

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 ☐ 1850'S, 820'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)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

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

22. APPROX. DATE WORK WILL START*

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#	120'	142 cu.ft. to circulate
8 3/4"	2 7/8"	6.4#	2720'	306 cu.ft. to cover Ojo Alamo
6 3/4"	2 7/8"	6.4#	3655'	286 cu.ft. to fill to 2720'

Selectively perforate and sandwater fracture the Pictured Cliffs and Chacra formation.

A 3000 psi WP and 6000 psi test double gate preventer, equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

The SE/4 of Section 19 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

TITLE

Drilling Clerk

DATE

November 22, 1976

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

30-039-21307

Jic. Apache Tribal
Contract #67
6. IF INDIAN, ALLOTTEE OR TRIBE NAMEJicarilla Apache
7. UNIT AGREEMENT NAMEJicarilla 67 7161
8. FARM OR LEASE NAME18
9. WELL NO.10. FIELD AND POOL OR WILDCAT
So. Blanco PC Ext. &
Otero Chacra Ext. ✓11. SEC., T., R., M., OR B.L.K.
AND SURVEY OR AREA
Sec. 19, T-25-N, R-5-W
NMPM12. COUNTY OR PARISH
Rio Arriba NM
13. STATE17. NO. OF ACRES ASSIGNED
TO THIS WELL
160.0020. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START*

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-10
Supersedes O-1, 2, 3
Effective 1-1-65

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

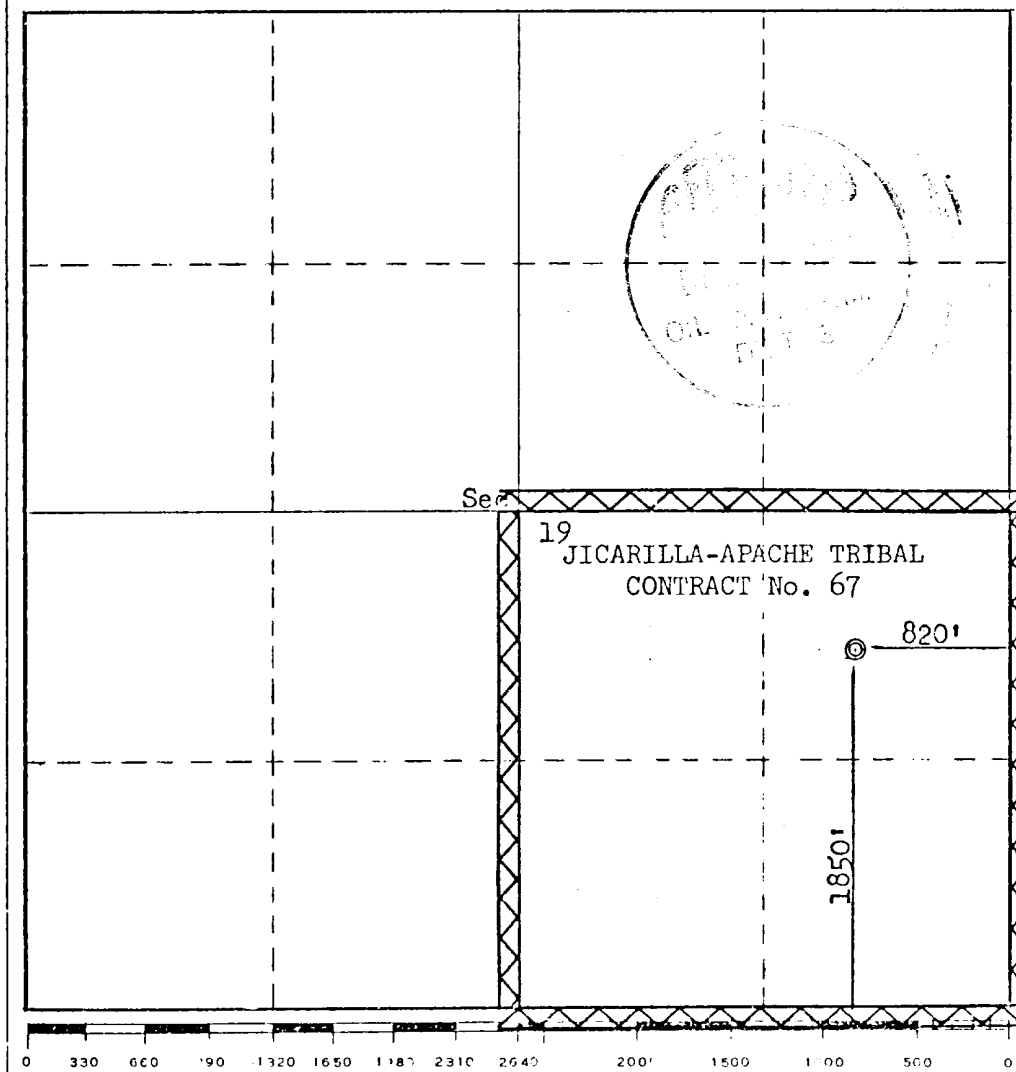
Operator El Paso Natural Gas Company			Lease Jicarilla 67 (Jicarilla Cont. 67)		Well No. 18
Unit Letter I	Section 19	Township 25N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1850 feet from the South line and 820 feet from the East line					
Ground Level Elev. 6597	Producing Formation: Pictured Cliffs-Chacra		Bb. Blanco Pictured Cliffs Ext. Otero Chacra Ext.		Dedicated Acreage: 160.00 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Commission.



CERTIFICATION

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

[Signature]

Name

Drilling Clerk

Position

El Paso Natural Gas Co.

Company

November 22, 1976

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

November 9, 1976

Registered Professional Engineer and/or Land Surveyor

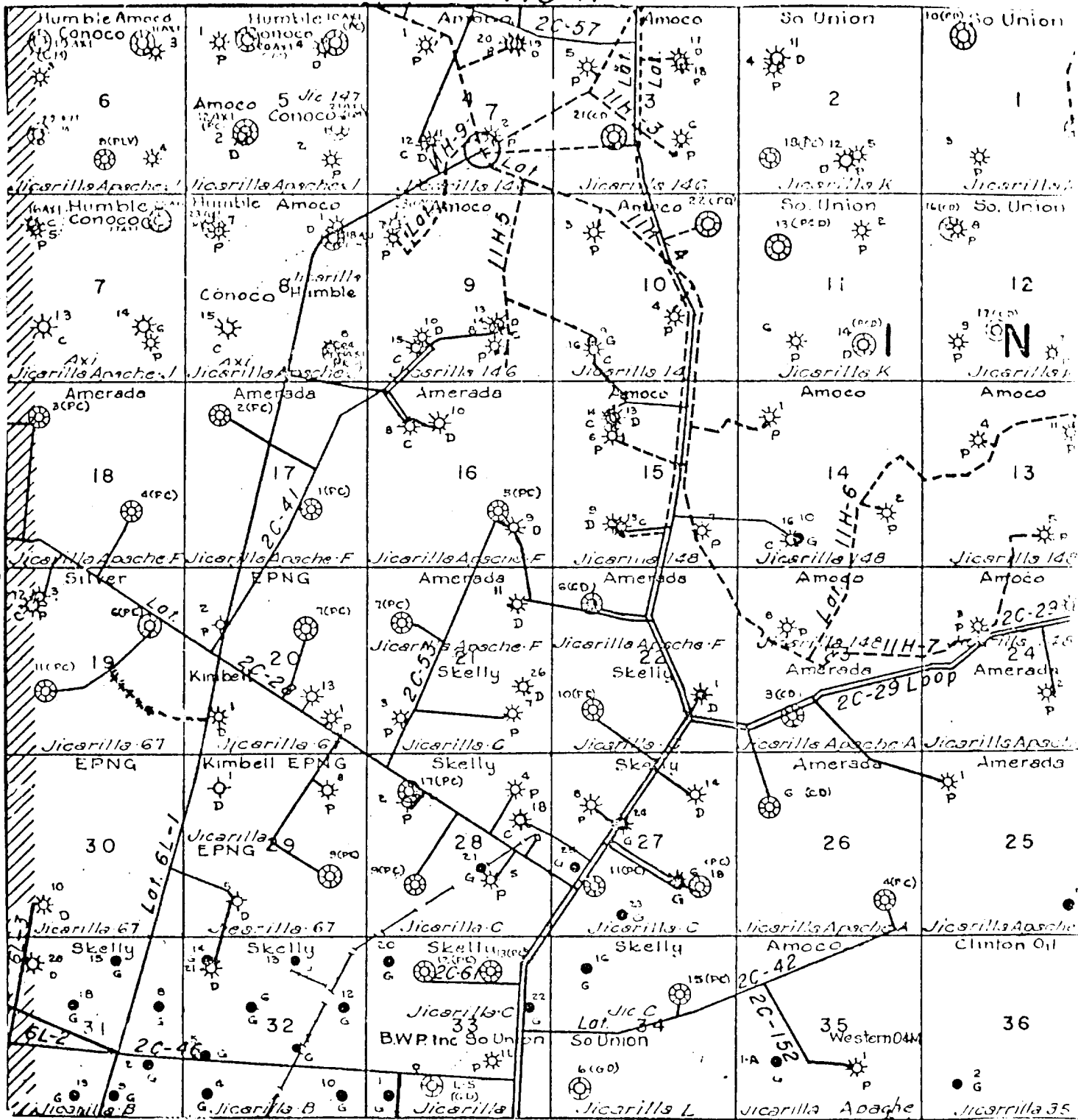
[Signature]
Fred B. Ferr Jr

Certificate No.

3950

R5W

T 25 N



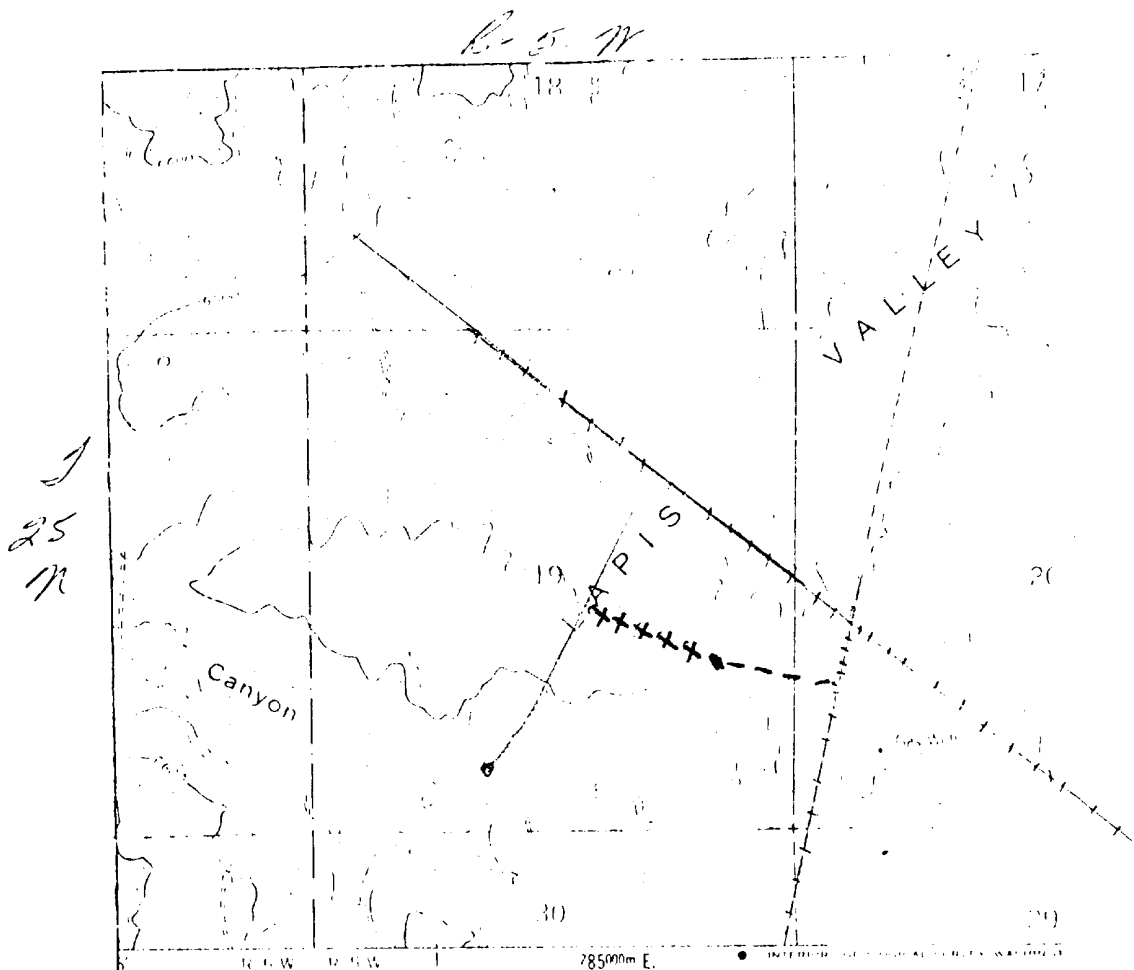
JICARILLA 67 #18

MAP No. 1

PROPOSED Road - - - - -
 Proposed Pipeline + + + + +

1850S 820E
 1850S 820E

1850S 820E



ROAD CLASSIFICATION

Light duty

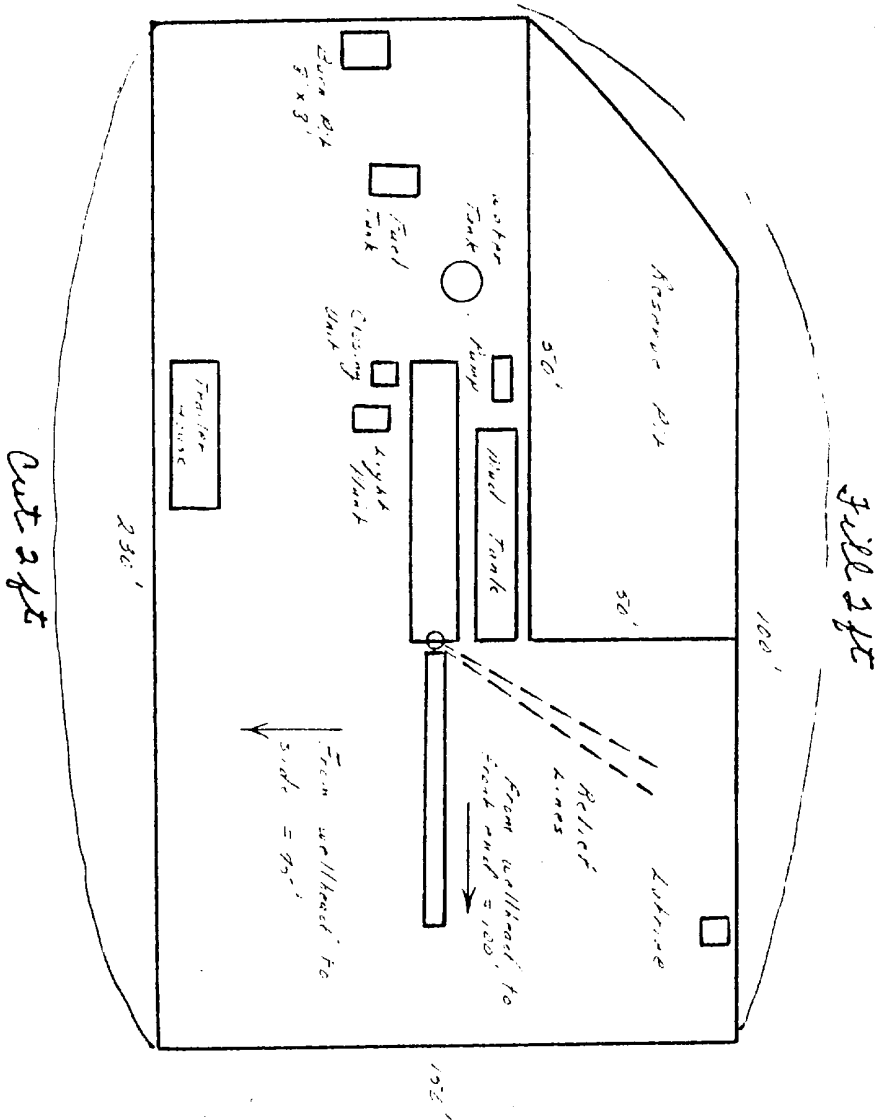
Heavy



LEGEND OF RIGHT-OF-WAYS

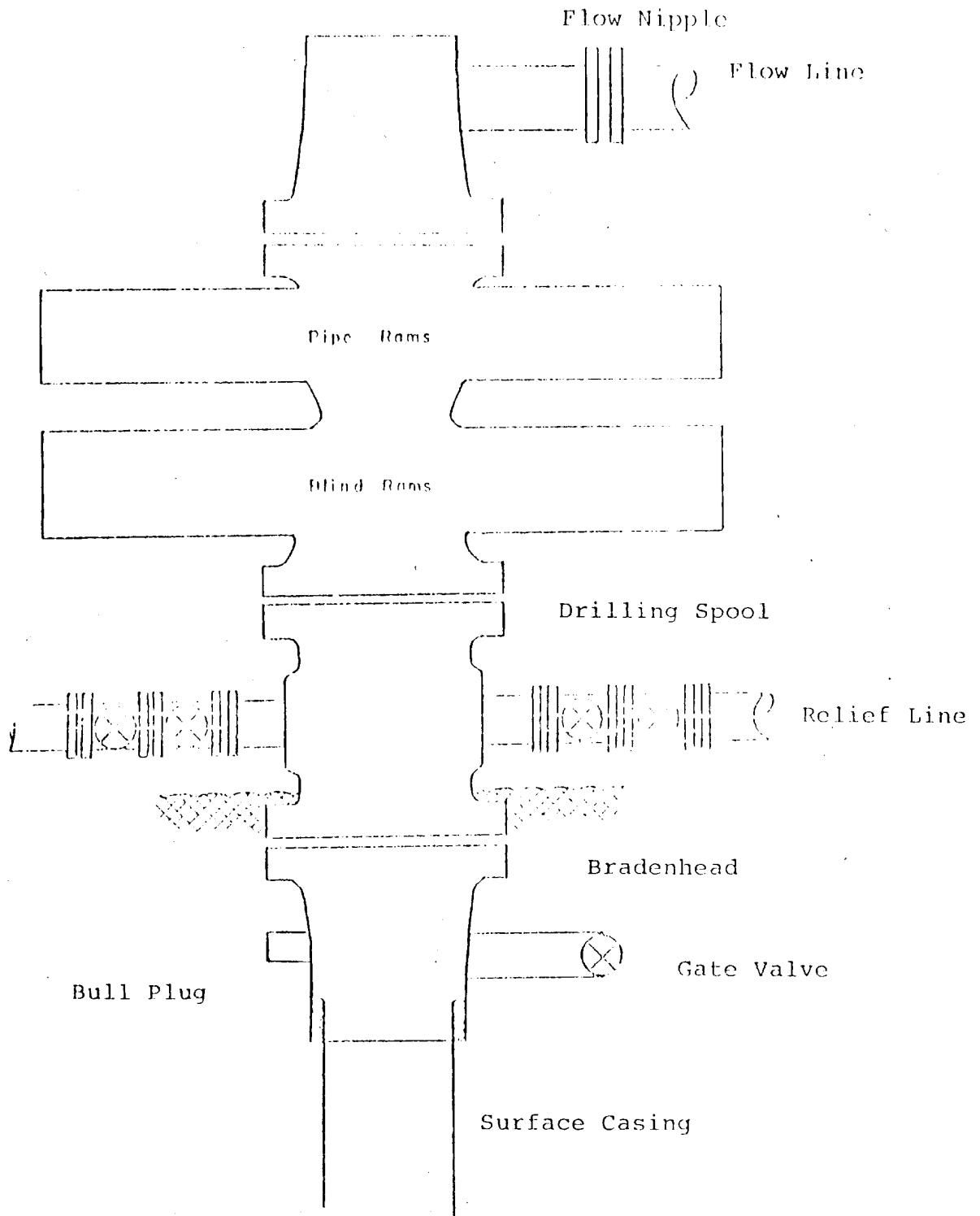
- EXISTING ROADS —————
- EXISTING PIPELINES + + +
- EXISTING ROAD & PIPELINE — + + +
- PROPOSED ROADS - - - - -
- PROPOSED PIPELINES + + + + +
- PROPOSED ROAD & PIPELINE — + + + +

EI Paso Natural Gas Company
 Typical location pit for P. turned Chis's well



PLAT #

Typical Mud Drilled B.O.P. Installation
for Pictured Cliffs Well



800 Series 900 Double Gate BOP, rated
at 3000 psi Working Pressure

November 22, 1976

Operations Plan - Jicarilla 67 #18

I. Location: 1850'S, 820'E, Section 19, T-25-N, R-5-W, Rio Arriba County, NM
Field: So. Blanco Pictured Cliffs - Otero Chacra Elevation: 6597'GL

II. Geology:

A. Formation Tops:

Ojo Alamo	2095'	Lewis	2695'
Kirtland	2225'	Chacra	3475'
Fruitland	2395'	Total Depth	3655'
Pictured Cliffs	2615'		

B. Logging: Induction-Electric and Gamma Ray Density at Total Depth.

C. Coring: none

III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1977 Drilling Program - approximately 6 days to complete

B. Circulating Medium: treated water and a low solids gel base mud will be used from surface to TD.

IV. Materials:

A. <u>Casing Program:</u>	<u>Hole Size</u>	<u>Depth</u>	<u>Csg. Size</u>	<u>Wt. & Grade</u>
	13 3/4"	120'	9 5/8"	32.3# H-40
	8 3/4"	2720'	2 7/8"	6.4# J-55
	6 3/4"	3655'	2 7/8"	6.4# J-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

2 7/8" production casing -

Chacra - 10' shoe joint with notched collar on bottom and latch down baffle on top. Use two 3 1/16" rubber balls and one Omega plug to displace cement. Use 3 1/4" I.D. plug container head. Run 7 centralizers, one on each of the bottom 7 joints.

Pictured Cliffs - all collars beveled, 10' shoe joint with guide shoe on bottom and latch down baffle on top. Use two 3 1/16" rubber balls and one Omega plug to displace the cement. Use 3 1/4" I.D. plug container head. Run 12 rubber 2 7/8" x 4 1/8" turbilizers, 2 per joint from the bottom up.

C. Tubing: none

D. Wellhead Equipment: wellhead for 9 5/8" casing with dual 2 7/8" mandrel

Operations Plan - Jicarilla 67 #18, cont'd.

V. Cementing:

9 5/8" surface casing - 120 sks. Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (142 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. test casing to 600#/30 minutes.

2 7/8" production casing -

Pictured Cliffs - use 94 sks. of 65/35 Class "B" Pozmix with 12% gel followed by 50 sks. of Class "C" neat cement (306 cu.ft. of slurry, 50% excess to cover the Ojo Alamo). Spot 50 gallons of 7 1/2% acid on top of plugs.

Chacra - use 78 sks. of 65/35 Class "B" Pozmix cement with 12% gel followed by 70 sks. of Class "C" neat cement (286 cu.ft. of slurry, 50% excess to cover the top of the Lewis). Spot 50 gallons of 7 1/2% acetic acid on top of plugs. Run temperature survey in Chacra after 12 hrs. Check total depth in Pictured Cliffs strings. WOC 18 hrs.

Cement Chacra string first then the Pictured Cliffs string after plug is down on the Chacra.

RECEIVED
OCT 01 1976

Multi-Point Surface Use Plan

Jicarilla 67 #18

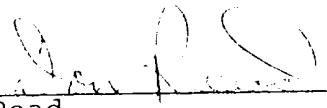
1. Existing Road - Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
2. Planned Access Roads - Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed thirty feet (30') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
3. Location of Existing Wells - Please refer to Map No. 1
4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing and proposed gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
5. Location and Type of Water Supply - Water for the proposed project will be obtained from a water hole located SE/4 Section 3, T-25-N, R-6-W (Gonzales Mesa Water Well)
6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.

LV

7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1 will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.
8. Ancillary Facilities - No camps or airstrips will be associated with this project.
9. Wellsite Layout - Please refer to the attached Plat No. 1.
10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out as prescribed by either the governmental regulatory agency or land owner and El Paso Natural Gas Company. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted the color or colors designated by the proper governmental agency.
11. Other Information - The immediate area surrounding the proposed wellsite is rolling hills and sagebrush flats. Some wild grass, sagebrush, native cedar and pinon trees grow on the location. A few head of cattle graze on the proposed project site.

12. Operator's Representative - W. D. Dawson, Post Office Box 990,
Farmington, New Mexico 87401
13. Certification - I hereby certify that I, or persons under
my direct supervision, have inspected the
proposed drillsite and access route; that
I am familiar with the conditions which
presently exist; that the statements made
in this plan are, to the best of my knowledge,
true and correct; and, that the work associated
with the operations proposed herein will be
performed by El Paso Natural Gas Company and
its contractors and sub-contractors in conformity
with this plan and the terms and conditions under
which it is approved.

November 22, 1976



D. R. Read
Division Drilling Engineer

pb

OIL CONSERVATION COMMISSION
Albuquerque DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 4-13-77

RE: Proposed MC ☒
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 4-11-77
for the El Paso Natural Gas Co. Jicarilla 67 #18 I-19-25N-5W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

AR Kendrick

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form O-107
5-1-61

Operator El Paso Natural Gas Company		County Rio Arriba	Date April 11, 1977
Address P.O. Box 990, Farmington, N.M. 87401		Lease Jicarilla 67	Well No. 18
Location of Well I	Unit 19	Township 25 North	Range 5 West

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐
2. If answer is yes, identify one such instance: Order No. ☒ ; Operator Lease, and Well No.: ☒
*Re: NMOCC Memo #18-58

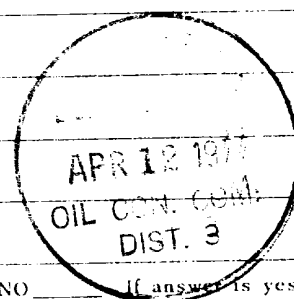
3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Pictured Cliffs		Chacra
b. Top and Bottom of Pay Section (Perforations)	2615 - 2700		3475 - 3655
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flow		Flow

4. The following are attached. (Please check YES or NO)

- | | | |
|---|-------------------------------------|---|
| Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

NONE



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☐ NO ☐ (If answer is yes, give date of such notification **N.A.**)

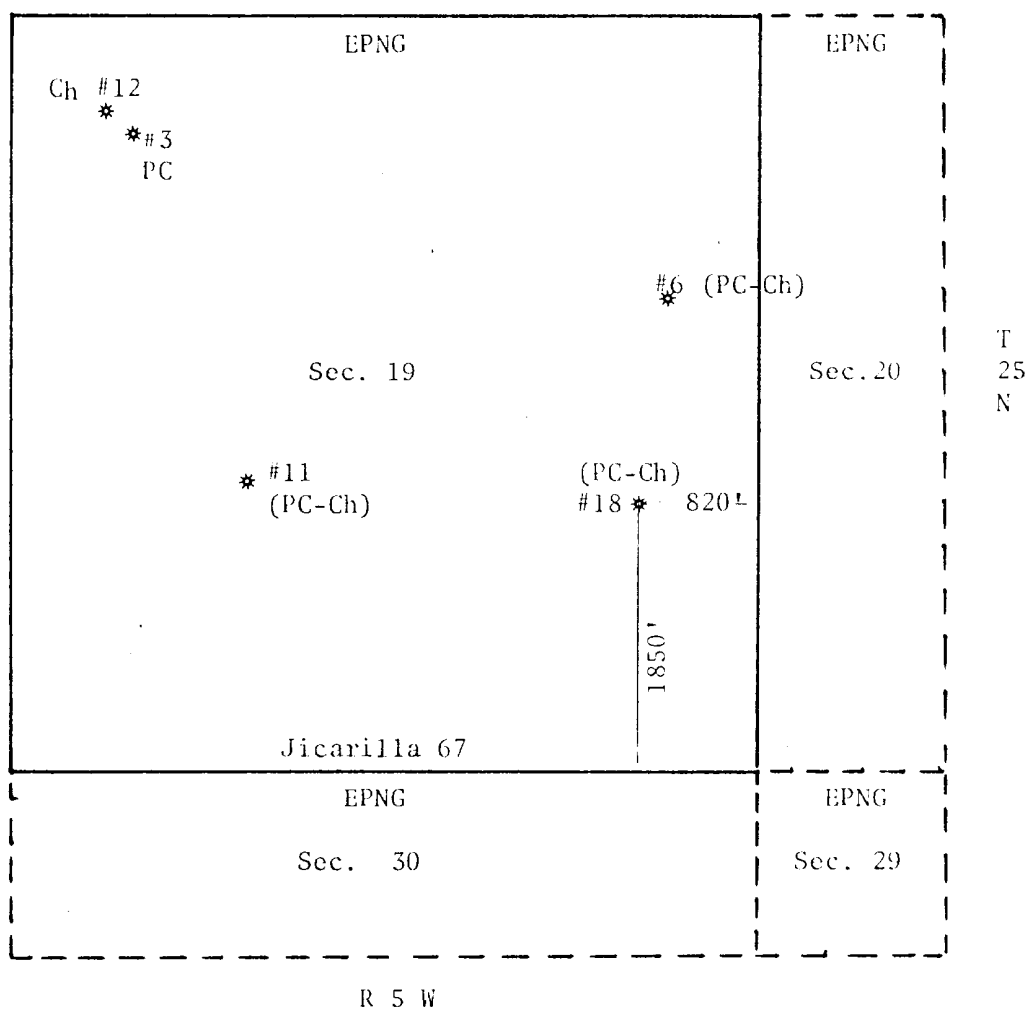
CERTIFICATE: I, the undersigned, state that I am the Div. Drilling Engineer of the El Paso Natural Gas Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Don Reed
Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Plat Showing Location of Intended Dual Completion (Tubingless)
 El Paso Natural Gas Company Jicarilla 67 #18 (PC-Ch) Well
 and Offset Acreage



EL PASO NATURAL GAS COMPANY

By A.L.S.

DATE

10

SCHEMATIC DIAGRAM OF INTENDED DUAL COMPLETION (Tubingless)

El Paso Natural Gas Company Jicarilla 67 #18 (PC-Ch)
SE/4 Section 19, T-25-N, R-5-W

