

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
USA - 407 NM - 047

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.
#7 6-f

10. FIELD AND POOL, OR WILDCAT
Basin - Dakota

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 6 -T 30N-R.12W

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico

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 & 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

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2460+'

19. PROPOSED DEPTH
6,900'

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-Section & Production Facilities |
| "B" The Ten-Point Compliance Program | "H" Drill Rig Layout |
| "C" The Blowout Preventer Diagram | "K" Fracturing Program Layout |
| "D" The Multi-Point Requirements for A.P.D. | |
| "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. SIGNED: *[Signature]* TITLE: District Drilling Engineer DATE: June 11, 1979

PERMIT NO. _____ APPROVAL DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

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

10-ND-GED

**UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

USA - 407-111047

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

OIL WELL GAS WELL 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 & 1135' FEL

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:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) _____

(Other) _____

Revise Application to Drill X

(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 pertinent 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.

John Willock

I hereby certify that the foregoing is true and correct

SIGNED

R.L. Maness
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.

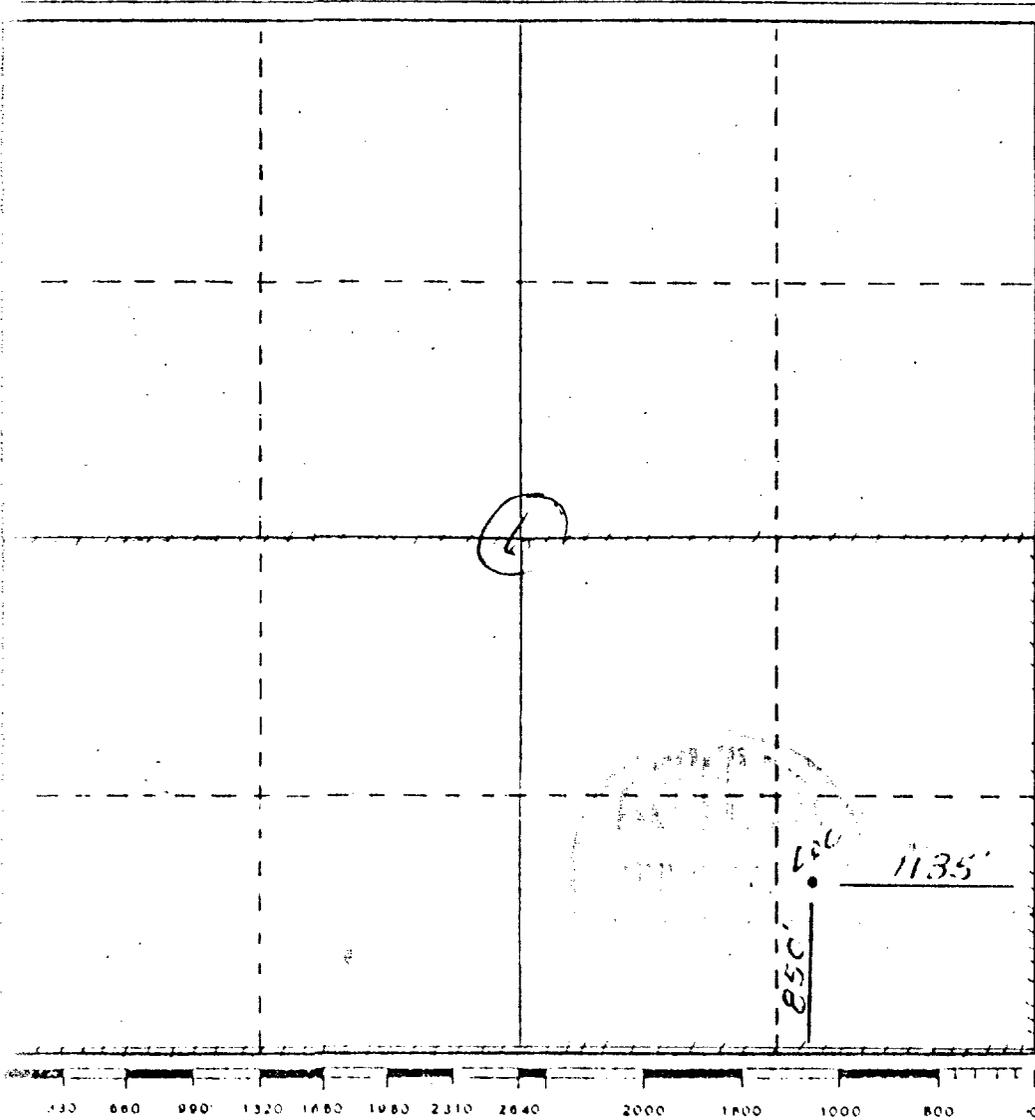
Operator <i>Sun Oil Company</i>			Lease <i>New Mexico Federal "N"</i>		Well No. <i>6 E</i>
Section Letter <i>P</i>	Section <i>6</i>	Township <i>30 N</i>	Range <i>12 W</i>	County <i>San Juan</i>	
Well Footage Location of Well: <i>850</i> feet from the <i>South</i> line and <i>1135</i> feet from the <i>East</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 hachure 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.

7-1-79
Date Signed

George Lapaseotes
Registered Professional Engineer
and/or Land Surveyor

6857
Certificate No.