

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Sun Oil Company

## 3. ADDRESS OF OPERATOR

2525 NW Expressway, Oklahoma City, OK 73112

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1000' FSL &amp; 1000' FEL (SE SE)

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

10.2 Miles North-Northeast of Farmington, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1000'

## 16. NO. OF ACRES IN LEASE

320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

2460+'

## 19. PROPOSED DEPTH

6,900'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6042' GR

## 22. APPROX. DATE WORK WILL START\*

July 30, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM \* 2nd Stage: 1200sx 50-50 Poz  
W/additives

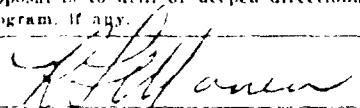
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8-5/8" New	24#K55 ST&C	350'	250 sx Class "A" W/additives
7-7/8"	4 1/2" New	9.5 #K-55 ST&C	6,900'	1st Stage: 425sx Light W/ additives + 100 sx Class "A" W/ additives *

- 1) Drill 12 1/4" hole and set 8-5/8" surface casing to 350' with good returns.
- 2) Log B.O.P. checks in daily drill reports and drill 7-7/8" hole to 6,900'.
- 3) Run tests if warranted and run 4 1/2" casing if productive.
- 4) Run logs, as needed, and perforate and stimulate as needed.

## EXHIBITS ATTACHED:

"A"	Location & Elevation Plat	"G"	Drill Pad Layout, Cut-Fill Cross-
"B"	The Ten-Point Compliance Program		Section & Production Facilities
"C"	The Blowout Preventer Diagram	"H"	Drill Rig Layout
"D"	The Multi-Point Requirements for A.P.D.	"K"	Fracturing Program Layout
"E"	Access Road Map to Location		
"F"	Radius Map of Field		

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug 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 preventer program, if any.

24.  District Drilling Engineer DATE June 11, 1979RIGNED  
(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL

"APPROVAL TO FLARE GRANTED  
WHILE DRILLING AND TESTING."

OPERATOR

This Approval Valid  
For One Year

RECEIVED

AUG 23 1979

\*See Instructions On Reverse Side

LWD-GEO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

USA - 407- N11047

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

New Mexico - Federal "N"

9. WELL NO.

6-E

10. FIELD AND POOL, OR WILDCAT

Basin-Dakota

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 6-T30N-R12W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)OIL ☐ GAS ☐ OTHER ☒

NAME OF OPERATOR

Sun Oil Company

ADDRESS OF OPERATOR

2525 Northwest Expressway, Oklahoma City, OK 73112

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)

At surface

850' FSL &amp; 1135' FEL

1. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6042' GR

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON\* ☐REPAIR WELL ☐CHANGE PLANS ☐

(Other)

Revise Application to Drill ☒

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT\* ☐

(Other)

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.) \*

Based on requirements to protect a fresh water aquifer (OJO Alamo) at a depth of approximately 780', we propose to increase the amount of cement used on the upper stage cement job from 1200 sxs 50-50 Pozmix plus additives to 1300 sxs. This will bring the calculated top of cement on the 4-1/2" production string to 650'. A temperature survey will be run to confirm the top of cement.

Attached per your request is 4-1/2" casing design data sheet for the subject well. For wells in this depth and pressure range, Sun Oil Company utilizes minimum design factors of 1.6 for tension, 1.0 for burst and .85 for collapse in the portion of the casing covered by cement for a distance of 1000' above the casing shoe. Above that point a 1.0 collapse design factor is utilized. Also note collapse calculations are performed assuming no internal hydrostatic pressure.

I hereby certify that the foregoing is true and correct

SIGNED

R. L. Maness

TITLE

Dist. Drilling Engineer

DATE

August 13, 1979

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

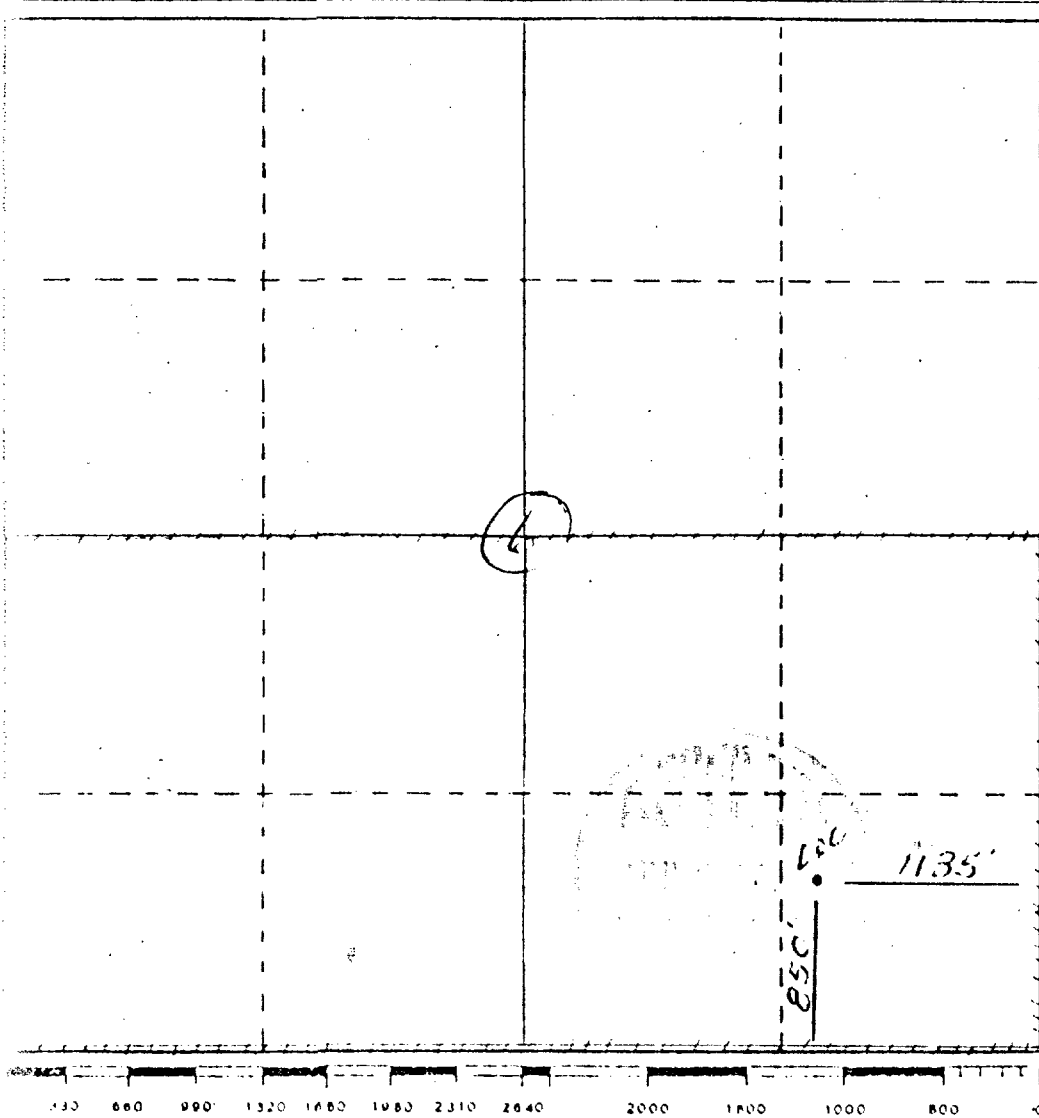
Operator <i>San Oil Company</i>			Lease <i>New Mexico Federal "N"</i>		Well No. <i>6 E</i>
Lot Letter <i>P</i>	Section <i>6</i>	Township <i>30 N</i>	Range <i>12 W</i>	County <i>San Juan</i>	
Well Footage Location of Well: <i>850</i> feet from the <i>South</i> line and <i>1135</i> feet from the <i>East</i> line					
Land Level Elev. <i>6038</i>	Producing Formation <i>Basin-Dakota</i>		Pool <i>Basin-Dakota</i>	Dedicated Acreage: <i>320</i> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*George Lapaseotes*  
Name *George Lapaseotes*

Position  
*Vice-President*

Company  
*Powers Elevation*

Date  
*July 20, 1979*

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Signed  
*July 20, 1979*  
*George Lapaseotes*  
Registered Professional Engineer  
and/or Land Surveyor

*6857*  
Certificate No.