

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-21398

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐

5. LEASE DESIGNATION AND SERIAL NO.
SF 078884

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Canyon Largo Unit

8. FARM OR LEASE NAME

Canyon Largo Unit

9. WELL NO.

281

10. FIELD AND POOL, OR WILDCAT
So. Blanco Pic. Cliffs
Otero Chacra *ext*

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 15, T-25-N, R-6-W

12. COUNTY OR PARISH 13. STATE

Rio Arriba NM

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

1180'N, 1840'W

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

160.00

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

19. PROPOSED DEPTH

3690'

20. ROTARY OR CABLE TOOLS

Rotary

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

6650'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#	120'	142 cu.ft. to circulate
8 3/4"	2 7/8"	6.4#	2830'	456 cu.ft. to cover Ojo Alam
6 3/4"	2 7/8"	6.4#	3690'	274 cu.ft. to cover Lewis

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

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 NW/4 of Section 15 is dedicated to this well.

APR 27 1977
OIL COM. COM.
DIST. 3

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. Duce TITLE Drilling Clerk DATE April 25, 1977

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

OK

**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.

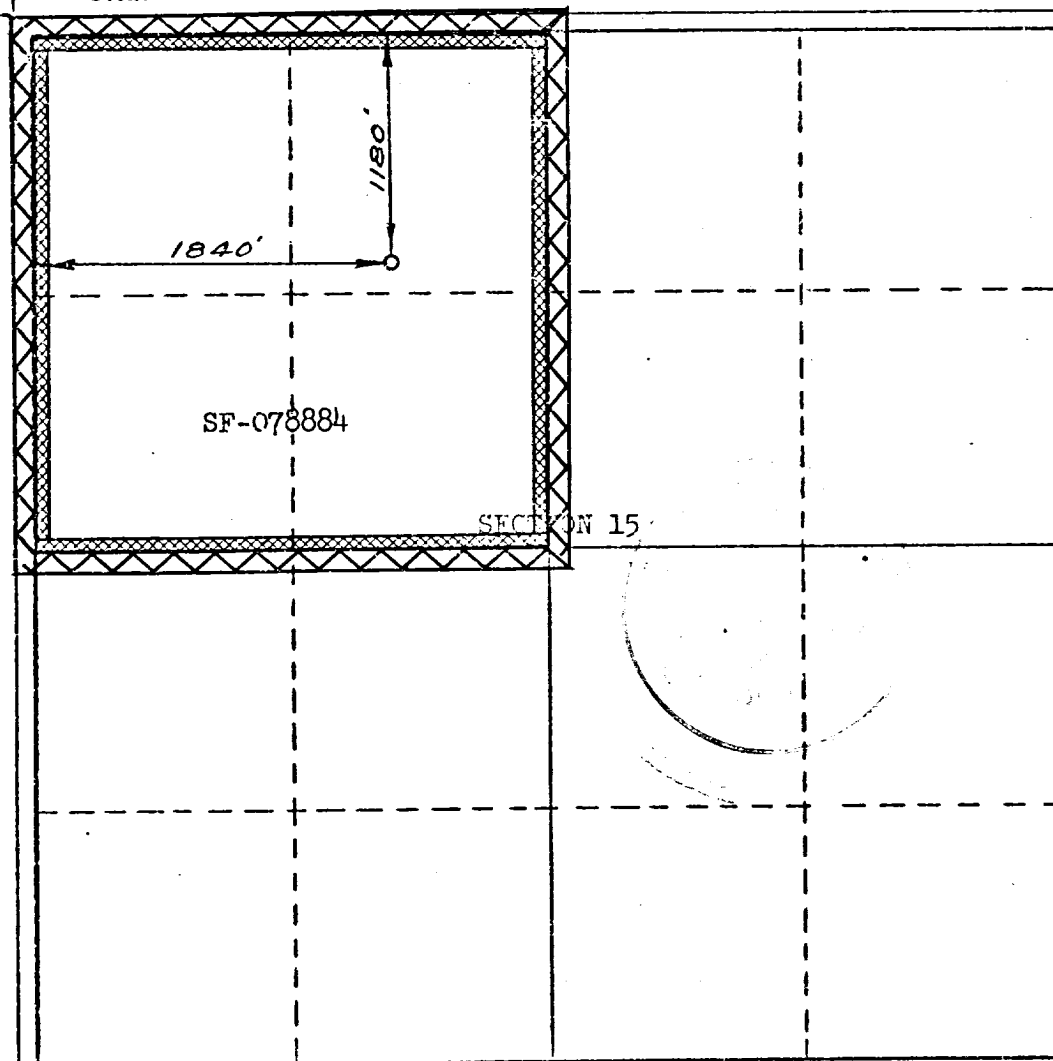
Operator EL PASO NATURAL GAS COMPANY			Lease CANYON LARGO UNIT (SF-078884)		Well No. 281
Unit Letter C	Section 15	Township 25-N	Range 6-W	County RIO ARriba	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 1180 feet from the NORTH line and 1840 feet from the WEST line </div>					
Ground Level Elev. 6650	Producing Formation PICTURED CLIFFS-CHACRA	Pool SO. BLANCO PICTURED CLIFFS OTERO CHACRA		Dedicated Acreage: 160.00 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.

Original Signed by

Name **D. G. Brisco**

Position _____

Company _____

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
JANUARY 16, 1975

Registered Professional Engineer
and/or Land Surveyor

[Signature]

Certificate No. **1760**

Multi-Point Surface Use Plan
Canyon Largo Unit #281


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 a water hole located at the 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.

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. Seed Mixture #1 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 green (Federal Standard #595 34127)
11. Other Information - The terrain is sandstone ledges and sagebrush flats. Sagebrush and cedar trees grow on the site. Cattle graze 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.

April 25, 1977



D. R. Read
Division Drilling Engineer

DRR:pb

April 25, 1977

Operations Plan - Canyon Largo Unit #281

I. Location: 1180'N, 1840'W, Section 15, T-25-N, R-6-W, Rio Arriba County, NM

Field: So. Blanco Pic. Cliffs & Otero Chacra

Elevation: 6660' DF

II. Geology:

A. Formation Tops:	Surface	San Jose Lewis	2790'
	Ojo Alamo	1900' Chacra	3495'
	Kirtland	2215' Total Depth	3690'
	Fruitland	2440'	
	Pic. Cliffs	2670'	

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 total depth.

IV. Materials:

A. Casing Program:	<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"	2830'	2 7/8"	6.4# J-55
	6 3/4"	3690'	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 contactor head. Run 7 centralizers, one on each of the bottom 7 joints.

Pictured Cliffs - all collars bevelled, 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" mandrels.

Operations Plan - Canyon Largo Unit #281

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 hours. Test casing to 600#/30 minutes.

2 7/8" production casing -

Pictured Cliffs - use 151 sks. of 65/35 Class "B" Pozmix with 12% gel followed by 50 sks. Class "C" neat cement (456 cu.ft. of slurry, 50% excess to cover the Ojo Alamo). Spot 50 gallons of 7 1/2% acid on top of plug.

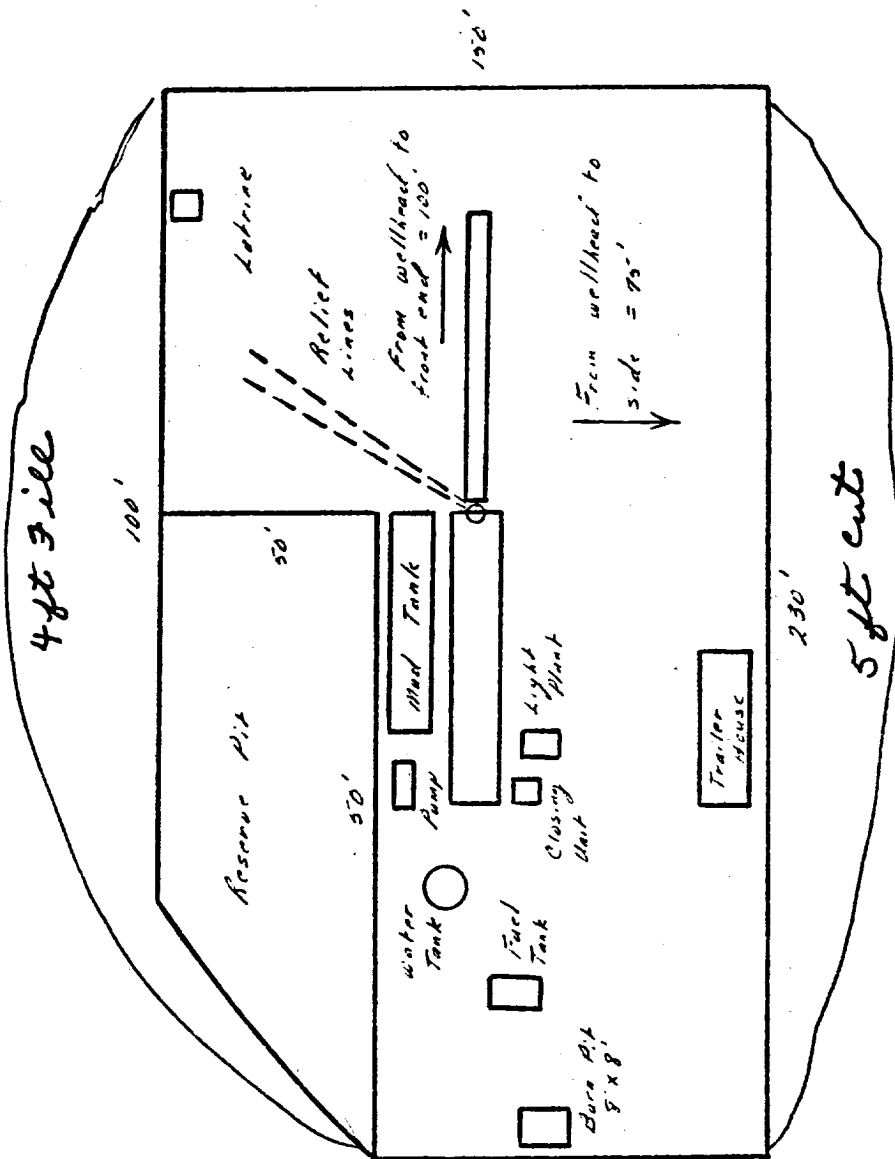
Chacra - use 73 sks. of 65/35 Class "B" Pozmix cement with 12% gel followed by 70 sks. of Class "C" neat cement (274 cu.ft. of slurry, 50% excess to cover the top of the Lewis). Spot 50 gallons of 7 1/2% acetic acid on top of plugs. Run temperature survey in Chacra after 12 hours. Check total depth in Pictured Cliffs string. WOC 18 hours.

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

DRR:pb

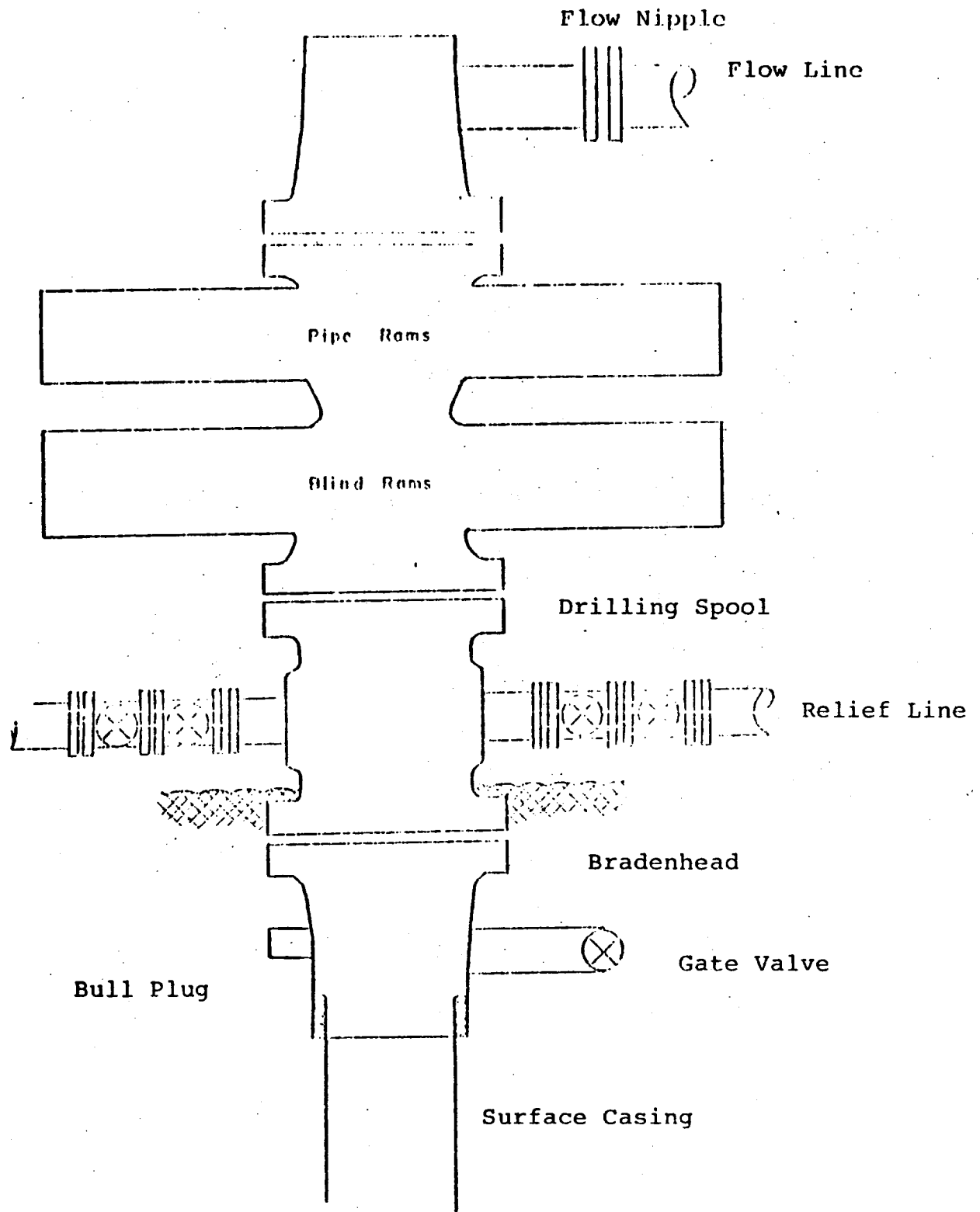
NORTH
↑

El Paso Natural Gas Company
Typical Location Plot for Pictured Cliffs Well



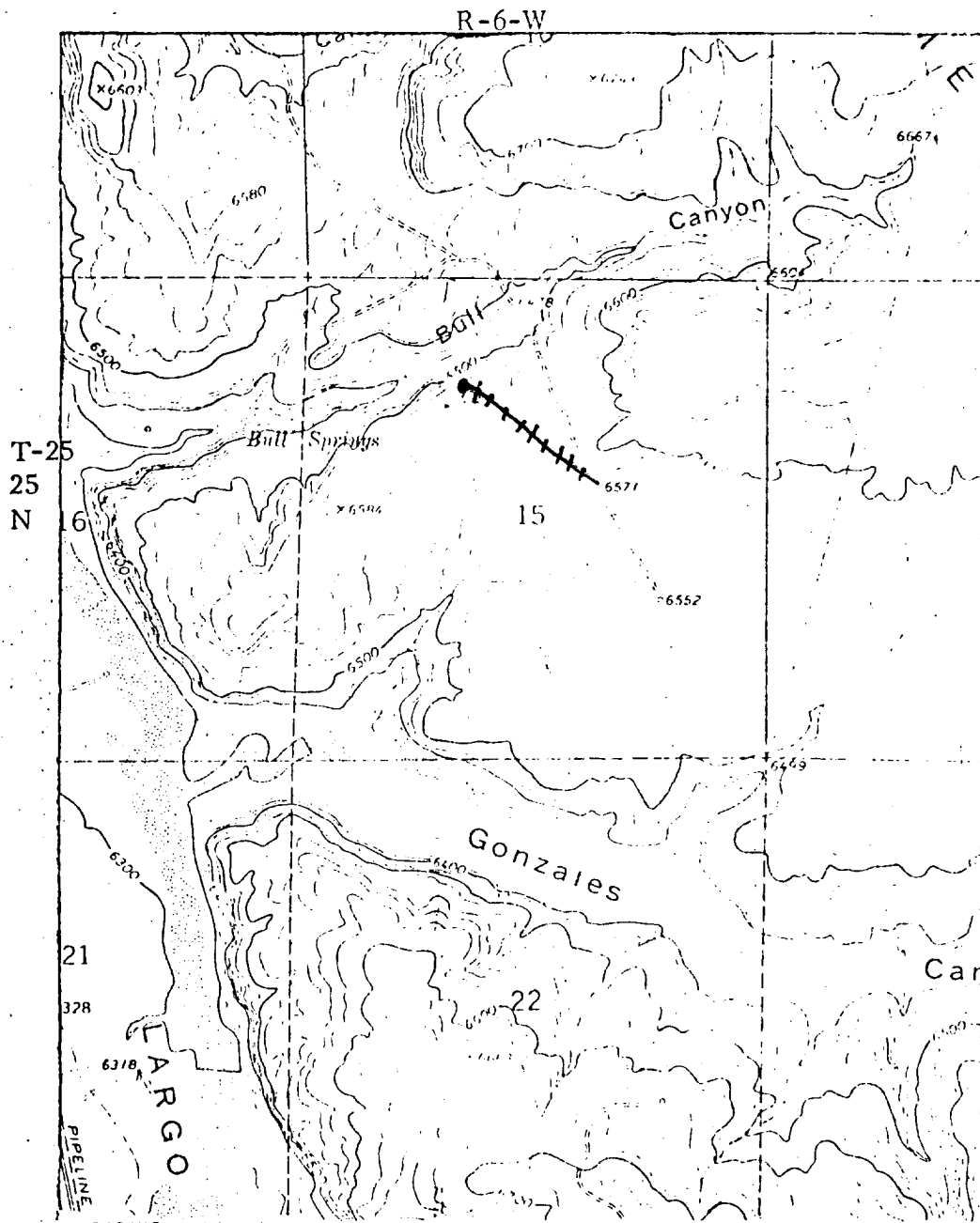
Scale: $\frac{1}{2}$ " = 20'

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



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

NW 15-25-6



MAP - #1

LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS

EXISTING PIPELINES

EXISTING ROAD & PIPELINE

PROPOSED ROADS

PROPOSED PIPELINES

PROPOSED ROAD & PIPELINE

RGW

