

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

Southern Union Exploration

3. ADDRESS OF OPERATOR

P.O. Box 2179 Farmington, New Mexico

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

At surface 1815' FWL & 1680' FSL. Sec. 2 T29N-R15W

At proposed prod. zone Same

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

7 miles West of Farmington, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

300

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

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

4600

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

5252' GL

DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE WITH ATTACHED

"GENERAL REQUIREMENTS AND CEMENTING PROGRAM"

23.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12 1/4"	8 5/8" J-55 New	23.0	250
7 7/8"	4 1/2" J55 New	10.5	4600

250 cu/ft Class B w/2% cal chloride
375.65/35 poz, 400 cu/ft 50/50 poz

1. Drill 12 1/4" hole and set 8 5/8" csg to 250 feet w/good returns.
2. Log BOP checks in daily drilling reports and drill 7 7/8" hole to 4600'.
3. Run tests if warranted and run 4 1/2" csg if productive.
4. Run logs as needed and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- A. Location and elevation plat.
- B. Access, roadmap to location and radius map of field.
- C. The blowout preventor diagram.
- D. Multi-point requirements for APD.
- E. Ten point compliance program.
- F. Production facilities layout.
- G. Drill pad layout, cut fill and cross section.
- H. Drill rig layout.

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.

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SIGNED

TITLE Drlg. & Prod. Supervisor

DATE 3-3-83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED
AS AMENDED

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APR 20 1983
For JAMES F. SIMS
DISTRICT ENGINEER
Acting Area Manager

NMCC

All distances must be from the outer boundaries of the Section

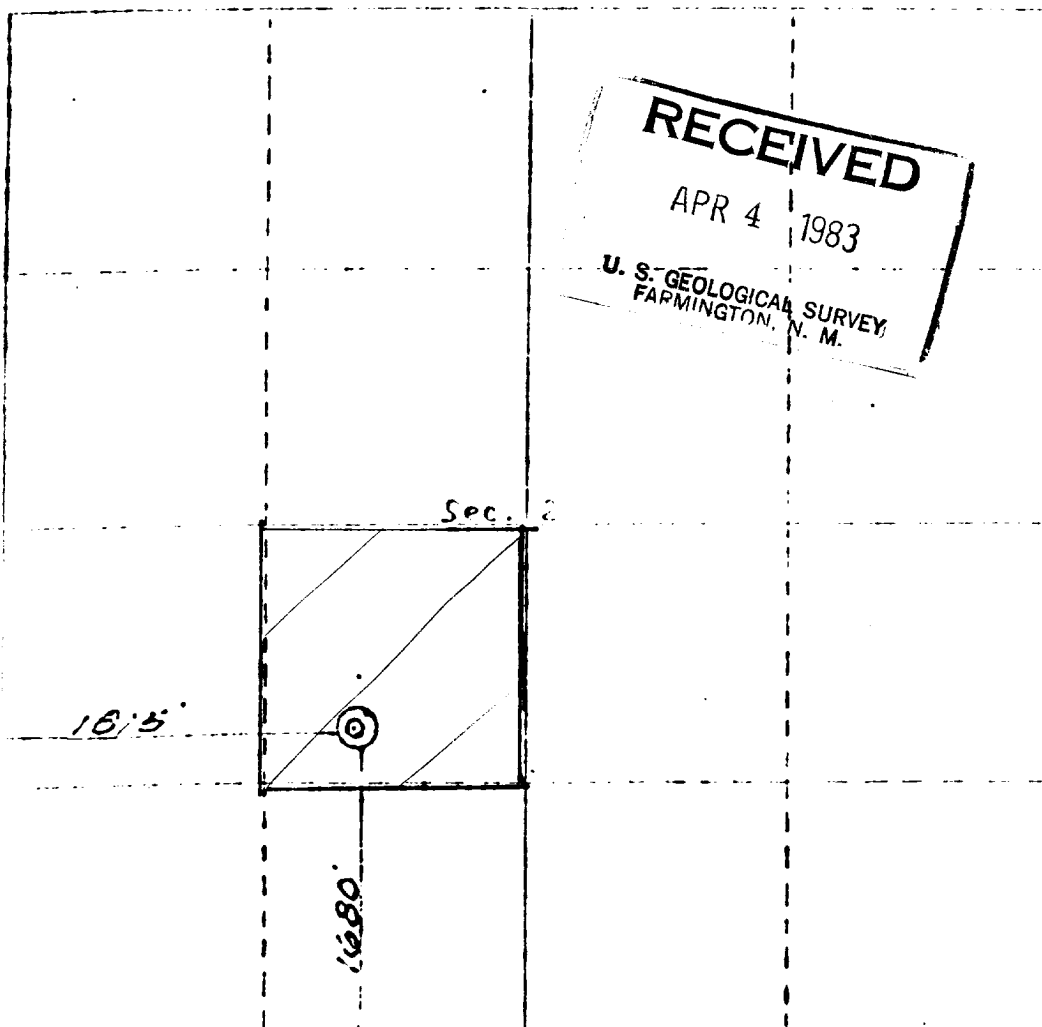
Operator SOUTHERN UNION EXPLORATION CO. OF TEXAS		Lease HORSESHOE SUSAN E. STATE		Well No. 1
Unit Letter A	Section 2	Township 29 NORTH	Range 15 WEST	County SAN JUAN
Actual Postage Location of Well:				
1680	feet from the SOUTH	1815	feet from the WEST	
Ground Level Elevation 5252	Producing Formation Gallup	Flow Meadows Gallup Ext.	Dedicated Acreage: 40	

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, force-pooling, or other action until a more standard unit, eliminating such interests, has been approved by the Division.



CERTIFICATION

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

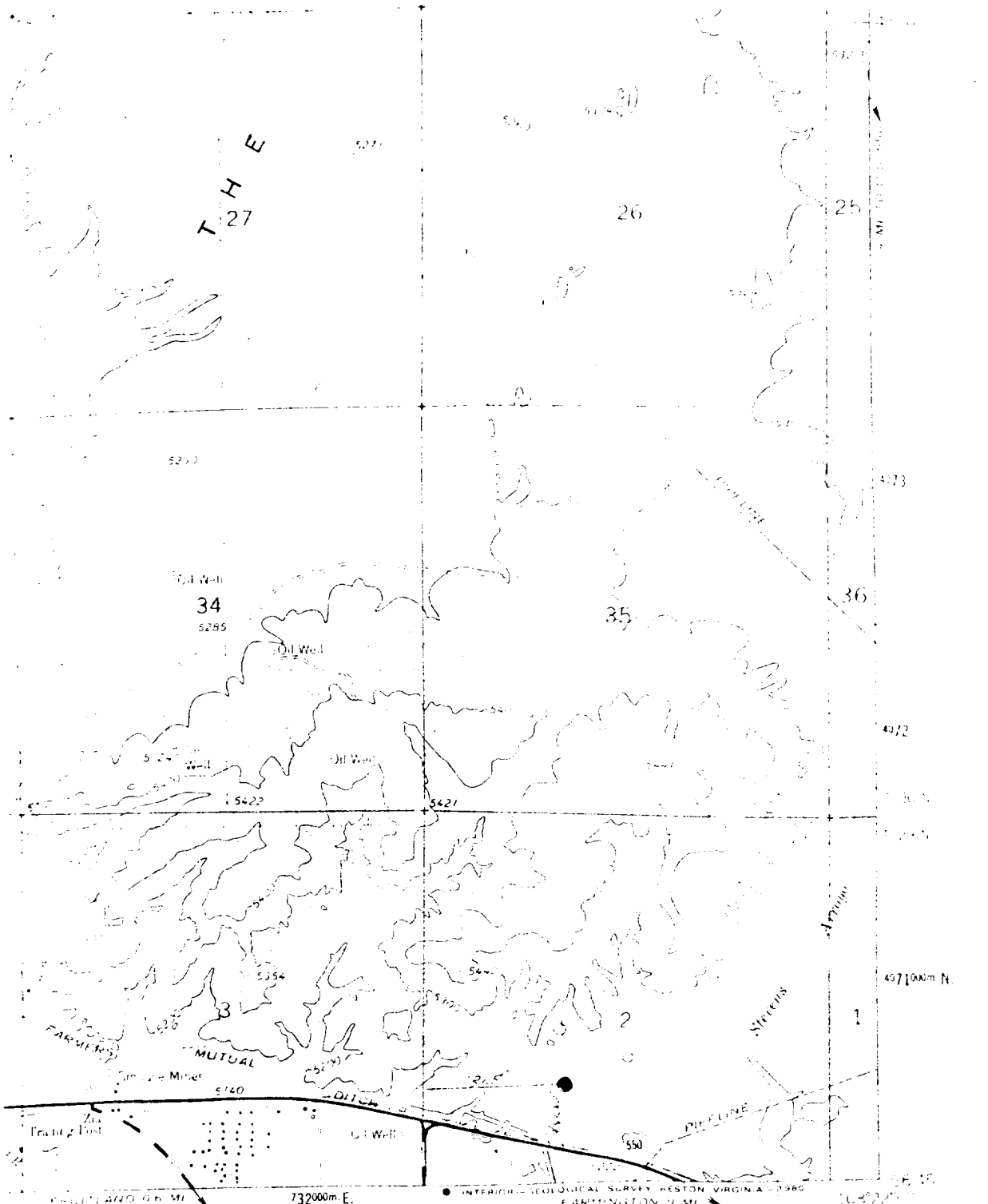
D. B. Schwab
Sup. & Prod. Sup.
S. Union Expl.

CERTIFY

Date

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.





ROAD CLASSIFICATION

Heavy duty	—————	Light duty	- - - - -
Medium duty	- - - - -	Unimproved dirt	



□ ADRIANGLE LOCATION

U

N,

S,

VICINITY MAP

for
SOUTHERN UNION EXPLORATION COMPANY OF
TEXAS
showing
Well Location in NE/4 SW/4 of Sec. 2,
T29N, R15W, N.M.P.M., San Juan County,
New Mexico

Scale: 1"=6000'