

22. APPROX. DATE WORK WILL START*

***See Instructions On Reverse Side**

State

All distances must be from the outer boundaries of the Section

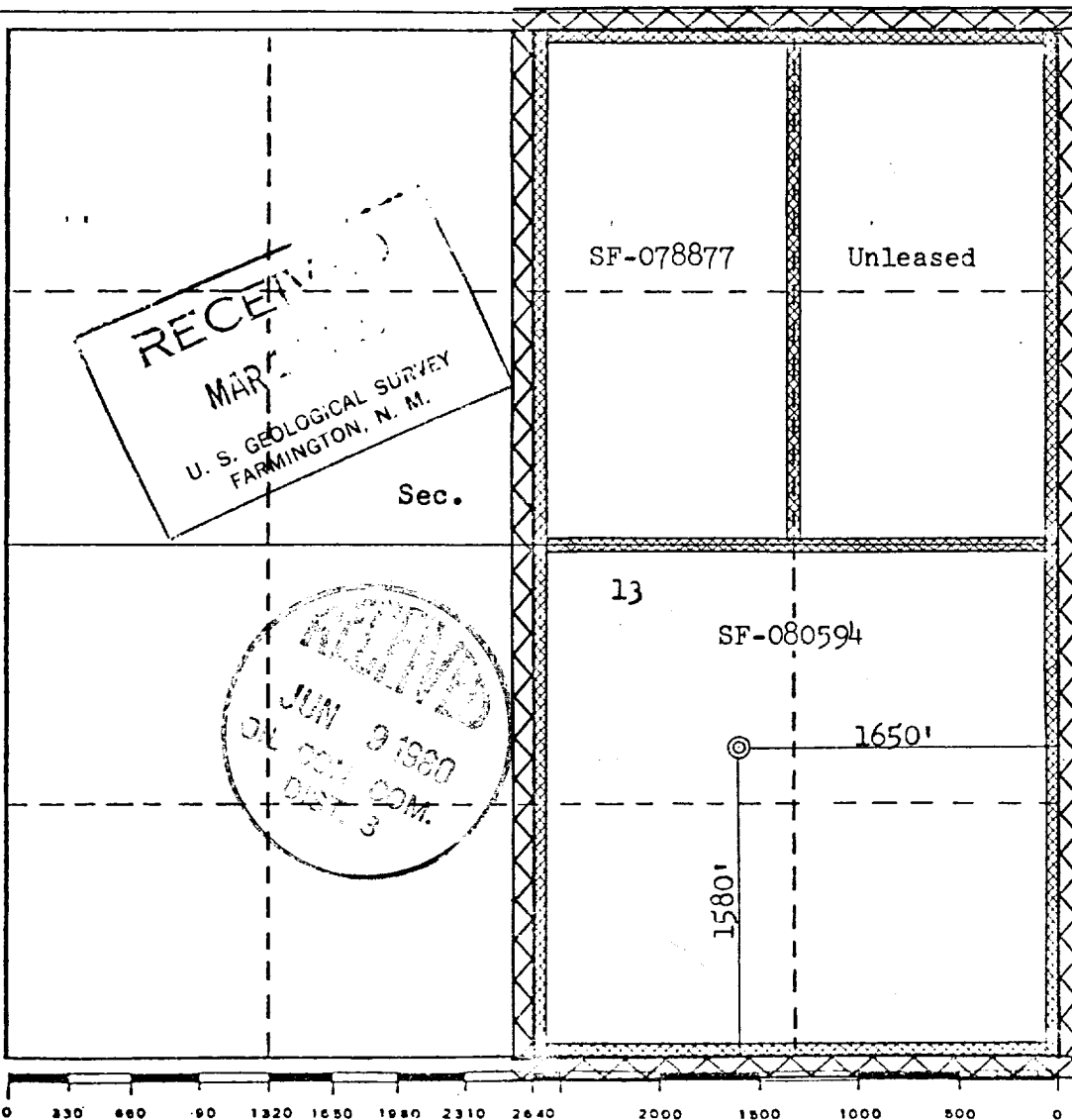
Operator EL PASO NATURAL GAS COMPANY			Lease CANYON LARGO UNIT (SF-080594)		Well No. 297
Unit Letter J	Section 13	Township 24N	Range 6W	County Rio Arriba	
Actual Footage Location of Well: 1580 feet from the South line and 1650 feet from the East line					
Ground Level Elev. 6567	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320.00 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Name

Drilling Clerk
PositionEl Paso Natural Gas Co.
CompanyMarch 7, 1980
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, 1980

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. FRED B. KERR

3950

El Paso NATURAL GAS
COMPANY

P.O. BOX 900
ALBUQUERQUE, NEW MEXICO 87101
PHONE (505) 263-2341

Well Name Canyon Largo Unit #297
Location SE 13 24-6
Formation DK

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

U. S. Forest Service
Dabney Ford
Archaeologist

Date
2/26/80
Date

Bureau of Indian Affairs Representative
R. W. Maul
Bureau of Land Management Representative

Date
2/26/80
Date

Andy Stump
U. S. Geological Survey Representative - AGREES
TO THE FOOTAGE LOCATION OF THIS WELL.
REASON:

2/26/80
Date

Seed Mixture: I

Equipment Color: Brown

Road and Row: (Same) or (Separate)

Remarks: _____

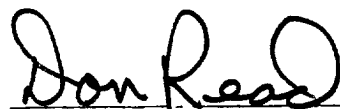
C.C. to Dave Vilvin
Earl Mealer
John Ahim

Multi-Point Surface Use Plan

Canyon Largo Unit #297

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 BLM Canyon Largo 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 sagebrush flats with pinon, sage and juniper growing. Cattle and deer 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.



D. R. Read
Project Drilling Engineer

Operations Plan - Canyon Largo Unit #297

I. Location: 1580'S, 1650'E, Section 13, T-24-N, R-6-W, Rio Arriba County, NM

Field: Basin Dakota

Elevation: 6577'GR

II. Geology:

A. Formation Tops:	Surface	San Jose	Menefee	3763'
	Ojo Alamo	1608'	Point Lookout	4338'
	Kirtland	1710'	Gallup	5432'
	Fruitland	1978'	Greenhorn	6371'
	Pic.Cliffs	2153'	Graneros	6427'
	Lewis	2384'	Dakota	6570'
	Mesa Verde	3676'	Total Depth	6787'

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:	<u>Hole Size</u>	<u>Depth</u>	<u>Csg.Size</u>	<u>Wt.&Grade</u>
	12 1/4"	200'	8 5/8"	24.0# K-55
	8 3/4"	2584'	4 1/2"	10.5# K-55
	7 7/8"	6500'	4 1/2"	10.5# K-55
	7 7/8"	6787'	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 4938' and tool for third stage at 2484'. 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: 6787' of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple and Baker expendable check valve with drill type guide.

D. Wellhead Equipment: 9 5/8" x 10" 3000 casing head with 4 1/2" casing hanger, 10" 3000 x 6" 3000 xmas tree with 2 3/8" tubing hanger. Wellhead representative to set all slips and cut off casing.

V. Cementing:

Surface casing (12 1/4" x 8 5/8") - use 140 sks. of 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 - Canyon Largo Unit #297

V. Cementing, cont'd.

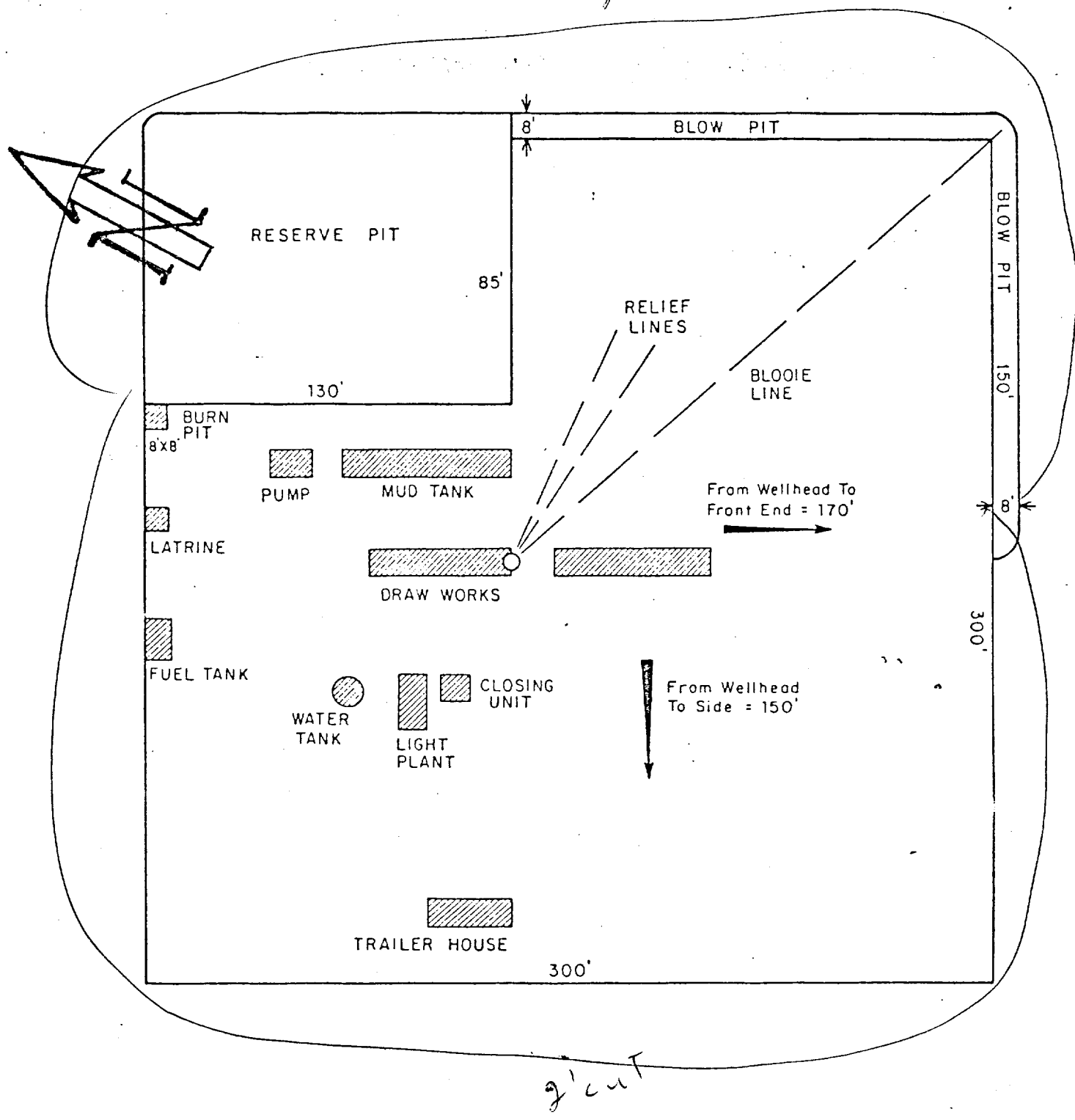
Production casing - (8 3/4" & 7 7/8" x 4 1/2")

First stage - use 208 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. (463 cu.ft. of slurry, 50% excess to cover the Gallup).


Second stage - circulate mud for 2.5 hours, then cement with 284 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (460 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

Third stage - circulate mud for 2.5 hours, then cement using 266 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (430 cu.ft. of slurry, 60% excess to fill to top of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.

2' F.I.I



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.																			

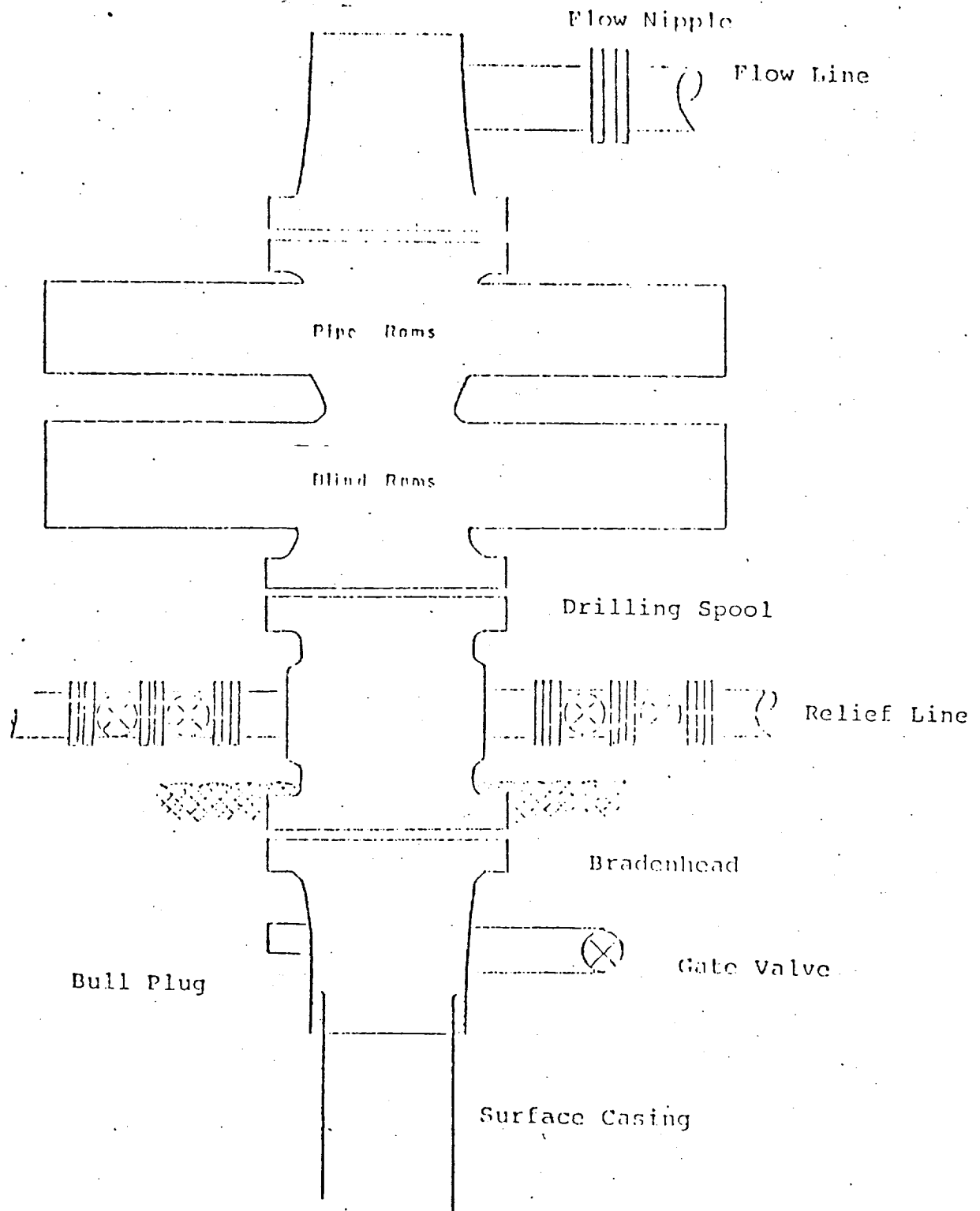


El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE

SCALE: 1" = 50'		DWG. NO.		RE	
-----------------	--	----------	--	----	--

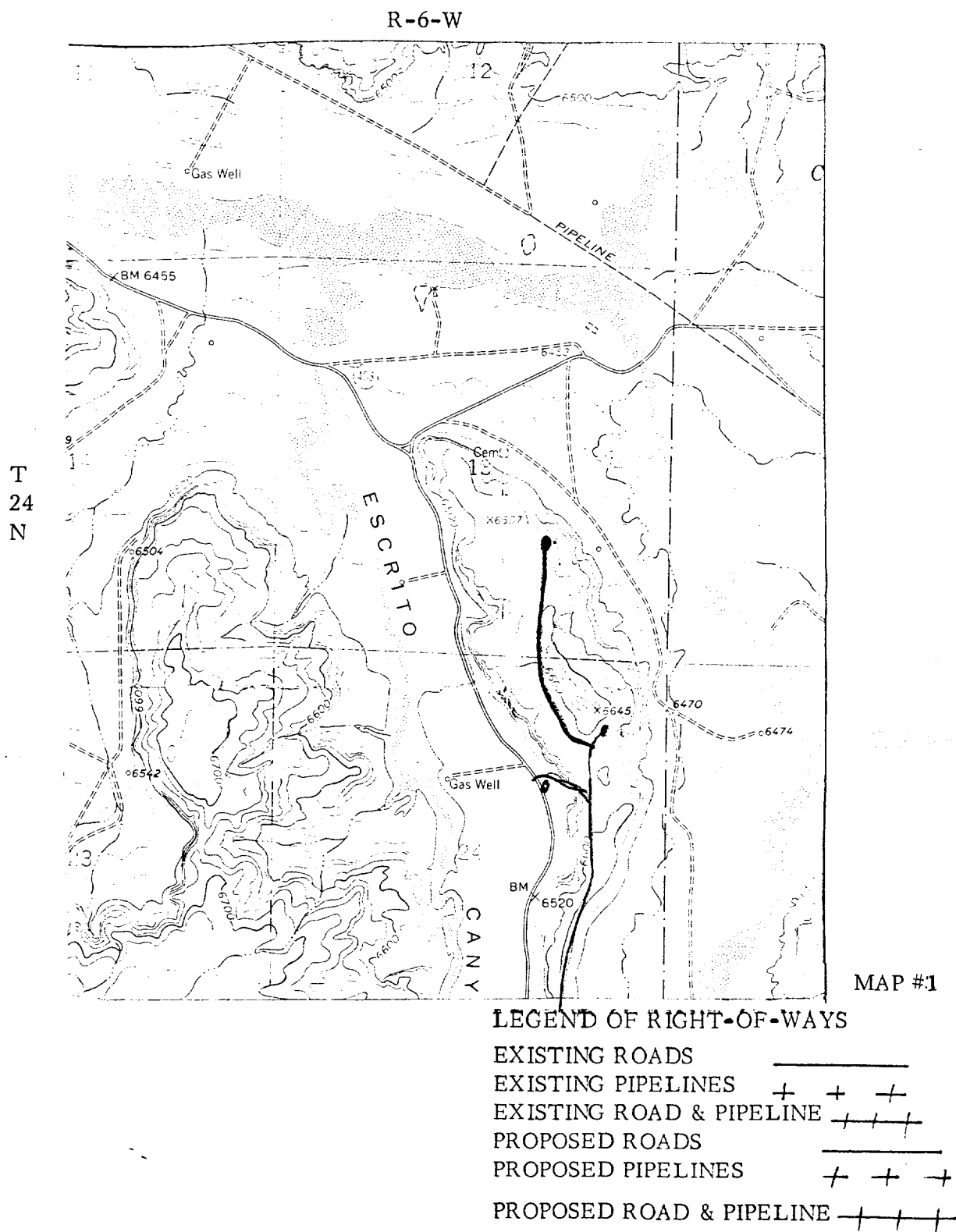
Typical B.O.P. Installation
for : Dakota : Well



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.

EL PASO NATURAL GAS COMPANY
Canyon Largo Unit #297
SE 13-24-6



R-6-W

Proposed Location