

El Paso Natural Gas Company

El Paso, Texas 79978

May 22, 1974

ADDRESS REPLY TO
POST OFFICE BOX 800
FARMINGTON NEW MEXICO 87401

Mr. Jerry Long
U. S. Geological Survey
Post Office Box 1809
Durango, Colorado 81301

Re: Application for Permit to Drill
Canyon Largo Unit #249
NE/4 Section 4, T-24-N, R-6-W
Basin Dakota

Dear Mr. Long:

Details regarding existing roads, pipelines, wells, etc. relative to the above well location are included on the previously submitted base maps, "Field Road Map" and "Composite Map No. 1".

The proposed new well location, new roads and new pipeline are shown on the attached plat along with connecting existing roads and pipelines in the vicinity of the proposed new well.

Water for drilling and completion operations will be obtained from the following location: BLM Canyon Largo Water Hole, SWSE 11-24-6.

Waste material will be disposed of by burial in the burn pit, latrine, or reserve pit as applicable. There will be no camp nor air strip associated with drilling this well. Upon completion or abandonment of this well, the location will be cleaned and leveled and a dry hole marker placed, if applicable.

Yours very truly,

D. G. Brisco

D. G. Brisco
Drilling Clerk



pb

JK

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

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

PO Box 990, Farmington, NM 87401

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

At surface

1500'N, 890'E

At proposed prod. zone

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

15. DISTANCE FROM PROPOSED*

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

6646'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

339.45

20. ROTARY OR CABLE TOOLS

Rotary

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

6403'GR

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#	200'	224 cu. ft. to circulate
8 3/4" & 7 7/8"	4 1/2"	10.5# & 11.6#	6646'	1808 cu. ft. - 2 stages

Production Casing Cementing:

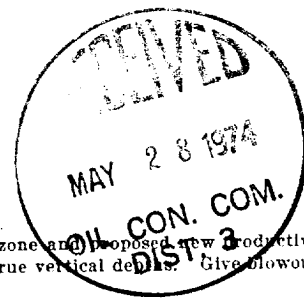
1st stage - 357 cu. ft. to cover Gallup formation.

2nd stage - 1451 cu. ft. to cover Ojo Alamo formation.

Selectively perforate and sandwater fracture the Dakota formation.

Surface is patented and owner approval has been secured.

The E/2 of Section 4 is dedicated to this well.



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

A. G. Lisco

TITLE

Drilling Clerk

DATE May 22, 1974

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

La

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**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.

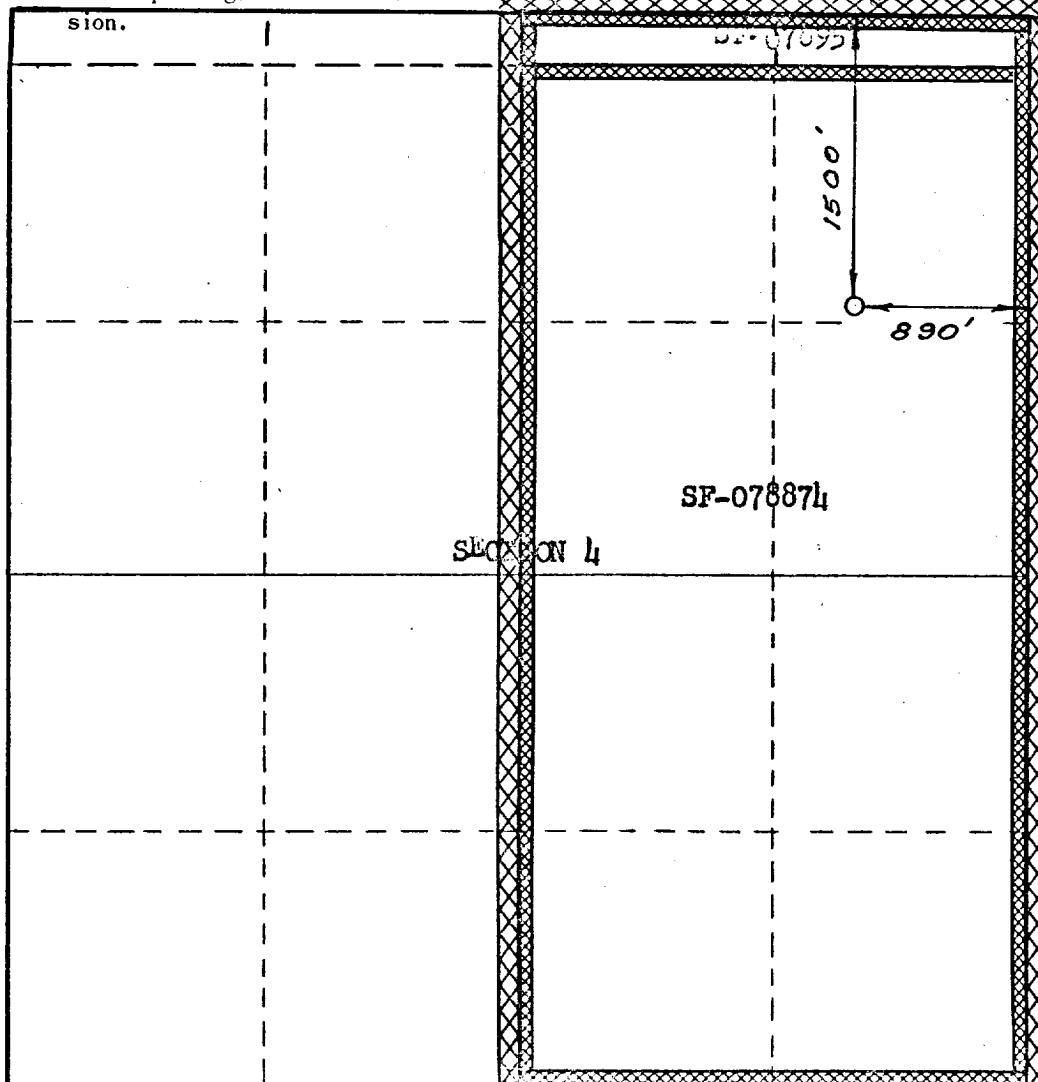
Operator EL PASO NATURAL GAS COMPANY		Lease CANYON LARGO UNIT (SF-078874)		Well No. 249
Unit Letter H	Section 4	Township 24-N	Range 6-W	County RIO ARriba
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 1500 feet from the NORTH line and 890 feet from the EAST line </div>				
Ground Level Elev. 6403	Producing Formation DAKOTA	Pool BASIN DAKOTA	Dedicated Acreage: 339.45 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 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.



CERTIFICATION

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

**Original Signed by
D. G. Brisco**

Name

Position

Company

Date

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.

Date Surveyed

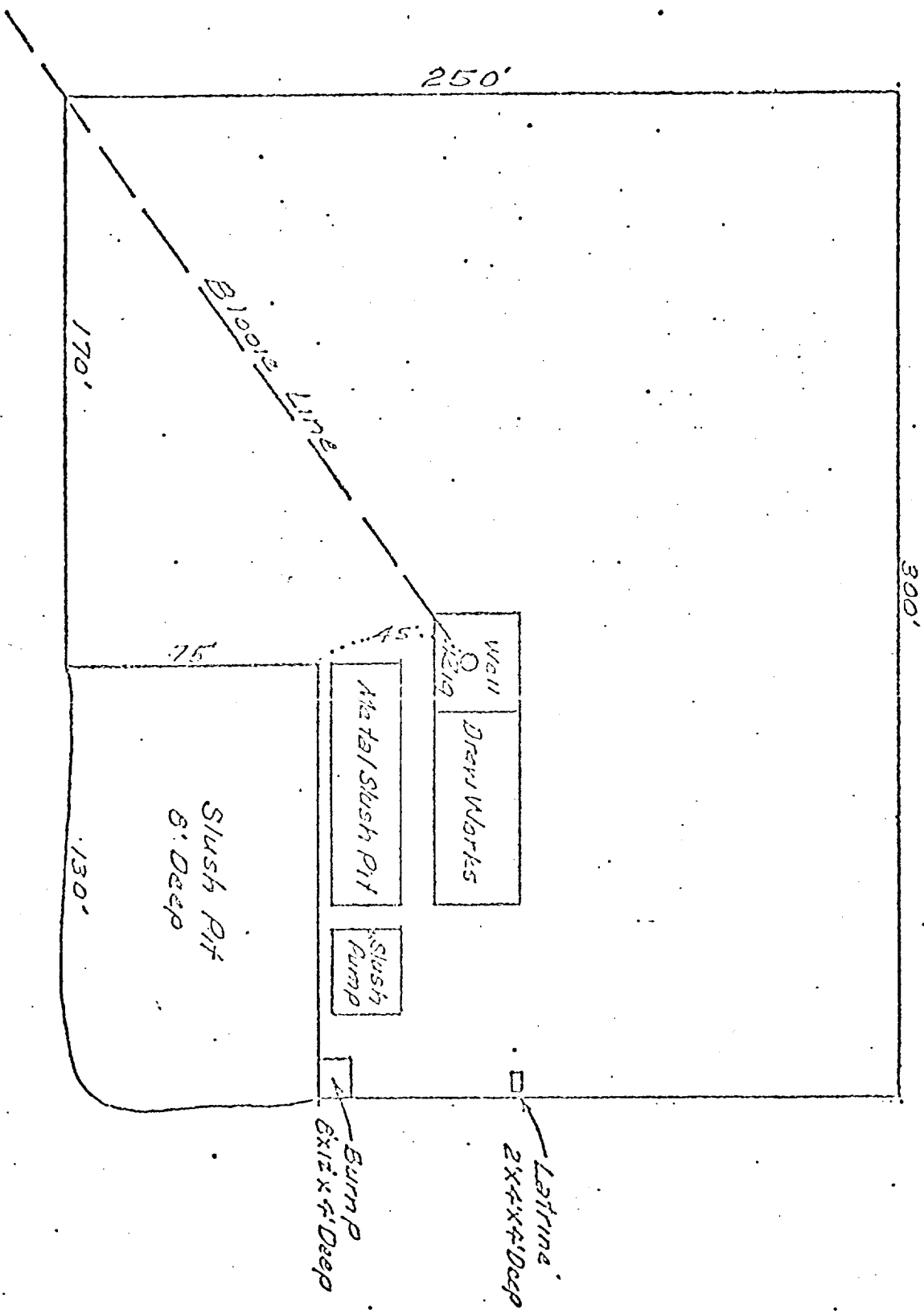
FEBRUARY 5, 1974

Registered Professional Engineer
and/or Land Surveyor

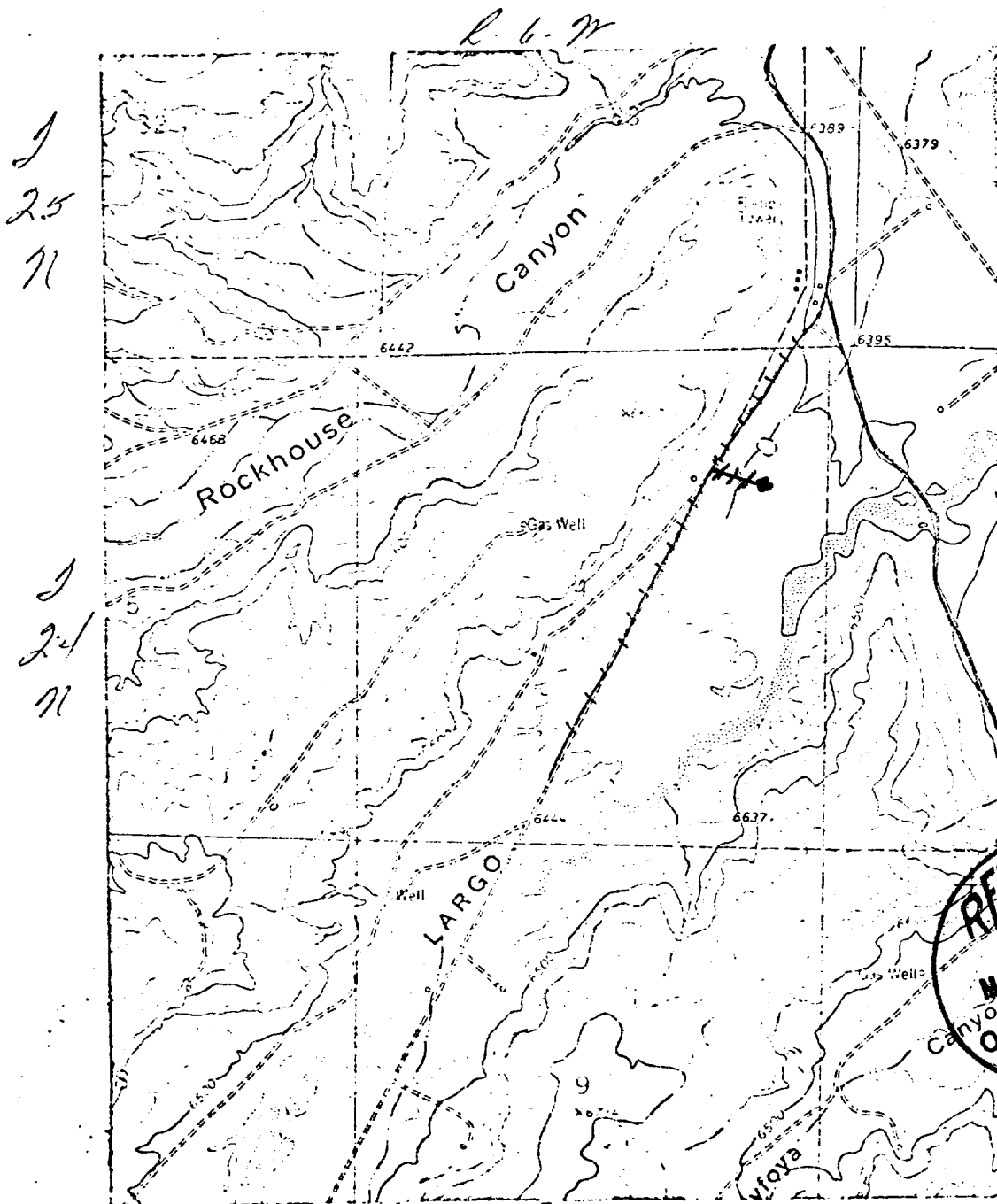
[Signature]

Certificate No. **1760**

CANYON LAND UNIT 249



Canyon Largo and ...
 SE 1/4 Sec. 4, T-24-N, R-6-W



LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS	—
EXISTING PIPELINES	— + + +
EXISTING ROAD & PIPELINE	— + + +
PROPOSED ROADS	—
PROPOSED PIPELINES	+ + + +
PROPOSED ROAD & PIPELINE	+ + + +

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 13, 1975

Operator El Paso Natural Gas Company		Lease Canyon Largo Unit #249	
Location 1500/N, 890/E, Sec. 4, T24N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6684'	Tubing: Diameter 2.375	Set At: Feet 6582'
Pay Zone: From 6439'	To 6584'	Total Depth: PBSD 6684' 6668'	Shut In 10-27-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 4" M.R. 2.750		Meter Choke Constant: C 41.10		Tested thru a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 2257	+ 12 = PSIA 2269	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 822	+ 12 = PSIA 834	
Flowing Pressure: P PSIG MR 13 WH 62	+ 12 = PSIA MR 25 WH 74		Working Pressure: Pw PSIG 504	+ 12 = PSIA 516	
Temperature: T = 63 °F	n = Ft = .9971		Fpv (From Tables) 1.004	Gravity .690	Fg = 1.204

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = \underline{471} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left(\frac{5148361}{4882105} \right)^n = 471 (1.0545)^{.75} = 471 (1.0406)$$

$$Aof = \underline{490} \text{ MCF/D}$$

Note: This well produced 35.7 Bbl. of 41.2° API gravity oil, 18.9 Bbl. of water and 168.43 MCF of gas during the test.

TESTED BY C. Rhames & D. Norton

WITNESSED BY _____

Larry W. Smith
Well Test Engineer

