

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | | | |
|--|--|---|--|
| 1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. SF 078766 | |
| b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME Rosa Unit | |
| 2. NAME OF OPERATOR Northwest Pipeline Corporation | | 7. UNIT AGREEMENT NAME Rosa Unit | |
| 3. ADDRESS OF OPERATOR P.O. Box 90, Farmington, N.M. 87499 | | 8. FARM OR LEASE NAME Rosa Unit | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1560 FWL & 1120 FSL SE/SW At proposed prod. zone 1560 FWL & 1120 FSL | | 9. WELL NO. #59 | |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 22 Miles East of Navajo Dam Post Office | | 10. FIELD AND POOL, OR WILDCAT Blanco MV/Basin DK & Undes | |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 1120 | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA W Sec 25, T31N, R6W | |
| 16. NO. OF ACRES IN LEASE N/A | | 12. COUNTY OR PARISH Rio Arriba | |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL W 320/ W 320/160 | | 13. STATE N.M. | |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2500 ± | | 19. PROPOSED DEPTH 8020' | |
| 20. ROTARY OR CABLE TOOLS Rotary | | 21. APPROX. DATE WORK WILL START* July 1983 | |
| 22. ELEVATIONS (Show whether DF, RT, GR, etc.) 6400' GR | | 23. APPROX. DATE WORK WILL START* July 1983 | |

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 13-1/2" | 10-3/4" | 40.5# | 350' | 255 cu.ft |
| 9-7/8" | 7-7/8" | 24# | 3710' | 475 cu.ft |
| 6-3/4" | 5-1/2" | 15.5# & 17# | 8020' | 550 cu.ft |

Selectively perforate and stimulate the Mesa Verde, Gallup and Dakota Formations. Completion plans will be determined at Total Depth.

A BOP will be installed after the surface casing is set and cemented. All subsequence work will be conducted through the BOP's.

The West half of Section 25 is dedicated to all formations.

Gas is dedicated.

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 Paul C. Thompson TITLE Sr. Drilling Engineer DATE 5-12-83
Paul C. Thompson
(This space for Federal or State office use)

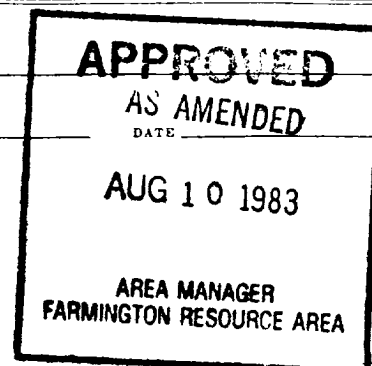
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY: _____

PCT:djb

*See Instructions On Reverse Side

RMCCC



OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-78

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

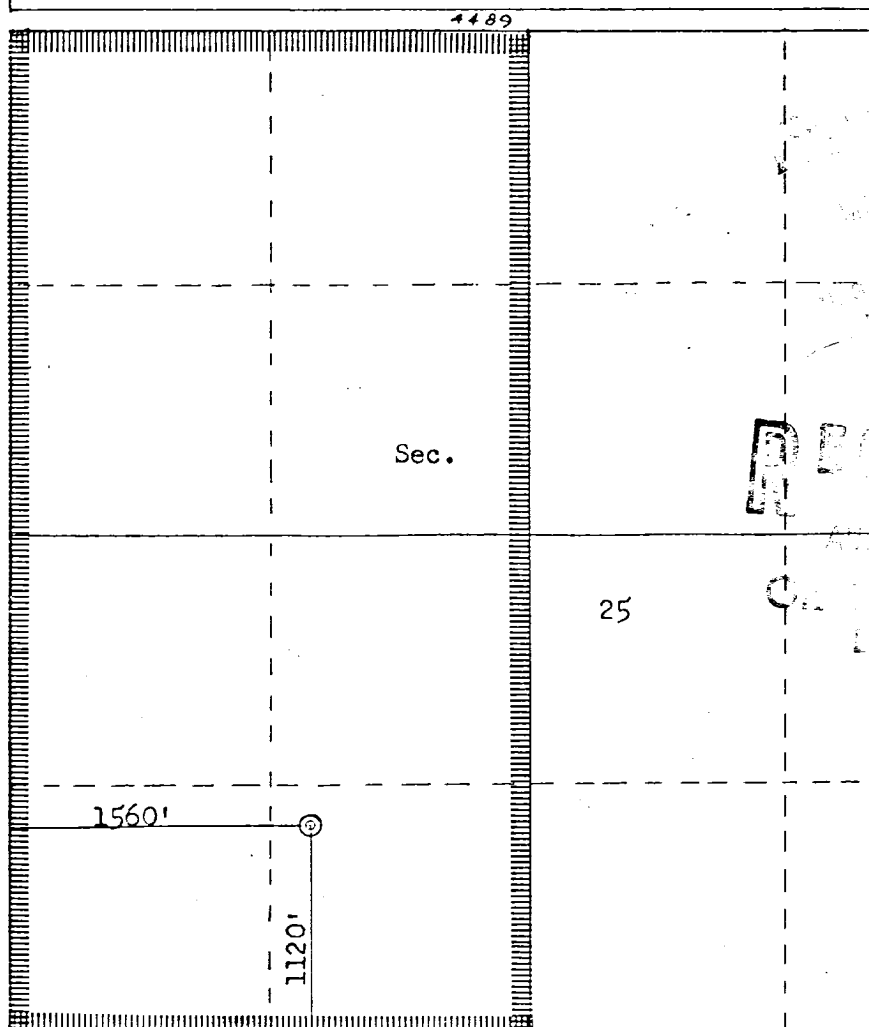
| | | | | | |
|--|--|---|---------------------------|---|-----------------------|
| Operator NORTHWEST PIPELINE CORPORATION | | | Lease ROSA UNIT | | Well No. 59 |
| Unit Letter N | Section 25 | Township 31^N | Range 6W | County Rio Arriba | |
| Actual Footage Location of Well: 1120 feet from the South line and 1560 feet from the West line | | | | | |
| Ground Level Elev. 6400 | Producing Formation MV/ Gallup/ Dakota | Pool Blanco Mesa Verde/Undesignated Gallup/Basin Dakota | | Dedicated Acreage: 320/160⁰⁰ 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 Unitization

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.



Scale: 1"=1000'

CERTIFICATION

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

Paul C. Thompson

Name

Paul C. Thompson

Position

Sr. Drilling Engineer

Company

Northwest Pipeline Corp

Date

May 11, 1983

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 Surveyed

May 9, 1983

Registered Professional Engineer and Land Surveyor

Fred E. Kerr Jr.

Certificate No.

3950

