

Tenneco Oil
A Tenneco Company

432
Suite 1200
Lincoln Tower Building
Denver, Colorado 80203
(303) 292-9920



January 7, 1976

✓ Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

New Mexico Oil Conservation Commission
Hobbs District Office
P. O. Box 1980
Hobbs, New Mexico 88240

RE: Request for Administrative Approval to
Convert Well Nos. 1, 3 and 4 to Injection
Lusk Seven Rivers Unit
Section 3, T19S, R32E
Lea County, New Mexico

Gentlemen:

Tenneco Oil Company, as operator of the Lusk Seven Rivers Unit waterflood project which was created by Commission Order No. R-4222, respectfully requests administrative approval to convert the Lusk Seven Rivers Unit Well Nos. 1, 3 and 4 from producing oil wells to injectors. It is believed that injection into these wells will allow more efficient flooding of the reservoir to occur.

Anticipated initial injection into the Seven Rivers pay zone of Well Nos. 1, 3 and 4 will be at a combined rate of 125 BWPD. Injected water will be a combination of produced water and makeup water purchased from the City of Carlsbad.

Furthermore, the Lusk Seven Rivers Unit Well No. 7 will be drilled at a location in the SW/4 NW/4 of Section 3 and completed as a producer. This well will exploit a portion of the reservoir which would not have been swept with water and, in combination with the conversion of Well Nos. 1, 3 and 4, will significantly increase the Unit's reserves.

Pursuant to the rules and regulations of the State of New Mexico, a plat is enclosed with this Application which indicates lease ownership and all other wells within a radius of two (2) miles of the Lusk Seven Rivers Unit's boundaries, and the locations of Well Nos. 1, 3, 4 and 7. Also enclosed is a diagrammatic sketch of Well Nos. 1, 3 and 4 and a portion of the well log over the Seven Rivers interval from each well.

All operators offsetting the proposed injection wells are being furnished with a copy of this Application.

Yours very truly,

TENNECO OIL COMPANY

A handwritten signature in cursive script, appearing to read "D. D. Myers".

D. D. Myers
Division Production Manager

SJR/vmm
attachments
cc: J. L. McClellan

LUSK SEVEN RIVERS UNIT NO. 1
 (Previously Shell Federal No.1)
 1980' FSL and 1980' FWL, Section 3, T19S, R32E
 Lea County, New Mexico

8 5/8" O.D., 20 LB./FT. CSG.
 Set @ 1324' w/350 sx. in an 11" hole.
 (Top of cmt. @ surf. by circ.)

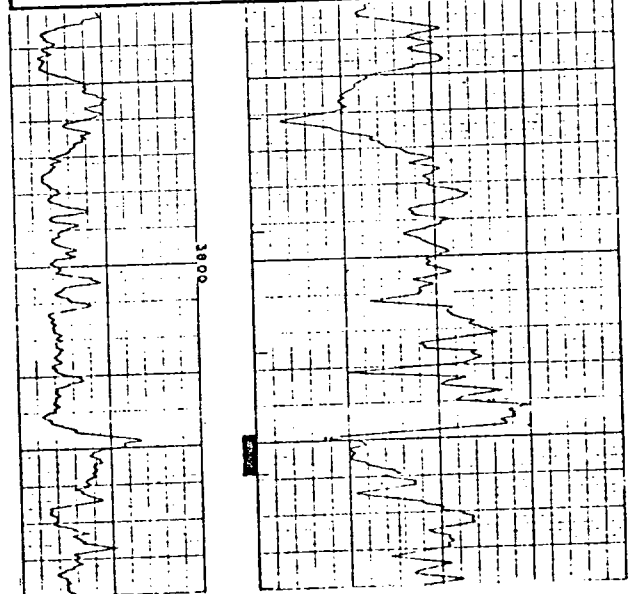
2 3/8" O.D., 4.7 LB./FT. TBG.

2 API 10 API/CD RADIATION INTENSITY INCREASES		400 API 80 API/CD RADIATION INTENSITY INCREASES	
GAMMA RAY API UNITS		DEPTH	NEUTRON API UNITS
Company CACTUS DRILLING COMPANY		Drillers T.D. 4203'	
Well SHELL FEDERAL NO. 1		Lone-Wells F.R. 4203'	
Field WILDCAT		Lone-Wells T.D. 4204'	
County LEA		Elevations:	
State NEW MEXICO		K.B. D.F. 3682' G.L. 3677.7	

Proposed top of packer @ 3698'
 (Baker Model AD Tension)

Perf. 3848-58 w/2 s.p.f.

P.B.T.D. 3920'
 7" O.D., 23 LB./FT. CSG.
 Set @ 399' w/125 sx. in an 8" hole.



LUSK SEVEN RIVERS UNIT NO. 3
 (Previously Shell Federal No. 3)
 660' FNL and 660' FWL, Section 3, T19S, R32E
 Lea County, New Mexico

7 5/8" O.D., CSG. Set @ 311'

2 3/8" O.D., 4.7 LB./FT. TBG.

HOSE SIZE - INCHES 10 API/CD 100 API RADIATION INTENSITY INCREASES		DENSITY IN GM/CM ³ 1690 CPH/CD 50,700 CPH 16,900 CPH	
GAMMA RAY & CALIPER		DEPTH	DENSITY
Company	CACTUS DRILLING CO-PANY	Drillers T.D.	3905'
Well	SHELL FEDERAL NO. 3	Lane-Well's F.R.	3901'
Field	WILDCAT (QUEEN)	Lane-Well's T.D.	3903'
County	LEA	Elevations:	
State	NEW MEXICO	K.B. 3693' D.F. 3632' G.L. 3682'	

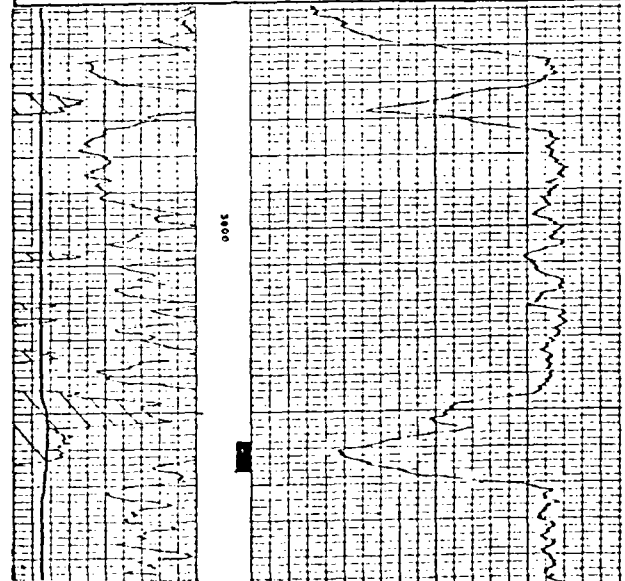
Proposed top of packer @ 3708'.
 (Baker Model AD Tension)

Perf. 3858-66 w/2 s.p.f.

P.B.T.D. 3883'

4 1/2" O.D., 10.5 LB./FT. CSG.

Set @ 3905' w/175 sw. in a 6 3/4" hole.



LUSK SEVEN RIVERS UNIT WELL NO. 4
 (Previously Shell Federal "A" No. 3)
 660' FWL and 1980' FSL, Section 3, T19S, R32E
 Lea County, New Mexico

8 5/8" O.D., 24 LB./FT. CSG.
 Set @ 335' w/125 sx. in an 11" hole.
 (Top of cmt. @ surf. by circ.)

2 3/8" O.D., 4.7 LB./FT. TBG.

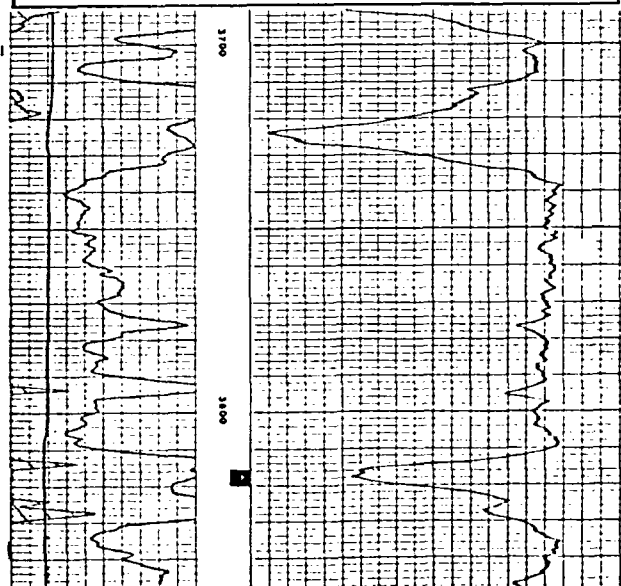
7 9 11 13 15 HOLE SIZE - INCHES 0 API 10 API/CO 100 API RADIATION INTENSITY INCREASES		2.55 2.56 2.57 2.58 2.59 2.60 2.61 2.62 2.63 DENSITY IN GM/CM ³ 46,140 CPM 1538 CPM/CO 15,380 CPM	
GAMMA RAY & CALIPER		DEPTH	DENSITY
Company	CACTUS DRILLING COMPANY	Drillers T.D.	3860'
Well	SHELL "A" FEDERAL NO. 3	Lane-Wells F.R.	3849'
Field	WILDCAT (QUEEN)	Lane-Wells T.D.	3851'
County	LEA	Elevations:	
State	NEW MEXICO	K.B. 3674' D.F. 3673' G.L. 3662.5'	

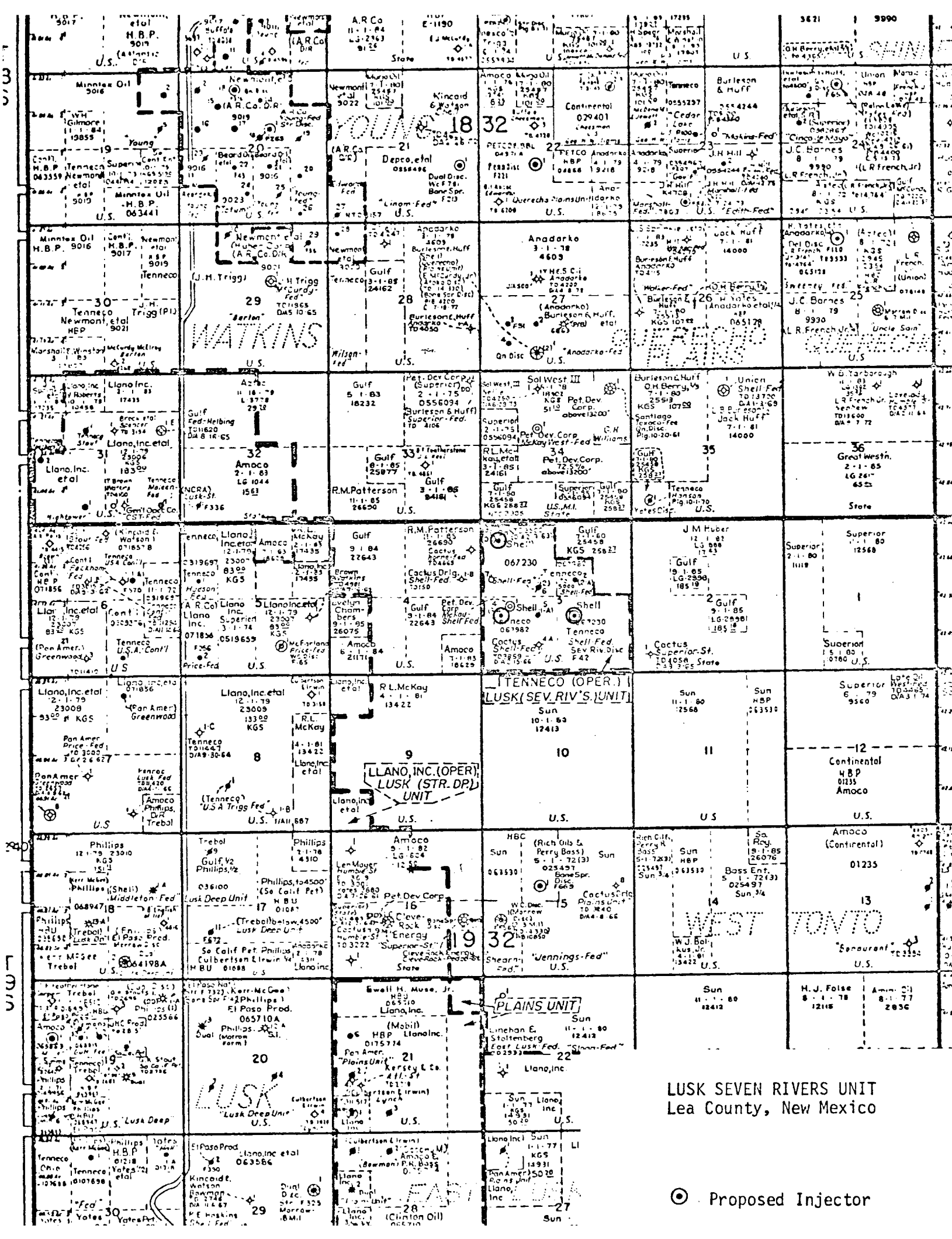
Proposed top of packer @ 3666'
 (Baker Model AD Tension)

Perf. 3816-20 w/4 s.p.f.

P.B.T.D. 3847'

4 1/2" O.D., 10.5 LB./FT. CSG.
 Set @ 3860' w/200 sx. in a 7 7/8" hole.





OFFSET OPERATORS
LUSK SEVEN RIVERS UNIT_WELL NOS. 1, 3 and 4

R: M. Patterson
P. O. Box 1300
Roswell, New Mexico

✓ Gulf Oil Corporation
P. O. Box 670
Hobbs, New Mexico 88240

✓ Amoco Production Company
Box 3092
Houston, Texas

Roy L. McKay
P. O. Box 2014
Roswell, New Mexico

✓ Sun Oil Company
P. O. Box 2880
Dallas, Texas

✓ Sol West III
9161 Oriole Way
LA, California

✓ Franklin, Aston & Fair Ltd.
Box 1090
Roswell, New Mexico

The Superior Oil Company
P. O. 1861
Midland, TX 79701

✓ J. M. Huber Corporation
1900 Wilco Building
Midland, Texas

Gulf Energy and Minerals Company - U.S.

PRODUCTION DEPARTMENT
MIDLAND DISTRICT

B. L. Choate
DISTRICT PRODUCTION MANAGER
R. F. Ward, Jr.
DISTRICT OPERATIONS MANAGER
C. E. Fields
DISTRICT SERVICES MANAGER
A. J. Evans, Jr.
DISTRICT ENVIRONMENTAL & SAFETY MANAGER
J. C. Howard
DISTRICT EMPLOYEE RELATIONS MANAGER

P. O. Drawer 1150
Midland, Texas 79701

January 16, 1976

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

This is to advise that Gulf Oil Corporation has been given due notice that Tenneco Oil Company has made application for permission to convert their Lusk Seven Rivers Unit Well Nos. 1, 3 and 4 to injection wells in the Seven Rivers Zone, Lea County, New Mexico.

We hereby waive any objection to the granting of this application for the below listed wells located in Section 3, T-19S, R-32E, Lea County, New Mexico.

Well No. 1 - 1980' FSL and 1980' FWL
Well No. 3 - 660' FNL and 660' FWL
Well No. 4 - 660' FWL and 1980' FSL

Executed this 16th day of January, 1976.

Yours very truly,

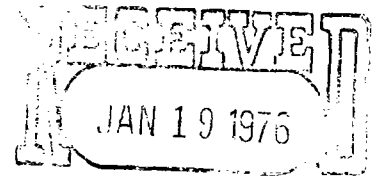
Gulf Oil Corporation

By


W. C. Palmer
District Engineer

CVB/cab





Amoco Production Company
OIL CONSERVATION COMM.
500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001
Santa Fe

January 15, 1976

File: DRC-986.51NM-121

Re: Injection Well Waiver
Lusk Seven Rivers Unit
Section 3, T19S, R32E
Lea County, New Mexico

Mr. Joe D. Ramey, Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, NM 87501

Dear Sir:

Tenneco Oil Company has requested administrative approval to convert to water injection the Lusk Seven Rivers Unit Wells Nos. 1, 3 and 4.

As an offset operator, Amoco Production Company has no objection to these requests and hereby waives notice and hearing.

Very truly yours,

T. DON STACY
Div. Engr. Mgr.

cc: Tenneco Oil Company
Suite 1200
Lincoln Tower Building
Denver, CO 80203

EHW:as

Tenneco Oil
A Tenneco Company

Suite 1200
Lincoln Tower Building
Denver, Colorado 80203
(303) 292-9920



January 7, 1976

TO ALL OFFSET OPERATORS

RE: Lusk Seven Rivers Unit
Section 3, T19S, R32E
Lea County, New Mexico

Gentlemen:

Tenneco Oil Company, as operator of the captioned Unit, has requested administrative approval to convert Lusk Seven Rivers Unit Well Nos. 1, 3 and 4 to injection. Pursuant to the rules and regulations of the State of New Mexico as an offset operator you are being furnished a copy of the Application made to the Oil Conservation Commission.

If there is no objection to the proposed conversions, please so indicate by signing below and returning to the following address:

Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Yours very truly,

TENNECO OIL COMPANY

A handwritten signature in cursive script, appearing to read "D. D. Myers".

D. D. Myers
Division Production Manager

SJR/vmm
attachments

COMPANY: J.M. HUBER CORPORATION

APPROVED BY:

A handwritten signature in cursive script, appearing to read "James R. Sutherland".
James R. Sutherland

TITLE: District Production Manager

DATE: January 13, 1976

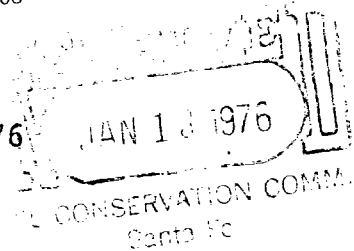
RECEIVED
JAN 12 1976
MIDLAND DISTRICT

Tenneco Oil
A Tenneco Company

Suite 1200
Lincoln Tower Building
Denver, Colorado 80203
(303) 292-9920



January 7, 1976



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Section 3, T19S, R32E
Lea County, New Mexico

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New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Yours very truly,

TENNECO OIL COMPANY

D. D. Myers
Division Production Manager

SJR/vmm
attachments

COMPANY: FRANKLIN, ASTON & FAIR, LTD.

APPROVED BY: Tom P. Stephens
General Partner

TITLE: _____

DATE: Jan. 12, 1976

Tenneco Oil
A Tenneco Company

Suite 1200
Lincoln Tower Building
Denver, Colorado 80203
(303) 292-9920



January 7, 1976

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Section 3, T19S, R32E
Lea County, New Mexico

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New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Yours very truly,

TENNECO OIL COMPANY

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D. D. Myers
Division Production Manager

SJR/vmm
attachments

COMPANY: SUN OIL COMPANY

APPROVED BY: A handwritten signature in cursive script, appearing to read "H. R. Huey".
H. R. Huey

TITLE: Regional Manager Conservation

DATE: January 13, 1976

Tenneco Oil
A Tenneco Company

Suite 1200
Lincoln Tower Building
Denver, Colorado 80203
(303) 292-9920



January 7, 1976

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Section 3, T19S, R32E
Lea County, New Mexico

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New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

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TENNECO OIL COMPANY

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D. D. Myers
Division Production Manager

SJR/vmm
attachments

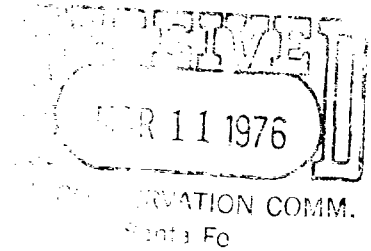
COMPANY: _____

APPROVED BY: Ed Winton

TITLE: _____

DATE: Jan 13, 76

OIL CONSERVATION COMMISSION
Hobbs DISTRICT



OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE January 14, 1976

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX X _____
Proposed PMX _____

Gentlemen:

I have examined the application dated _____
for the Tenneco Oil Co. Lusk Seven Rivers Unit #1-J, #3-D, & E4-L 3-19-32
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

Jerry Seyton