

PMX - 59  
7/2/74  
TESORO PETROLEUM CORPORATION

8700 TESORO DRIVE

512-828-8484

SAN ANTONIO, TEXAS 78286

June 12, 1974

New Mexico Oil Conservation Commission  
Post Office Box 2088  
Santa Fe, New Mexico

Re: Application to Inject Gas  
and Water  
Lower Hospah Sand  
Santa Fe "A" #87, S. Hospah  
McKinley County, New Mexico

Gentlemen:

Attached is an approved Form C-101 permitting the drilling of the subject well. As noted by the District Supervisor, this approval does not constitute consent to inject and is subject also to approval of a non-standard location prior to injection.

The proposal to utilize this well for injection service is designed to expand the secondary recovery project as approved by Oil Conservation Commission Order R-4558, dated June 25, 1973.

Tesoro Petroleum Corporation respectfully requests approval of this subject well as an injection well in this authorized secondary recovery project. In support of this request, as stipulated by Rule 10, Paragraph (1), (2), and (3) of this aforementioned order, a plat of the project is attached showing the location of the subject well. A schematic diagram is also attached showing the completion procedure in this well and a copy of the application is being furnished to Tenneco Oil Company who is the only offset operator, and who is sharing 50% of the cost of drilling and completing the injection well.

As noted previously, the subject well has been drilled at a non-standard location, consequently, approval in this matter is also respectfully requested.

Yours very truly,



R. H. Denman  
Director of Production Administration

Attachments - 3

RHD:dh

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U.S.G.S.	2
LAND OFFICE	
OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION  
FILE COPY

JUN 06 1971

Form C-101  
Revised 1-1-65 30 031-2041

5A. Indicate Type of Lease  
STATE ☐ FEE ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Gas - Water Injection SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Santa Fe RR "A"	
2. Name of Operator Tesoro Petroleum Corporation		9. Well No. 87	
3. Address of Operator 1776 Lincoln St., Suite 1012, Denver, Colorado 80203		10. Field and Pool, or Wildcat So. Hospah Lower Sd	
4. Location of Well UNIT LETTER P (Lot 10) LOCATED 5' FEET FROM THE South LINE AND 50 FEET FROM THE East LINE OF SEC. 1 TWP. 17N RGE. 9W NMPM		12. County McKinley	
19. Proposed Depth 1650'		19A. Formation Lower Hospah	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 6935 GL	21A. Kind & Status Plug. Bond Statewide	21B. Drilling Contractor Coleman-Andes	22. Approx. Date Work will start - May 25, 1974

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	24#	100'	100	Circ.
7 7/8"	4 1/2"	9.5#	1600' ±	100	1000
4 3/4"	Open Hole		1650' ±		

Tesoro proposes to drill and complete this well as an open hole water fluid injection well in the South Hospah Lower Sand Unit according to the following procedure.

1. Drill a 12 1/4" hole to ± 100' and set 8 5/8" OD casing. Cement will be circulated to surface on the 8 5/8" casing.
2. Drill a 7 7/8" hole thru the 8 5/8" casing to the top of the Lower Hospah formation (1600' ±) and set 5 1/2" casing. The 5 1/2" casing will be cemented with 100 sx.
3. A completion rig will be moved in and the Lower Hospah injection interval will be drilled thru the 5 1/2" casing to 1650' ±.

APPROVAL VALID  
FOR 90 DAYS  
DRILLING COMMENCED,  
8-19-74

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 L. C. Marymont Title District Engineer Date May 20, 1974

(This space for Staff Use)

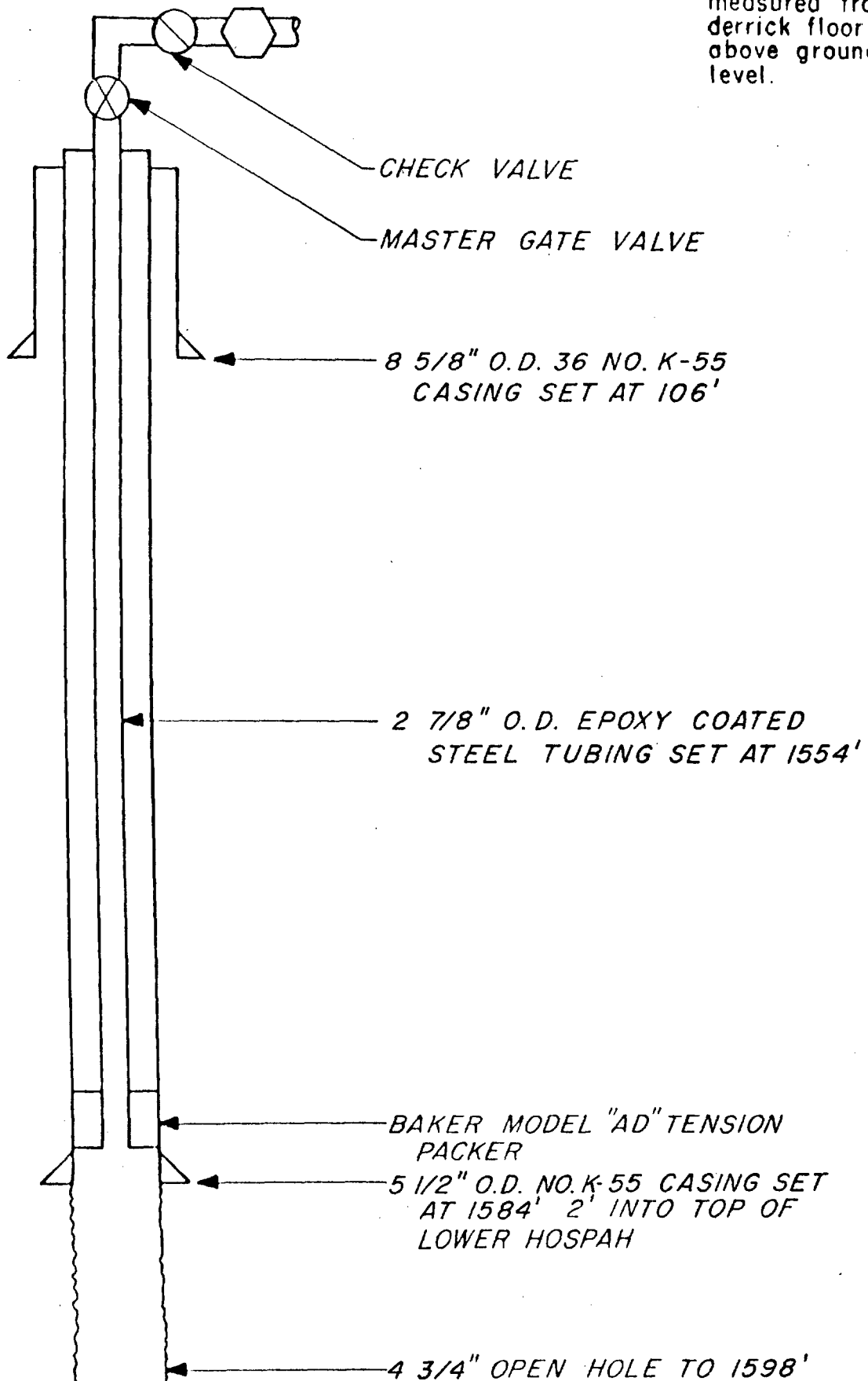
APPROVED BY [Signature] TITLE SUPERVISOR DIST. EN DATE 5-21-74

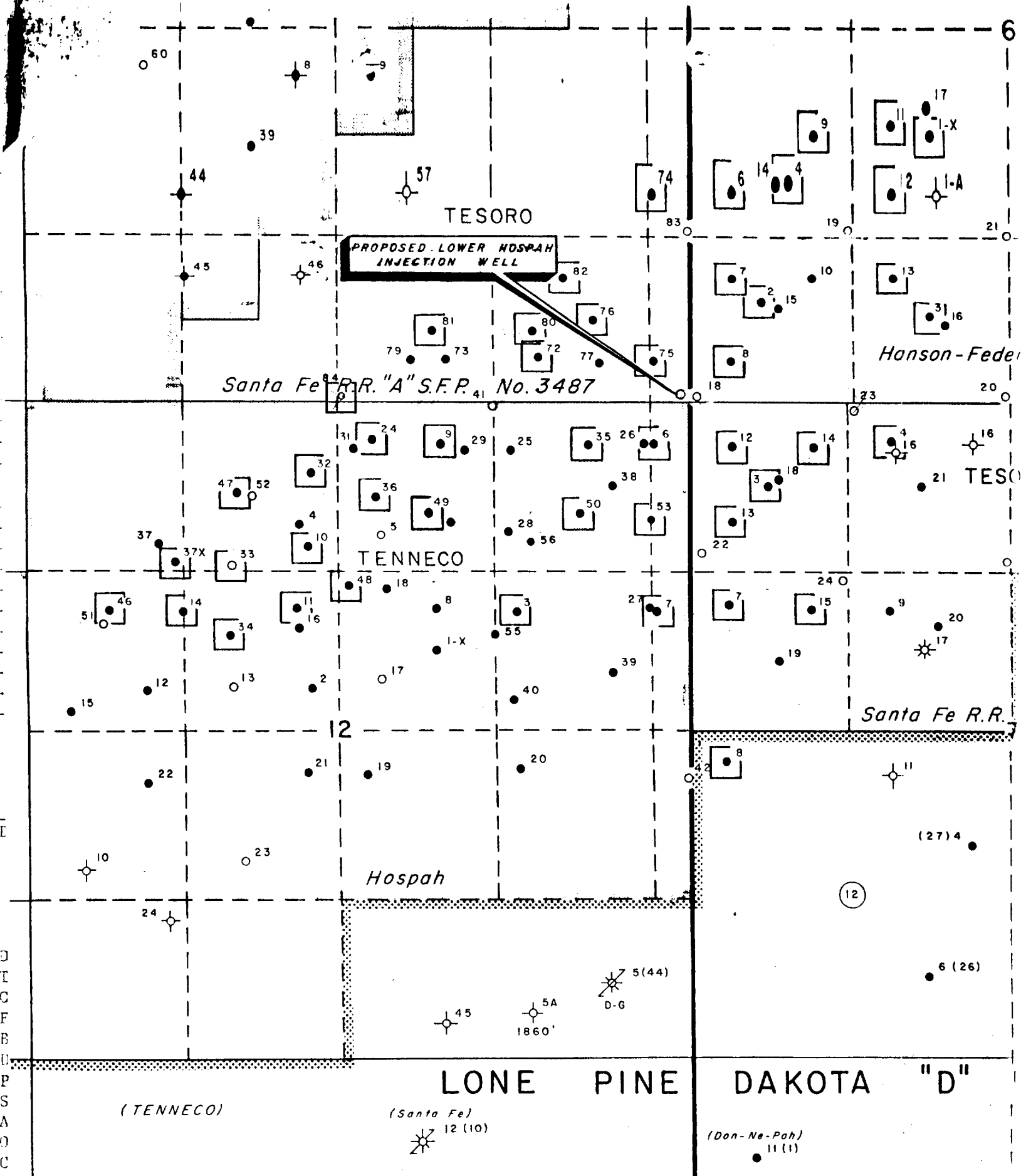
CONDITIONS OF APPROVAL, IF ANY:

Subject to approval of injection well & of non. Standard location prior to injection

SANTA FE "A" No. 87  
LOWER HOSPAH  
GAS WATER INJECTION

NOTE: Approx. depths  
measured from  
derrick floor 10'  
above ground  
level.





- PRODUCING WELL - L. HOSPAH ZONE
- INJECTION WELL - L. HOSPAH ZONE

TESORO PETROLEUM CORPORATION

SOUTH HOSPAH AREA  
MC KINLEY COUNTY, NEW MEXICO

AMENDED  
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 <b>Atlantic Richfield Company</b>			Lease <b>Empire Abo Unit</b>		Well No. <b>F-27</b>
Unit Letter <b>G</b>	Section <b>32</b>	Township <b>17 South</b>	Range <b>28 East</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>2310</b> feet from the <b>North</b> line and <b>1650</b> feet from the <b>East</b> line					
Ground Level Elev. <b>3689</b>	Producing Formation <b>Abo Reef</b>		Pool <b>Empire Abo</b>		Dedicated Acreage: <b>40</b> Acres

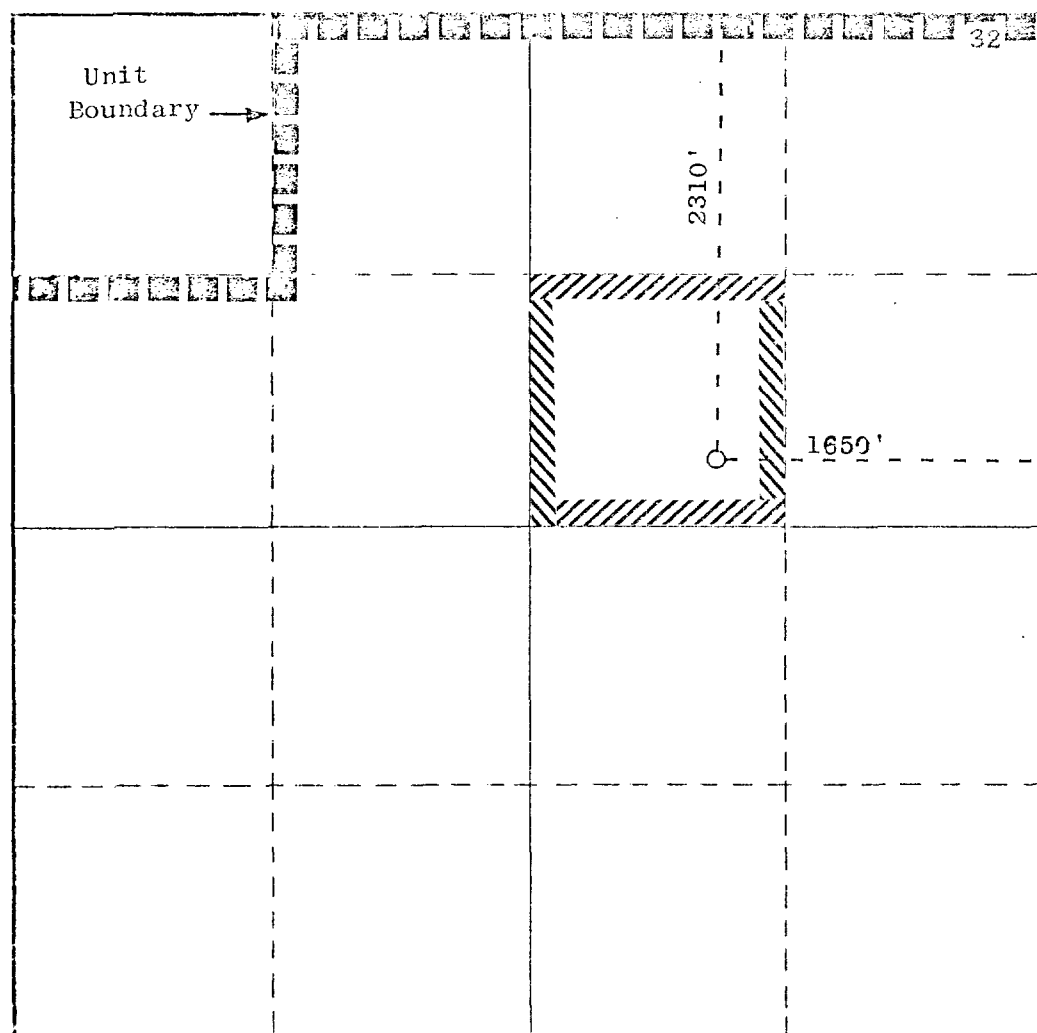
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communization, 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 communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

R-28-E



CERTIFICATION

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

Name  
**Jerry L. Tweed**  
Position  
**District Engineer**  
Company  
**Atlantic Richfield Co.**

Date  
**August 7, 1974**

*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

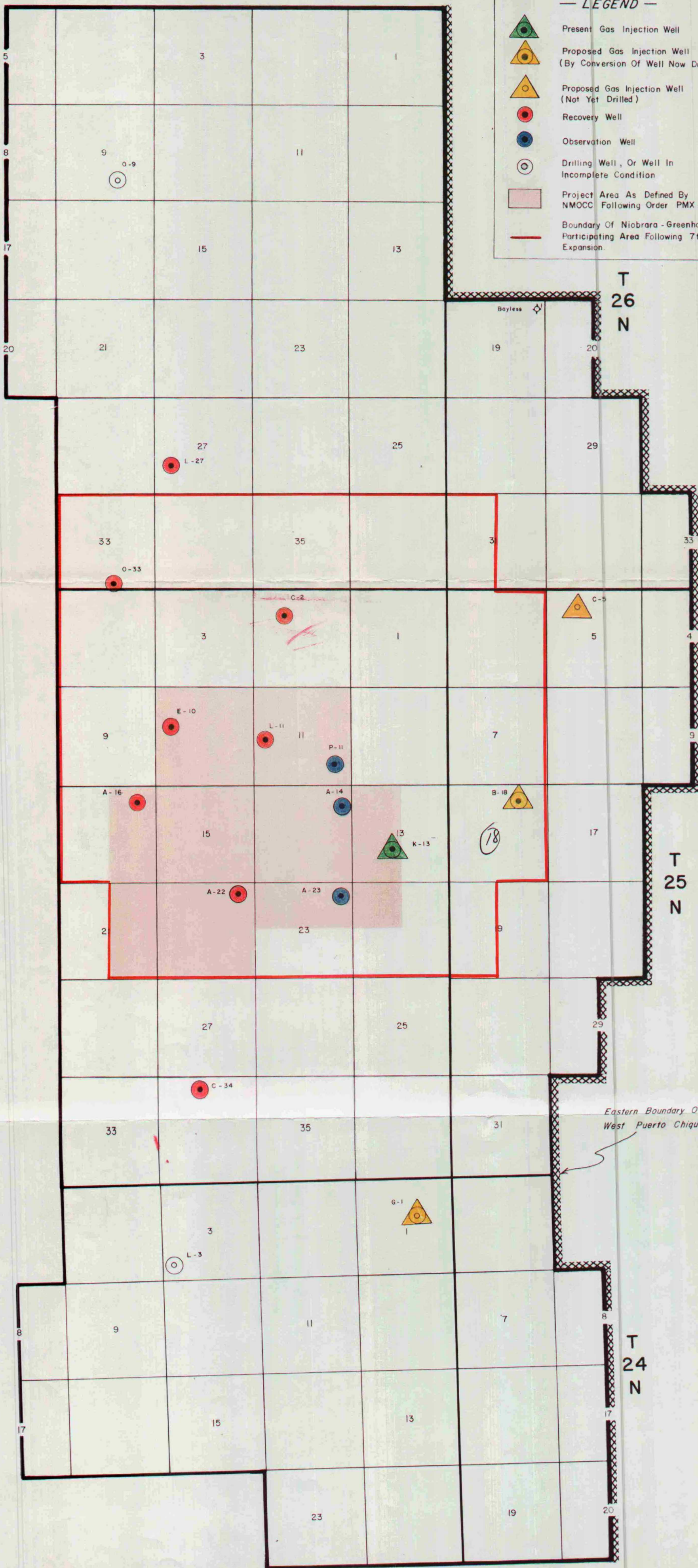
Registered Professional Engineer  
and/or Land Surveyor

Certificate No.



— LEGEND —

-  Present Gas Injection Well
-  Proposed Gas Injection Well (By Conversion Of Well Now Drilled)
-  Proposed Gas Injection Well (Not Yet Drilled)
-  Recovery Well
-  Observation Well
-  Drilling Well, Or Well In Incomplete Condition
-  Project Area As Defined By NMOCC Following Order PMX-35
-  Boundary Of Niobrara - Greenhorn Participating Area Following 7th Expansion.



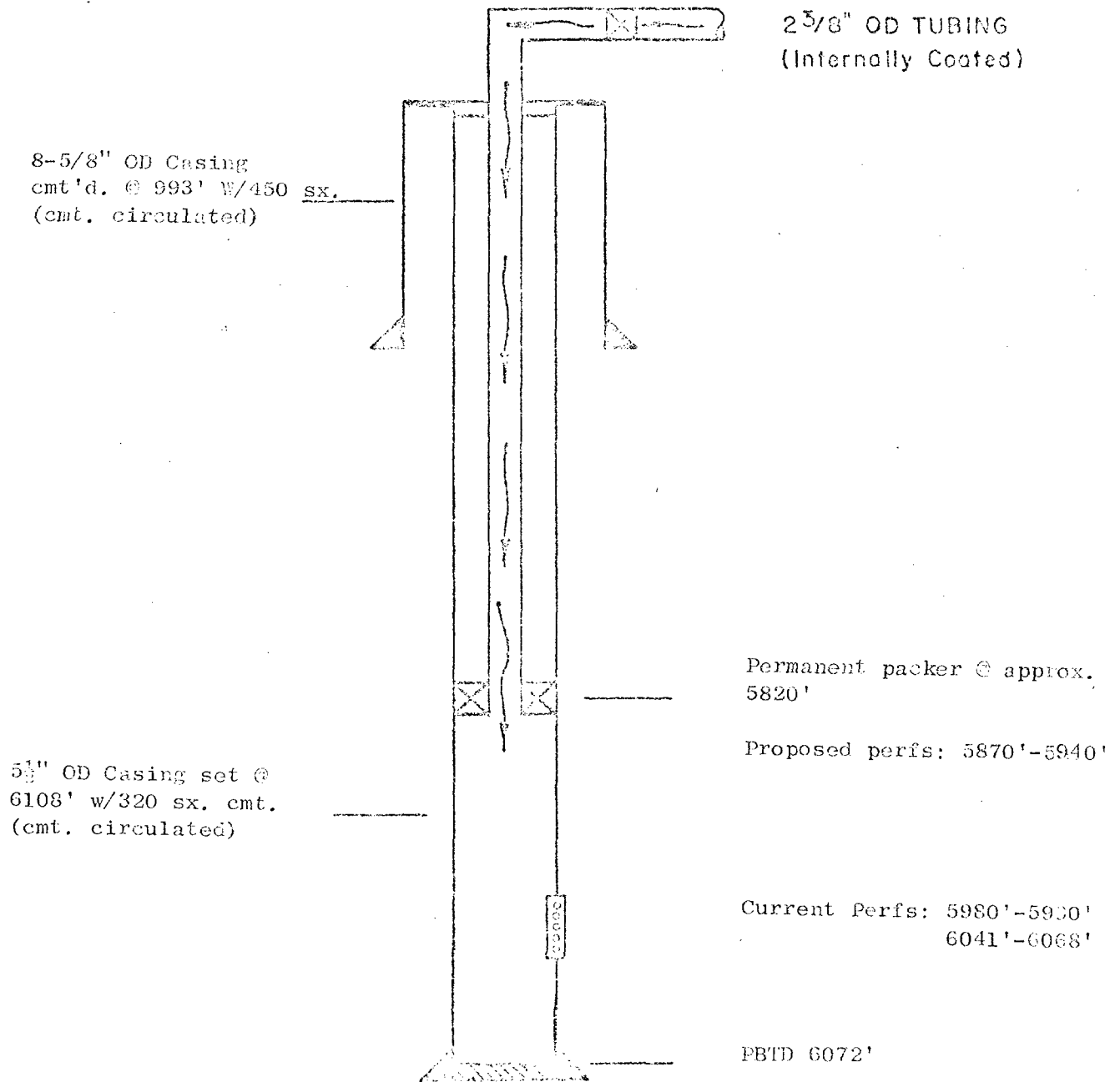
RIW

RIE

A



ATLANTIC RICHFIELD COMPANY  
 Empire Abo Unit Well P-27  
 (Formerly Hondo-Western-Yates State "A" #35)  
 2310' FNL & 1650' FEL Sec. 32, T-17-S, R-28-E  
 Eddy County, New Mexico  
 INJECTION WELL DIAGRAM



ATLANTIC RICHFIELD COMPANY  
Empire Abo Unit Well No. F 27  
2310' FNL & 1650' FEL SEC. 32, T-17-S, R-28-E  
EDDY COUNTY, NEW MEXICO  
GAMMA RAY - NEUTRON

