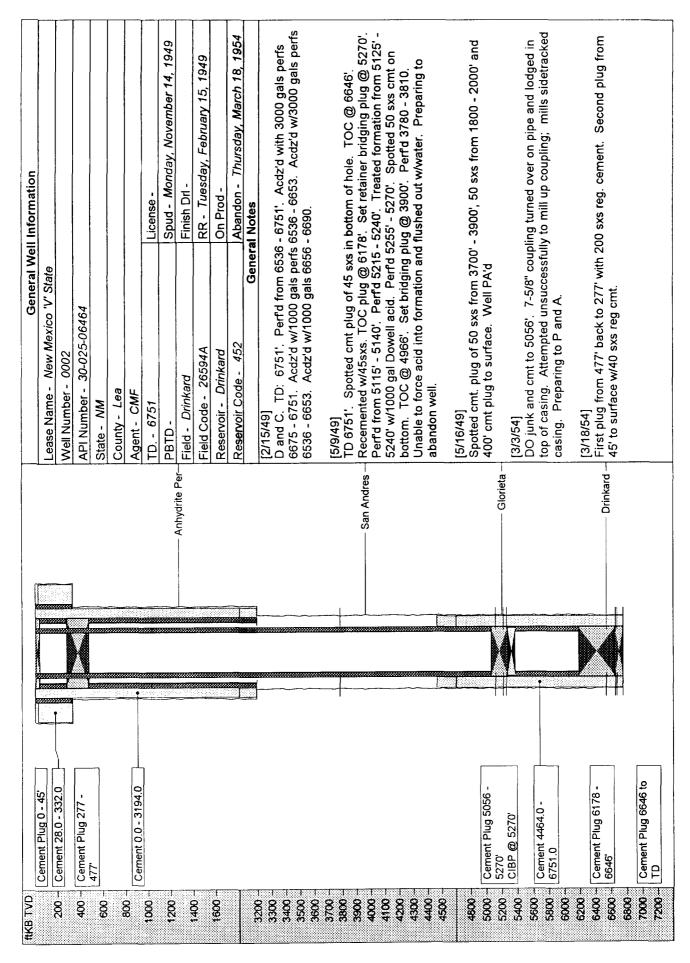
The water will be produced from Avalon Unit wells and 2 or 3 source water wells completed in non-productive intervals of the Lower Delaware.

Water will come from 3 New Mexico "V" State wells: #5, #7, #10 and the New Mexico "FO" State Com. #1.

5. (If injection is for disposal purposes into a zone not productive of oil or gas at or within 1 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.).

Not Applicable

API # 30-025-	OPER.	API # 30-025- OPER. WELL NAME	STATUS	SECT.#	SECT. # FOOTAGE	DATE DRILLED	рертн	PRODUCING CMP PERFS* #	G CMP	PERFS TREATED C	COMMENTS*	SSG	DEPTH	CMT (SX)
20178	Conoco	Hawk-Federal B-1 #13	Active Oil	თ	1980 FSL, 660 FEL	05/20/63	6780	5781-6043 6582-6710	00	5781-6043 Active 6582-6710 Active		9 5/8" 5 1/2"	1294 6780	350 700
30913	Shell	Northesst (Drinkard) Unit #514 Active Oil	Active Oil	01	2010 FSL, 660 FWL	05/15/91	6830	6467-6725	9	0 6467-6725 Active		20" 13 3/8" 8 5/8" 5 1/2"	40 410 3014 6827	450 1650 1055



Source: TWP: 021S R	RGE: 037E	SEC: 10 Quarter:				
County: Lea					License: NA	
Lease Name: New Mexico V State	V. State			Well Number: 0002		
TD: 6751.0 ftKB TVD (Drinkard)	card)			KB:	GR:	
RR: 2/15/49		Logs: (none)				
Spud: 11/14/49		Co-ord: S 660.0 ft / W 1980.0 ft	80.0 ft			
On Prod: NA		Status: (none)				
Casing: 10.750 in Surface @		332.0 ftKB TVD, 7.680 in Intermedia	te @ 3194.0 ft	ntermediate @ 3194.0 ftKB TVD, 5.500 in Production @ 6751.0 ftKB TVD	.0 ftKB TVD	
			Perforations	ations		
Date	Interval (ftKB TVD)		Shots (/ft)	Type		
5/9/49	3780.0-3810.0	3810.0	1.0	31 Total Shots		
5/9/49	5115.0-5140.0	5140.0	1.0	26 Total Shots		
5/9/49	5215.0-5240.0	5240.0	1.0	26 Total Shots		
5/9/49	5255.0-5270.0	5270.0	1.0	16 Total Shots		
2/15/49	6536.0-6653.0	3653.0	1.0	118 Total Shots		
2/15/49	6656.0-6693.0	5693.0	1.0	38 Total Shots		
2/15/49	6675.0-6751.0	3751.0	1.0	77 Total Shots		
			Formations/Horizons	Horizons		
Formation		Top (ffKB TVD)	Subsea	Formation	Top (ftKB TVD) Subsea	æ
Anhydrite Permian - Ochoan	u	1270.0	-1270.0	Glorieta	5200.0 -520	-5200.0
San Andres		3960.0	-3960.0	Drinkard	6536.0 -653	-6536.0
			Casing Cement	Gement		
String	Date	Top (#KB TVD)		Btm (ftKB TVD)	Amnt (sx) Comments	
Intermediate	ΑN		0.0	3194.0	1250 Est. TC	
Surface	ΝΑ		28.0	332.0	275 Est. TOC	
Production	NA		4464.0	6751.0	575 Est. TOC	
			Ilser Denth Annotations	Innotations		
Date	Denth (#KR TVD)			Annotation		
		50.0 Cement Plug 0 - 45'	lug 0 - 45'			
٩Z		_	Cement Plug 277 - 477'			
AN			lug 5056 - 527(Cement Plug 5056 - 5270'□□ CIBP @ 5270'		
Ϋ́		6400.0 Cement P	Cement Plug 6178 - 6646'	Ď.		
Ϋ́			Cement Plug 6646 to TD			



Laboratory Services, Inc.

1331 Tasker Drive Hobbs, New Mexico 88240





WATER ANALYSIS

COMPANY	Exxon Company USA		
SAMPLE	Sample #1 Deck House Wa	ter	
SAMPLED BY	Steve Herbold/Keomany (hampa	
		area compression and the c	
DATE TAKEN	04-26-96	**************************************	
REMARKS	Stable Water	Page to the second of the seco	
		AND THE PERSON NAMED IN	
Barium as Ba		0.00	
Carbonate alka	linity PPM	0	
Bicarbonate alk	cilinity PPM	196	
pH at Lab		7.32	
Specific Gravity	v @ 60° F	1.002	
Magnesium as		184	
Total Hardness		318	
Chlorides as Cl		184	
Sulfate as SO4		190	
Iron as Fe		0.10	
Potassium		0.21	
Hydrogen Sulfic		0.00	
Resistivity Ohm	ns Oi	f Scale	• C
Total Dissolved		580	
Calcium as CA		134	
<u>Nitrate</u>		6.60	
		oblique d'un qui la sance i più di i delle i di un di	
		A STATE OF THE STA	
Results reported	d as Parts per Million unless sta	ated	
Langelier Satura	ation Index	+0.04	

Analysis by Viokie Walker
Date: 04-28-96

S S

Laboratory Services, Inc.

1331 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713



WATER ANALYSIS

COMPANY	Exxon Company USA
SAMPLE	Sample #2 Deck Pond Water
SAMPLED BY	Steve Herbold/Keomany Champa
DATE TAKEN	04-26-96
REMARKS	Slight scaling tendency
· · · · · · · · · · · · · · · · · · ·	
Barium as Ba	0.00
Carbonate alk	
Bicarbonate al	Killfilly PPIVI 128
pH at Lab	8.39
Specific Gravit	y @ 60° F 1 002
Magnesium as	
Total Hardnes	s as CaCO3 262 262
Chlorides as C	
Sulfate as SO	4
Iron as Fe	0.05
Potassium	0 21 ide 0 00
Hydrogen Sulf Resistivity Ohr	ms Off Scale °C
Total Dissolve	
Calcium as CA	
Nitrate	0.00
IAIR GIG	
	The state of the s
Results reporte	ed as Parts per Million unless stated
Langelier Satu	ration Index +0.54

Analysis by Vickie Walker
Date: 04-28-96



X

COMPENSATED NEUTRON

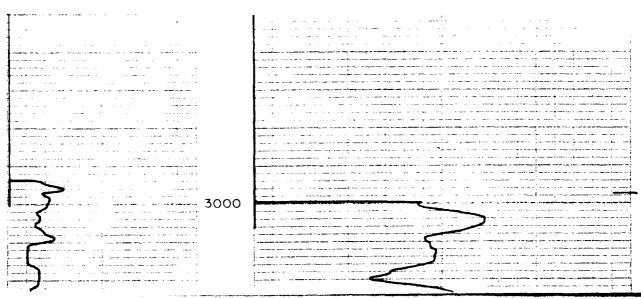
H_1120

~ H-11	. 20									
		COMPANY	EXXON CO	OMPANY	U.S.	Α				
		WELL	N.M.V. S							
		FIELD	N/A	N. 4. B						
ı		COUNTY		, ca						
		LOCATION	1980' F.	.S.L.	&	· · · · · · · · · · · · · · · · · · ·	OTHER SERVICES			
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Drilling Me	asure	ed From K	ELLY BUSH	ING			GL			
Date			6-10-83	- ;						
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Bottom log			7946'							
Top logge			3000'							
Type fluid Salinity			KCL							
Density		- C1	N/A N/A							
Level			FULL		·					
	temn	Deg F	N/A							
Max, rec_temp., Deg_F Operating rig_time		3 HOURS								
Recorded by		BOB HAR								
Witnessed										
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RAPID REPRODUCTIONS, INC. 300492

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Dist 10 N	Source	7'						Detect	Model 15		HE3			
-		iompi	ter Data					Source	Model No		DDN2	-		
Casing Thic	kness	1						Se	rial No		712A4	45B		
Cement Ih	ckness							Ty	pe		AMBE	241		
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GAMMA RAY		DEPTH	POROSITY %
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0	125		COMPENSATED NEUTRON POROSITY 30 20 10 0 -10



■ Gamma Ray 3200

NEUTRON POROSITY

بمعتصصين يصفينان المرادين

- Francisco - Fran ----------

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أحاجيه المراجع والمساور والمساور 5100 5200

______ Gamma Ray 5400

5300 NEUTRON-POROSITY

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NEUTRON AGROSHY

REPEAT SECTION



MIDLAND PRODUCTION ORGANIZATION
OPERATIONS INTEGRITY

August 13, 1996

Application for Fluid Injection New Mexico "V" State Well No. 9 Lea County, New Mexico

State of New Mexico Energy & Minerals Department Oil & Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504



Gentlemen:

Enclosed are copies of proof of notice to surface and offset operators for the above lease. Also enclosed is a revised supplement to application for authorization for disposal.

If you have any questions, please give me a call at (915) 688-7899.

Sincerely,

Selena Q. Nunez

Elevallunez

SQN/s Enclosures



SUPPLEMENT TO APPLICATION FOR AUTHORIZATION FOR DISPOSAL NEW MEXICO "V" STATE #9 SECTION 10, T-21-S, R-37-E LEA COUNTY, NEW MEXICO

V	TWO	mane	ara	attached.
ν.	IWU	mabs	are	allached.

- VI. Attached is a wellbore sketch and tabular data on wells within the area of review.
- VII. Proposed Operations
 - Average daily injection rate = 325 BPD
 Maximum daily injection rate = 600 BPD
 Volume of fluids to be injected = 500k Bbls
 - 2. System is _____ (open or closed)
 - 3. The average and maximum injection pressures will be:

		Avg.	Max.
	Interval	Pressure	Pressure
NM "V" State #9	3763' - 4962'	250#	750#

4. The source of water that will be disposed of is from the <u>San Andres and Grayburg</u> formation.

Water will come from 3 New Mexico "V" State wells: #5, #7, #10 and the New Mexico "FO" State Com. #1.

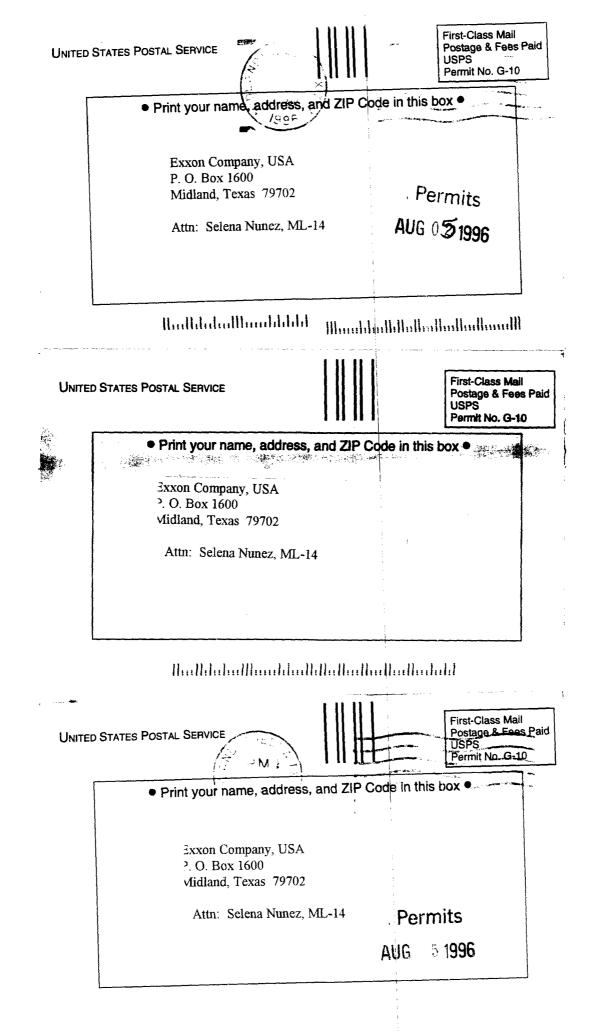
5. (If injection is for disposal purposes into a zone not productive of oil or gas at or within 1 mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

Not Applicable

VII: The proposed intervals for disposal of salt water are the San Andres and the lower Grayburg. The top of the Grayburg zone is at 3,746 feet and the top of the San Andres zone is at 3,932 feet. The Glorieta (top = 5,164 feet), which is below the San Andres, will not be perforated. The Grayburg and San Andres are mostly dolomite and are also porous and permeable -- they should be able to take the injected water without difficulty.

The only aquifer in the New Mexico "V" State area is the *Surface Allevium*. This aquifer ranges approximately from surface to about 100 feet true vertical depth. There are no other known aquifers in the immediate area. Because there is a separation of over 4,100 feet between the base of the aquifer and the upper perforation of the disposal interval, we do not expect any communication whatsoever.

XII: There are no known faults in the San Andres or Grayburg in the area. Thus, there is no opportunity for hydrologic connection between underground sources of drinking water and the proposed disposal zone.



your <u>RETURN ADDRESS</u> completed on the reverse side?	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 we card to you. Attach this form to the front of the mailpiece, or on the back if spanermit. Write "Return Receipt Requested" on the mailpiece below the article The Return Receipt will show to whom the article was delivered at delivered. 3. Article Addressed to: Meridian Oil Inc. P. O. Box 4239 Houston, Texas 77210	4a. Article 4b. Service Registe Express Return R 7. Date of D 8. Address	1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee. Number O 404 430 Type red Certified s Mail Insured eceipt for Merchandise COD Delivery Add 0 5 1996 ee's Address (Only if requested	Thank you for using Return Receipt Service.
Is your BE	6. Signature: (Addlessee or Agent) X PS Form 3811, December 1994	and fee	Domestic Return Receipt	
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ADDRESS	Shell Western E&P Inc. P. O. Box 576 Houston, Texas 77001	4a. Article Nu 4b. Service T Registere Express N Return Rec 7. Date of De	ype d Certified Mail Insured eipt for Merchandise COD	
	5. Received By: (Print Name) 6. Signature: (Addressee or Agent)	8. Addressee and fee is	's Address (Only if requested baid)	, and a

PS Form **3811**, December 1994

Domestic Return Receipt

First-Class Mail United States Postal Service Postage & Fees Paid USPS Permit No. G-10 Print your name, address, and ZIP Code in this box ● Exxon Company, USA P. O. Box 1600 Midland, Texas 79702 Attn: Selena Nunez, ML-14 First-Class Mail UNITED STATES POSTAL SERVICE Postage & Fees Paid USPS Permit No. G-10 Print your name, address, and ZIP Code in this box Permits Exxon Company, USA P. O. Box 1600 Midland, Texas 79702 Attn: Selena Nunez, ML-14 First-Class Mail United States Postal Service Postage & Fees Paid USPS Permit No. G-10 Print your name, address, and ZIP Code in this box ● Exxon Company, USA P. O. Box 1600 Midland, Texas 79702 Attn: Selena Nunez, ML-14 Handlehalandhandhandhadhadhadhadhadhadhadh

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-	delivered.		Consult postmaster for fee.	
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Is vour RETURN	5. Received By: (Print Name) 6. Signature (Addressee or Agent) X PS Form 3811, December 1994	Return Ref. 7. Date of L. 8. Addresse and fee in the can return this ce does not cle number. Indicate the date.	Domestic Return Receipt I also wish to receive the following services (for an extra fee):	Than
Is vour RETURN	5. Received By: (Print Name) 6. Signature (Addressee or Agent) X PS Form 3811, December 1994	8. Addresse and fee in the can return this ce does not the number. Indicate the date	Domestic Return Receipt I also wish to receive the following services (for an extra fee):	Than
Is vour RETURN	5. Received By: (Print Name) 6. Signature (Addressee or Agent) X PS Form 3811, December 1994	Return Ref. 7. Date of E. 8. Addresse and fee if the can return this ce does not cle number. Indicate the date. 4a. Article f. 4b. Service	Domestic Return Receipt I also wish to receive the following services (for an extra fee):	Than
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	● Print your name, addres	s, and ZIP Code in	this box ●	
	Exxon Company, USA O. Box 1600 Viidland, Texas 79702 Attn: Selena Nunez, M	ML-14 A U	Feinits 5 1996	
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	Exxon Comp POBOX 1600 Midland TX AHU! SQNU	1797025	Permits	

	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 to card to you. Attach this form to the front of the mailpiece, or on the back in permit. Write "Return Receipt Requested" on the mailpiece below the "The Return Receipt will show to whom the article was delivered. 3. Article Addressed to: Dallas McCasland P. O. Box 201 Eunice, New Mexico 88231 5. Received by: (Print Name) 6. Signature (Addresses of Agent)	4a. Article 4b. Servi Regis Expre	1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee. e Number 40 404 434 ce Type tered Sertified	Thank you for using Return Receipt Service.
+ -	PS Form 3811, December 1994 SENDER:		Domestic Return Receipt	
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	Will N. Terry Trust	274	0404435	E
į	P. O. Box 686	4b. Service Type		
Ç	Hobbs, New Mexico 88241	☐ Registe	ered Certified	g.
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	PS Form 3811 , December 1994		Domestic Return Receipt	
side?	SENDER: Complete items 1 and/or 2 for additional services.		I also wish to receive the	
e si	■Complete items 3, 4a, and 4b. ■Print your name and address on the reverse of this form so that v	ve can return this	following services (for an extra fee):	
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completed on the reverse	3. Article Addressed to:	4a. Article Nu	1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee. Japan Consu	
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