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5A. Indicate Type of Lease  
STATE ☒ FEE ☐

5. State Oil & Gas Lease No.  
E-1085

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work  
b. Type of Well  
OIL WELL ☐ GAS WELL ☒ OTHER ☐  
DRILL ☐ DEEPEN ☐ PLUG BACK ☒  
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator  
Southern Union Exploration Company

3. Address of Operator  
1201 Elm Street, Suite 1800 Dallas, Texas 75270

4. Location of Well  
UNIT LETTER M LOCATED 660 FEET FROM THE South LINE  
AND 660 FEET FROM THE West LINE OF SEC. 8 TWP. 17S R. 34E NMPH

7. Unit Agreement Name

8. Name of Lease Name  
Gallagher "8" State

9. Well No.  
2

10. Field and Pool, or Wildcat  
Vacuum, N. Atoka

12. County  
Lea

19. Proposed Depth 12,900'	19A. Formation Atoka	20. History or C.T. N/A
21A. Kind & Status Plug. bond Blanket	21B. Drilling Contractor N/A	22. Approx. Date Work will start 9-14-87

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	11 3/4"	42	350'	400	Circ.
11"	8 5/8"	24 & 32	4,143'	500	1822'
7 7/8"	5 1/2"	17	13,510'	550	9765'

NOTE: The well is currently incapable of producing at an economic rate from the Morrow Formation.

1. Set plug in permanent packer at 13,078'. (PBTD - 13,390')
2. RIH and cut off tbg. just above permanent packer. (Note: The tbg./seal assembly is stuck in the packer.)
3. Spot a 100' cement plug on top of the packer.
4. Run CBL/GR/CCL from PBTD. (minimum footage).
5. Perforate from 12,810' - 12,828' (Atoka) with a casing gun, 2 SPF.
6. RIH with a packer to  $\pm$  12,700'.
7. Swab test well.
8. Stimulate if warranted.

This procedure was verbally approved by Eddie Seay on 8/5/87.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Jerry Sexton Title Drilling & Production Engineer Date 8/10/87

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT 1 SUPERVISOR TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

AUG 21 1987

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## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section

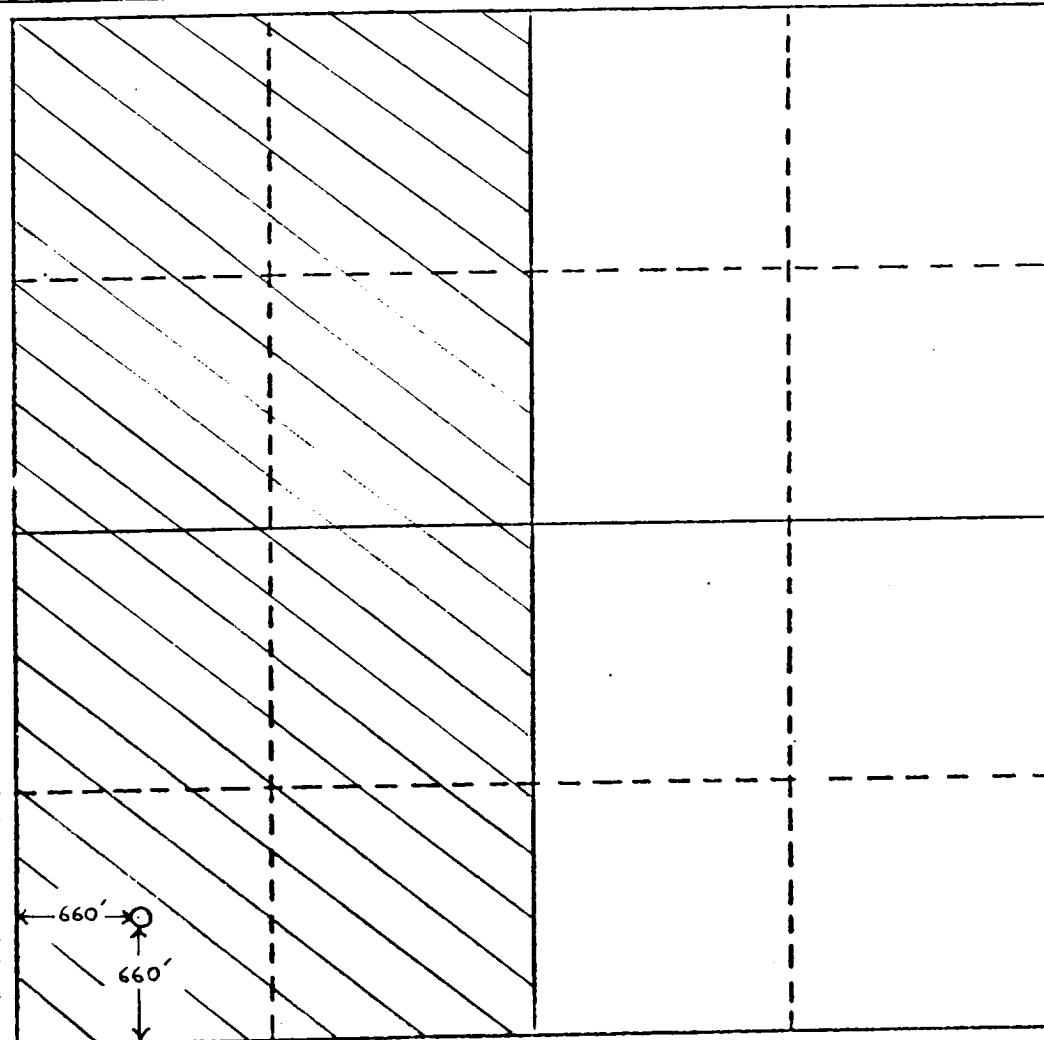
Operator Southern Union Exploration Co.		Lease Gallagher "8" State		Well No. 2
Unit Letter M	Section 8	Township 17S	Range 34E	County Lea
Actual Footage Location of Well: 660 feet from the South line and 660 feet from the West line				
Ground Level Elev. 4104'	Producing Formation Atoka	Pool Vacuum, N.	Dedicated Acres 320	

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 Division.



## CERTIFICATION

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

*David W. Stevens*

Name

David W. Stevens

Position

Drilg. &amp; Prod. Eng.

Company

Southern Union Exploration

Date

August 10, 1987

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

Registered Professional Engineer  
and/or Land Surveyor

Certificate No.

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