

New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

JAN 2 5 1999

Attention: Mrs. Lori Wrotenbery, Division Director

Dear Mrs. Wrotenbery:

Enclosed herewith, is the Marbob Energy Corporation Application for Authorization to Inject concerning the E L Federal No. 8 located at 380' FSL and 990' FEL in Section 21 of Township 17 South, Range 30 East in Eddy County, New Mexico.

Application is made pursuant to Rule 701C of the Division Rules and Regulations for Administrative Approval for Disposal into the Yeso/Paddock formation. The waters to be disposed of will consist of produced waters from the Seven Rivers, Grayburg, San Andres, and Yeso/Paddock formations. There were no fresh water wells found within one mile of the proposed salt water disposal well. Productive quantities of oil and gas exist within one half mile of the proposed well. However, Marbob Energy has been unsuccessful in our attempt to produce any oil or gas from the E L Federal No. 8. The proposed injection interval is geologically "down-dip" from other successful wells in the area. An injectivity test has been performed and encountered no pressure build up.

Publication of Marbob's intent to utilize the subject well for water disposal has been made in the Artesia Daily press, and copies of this Application have been mailed to each leasehold operator within one half mile of the well via certified mail. Please advise me as to your requirements for copies of legal notice, notice to leasehold operators, etc.

Marbob Energy Corporation respectfully request your approval of the before mentioned Application at the expiration of the fifteen day waiting period.

Sincerely,

Dean Chumbley Land Department

DC/mm Enclosures form o 100-3 (July 1989) (formerly:?-331C).

## OPERATOR COPY

OF COPIES OF CUIRED

(Other institutions on reverse side)

MM Roswell District Modified Form No. NMO60-3160-2

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 2 6 1998 NM-0467930

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APPROVED BY	limas	to G. Loss	FIT	TLELands	and Minerals	<u> </u>	DATE	1330	-
CONDITIONS OF	APPROVAL, IF ANY:								

Form 3160-3 Link 1989) (formariy 9-331C)

# DEPARTMENT OF THE INTERIOR

OFFICE FOR NUMBER OF COPIE WIRED (Other instructions on reverse side)

BLM Roswell District Hodified Form No. N4060-3160-2

A 4008 5. LEASE DESIGNATION AND SERVAL NO

		UREAU OF L			YAM		1220	NM#46793	12-		
APPLICA	ATION FOR	PERMIT TO	DRILL,	DEEPEN,	OR PL	UG B	ACK	6. IF INDIAN, A		OR TRIE	E NAME
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2. NAME OF OPER	ATOR		<del></del>		3a. Are	a Code &	Phone No.	E.L. FEI	ERAL		
Marbob E	nergy Corpo	ration			505-7	48-330	73	9. WELL NO.			
3. ADDRESS OF OP	ERATOR				,			6			
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APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or ping back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout

reventer program. If any.		
SIGNED RODIN COCHTUM	TITLE Production Clerk	DATE 4/22/98
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY APPROVAL, IF ANY:	- TITLE Certain Adam, Mine	DATE 5-22-98

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 6. 19 INDIAN, ALL	ATION AND REBLAL NO.
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Marbob Energy Corporation 14049 505-748-3303 9. WELL NO. ADDRESS OF OPERATOR 7	•
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	r17s-R30E
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3614' GR   6/1/98	<del></del>
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7 7/8" 5 1/2" 17# J-55 LT&C 6000' I	TO CIRC
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7 7/8" 5 1/2": 17# J-55 LT&C 6000' I  PAY ZONE WILL BE SELECTIVELY PERFORATED AND STIMULATED AS NEEDED FOR OPTIMUM PRODUCTION.  ATTACHED ARE: 1. WELL LOCATION AND ACREAGE DEDICATION PLAT 2. SURFACE USE PLAN	TO CIRC  RECEIVED ARTESIA OCD - ARTESIA
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DEPARTMENT OF THE INTERIOR. Oil Cons. Division 5. Lease Designation and Serial No.

No. 1004-0136

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NAME OF OPERATOR  Ack Energy Corporation  Ack Energy Corporation  30 AFIWELL NO  30-015-04249  10. FIELD AND FOOL, OR WILLOCAT  Grayburg Jcksn, SR,QN,GB, Alsurface  330 FSL 2310 FWL  Alsurface  330 FSL 2310 FWL  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  1/4 miles South of Loce Hills, NM  DISTANCE FROM PROPOSED*  LOCATION TO NEAREST  FROM PROPOSED  LOCATION TO NEAREST  FROM PROPOSED LOCATION*  TO WARKET WELL, DRILLING, COMPLETED  ON APPLIED FOOK, ON THIS LEASE, IT.  ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE  GAME SIZE OF HOLE  GAME SIZE OF HOLE  GAME SIZE OF SIZE  Mack Energy Proposes to deepen well from PBTD of 1920' to 4900', Log well and run 4 1/2 J-55 liner from 4900'  D Surface and cement liner from 4900' to 2000'. Perf liner and test for commercial production. Mack Energy requests and restricted profession of the proposed work.	DRI		DEEPEN	$\boxtimes$	•		7. UNIT AGREEMENT NA	ME
NAME OF OPERATOR  Ack Energy Corporation  Again Kell No.  30-015-04249		at OTHER		SI		PLE	8. FARMOR LEASE NAME, WEL	LNO
ADDRESS AND TELEPHONE NO.  O. Box 960 Artesia, NM 88211-0960 (505) 748-1288 10. FIELD AND FOOL, OR WILDCAT GRAYDURG JCKSIN, SR. QN, GB, At surface 330 FSL 2310 FWL 330 FSL 2310 FWL Sec 21-T17S-R30E  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR FOST OFFICE* 1/4 miles South of Loco Hills, NM Eddy NM DISTANCE FROM PROPOSED*  DISTANCE FROM PROPOSED*  LOCATION TO NEAREST PROPERTY OR LEASE LINE, IT. (Also to nearest drig, until line, if any)  DISTANCE IN MILES AND DIRECTION*  TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOOR, ON THIS LEASE, FT.  CALIFORN, ON THIS LEASE, FT.  ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE GRADE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 12. 1/4 8 5/8 24 472 50  TO 7/8 7 20 1799 50  6 1/8 4 1/2, J-55 11.6 4900 Circ  Mack Energy Proposes to deepen well from PBTD of 1920' to 4900', Log well and run 4 1/2 J-55 liner from 4900' on Surface and cement liner from 4900' to 2000'. Perf liner and test for commercial production. Mack Energy requests a series of the proposed work.	NAME OF OPERATOR				ONE ELE ZONE		Federal X	#5
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# UN. . ED STATES OF THE INTERIOR STATES OF THE INTERIOR STATES OF THE INTERIOR STATES OF THE INTERIOR STATES S. LEASE DESIGNATION AND SERIAL NO.

BUREAU OF LAND MANAGEMENT

Artesia, NM 88210-2834 LC-029342-A

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Form 3160-3 (December 1990)

# N. M. Oil Cons-Division

Form approved.

Budget Bureau No. 1004-0136 UNITED STATES Expires: December 31, 1991 DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT LC-029342-A 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN In. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL 🖾 DEEPEN b. TYPE OF WELL MULTIPLE SINGLE 8. FARM OR LEASE NAME, WELL NO. 2. NAME OF OPERATOR Woolley Federal #5 **Mack Energy Corporation** 9. API WELL NO. 1. ADDRESS AND TELEPHONE NO. 30-015-30507 10. FIELD AND POOL, OR WILDCAT P.O. Box 960, Artesia, NM 88211-0960 Loco Hills Paddock 4. LOCATION OF WELL (Report location clearly and in accordance with any 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1550 FSL 2310 FWL LIKE APPROMAI At proposed prod. zone Sec 21 T17S R30E 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE AND MILES AND MILE /12. COUNTY OR PARISH | 13. STATE Eddy .25 miles South Loco Hills DISTANCE FROM PROPOSED 16. NO. OF ACRES IN LEASE 17. NO OF ACRES IN LEASE TO THIS WELL LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 230 120 40 (Also to nearest drig. unit line, if any)
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\*See Instructions On Reverse Side

Assistant Field Office Manager,

Lands and Minerals

NOV 09 1998

(ORIG. SGD.) ARMANDO A. LOPEZ

APPROVED BY

Form 3160-3

Form 3160-3 (December 1990) P. O. DOA 1850

HOBBS NEW ME HANTED STATES
DEPARTMENT OF THE INTERIOR

SUBMIT IN TO LICATE\*

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Budget Bureau	No.	1004-0	136	
Expires: Decem	aber	31, 199	<b>)</b> 1	

5. LEASE DESIGNATION AND SERIAL NO.

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Exhibit #2 - Locati	on and Elevation Plat	ì		Exhibit #6 - Location	n Layout		
Exhibit #3 - Planne	ed Access Road	÷		Exhibit #7 - H2S Dri	illing Ope	erations Plan	
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signed Matt	J. Blown	TITL	.E	Geological Eng	ineer	DATE5/0	4/98
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Application approval does n	•	plicant holds legal or e	quitable ti	Assistant Field Of	fice Man	ould entitle the applicant to condu	ict operations th
APPROVED BY OR	IG. SGD.) ARMANDO A.	LOPEZ		Lands and Minera	ls	ager, OCT 1 1 1 OATE	998

#### Unichem International

#### 707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : Marbob

Date : 10-06-1998

Location: Randy Federal - Battery (on 10-05-1998)

Specific Gravity:

Total Dissolved Solids:

pH:

**♠**Resistivity:

IONIC STRENGTH:

@Sample 1 1.147 205424 6.50

20.000 ohms @ 68 [F

3.650

<b>OCATIONS:</b>	••	e de la companya de	<b>⊘</b> me/liter	©mg/liter
Calcium	(Ca+2)		124	2480
Magnesium	(Mg+2)		80.0	972
Sodium	(Na+1)		3320	76300
Iron (total)	(Fe+2)		0.376	10.5
@ANIONS:		•		
Bicarbonate	(HCO@3-1)		13.0	<b>79</b> 3

Carbonate (CO@3-2) Tydroxide (OH-1) Sulfate (SO@4-2) 39.6 Chloride (C1-1)123000

	©SCALING INDEX	(positive	value indicate Calcium	s scale) Calcium
<b>©</b> Tem	perature		<b>©</b> Carbonate	<b>©</b> Sulfate
86 [F	30 [C		0.72	-36
104 [F	40 [C	•	1.4	-35
122 [F	50 (C		1.7	-35
140 [F	60 [C		2.0	-35
168 (F	76 [C		2.5	-36
176[F	80 [C		2.7	-36

omments:

Bill Polk

Jay Brown

Attachment C-108 VII (a)

1900

# BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION APPLICATION FOR ADMINISTRATIVE APPROVAL MARBOB ENERGY CORPORATION APPLICATION FOR AUTHORIZATION TO INJECT

#### E L FEDERAL #8

#### TABLE OF CONTENTS

Application	Form C-108
Section III - XIII	Attachment I
Affirmative Statement	Attachment II
Proof of Public Notification	Attachment III
Current Wellbore Schematic	Attachment IV
Area of Review Map	Attachment V
Area of Review Data	Attachment VI
Water Analysis	Attachment VII
Proof of Offset Operators Notification	Attachment VIII
Miscellaneous Data	Attachment IX

#### **APPLICATION FOR AUTHORIZATION TO INJECT**

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Marbob Energy Corporation
	ADDRESS: Post Office Box 227, Artesia, NM 88211-0227
	CONTACT PARTY: Dean Chumbley PHONE: (505) 748-3303
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.
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:
	<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>
*VIII.	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/l 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 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 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: Dean Chumbley TITLE: Land Department
	SIGNATURE: DATE: January 21, 1999
*	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 submittal:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

#### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this applicatio 1. 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, tor of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting det th.
  - (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 a ea 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;
- 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; anc,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days.

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

# APPLICATION FOR AUTHORIZATION TO INJECT MARBOB ENERGY CORPORATION

#### E L FEDERAL #8

#### III. Injection Well Data

- 1. Proposed Rate of Injection:
  - A. Average daily rate of injection: 2,000 barrels
  - B. Maximum daily rate of injection: 10,000 barrels
- 2. Type of System:

System will be closed

3. Anticipated Injection Pressure:

It is anticipated that the injection pressure will be nominal but in no event would the pressure exceed 0.2 psi per foot of depth to the top of the injection zone at 4710 feet or 942 psi.

4. Source of Injection Water:

Source of disposal water is Seven Rivers, Grayburg, San Andres, and Yeso wells located in Sections 15, 22, and 23 of Township 17 South, Range 30 East and wells located in Sections 17, 18, 19, and 20 of Township 17 South, Range 31 East. See Attachment VII (a) for analysis of disposal water.

5. Disposal Zone Water Analysis:

Attachment VII (a) is a water analysis from Marbob's Randy Federal lease located in the S/2NE/4 of Section 22 in Township 17 South, Range 30 East. The Randy Federal produces from the same formation as the proposed injection interval on the E L Federal #8. Marbob was unsuccessful in our attempt to produce oil from the E L Federal #8, geologically the proposed salt water disposal well is "down-dip" from other wells producing from the same formation.

### Application for Authorization to Inject continued Marbob Energy Corporation, E L Federal #8

#### VIII Geologic Data

#### A. Injection Zone

1. Name: Yeso/Paddock

2. Lithology: Dolomite

3. Thickness: <u>+</u> 600'

4. Depth:  $\pm 4700'$ 

#### B. Water Compatibility:

Sample results attached

#### C. Fresh Water Aquifers:

None known in this area

#### IX Proposed Conversions / Stimulation Program

Move in and rig up pulling unit. Pick up plastic coated R-4 packer and trip in hole with New J-55 2 7/8" IPC tubing. Set packer at 4670 feet and load casing annulus with packer fluid. Perform casing test. Nipple up tree and put well in service.

#### X Logging Data

Logs for these wells have been filed with the Division

#### XI Fresh Water Analysis

No fresh water wells of record produce within one mile of the proposed disposal well

#### XIII Proof of Notice

A copy of this application has been furnished to the land owner of the land on which the proposed well is located and the leasehold operators within the area of review. Also, a notice has been published in the Artesia Daily Press, Artesia, New Mexico

# APPLICATION FOR AUTHORIZATION TO INJECT MARBOB ENERGY CORPORATION

#### E L FEDERAL #8

#### AFFIRMATIVE STATEMENT

I have examined all geologic and engineering data available for the Loco Hills field and find no evidence of open faults and other hydrologic connection between the disposal zone and any underground drinking water sources.

Name:	Martin Joyce	Date:	1-21-99	
Signature:	Mustin Suffl	Title: _	Geologist	· —

# ARTESIA DAILY PRESS LEGAL NOTICES

Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227 has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the E L Federal #8 is located 380 feet from the south line and 990 feet from the east line, Section 21, Township 17 South, Range 30 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Seven Rivers, Grayburg, San Andres, and Yeso formations. The disposal water will be injected into the Yeso/Paddock formation at a depth 4710' - 5128'. A maximum surface pressure of 942 psi, and a maximum rate of 10,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 2040 South Pacheco Street, Santa Fe, New Mexico 87505 within fifteen (15) days of this notice. Any interested party with questions or comments may contact Dean Chumbley at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227 or call (505) 748-3303.

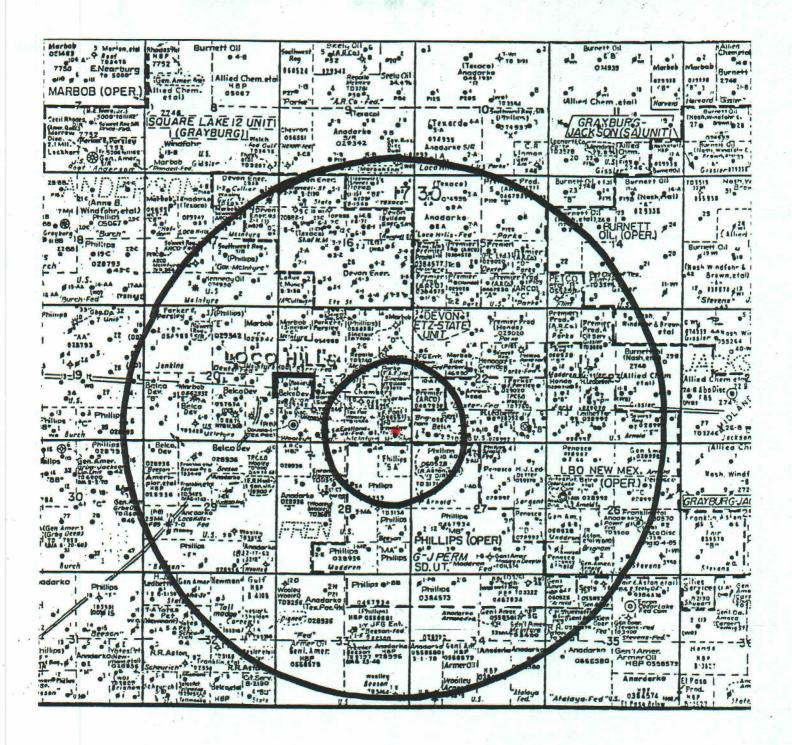
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FIT LOCATION:	380' FCI and 000' FFT	ت. ع	17c 30F
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WEL	WELLBORE SCHEMATIC	WELL CO	CONSTRUCTION DATA Surface Casing
<b>Ma</b> r 380'		Hole Size: 12 <sup>1</sup>	Casing Size: 8 5/8" J-55 24#
EC Sec	Sec21 - 17S - 30E Eddy Co., NM	Cemented with: 400 sx prem	plus sx. or ft³
	TOC circulated 8.625" @ 400' Cmtd w/ 400sxs	Top of Cement: Surface	Method Determined: Circulated
		Int	Intermediate Casing
		Hole Size:	casing size:
		Cemented With:	sx. or the state of the state o
		Top of Cement:	Method Determined:
	TOC circulated 5.5" @ 5285' Cmtd w/ 1350sxs	Pr	Production Casing
		7 7/8" ) sx 50/50 PC	Casing Size: 5½" J-55 17#
		Top of Cement: Surface	te 2nd stage  Method Determined: Circulated
		Total Depth: 5285'	
			Injection Interval
<del>- 11 11 11 - 1</del>	Yesp/Paddock Perfs 4710-5128	4710'	feet to 5128'
	TD 53000 PBTD 52700	(Perforated or (	(Perforated or Open Hole; indicate which)

# INJECTION WELL DATA SHEET

	<u>`</u>	4.	'n	2.	•			Packer Other	Tubing Type o
San Andres 3400 - 3650 Abo + 6500 - 6800	oths of any crea:	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.  No other zones have been perforated	Name of Field or Pool (if applicable): Loco Hills	Name of the Injection Formation: Yeso/Paddock	If no, for what purpose was the well originally drilled? O11 and Gas Production	Is this a new well drilled for injection? Yes X No	Additional Data	Packer Setting Depth:  Other Type of Tubing/Casing Seal (if applicable):	Tubing Size: Lining Material: Type of Packer:



#### Attachment V

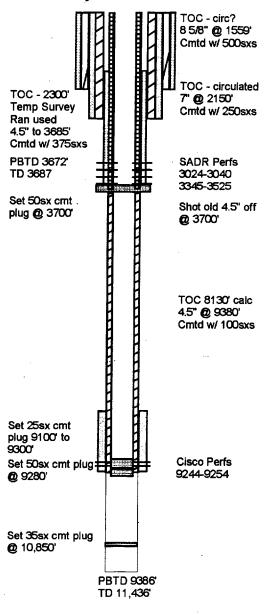
Map showing two and one-half mile area of review for

Marbob Energy Corporation's E L Federal No. 8 Disposal Well

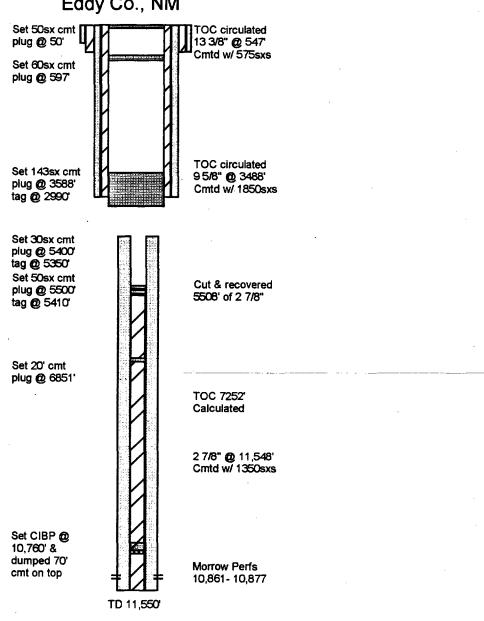
380' FSL & 990' FEL Sec.21-T17s-R30e Eddy County, New Mexico

_			,			·	<del></del>	<del>,          </del>	· 						
CASING PROGRAM	8 5/8 @ 420° CMTD W/ 400 SX 5 1/2 @ 4973° CMTD; 1ST STAGE W/400SX 3ND STAGE W/1100SX	4 Y \.	8 5/8 @ 422' CMTD W/400 SX 5 1/2 @ 5200' CMTD: 1ST STAGE W/300SX 2ND STAGE W/1600SX	SEE ATTACHED APPLICATION FORM 31 60-3	SEE ATTACHED APPLICATION FORM 3160-3	SEE ATTACHED APPLICATION FORM 3160-3	SEE ATTACHED APPLICATION FORM 3160-3	SEE ATTACHED APPLICATION FORM 3160-3	SEE ATTACHED APPLICATION FORM 31 60-3	SEE ATTACHED APPLICATION FORM 3160-3	SEE ATTACHED SCHEMATIC	SEE ATTACHED SCHEMATIC	SEE ATTACHED SCHEMATIC	SEE ATTACHED SCHEMATIC	SEE ATTACHED SCHEMATIC
FORMATION	YESO / PADDOCK	YESO / PADINOCK	YESO / PADDOCK	YESO / PADDOCK	YESO / PADDOCK	YESO / PADDOCK	SEVEN RIVERS, QUEEN, GRAYBURG, SAN ANDRES	SEVEN RIVERS, QUIEN, GRAYBURG, SAN ANDRES	YESO / PADDOCK	YESO / PADDOCK	V/N	MORROW	ABO	YESO / PADDOCK	GRAYBURG SAN ANDRES
INTERVAL	V.'X	N/A	V/N	N/A	N/A	N/A	N/A	N/A	N/N	N/N	N/N	0,861 - 10,87	6863 - 6866	N/N	3024 - 3040 3345 - 3525
TD/PBTD	TD-5000'	TD - 5050'	TD - 5200'	PROPOSED TO DEPTH GOOO'	PROPOSED TO DEPTH 6000'	PROPOSED TO DEPTH 6000'	PROPOSED TO DEPTH 4900'	PROPOSED TO DEPTH 4900'	PROPOSED TO DEPTH 5500'	PROPOSED TO DEPTH 5500'	TD - 6995'	TD - 11,550'	TD - 6873' PBTD - 6871'	PROPOSED TO DEPTH 5500'	TD - 3687' PBTD - 3672'
COMPLETED	NOT	NOT	NOT COMPLETED	V/N	N/A	V/N	N/A	V/N	V/N	V/N	ыку ног.е	ЭГЮН АНО	11/23/61	& A - RE-ENTRY POSED	. 92/40/80
GDdS	07/14/98	07/25/98	11/04/98	NOT DRILLED YET	NOT DRILLED YET	NOT DRILLED YET	NOT DRILLED YET	NOT DRILLED YET	NOT DELLED TET	LAK GETTING LON	08/27/60	02/02/91	19/11/01	CURRENTLY P & A - H ILAS BEEN PROPOSED	92/11/20
TYPE	OII.	По	OIL	ТЮ	OIL	OIL	OIL	OIL	OIL	OII.	P&A	P&A	V % d	P&A	OII.
LOCATION	2310 FNL - 865' FEL SECTION 21-175-30E	2310/15L - 330/FEL SECTION 21-17S-30E	2310' FSL - 990' FEL SECTION 22-175-30E	1650' FSL - 965' FEL SECTION 21-17S-30E	990' FSL - 330' FBL SECTION 21-17S-30E	1650' FSL - 430' FWL SECTION 22-17S-30E	330' FSL - 2310' FWL SECTION 21-17S-30E	330' FSL · 1650' FWL SECTION 21-175-30E	1550' FSL - 2310' FWL SECTION 21-17S-30E	990' FSL - 1750' FWL SECTION 22-17530E	1650' FSL + 1950' FEL SECTION 21-17S:30E	2030 FNL - 1830 FWL SECTION 28-175-30E	2230' FSL · 2100' FEL	1750' FWL - 890' FSL SECTION 21-17S-30E	2100' FSL - 990' FWL SECTION 22-175-30E
OPERATOR	MARBOB ENERGY CORPORATION	MANBOB ENERGY CORPORVEION	PREMIER OIL & GAS, INC.	MARBOB ENERGY CORPORATION	MARBOB ENERGY CORPORATION	PREMIER OIL & GAS, INC.	MACK ENERGY CORPORATION	MACK ENERGY CORPORATION	MACK ENERGY CORPORATION	MACK ENERGY CORPORATION	SINCLAIR OIL & GAS CO.	ENRON	CHAMBBERS & RENNEDY	MACK ENERGY CORPORATION	PREMIER OIL & GAS
WELL NAME	EL FEDERAL#+	E L PEDERAL #5	PARKE A PEDERAL #12	E L PEDERAL #6	EL PEDERAL #7	PARKE A FEDERAL #16	PEDERAL X #5	FEDERAL X #3	WOOLLEY FEDERAL #5	BRGLAM B #4	W.D. MCINTYIAE "D" # 10	BOGART PED COM # 1	SINCLAIR FEDERAL #2	WOOLLEY #2	DALEHPARRE "A" #10 formerly SINCLARR FEDIERAL #1

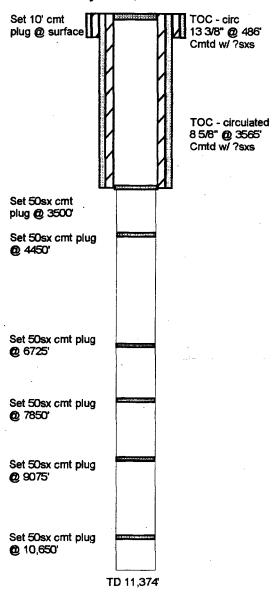
Premier Oil & Gas Dale H. Parke "A" 10 2100' FSL 900'FWL Sec22 - 17S - 30E Eddy Co., NM



Enron Bogart Fed. Com. 1 2030'FNL 1830'FWL Sec18 - 17S - 30E Eddy Co., NM



Mack Energy Woolley Federal 2 1750' FWL 890'FSL Sec21 - 17S - 30E Eddy Co., NM



Förm 3160-3 (December 1990)

CONDITIONS OF APPROVAL, IF ANY:

	_ / <b>/ /</b> /
Form approved. Budget Bureau No. 1004-	(\v)
Budget Bureau No. 1004-	0 <i>1</i> 29 ,
Expires: December 31, 19	991

	DEPARTME	INT OF THE	NTEF	RIOR		5. LEASE DESIGNATION	ON AND SERIAL NO.
	BUREAU (	OF LAND MANA	GEME	T		LC-029	9342-A
APPLICA	TION FOR	PERMIT TO	DRILI	OR DEEPEN		6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK			107			7. UNIT AGREEMENT	NAME
b. TYPE OF WELL		DEEPEN	$\boxtimes$				
OIL Gas Well 2. NAME OF OPERATOR	OTHER			NGLE MULT ONE ZONE	TPLE	I. FARM OR LEASE NAME, Woolley F	1138
Mack Energy Corpora	tion	13.	۶3.	7		9. API WELL NO.	3.(2.11.)
3. ADDRESS AND TELEPHONE NO.		_		_		30-015-	04240
P.O. Box 960, Artesia,		<del></del>	<del></del>	<del></del>		10. FIELD AND POOL  Loco Hills	•
4. LOCATION OF WELL (Re	port location clear		_	state requirement.*)	•	11. SEC., T., R., M., O	
At proposed prod. zone  890 FSL 1750 FWL  890 FSL 1750 FWL						AND SURVEY OR Sec 21 T1	AREA
14. DISTANCE IN MILES AND DI						12. COUNTY OR PAR	
		South of Loco Hi	<del>,</del>			Eddy	NM
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, (Also to nearest drig, us	FT.	330	16. NO.	OF ACRES IN LEASE		F ACRES IN LEASE HIS WELL	40
18. DISTANCE FROM PROPOSED TO NEAREST WELL, DRILLI OR APPLIED FOR, ON THIS LE	LOCATION* NG, COMPLETED	660	19, PR	5200 5500	20. ROTA	RY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show wheth 363	er DF, RT, GR, etc.) 3 GR					22. APPROX. DATE WO 5/3	rk will start* 1/98
23. SECOND 8	ompaile	D words de	MG NI	CEMENTING PROGR	AM R	2- Entry	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	тоот	SETTING DEPTH		QUANTITY OF CE	MENT
17 1/2	K-55,13 3/8	48		486'		Cire	In Place
12 1/4	K-55, 8 5/8	24-32		<del> </del>		Cire-	In Flace
7 7/8	J-55,5 1/2	17		5500'	1.	Suff to Cit	rc
	•	_		t to test the Paddoc			
productive, 5 1/2" casin		_			_		
with federal regulation.		ams as per Onsho PROVAL SUB			re outlined	l in the following	
Drilling Program		NERAL REQU				3131-	-123456
	SE	ECIAL STIPUL				/ <sub>0</sub> 000	<b>A</b>
Surface Use & Operat	ing Pian	TACHED		Exhibit #4 - One- N	Mile Radius	s Map $\begin{pmatrix} C \\ C \end{pmatrix}$	T 1883
Exhibit #1 & 1A - Blov	wout Preventer	Equipment		Exhibit #5 - Produ	ction Facili	ities Layout R	CEIVED
Exhibit #2 - Location	and Elevation I	Plat		Exhibit #6 - Locati	on Layout		123456700101123 1893 ECEIVED - ARTESIA
Exhibit #3 - Planned A	Access Road			Exhibit #7 - H2S D	rilling Ope	erations Plan	059131713183
IN ABOVE SPACE DESCRIBE PE deepen directionally, give pertinent						ed new productive zone.	
24.	! ) /	1			<del></del>		` .
SIGNED	a -D. (	alle m	LE	Production C	lerk	DATE	4/7/98
(This space for Federal o	r State office use)		.::-				
				· · · · · · · · · · · · · · · · · · ·			

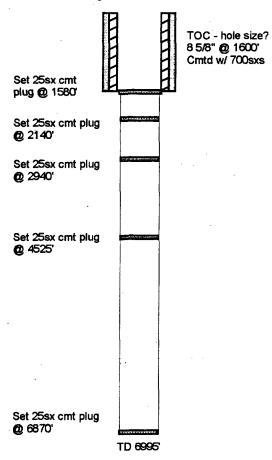
Assistant Field Office Manager, Lands and Minerals

\*See Instructions On Reverse Side

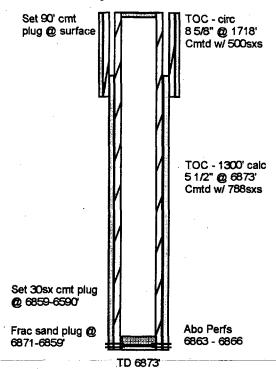
Acting

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Sinclair Oil & Gas McIntyre D 10 1980' FEL 1650'FSL Sec21 - 17S - 30E Eddy Co., NM



Chambers & Kennedy Sinclair Federal 2 2100' FEL 2230'FSL Sec21 - 17S - 30E Eddy Co., NM





Atlantic Richfield Company Post Office Box 1610 Midland, Texas 79702

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

#### Gentlemen:

Enclosed, for your review, is a copy of Marbob Energy Corporation's Application for converting the E L Federal No. 8 well into a produced water disposal well.

As a requirement of the New Mexico Oil Conservation Division, we are required to notify any offset operators, as well as surface and mineral owners, of our proposal to convert the before mentioned well into a disposal well. If you have any objections, you must notify the Oil Conservation Division of Santa Fe in writing within fifteen (15) days of this letter. If you have no objections to the proposed disposal well, please sign below and return a copy to our offices.

Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,

Dean Chumbley

Land Department

Atlantic Richfield Company has no objection to the proposed disposal well.

By:
Title:
Date:



energy corporation

January 21, 1999

Pendragon Energy Partners, Inc. 621 Seventeenth Street, #750 Denver, Colorado 80293

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,

Dean Chumbley Land Department

Pendragon Energy Partners has no objection to the proposed disposal well.

Ву:			_
Γitle: _			
Date:			



Mack Energy Corporation Post Office Box 960 Artesia, New Mexico 88211-0960

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,

Dean Chumbiey Land Department

Mack Energy Corporation has no objection to the proposed disposal well.

By:
Title:
Date:



energy corporation

January 21, 1999

Southwest Royalties, Inc. 407 North Big Spring, Suite 300 Midland, Texas 79701

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Sincerely,

Dean Chumpley
Land Department

Southwest Royalties, Inc. has no objection to the proposed disposal well.

Ву:		
Title:		
Date:		



Nadel and Gussman Permian, LLC 601 North Marienfeld, Suite 508 Midland, Texas 79701

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely

Dean Chumbley Land Department

Nadel & Gussman Permian LLC has no objection to the proposed disposal well.

By:

Title: \_\_\_\_\_\_
Date:



William and Son Cattle Company Post Office Box 30 Maljamar, New Mexico 88264

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Dean Chumbley

Land Department

Williams & Son Cattle Co. has no objection to the proposed disposal well.

Ву:			 
Γitle: _			
Date:	•	 	 



Bureau of Land Management 2209 West Second Street Roswell, New Mexico 88201

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,

Dean Chumbley Land Department

Bureau of Land Management has no objection to the proposed disposal well.

Ву:	
Title:	
Date:	



Anadarko Petroleum Corporation Post Office Box 2497 Midland, Texas 79702

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Singerely,

Dean Chumbley Land Department

Anadarko Petroleum has no objection to the proposed disposal well.

Ву:	
Title:	
Date:	



Phillips Petroleum Company 4001 Penbrook Odessa, Texas 79762

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Sincerely,

Dean Chumbley
Land Department

Phillips Petroleum has no objection to the proposed disposal well.

Ву:			 
Title:			
Date:			



energy corporation

January 21, 1999

Chambers & Kennedy 607 Midland National Bank Bldg. Midland, Texas 79702

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,

Dean Chumbley Land Department

Chambers & Kennedy has no objection to the proposed disposal well.

Зу:			
Γitle:			
Date: -	,		



energy corporation-

January 21, 1999

Eastland Oil Company Post Office Drawer 3488 Midland, Texas 79702

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Thank you for your cooperation in this matter. Do not hesitate to contact us should you have any questions concerning this matter.

Sincerely,

Dean Chumbley Land Department

Eastland Oil Co. has no objection to the proposed disposal well.

By:

Title:

Date:



energy corporation-

January 21, 1999

M.A. Woolley Post Office Box 398 Loco Hills, New Mexico 88255

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Sincerely,

Dean Chumbley Land Department

M.A. Woolley has no objection to the proposed disposal well.

By:

Title:

Date:



Enron Oil and Gas Company Post Office Box 2267 Midland, Texas 79702

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Sincerely,

Dean Chumbley
Land Department

Enron Oil & Gas has no objection to the proposed disposal well.

By:			
Title:		 	
Date:	•		



Shahara Oil, LLC 207 West McKay Carlsbad, New Mexico 88220

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Sincerely,

Dean Chumbley Land Department

Shahara Oil LLC has no objection to the proposed disposal well.

Ву:	
Title:	
Date:	



Premier Oil and Gas Post Office Box 1246 Artesia, New Mexico 88211

RE: Conversion to Disposal Well - E L Federal No. 8 380' FSL and 990' FEL, Section 21-17S-30E Eddy County, New Mexico

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Sincerely,

Dean Chumbley Land Department

Premier Oil and Gas has no objection to the proposed disposal well.

Ву:			
Γitle: _			
Date:			