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Hobbs Division
North American Production

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May 26, 1978

Oil Conservation Division (3)
Department of Energy & Minerals
State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention Mr. J. D. Ramey, Director

Gentlemen:

Application for Expansion of the Mitchell Waterflood Project - Maljamar
Grayburg-San Andres Pool - Lea County, New Mexico

Authority is hereby requested under the provisions of Rule 701-E(4) to convert Grace Mitchell "B" Well No. 5, located 1,980' FNL and 660' FEL of Section 5, T-17-S, R-32-E, as an injection well in the Maljamar Grayburg-San Andres Waterflood Project. This project was authorized by Order No. R-4633.

The following exhibits are attached:

1. Plat showing proposed additional injection well and an area two miles in radius surrounding the well.
2. Tabulation of all wells within a half-mile radius of the proposed injection well showing the location, producing interval, total depth, casing sizes and depth, and cementing program.
3. Diagramatic sketch of the proposed injection well showing the manner in which it will be equipped for injection.
4. Copy of log of the proposed injection well.
5. Diagramatic sketch of Maljamar Grayburg Unit No. 16, a plugged well within one-half mile of the proposed well.
6. Diagramatic sketch of Maljamar Grayburg Unit No. 24, a plugged well within one-half mile of the proposed well.



Oil Conservation Division

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Page Two

Injection water and pressures are expected to be the same as applies to the original wells in this injection project.

Your administrative approval of this waterflood expansion will be sincerely appreciated.

Yours very truly,

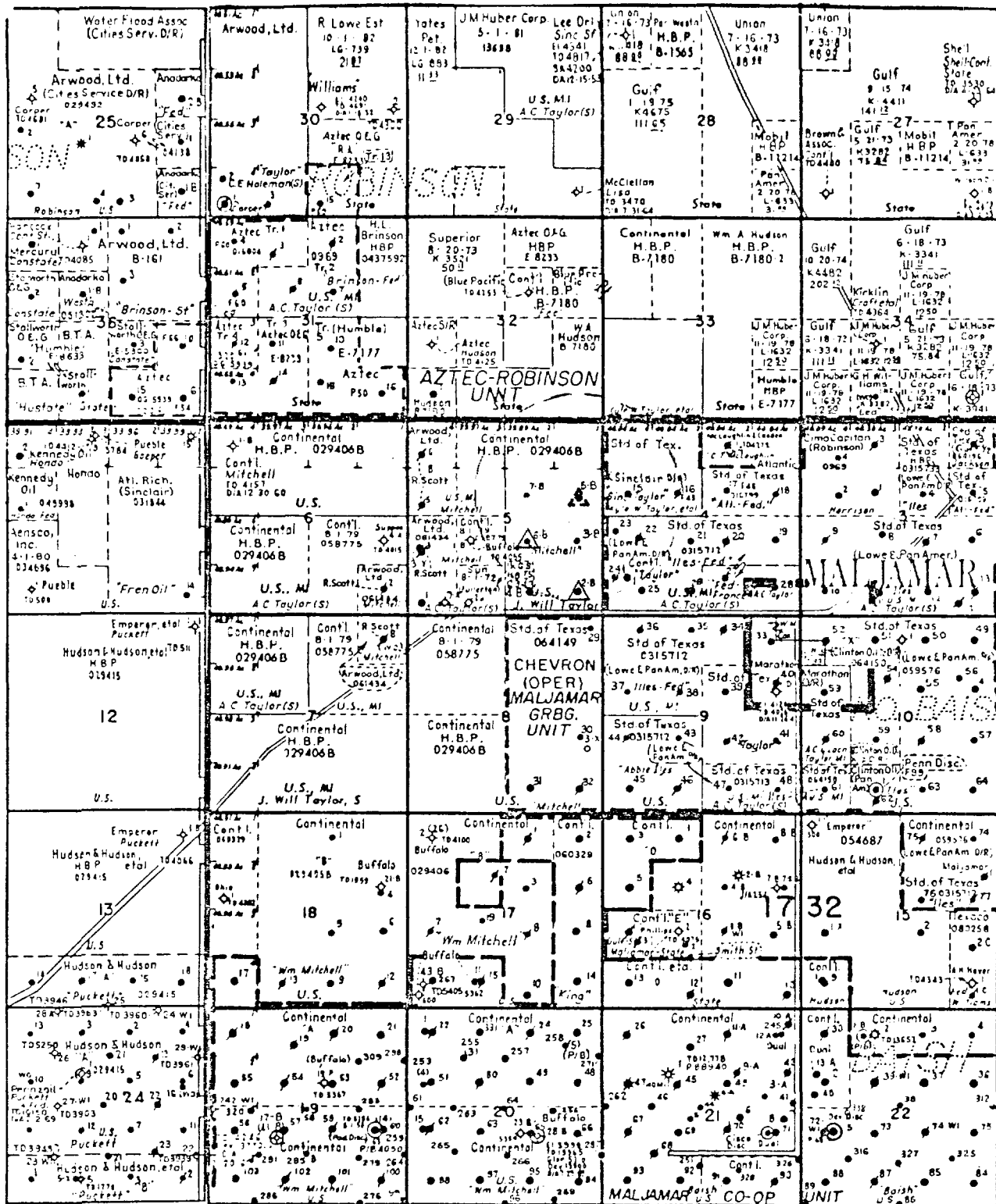
for E. L. Oshlo
Assistant Division Manager

VTL/jj

Enc

cc: Chevron Oil Company, Box 1660, Midland, Texas 79701
U.S. Geological Survey, Box 1157, Hobbs, New Mexico 88240
Jason W. Kellahin, Santa Fe

*7 pp: 2592
2.2
275.2
moving from*

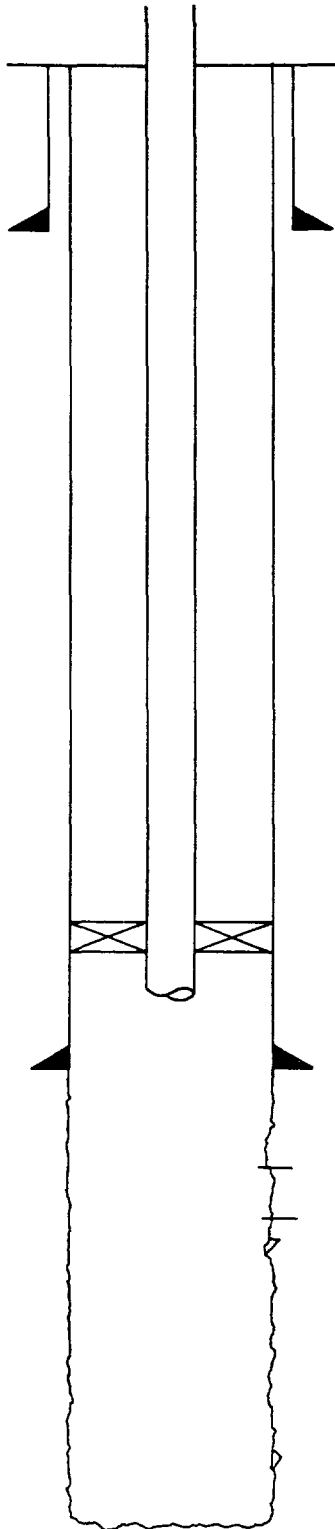


CONTINENTAL OIL COMPANY

GRACE MITCHELL "B" LEASE

OPERATOR, LEASE & WELL NO.	LOCATION	PRODUCING INTERVAL-FT.	T.D.-Ft. PBD	SIZE	DEPTH	CASING RECORD			STATUS
						NO.	SX.	TOP CMT.	
<u>Continental Oil Company</u>									
Grace Mitchell B No. 2	660' FSL & EL 5-17-32	4025-4110	5650 4110	8 5/8" 4 1/2"	883' 4025'	325 250	Surface 2100		Inj.
Grace Mitchell B No. 3	1980' FSL & 660' FEL 5-17-32	3855-4100	4100	7 5/8" 4 1/2"	981' 3855'	500 200	Surface 2500'		Prod.
Grace Mitchell B No. 4	660' FSL 1980' FEL 5-17-32	3820-4060	4060	7 5/8" 4 1/2"	939' 3820'	475 175	Surface 2000'		Prod.
Grace Mitchell B No. 6	1980' FS & EL 5-17-32	3927-4085	4085	7 5/8" 4 1/2"	950' 3927'	475 225	Surface 1900'		Inj.
Grace Mitchell B No. 7	1980' FN & EL 5-17-32	3897-4095	4095	7 5/8" 4 1/2	990' 3953'	475 225	Surface 2300'		Prod.
<u>Chevron Oil Company</u>									
Maljamar Grayburg Unit No. 15	1980' FNL 660' FWL 4-17-32	3881-4060	4174 4163	8 5/8" 5 1/2"	335' 4174'	200 300	Surface 3091'		Prod.
Maljamar Grayburg Unit #16	1980' FN & W 4-17-32	P&A	-	-(See sketch)					P&A
Maljamar Grayburg Unit #22	1980' FSL 990' FWL 4-17-32	3832-3880	4010	8 5/8" 5 1/2"	294 4010	200 400	Surface 1800'		Inj.
Maljamar Grayburg Unit #23	2310' FSL & 330' FWL 4-17-32	3848-3980	4118 4024	8 5/8" 5 1/2"	300 4024	200 350	Surface 1900'		T.A.
Maljamar Grayburg Unit #24	990' FSL 330' FWL 4-17-32	P&A		(See sketch)					P&A
Maljamar Grayburg Unit #25	660' FSL 990' FWL 4-17-32	3814-3890	4015	8 5/8" 5 1/2"	290 4015	200 400	Surface 1800'		Prod.
Maljamar Grayburg Unit #26	660' FSL 2310' FWL 4-17-32	3844-4000	4030	8 5/8" 5 1/2"	290 4030	200 400	Surface 1900'		Inj.
5-2-78 JS									

CONTINENTAL OIL COMPANY
GRACE MITCHELL B NO. 5
1980' FNL, 660' FEL,
SECTION 5, T17S, R32E
ELEV. 4131'
"O" - 11' AGL



7 5/8" AT 1007' W/475 SX. (CIRC)

2 3/8" P.L. TUBING AT 3830'

TOP OF CEMENT 2400'

BAKER AD-1 TENSION PACKER AT 3830'

4 1/2" 9.5# @ 3880' W/225 SX.

OH NOTCHED AT 3955' & 4085'

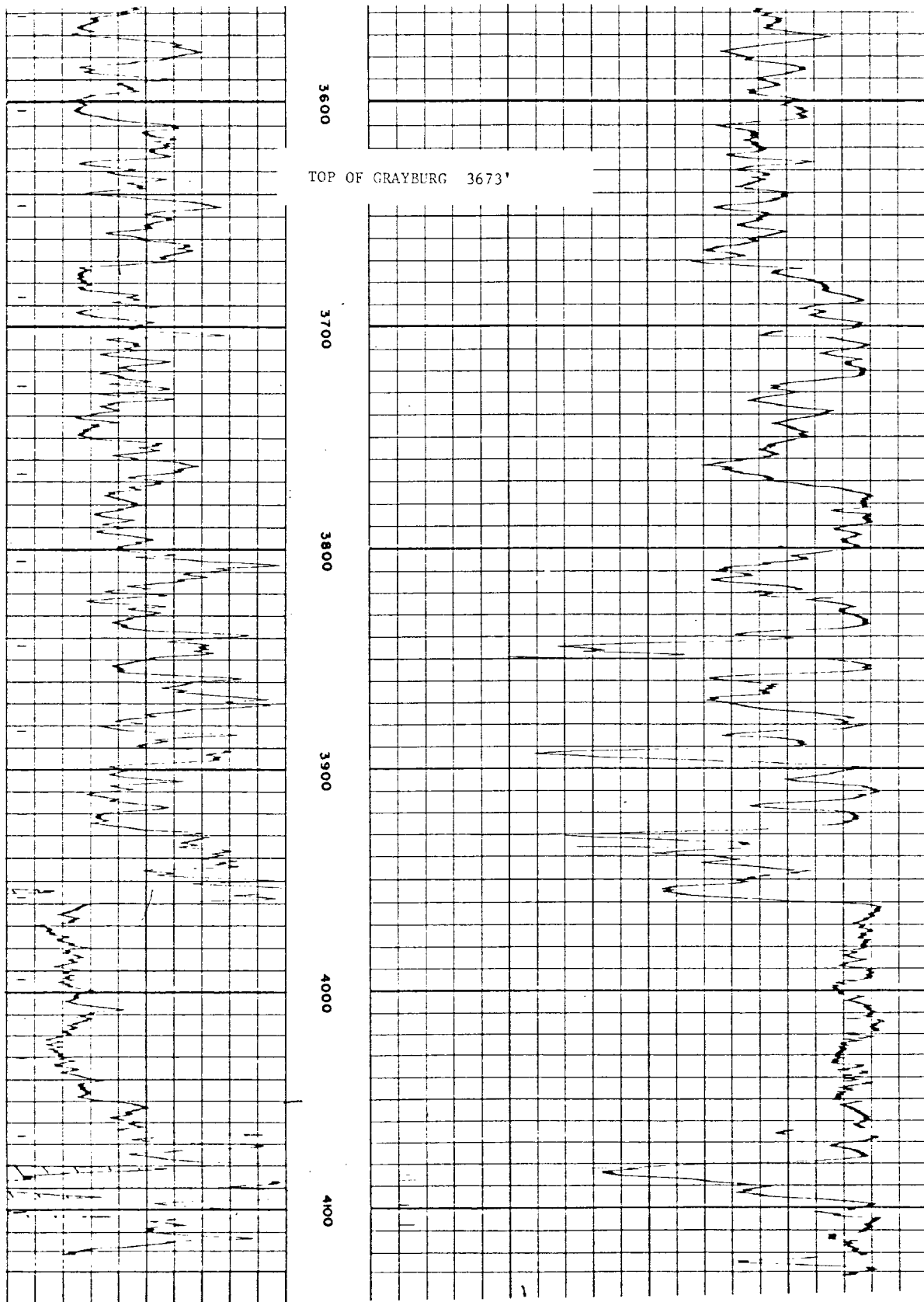
OH PERF'D AT 3893' AND 3931'

TREATED W/SAND-OIL FRAC.

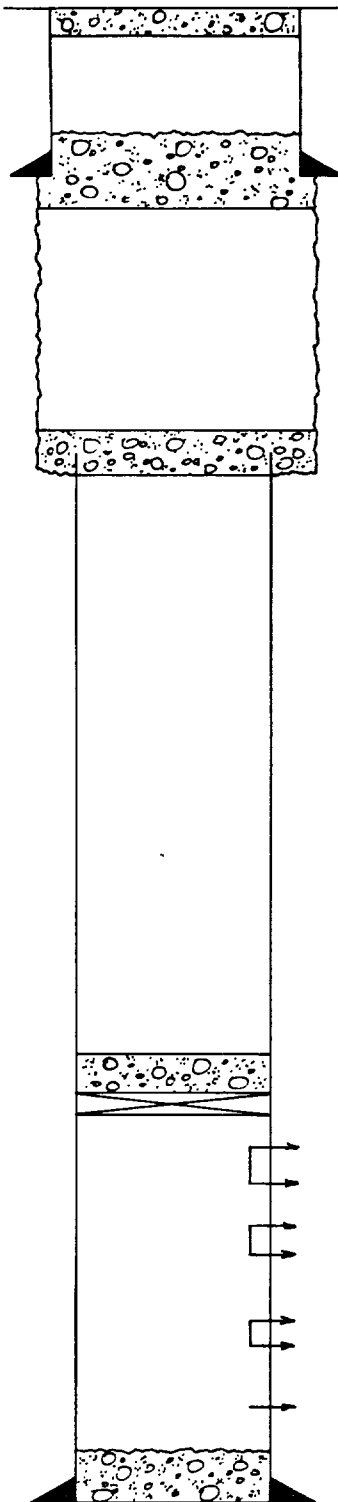
T.D. - 4132'

PROPOSED INJECTION WELL

CONTINENTAL OIL COMPANY
GRACE MITCHELL "B" NO. 5
1980' FNL & 660' FEL,
Section 5, T-17S, R-32E
Lea County, New Mexico
Elev. 4131 "0" - 11' AGL



CHEVRON OIL COMPANY
MALJAMAR GRAYBURG UNIT NO. 16
1980' FNL & FWL, SECTION 4
T-17S, R-32E, LEA COUNTY, N.M.
ELEV. 4164' G.L.



10SX SURFACE PLUG

8 5/8" @ 307 W/250 SX. (CIRC)
50 SX. @ 347'

50 SX AT 744'
SHOT 5 1/2" OFF AT 744'

CIBP AT 3801' w/35' CEMENT ON TOP

3878-3886'

3938-3940'

FRAC'D W/20,000 GALLONS REFINED OIL W/45,000# SAND
4034-4040'

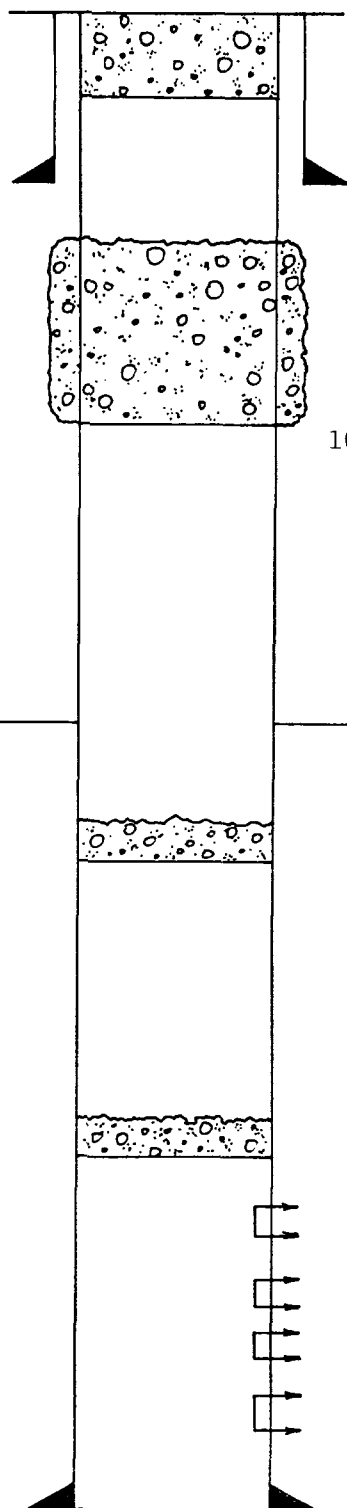
4169'

4176' - P.B.

5 1/2" AT 4193' W/300 SX.

4195' T.D.

10-74 PLUGGED AND ABANDONED



40 SX. @ 200'
TO SURFACE

8 5/8" @ 352' w/
150 SX, (CIRC)

TOP OF CEMENT @ 540'

130 SX

1000'

TOP OF CEMENT 2000' CALC.

30 SX CEMENT @ 2330-2586'

25 SX CEMENT @ 3500-3700'

3838'
3844'
3917'
3923'
3924'
3938'
3980'
3986'

SAND FRAC'D 25,000 GALLONS & 35,000# SAND

5 1/2" @ 4125' w/350 SX.
T.D. -4125'

10-76 PLUGGED AND ABANDONED

CHEVRON OIL COMPANY
MALJAMAR GRAYBURG UNIT NO. 24
990' FSL & 330' FWL
SECTION 4 T17S R32E
LEA COUNTY, NEW MEXICO
ELEV. 4107'

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE June 13, 1978

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

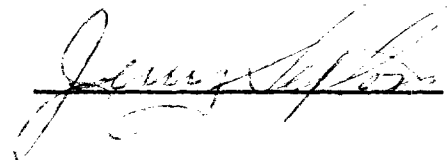
Gentlemen:

I have examined the application dated May 26, 1978
for the Continental Oil Co. Grace Mitchell "B" #5-H 5-17-32
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

OK -- J.S.

Yours very truly,



George H. Smith