SUSPENSE

# NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIO WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE Application Acronyms:	NS
ADDICATION ACTONYMS:	
[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]	•
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]	
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]  [A] Location - Spacing Unit - Simultaneous Dedication  [] NSL [] NSP [] SD	
Check One Only for [B] or [C] [B] Commingling - Storage - Measurement  DHC CTB PLC PC OLS OLM	
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WFX PMX SWD IPI EOR PPR	
[D] Other: Specify	
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or   [A] Working, Royalty or Overriding Royalty Interest Owners	
[B] Offset Operators, Leaseholders or Surface Owner	
[C] Application is One Which Requires Published Legal Notice	·
[D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	€.
[E] For all of the above, Proof of Notification or Publication is Attached, and/or,	
[F] Waivers are Attached	
3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYP OF APPLICATION INDICATED ABOVE.	'E
CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on application until the required information and notifications are submitted to the Division.	e this
Note: Statement must be completed by an individual with managerial and/or supervisory capacity.	.•
Print or Type Name Signature Title Date	<del> </del>
e-mail Address	

		njection Permit	Checklist					
SWD Order Number	•		, ,	_				
Well Name/Num: SHA	RK STATE #	1	Date Spudded:_	9/21/05				
API Num: (30-) 025-3	7427 County: Lee	<u>.                                    </u>		,				
Footages 330 Ful 990	FEL Sec	<b>30</b> Tsp <b>/6S</b> Rg	33E	• •				
Operator Name: MACH	C ENERGY C	DAP	Contactevy	w. Sherrel				
Operator Address: Po	BX 960 ART	ESIA UM &	8211-0960					
	Hole/Pipe Sizes	Depths	Cement	Top/Method				
Surface	171/2 133/8	360	448	CIRC				
Intermediate	12/4 85/8	670	1/00	CIRC				
Production		5366	1270	2750 CBL				
Last DV Tool								
Open Hole/Liner								
Plug Back Depth								
Diagrams Included (Y/N): E		R-After Conversion	ROOR					
Checks (Y/N): ELogs in Ima			Re la	Page Mogas in Well File online				
Intervals:	Depths	Formation	Producing (Yes/No	9				
Sall/Potash				Jack Thogas in				
-Capitan Reef				Well File online				
In Reef, Cliff House, Etc:								
Formation Above 7RVRS								
Top Inj Interval	3902	Queen IN	(0)	780 PSI Max. WHIP				
Bottom Inj Interval	4957	SA (Ca	es .	Open Hole (Y/N)				
Formation Below	·	GLOBOTTA		Deviated Hole (Y/N)				
Water Analysis Included (Y	/N): Fresh Water	Injection Zone	Disposal Waters	PNG BG				
Affirmative Statement Inclu								
Surface Owner	.O Minera	al Owner(s)						
Checks (Y/N): Newspaper								
Adequate Certified Notice:			_					
AOR Num Active Wells								
AOR Number of P&A Wells		•		_				
	Generate New AO		,	Generated? (Y/N)				
- Build to	STR	E-W Footages	N-S Footages					
Wellsite		L-W 1 ootages	14-3 / Oolages	Conditions of Annuals				
				Conditions of Approval:  1. Turnin LoGS				
Northeast North								
			<del>                                     </del>	2				
Northwest				3				
West				1				
Southwest				DDDMO Hoder 1979				
South				RBDMS Updated (Y/N)				
Southeast East				UIC Form Completed (Y/N)  This Form completed 122905				
Easi	l	L		This Form completed				

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

FORM C- 108 Revised 4-1-98

## **APPLICATION FOR AUTHORIZATION TO INJECT**

1.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storag Application qualifies for administrative approval'? Yes No							
IL	OPERATOR: Mack Energy Corporation							
	ADDRESS: P.O. Box 960, Artesia, NM 88211-0960							
	CONTACTPARTY: Jerry W. Sherrell PHONE: (505)748-1288							
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'? Yes X No  If yes, give the Division order number authorizing the project:							
V.	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.							
V1.	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.							
VIL	Attach data on the proposed operation, including:							
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>							
*V11	1. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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/I or less) overlying the proposed injection zone as well as any such sources 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 freshwater from two or more freshwater 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 sources 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: Mack C. Chase TITLE: President							
	SIGNATURE: Mark C. Clusar DATE: 12/1/2005							
*	if the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.  Please show the date and circumstances of the earlier submittel:							

#### 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 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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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

OPERATOR:	N	Mack Energy Corporation	
WELL NAME & NUMBER:		Shark State #1	
WELL LOCATION: 330 FNL & 990 FEL	NL & 990 FEL FOOTAGE LOCATION	A 30 UNIT LETTER S	16S 33E SECTION TOWNSHIP RANGE
MELL	WELLBORE SCHEMATIC	WELL	WELL CONSTRUCTION DATA Surface Casing
	13 3/8" casing set @ 360' w/448 sx	Hole Size: 17 1/2 Cemented with: 448	Casing Size: 13 3/8 set @ 360'  Sx. or
14,304 F. 14 F.		Top of Cement: Surface	Method Determined: Circulated Intermediate Casing
		Hole Size: 12 1/4	Casing Size: 8 5/8 set @ 2649'
	8 5/8" casing	Cemented with: 1100	sx. orft
The second second	set @ 2670'	Top of Cement: Surface	Method Determined: Circulated
Perfs from 3902.3926'	W/1100 SX		Production Casing Proposed Casing
	·	Hole Size: 77/8	Casing Size: 5 1/2 set @ 5366'
		Cemented with: 1270	sx. orft
Perfs from 4826.5-4951.5		Top of Cement: 2750	Method Determined: CBL
	5 1/2" coeing set @	Total Depth: 5375'	
	5366' w/1270 sx		Injection Interval
		3902'	feet to 4951.5'

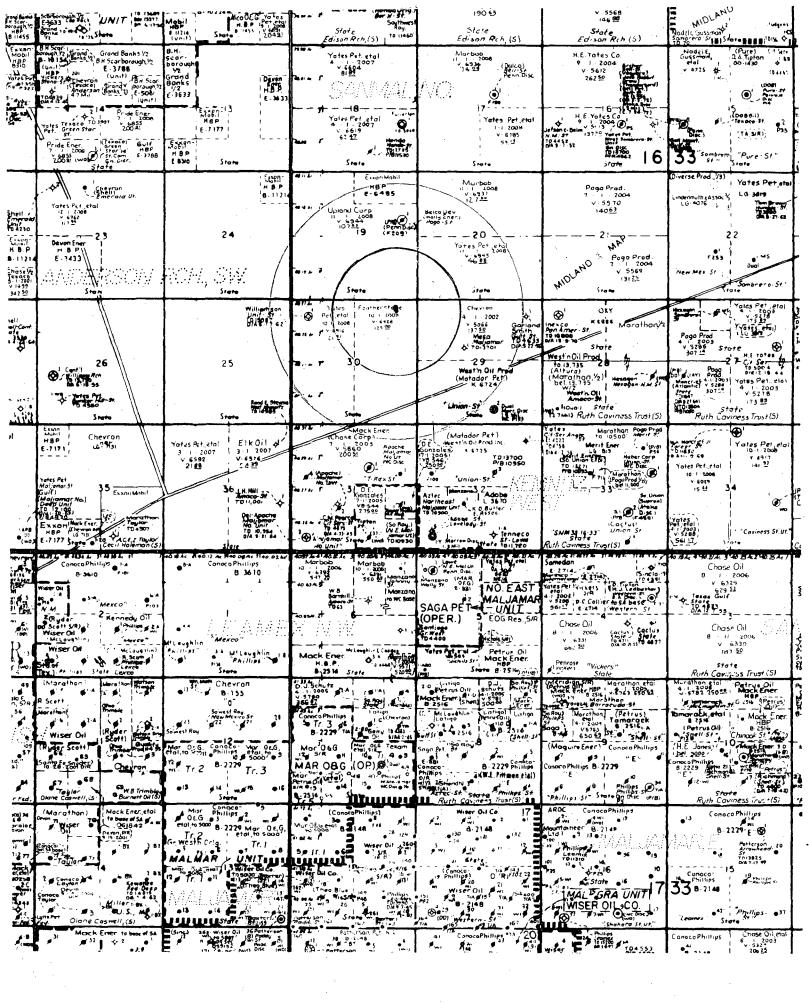
(Perforated or Open Hole; indicate which)

# INJECTION WELL DATA SHEET

Tubing Size:  Lining Material:  Plastic Coated  Type of Packer:  Halliburton Trump Packer  Packer Setting Depth:  3800'  Other Type of Tubing/Casing Seal (if applicable):  Additional Data  Additional Data  Is this a new well drilled for injection?  If no, for what purpose was the well originally drilled?  Oueen/San Andres  Name of the Injection Formation:  Name of Field or Pool (if applicable):  Hume Queen West/Wildcat San Andres  Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.  Queen Formation  Queen Formation
Tubing Type o Packer Other 7 If If Is If A 3. Na initial

AREA OF REVIEW WELL DATA

i .				30-025-37427	Shark State SWD	LEASE	
				1		WELL#	
				30-16S-33E	330' FNL 990' FEL	LOCATION (PBTD)	
				5353'	5375'	(PBTD)	ᄅ
				9/21/2005	O <u>i</u>	DRILLED	TYPE & DATE
				7 7/8	17 1/2 12 1/4		HOLE
				5 1/2, 15.5#	13 3/8, 48# 8 5/8, 24 & 32#	=	CASING SIZE
				5366'	360' 2649'	DEPTH	SETTING
				1270	448 1100		XS
				2750'	Circ Circ		
				3902-3926'	4826.5-4951.5'	PERFS	



#### VII. DATA SHEET: PROPOSED OPERATIONS

- 1. Proposed average and maximum daily rate and volume of fluids to be injected;
  - Respectively, 2000 BWPD and 3000 BWPD
- 2. The system is closed or open;

#### Closed

3. Proposed average and maximum injection pressure;

#### 100-360#

4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;

## We will be re-injecting produced water

5. 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;

#### N/A

#### VIII. GEOLOGICAL DATA

	Queen	San Andres
1.	Lithologic Detail; Sand	1. Lithogic Detail; Carbonate
2.	Geological Name; Queen	2. Geological Name; San Andres
3.	Thickness; 24'	3. Thickness; 125'
4.	Depth; 3902-3926'	4. Depth; 4826.5-4951.5'

## IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 1000 gallons 15% acid

## X. LOGS AND TEST DATA

1. Well data has been filed with the OCD

# XI. ANALYSIS OF FRESHWATER WELLS

1. Attached

Additional Information Waters Injected Queen, Grayburg

# XII. AFFIRMATIVE STATEMENT

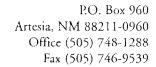
RE: Shark State #1 SWD

We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

Mack Energy Corporation

Date: 12-1-2005

Mack C Chase, President





John Norris HCR 70 Box 57B Lovington, NM 88260

Gentlemen:

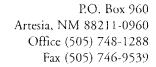
Enclosed for your review is a copy of Mack Energy Corporation's application for approval to complete the Shark State #1, Sec. 30 T16S R33E well as a produced water disposal well in the Queen and San Andres formation,

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell Production Clerk





# VIA CERTIFIED MAIL 7004 2510 0004 3033 1997 RETURN RECEIPT REQUESTED

Charles Ray PO Box 51608 Midland, TX 79710

#### Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for approval to complete the Shark State #1, Sec. 30 T16S R33E well as a produced water disposal well in the Queen and San Andres formation.

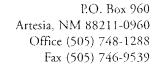
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

1. Shenell

Jérry W. Sherrell Production Clerk





# <u>VIA CERTIFIED MAIL 7004 2510 0004 3033 1980</u> RETURN RECEIPT REQUESTED

Chesapeake Energy Corporation PO Box 18496 OKC, OK 73154-0496

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for approval to complete the Shark State #1, Sec. 30 T16S R33E well as a produced water disposal well in the Queen and San Andres formation.

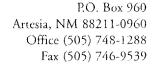
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

! Shenell

Jerry W. Sherrell
Production Clerk





# <u>VIA CERTIFIED MAIL 7004 2510 0004 3033 1942</u> RETURN RECEIPT REQUESTED

Featherstone Development Corporation 1801 West Second Street Roswell, NM 88201

#### Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for approval to complete the Shark State #1, Sec. 30 T16S R33E well as a produced water disposal well in the Queen and San Andres formation.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

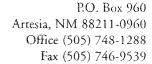
Sincerely,

MACK ENERGY CORPORATION

eny W. Sherrell

Jerry W. Sherrell Production Clerk

JWS\





September 6, 2005

# <u>VIA CERTIFIED MAIL 7004 2510 0004 3033 1959</u> RETURN RECEIPT REQUESTED

Patrick H. Lyons State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, NM 87504-1148

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for approval to deepen and complete the Jack Rabbit SWD #1(Formerly Central EK Queen Unit #1), Sec. 9 T18S R34E well into a produced water disposal well in the SWD Delaware formation.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell Production Clerk



P.O. Box 960 Artesia, NM 88211-0960 Office (505) 748-1288 Fax (505) 746-9539

December 1, 2005

# VIA CERTIFIED MAIL 7004 2510 0004 3033 1966 RETURN RECEIPT REQUESTED

Western Oll Producers PO Box 1498 Roswell, NM 88202

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for approval to complete the Shark State #1, Sec. 30 T16S R33E well as a produced water disposal well in the Queen and San Andres formation.

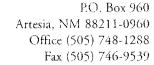
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

my W. Shenell

Jérry W. Sherrell Production Clerk





# <u>VIA CERTIFIED MAIL 7004 2510 0004 3033 1973</u> RETURN RECEIPT REQUESTED

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

#### Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for approval to complete the Shark State #1, Sec. 30 T16S R33E well as a produced water disposal well in the Queen and San Andres formation.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jérry W. Sherrell Production Clerk

JWS\

		TRANSACTION REPORT		DEA 04 000F (	P. 01
FOR: ma	ack energy	15057469539	• • •	DEC-01-2005 1	IHU 12:43 PM
SEND DATE START	RECEIVER	TX TIME PAGES	TYPE	NOTE	M# DP
DEC-01 12:42	PM 915053970610	24" 2	FAX TX	OK	544
		TOTAL		24S PAGES: 2	2

P.O. Box 960 Artesia NM 88211-0960 (505)748-1288 Fax (505)746-9539

Mack Energy Corporation



				☐ Please Reply	□ Please R	ecycle
□ Urge	nt × For Review	□ Please Co	- Finant	□ Please Reply		
Ret	Shark State Legal Notice		CC:			
Phone:			Date;	12/1/2005		
Fax:	505-397-0610		Pages:			
To:	Hobbs News Sun/Attn: B	ridgette	From:	Jerry W. Sherrell		

Thanks

<sup>•</sup> Comments: Bridgette, attached is a Legal Notice that I would like to have published. Would you please call Mack Energy Corporation (505)748-1288 and ask for Sylvia, when you have a price figured for this ad. If you have any questions give me a call at 505-748-1288.

#### Legal Notice

Mack Energy Corporation, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced salt water in the Shark State #1, Section 30, Township 16 South, Range 33 East, NMPM, Lea County, New Mexico. The water will be injected into the Queen and San Andres formation at a disposal depth of 3902-4951.5'. Water will be injected at a maximum surface pressure of 300 pounds and a maximum injection rate of 3000 BWPD. Any interested party with questions or comments may contact Jerry W. Sherrell at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960 or call (505) 748-1288. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice. Published in the Hobbs News Sun, Hobbs, New Mexico.