Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-039-22556

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
El Paso Exploration Company

3. ADDRESS OF OPERATOR
PO Box 289, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1075'N, 1685'W
At proposed prod. zone
same

5. LEASE DESIGNATION AND SERIAL NO.
Jic.Trib.Cont.#123

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla 123 C

9. WELL NO.
29

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec.5, T-25-N, R-4-W NMPM

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
16 miles northeast of Counselors, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1075'

16. NO. OF ACRES IN LEASE
2579.3

17. NO. OF ACRES ASSIGNED TO THIS WELL
W/ 322.04

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
300'

19. PROPOSED DEPTH
7835'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6887'GL

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
12 1/4"	8 5/8"	24.0#	200'	140 cu.ft. to circulate
7 7/8"	4 1/2"	10.5#	6500'	
7 7/8"	4 1/2"	11.6#	8150'	1137 cu.ft. - 3 stages

1st stage - 405 cu.ft. to cover Gallup
2nd stage - 424 cu.ft. to cover Mesa Verde
3rd stage - 308 cu.ft. to cover Ojo Alamo

This action is subject to administrative appeal pursuant to 30 CFR 290.

Selectively perforate and sandwater fracture the Dakota 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 W/2 of Section 5 is dedicated to this well.

RECEIVED
SEP 3 1980
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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 Peggy Bradfield TITLE Drilling Clerk DATE 8-2-80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
DEC 19 1980
/s/ Bruce Kennedy
JAMES F. SIMS
DISTRICT ENGINEER

RECEIVED
DEC 22 1980
OIL CON. COM.
DIST. 3

*See Instructions On Reverse Side

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

Operator	Lease	Well No.
EL PASO EXPLORATION COMPANY	(JICARILLA APACHE TRIBAL JICARILLA 123 "C" CONTRACT 123)	29

Unit Letter	Section	Township	Range	County
C	5	25N	4W	Rio Arriba

Actual Footage Location of Well:
1075 feet from the North line and 1685 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6887	DAKOTA	BASIN DAKOTA	321.04 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

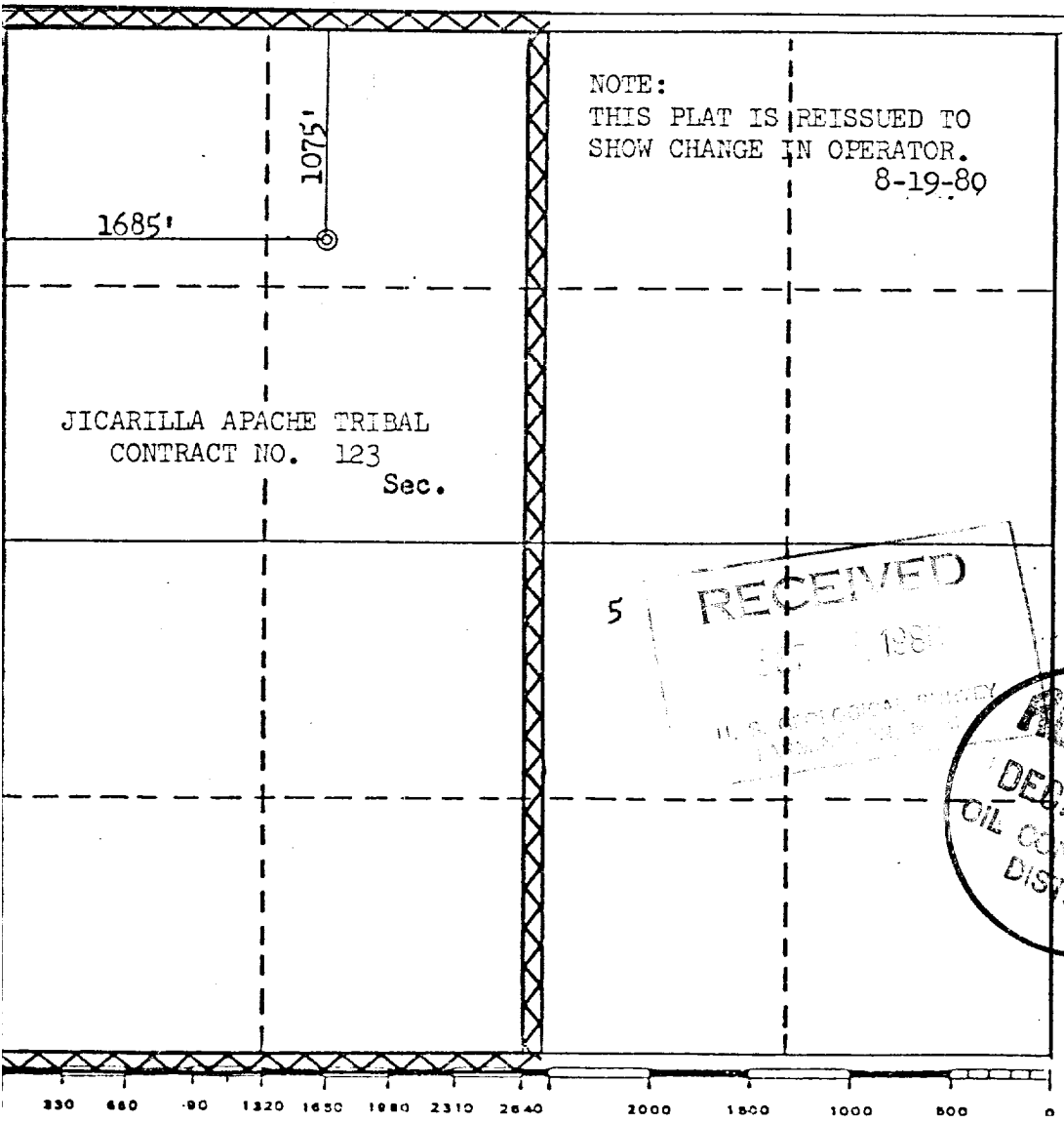
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 _____

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.

Name: El Paso Exploration

Position: Drilling Clerk

Company: September 2, 1980

Date:

I hereby certify that the well location shown on this plat was platted 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: August 8, 1980

Registered Professional Engineer and/or Land Surveyor: Fred B. Kerr

Certificate No. 3950

EL PASO NATURAL GAS COMPANY

Well Name Jicarilla 123 C #29

Location NW S 25-4

Formation DK

We, the undersigned, have inspected this location and road.

U. S. Forest Service — Date

Archaeologist — Date

Bureau of Indian Affairs Representative — Date 8-21-80

Bureau of Land Management Representative — Date

U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL. — Date 8/21/80

REASON:

Seed Mixture:

Equipment Color: Brown

Road and Row: (Same) or (Separate)

Remarks:

C.C. to Dave Vilvin
Earl Mealer
John Ahim

EL PASO EXPLORATION COMPANY

Multi-Point Surface Use Plan
Jicarilla 123 C #29

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 twenty feet (20') 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. 2.

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 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 Bull Pasture Water Hole.

6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.

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,

7. cont'd. 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. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.

11. Other Information - The terrain is canyon bottom with juniper and sage growing. Cattle, deer, sheep and horses are seen occasionally on the proposed project site.

12. Operator's Representative - W.D. Dawson, PO Box 990, Farmington, NM

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.

Don Read

D. R. Read
Project Drilling Engineer

Operations Plan
Jicarilla 123 C #29

I. Location: 1075'N, 1685'W, Section 5, T-25-N, R-4-W, Rio Arriba Co., NM

Field: Basin Dakota Elevation: 6887'GL

II. Geology:

A. Formation Tops:

Surface	San Jose	Menefee	5080'
Ojo Alamo	2845'	Pt.Lookout	5500'
Kirtland	2990'	Gallup	6565'
Fruitland	3190'	Greenhorn	7440'
Pic.Cliffs	3320'	Graneros	7497'
Lewis	3420'	Dakota	7650'
Mesa Verde	5005'	Total Depth	7835'

B. Logging Program: Induction Electric and Gamma Ray Density at TD.

C. Coring: none

III. Drilling:

A. Mud Program: mud from surface to Total Depth.

IV. Materials:

A. Casing Program:

Hole Size	Depth	Csg.Size	Wt.&Grade
12 1/4"	200'	8 5/8"	24.0# K-55
7 7/8"	6500'	4 1/2"	10.5# K-55
7 7/8"	7835'	4 1/2"	11.6# K-55

B. Float Equipment: 8 5/8" surface casing - cement guide shoe

4 1/2" production casing - guide shoe and self-fill insert valve. Two multiple stage cementers equipped for three stage cementing. Set tool for second stage at 6100'' and tool for third stage at 3520''. Run 20 centralizers spaced as follows: one on each of the bottom 8 joints, one below each stage tool, and five above each stage tool spaced every other joint.

C. Tubing: 7835'' of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple and expendable check valve with drill type guide.

D. Wellhead Equipment: 8" 2000 x 8 5/8" casing head with 8" x 4 1/2" casing hanger, 8" 2000 x 6" 2000 xmas tree.

V. Cementing:

Surface casing (12 1/4" x 8 5/8") - use 140 sks. Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (165 cu.ft. of slurry, 100% excess to circulate). WOC 12 hours. Test to 600#/30 min.

Operations Plan - Jicarilla 123 C #29

V. Cementing, cont'd.

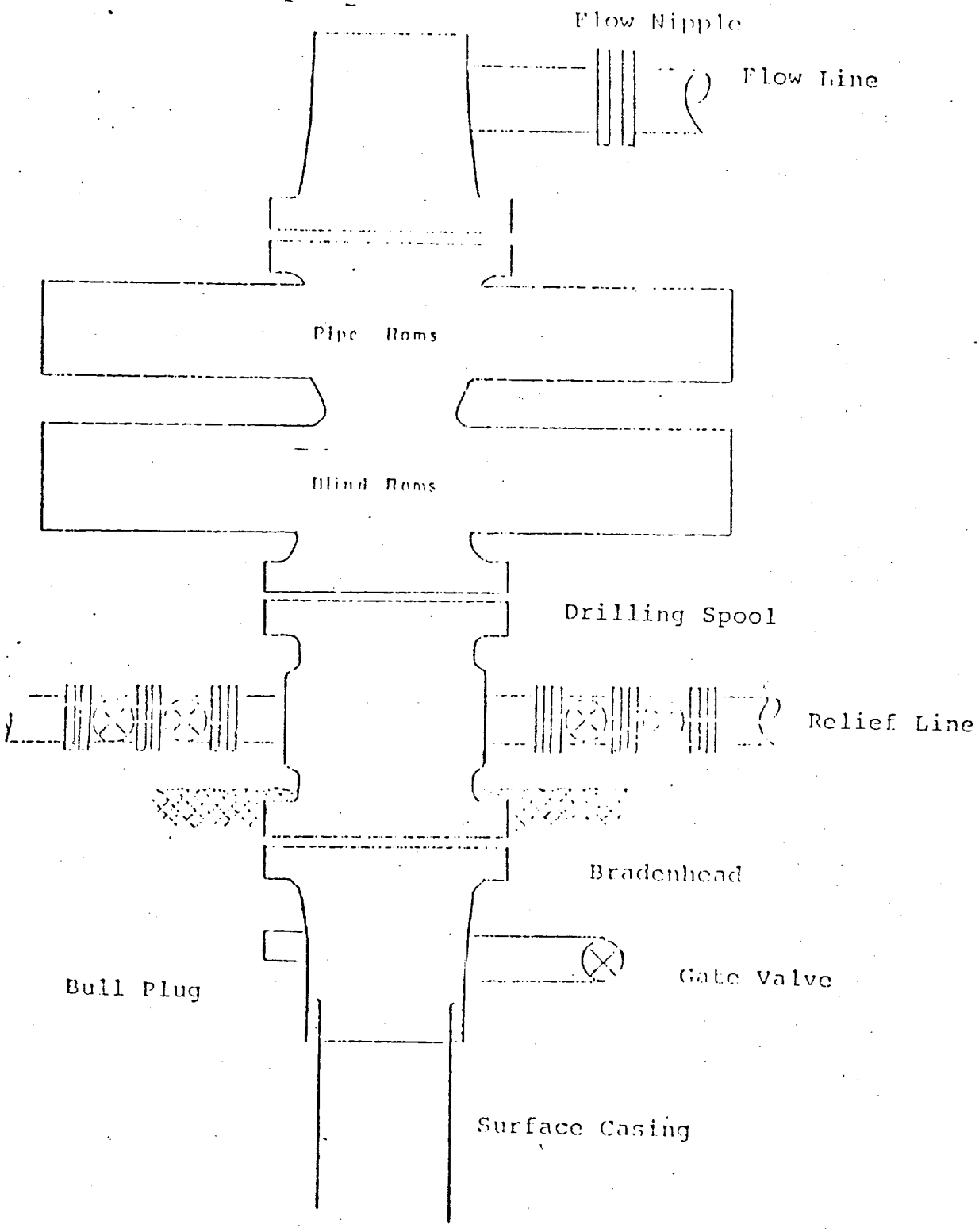
Production casing (7 7/8" x 4 1/2")

First stage - use 172 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 100 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (405 cu.ft. of slurry, 40% excess to cover the Gallup).

Second stage - circulate mud for 2.5 hours, then cement with 262 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons water per sack (424 cu.ft. of slurry, 70% excess to cover the Mesa Verde).

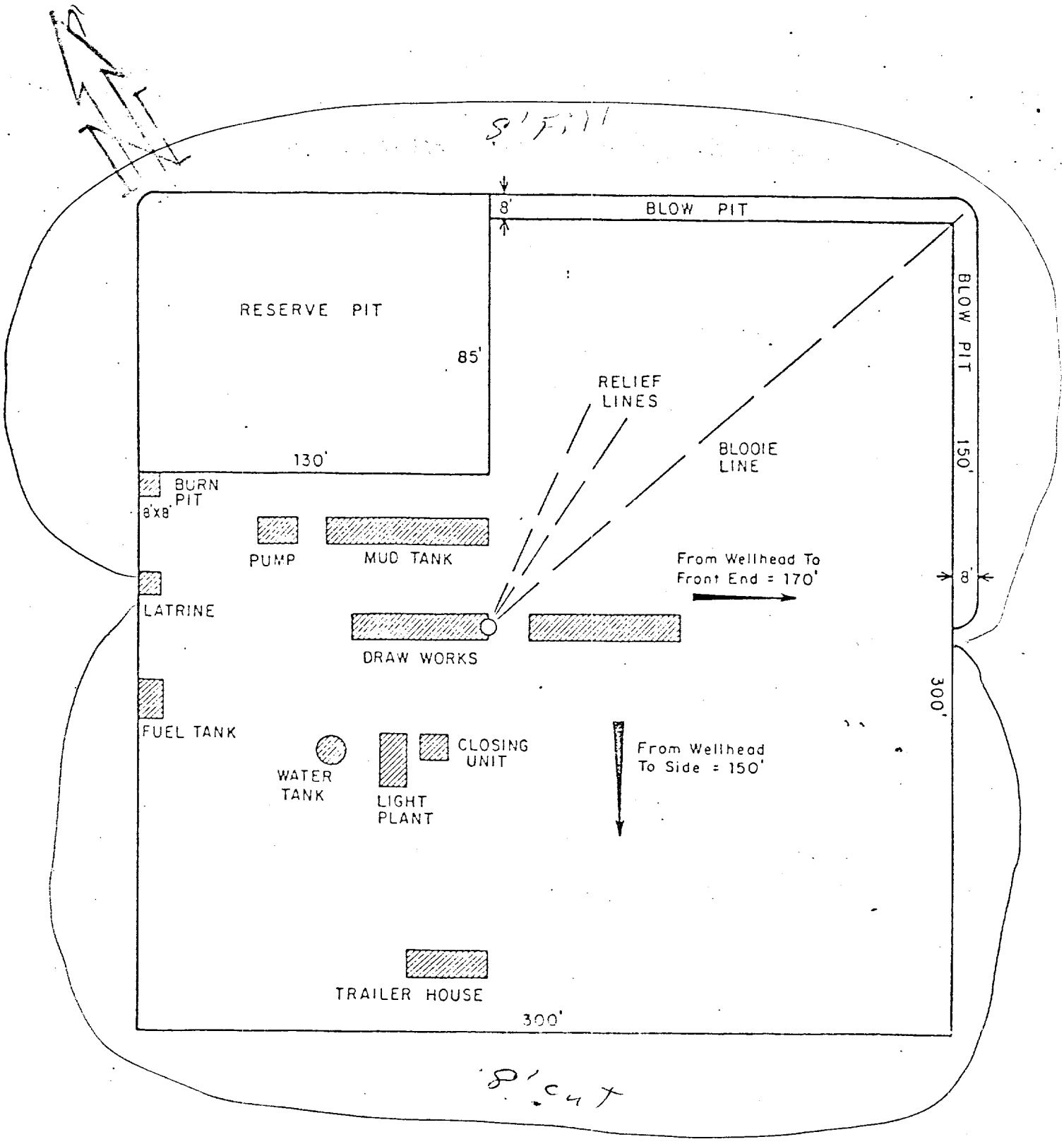
Third stage - circulate mud for 2.5 hours, then cement using 190 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (308 cu.ft. of slurry, 100% excess to fill to base of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.

Typical B.O.P. Installation
for Dakota Well



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

When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



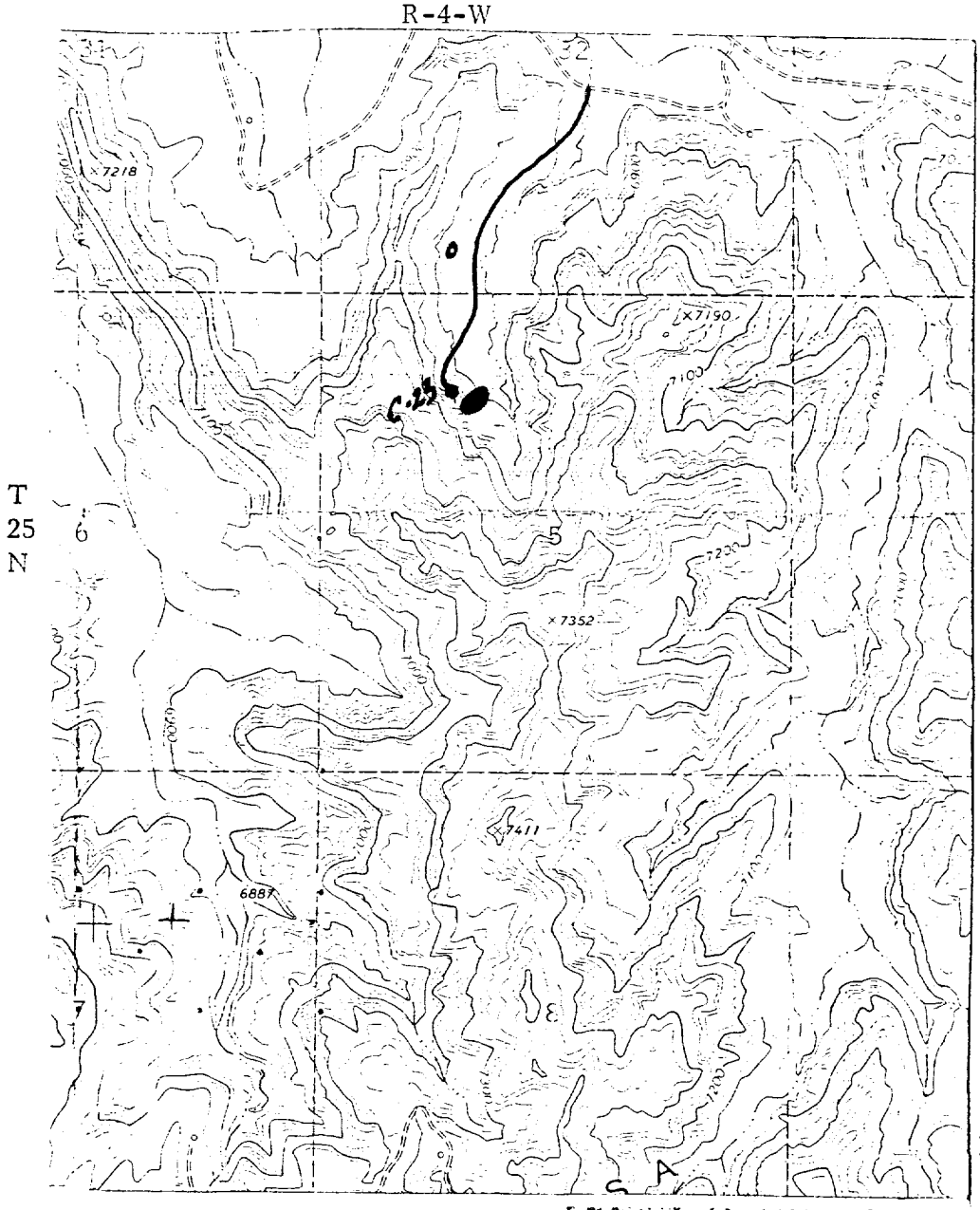
PRT.	SEP.	DATE	TO	W.O.

ENG. REC.	DATE
DRAWN J.L.H.	8-16-78
CHECKED	
CHECKED	
PROJ. APP.	
DESIGN	

El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR
MESAVERDE OR DAKOTA DRILL SITE

EL PASO EXPLORATION COMPANY
Jicarilla 123C #29
NW 5-25-4

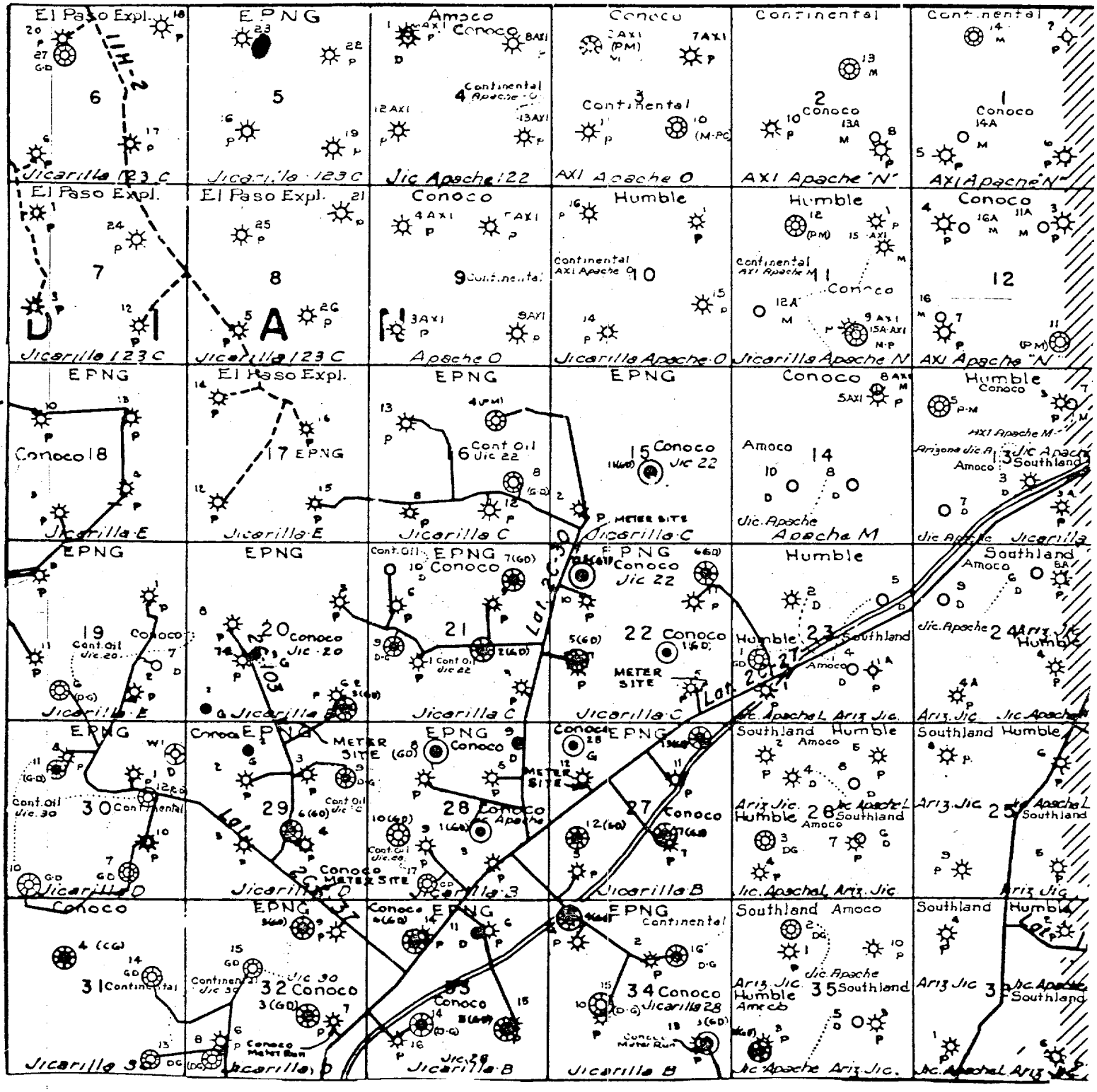


MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS
EXISTING PIPELINES
EXISTING ROAD & PIPELINE
PROPOSED ROADS
PROPOSED PIPELINES
PROPOSED ROAD & PIPELINE

EL PASO EXPLORATION COMPANY
Jicarilla 123C #29
NW 5-25-4



MAP #2

● Proposed Location