

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-038-22071  
5. LEASE DESIGNATION AND SERIAL NO.

Jic. Cont. #123

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Jicarilla 123 C

9. WELL NO.  
27

10. FIELD AND POOL, OR WILDCAT  
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 6, T-25-N, R-4-W  
NMPM

12. COUNTY OR PARISH | 13. STATE  
Rio Arriba | NM

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  
Northwest Production Corporation

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 1540'N, 1670'W  
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
16 miles North of Lindrith, NM

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1540'

16. NO. OF ACRES IN LEASE 2579.3

17. NO. OF ACRES ASSIGNED TO THIS WELL 325.75

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 500'

19. PROPOSED DEPTH 7695'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6787'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
13 3/4"	9 5/8"	32.3#	200'	224 cu.ft. to circulate
7 7/8"	4 1/2"	10.5# & 11.6#	7695'	1284 cu.ft. - 3 stages

1st stage - 361 cu.ft. to cover Gallup  
2nd stage - 526 cu.ft. to cover Mesa Verde  
3rd stage - 397 cu.ft. to cover Ojo Alamo

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 N/2 of Section 6 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 N. G. Buisco TITLE Drilling Clerk DATE 5-30-79

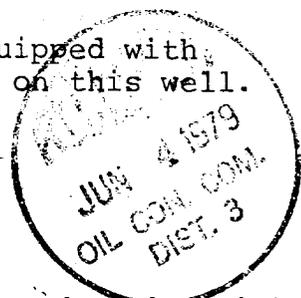
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:  
ok Frank

Smith



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

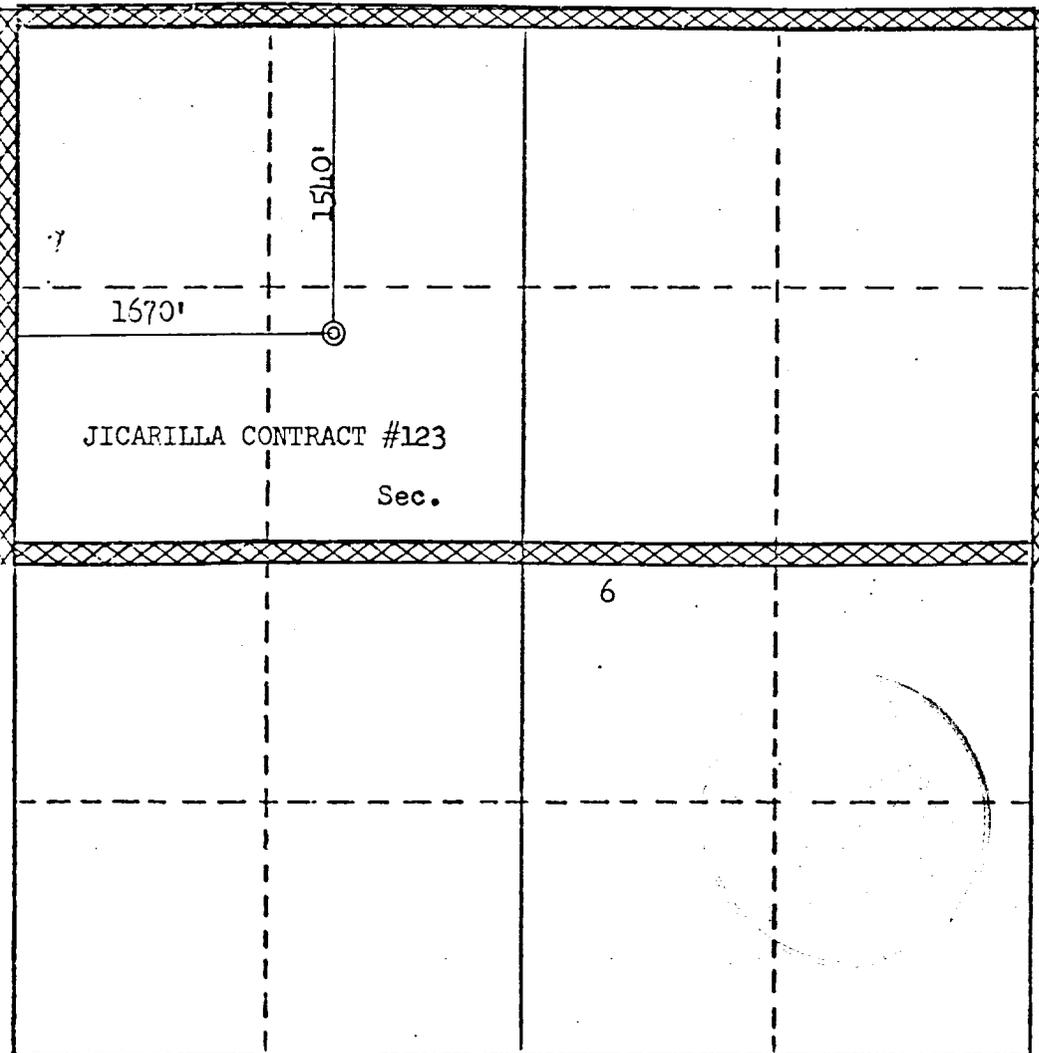
Operator <b>NORTHWEST PRODUCTION CORPORATION</b>		Lease <b>JICARILLA 123 "C" ( JICARILLA CONTRACT #123)</b>		Well No. <b>27</b>
Unit Letter <b>F</b>	Section <b>6</b>	Township <b>25N</b>	Range <b>4W</b>	County <b>Rio Arriba</b>
Actual Footage Location of Well: <b>1540</b> feet from the <b>North</b> line and <b>1670</b> feet from the <b>West</b> line				
Ground Level Elev. <b>6787</b>	Producing Formation <b>Dakota</b>	Pool <b>Basin Dakota</b> ✓	Dedicated Acreage: <b>325.75</b> ✓ 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 Division.



CERTIFICATION

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

*D. P. Busco*

Name

Drilling Clerk

Position

Northwest Production Corp

Company

5-30-79

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

May 3, 1979

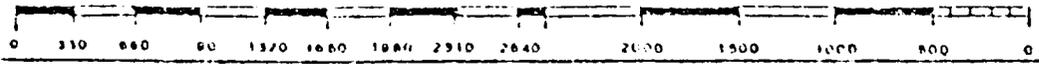
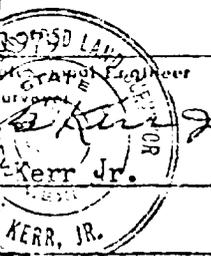
Registered State Surveyor and/or Land Surveyor

*Fred B. Kerr Jr.*

Fred B. Kerr Jr.

Certificate No.

3950



NORTHWEST PRODUCTION CORPORATION

Multi-Point Surface Use Plan

Jicarilla 123 C #27

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 Jicarilla Tapacito 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 reseeded operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeded 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 sagebrush flats with sagebrush growing. Deer and cattle are occasionally seen 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.

*L. A. Aimes*

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L. A. Aimes  
Project Drilling Engineer

May 30, 1979

Operations Plan - Jicarilla 123 C #27

I. Location: 1540'N, 1670'W, Section 6, T-25-N, R-4-W, Rio Arriba County, NM

Field: Basin Dakota

Elevation: 6787'GL

II. Geology:

A. Formation Tops:	Surface	San Jose	Menefee	4957'
	Ojo Alamo	2727'	Point Lookout	5415'
	Kirtland	2885'	Gallup	6444'
	Fruitland	3050'	Greenhorn	7315'
	Pic.Cliffs	3207'	Graneros	7372'
	Lewis	3335'	Dakota	7495'
	Mesa Verde	4880'	Total Depth	7695'

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

C. Coring: none

D. Samples: none

III. Drilling:

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

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Csg.Size</u>	<u>Wt.&amp;Grade</u>
	13 3/4"	200'	9 5/8"	32.3# H-40
	8 3/4"	6115'	4 1/2"	10.5# J-55
	7 7/8"	6500'	4 1/2"	10.5# J-55
	7 7/8"	7695'	4 1/2"	11.6# J-55

B. Float Equipment: 9 5/8" surface casing - B&W guide shoe  
(Prod. No. FC 06-09611-0200)

4 1/2" production casing - Howco guide shoe and self-fill insert valve. Two Howco multiple stage cementers equipped for three stage cementing. Set tool for second stage at 6015' and tool for third stage at 3535'. Run 20 Howco 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: 7695' of 2 3/8", 4.7#, J-55 tubing with a common pump seating nipple and an expendable check valve with drill type guide.

D. Wellhead Equipment: 10" 3000 x 9 5/8" WKM Brewster Type R casing head with 10" x 4 1/2" Type SA casing hanger, 10" 3000 x 6" 3000 Brewster xmas tree (Dwg. #1-004-78). Wellhead representative to set all slips.

Operations Plan - Jicarilla 123 C #27

V. Cementing:

Surface casing (13 3/4" x 9 5/8") - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate). WOC 12 hours. Test to 600#/30 min.

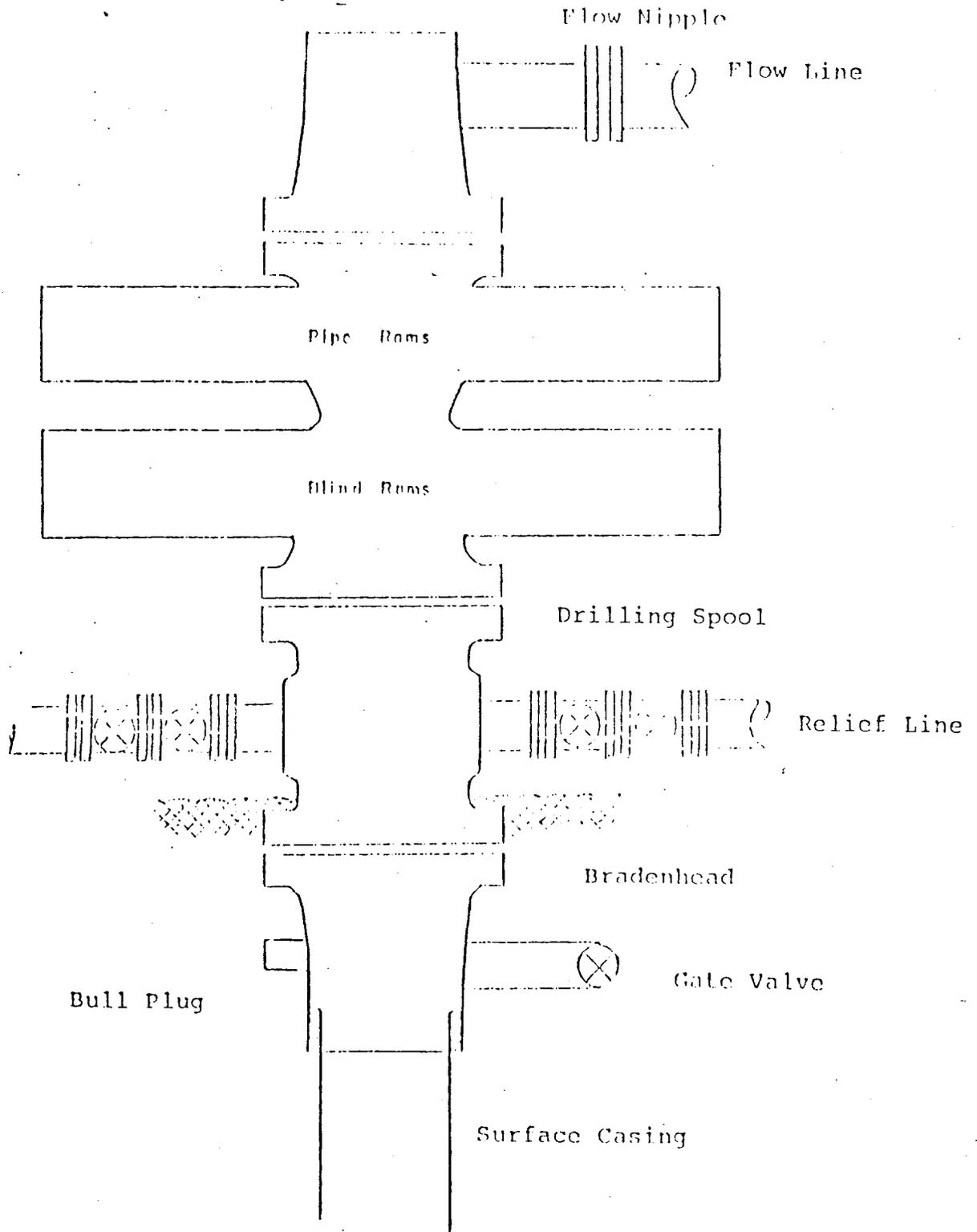
Production casing -

First stage (4 1/2" x 7 7/8") - use 145 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. (361 cu.ft. of slurry, 25% excess to cover the Gallup).

Second stage (4 1/2" x 8 3/4") - circulate mud for 2 hours, then cement with 325 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (526 cu.ft. of slurry, 50% excess to cover the Mesa Verde).

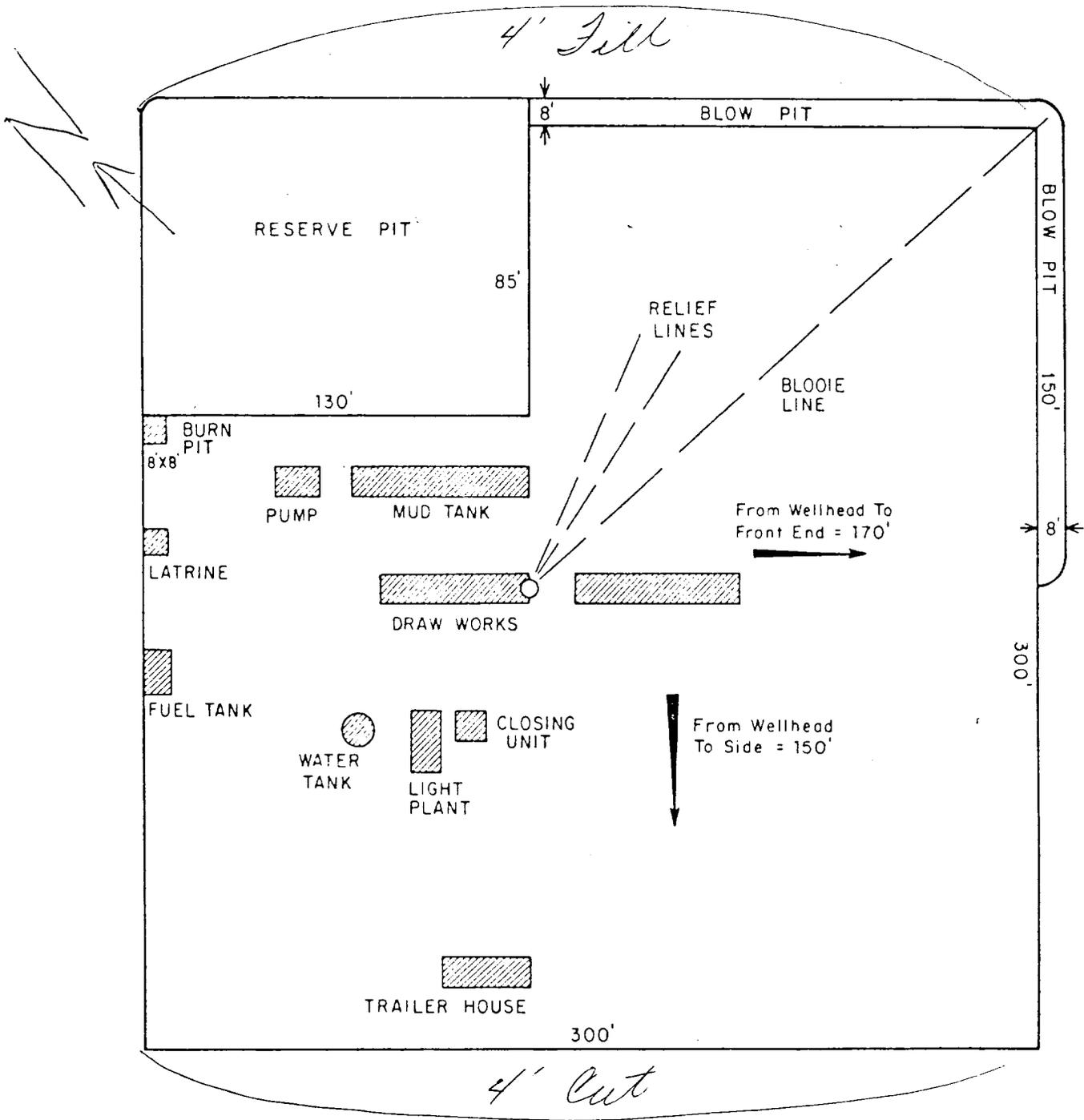
Third stage (4 1/2" x 8 3/4") - circulate mud for 2 hours, then cement using 245 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (397 cu.ft. of slurry, 60% excess to cover the Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 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.

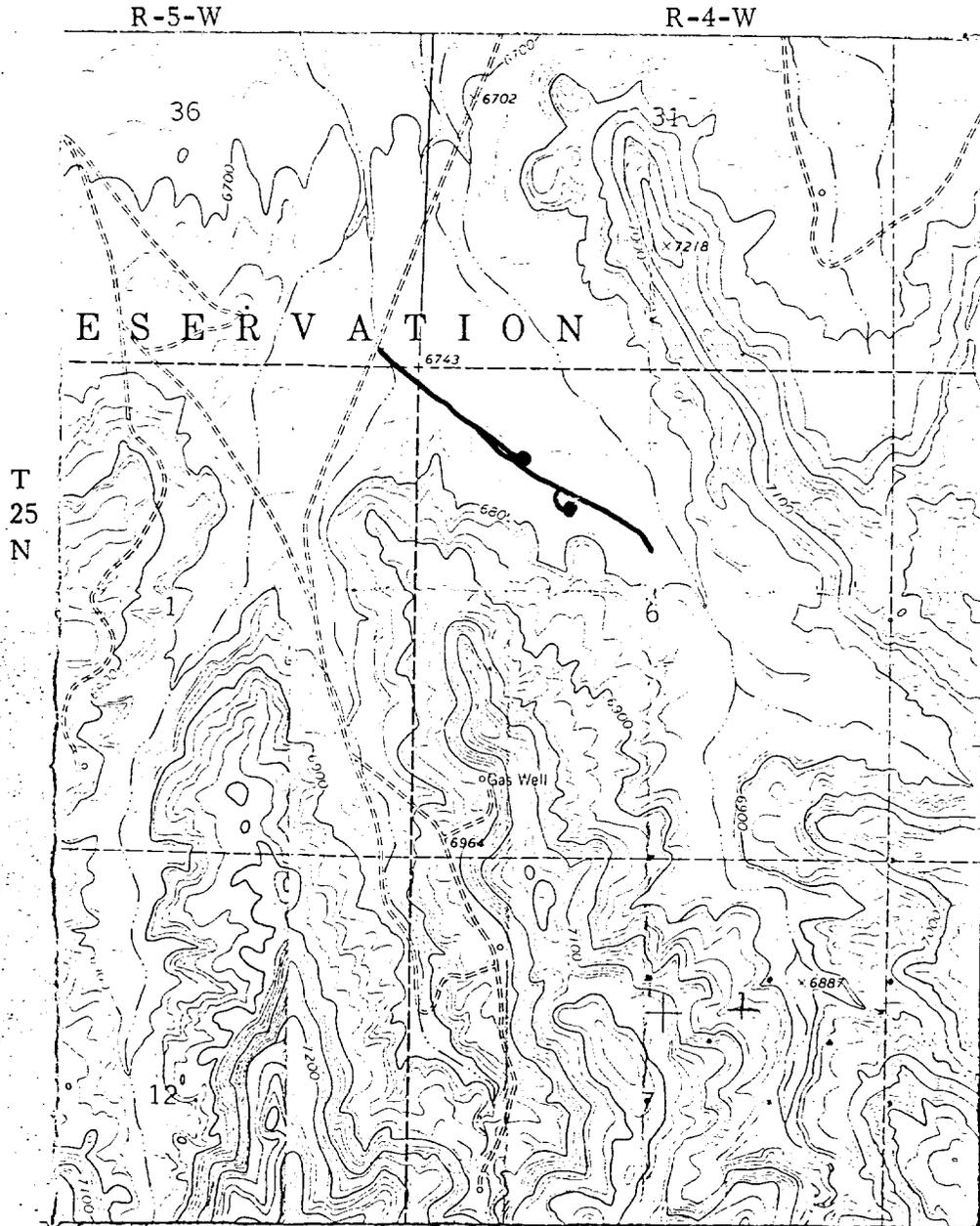
PRINT RECORD

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


**El Paso Natural Gas Company**  
**TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE**

SCALE: 1" = 50'      DWG. NO.      REV

NORTHWEST PRODUCTION CORPORATION  
Jicarilla 123C #27  
NW 6-25-4



MAP #1

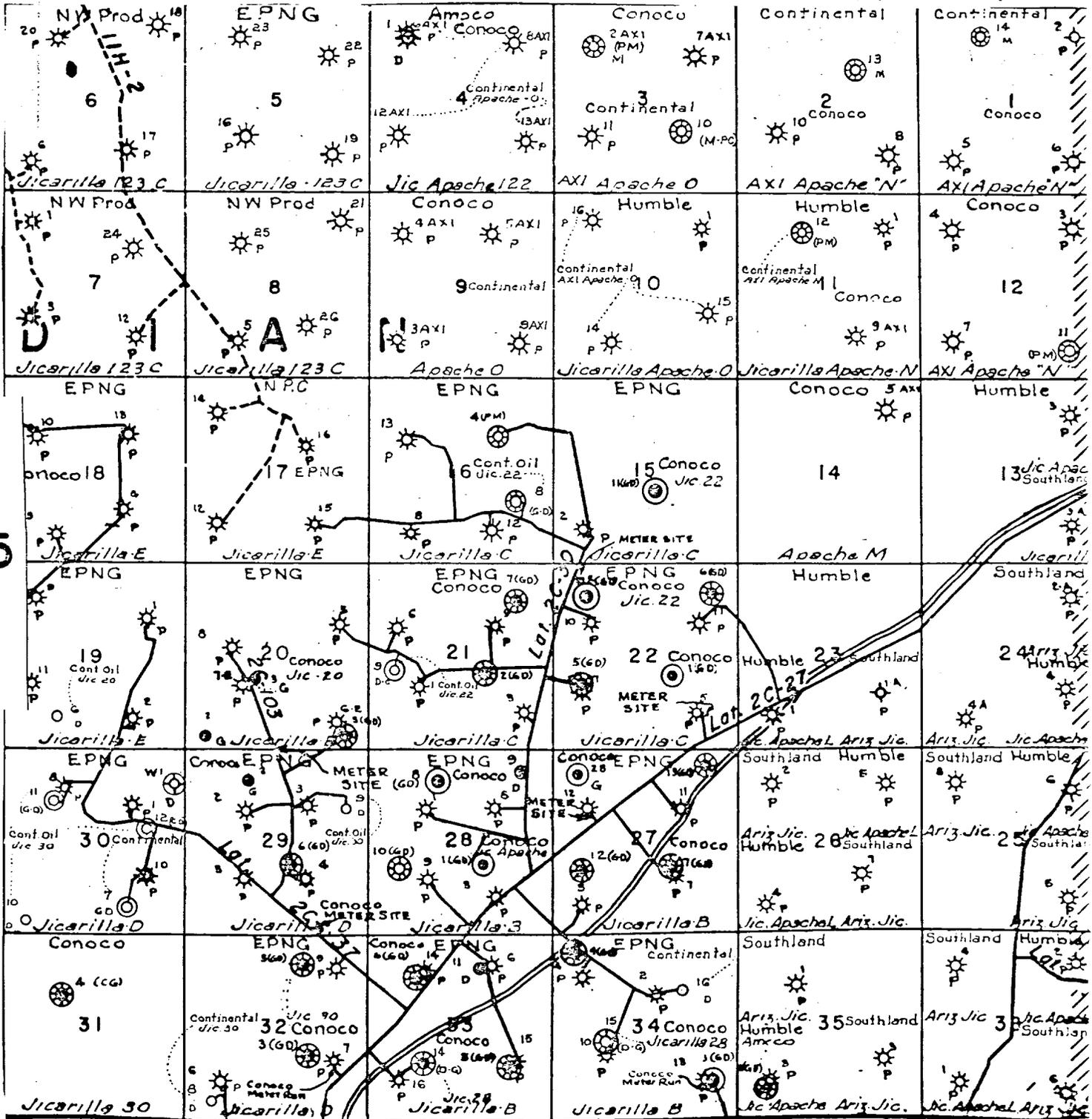
LEGEND OF RIGHT-OF-WAYS

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

NORTHWEST PRODUCTION CORPORATION  
 Jicarilla 123C #27  
 NW 6-25-4

R-4-W

T  
25  
N



MAP #2

Proposed Location ●