

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 289, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1040'N, 1540'E
At proposed prod. zone same

5. LEASE DESIGNATION AND SERIAL NO.
SF 079289

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
San Juan 28-7 Unit

8. FARM OR LEASE NAME
San Juan 28-7 Unit

9. WELL NO.
234E

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T. R. M., OR BLK. AND SURVEY OR AREA
Sec. 15, T-28-N, R-7-W
NMPM

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
6 miles southeast of Navajo City, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)
1040'

16. NO. OF ACRES IN LEASE
unit

17. NO. OF ACRES ASSIGNED TO THIS WELL
E 320.00

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

19. PROPOSED DEPTH
7371'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6146' GL

22. APPROX. DATE WORK WILL START*

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"	36.0#	200'	224 cu.ft. to circulate
8 3/4"	7"	20.0#	3263'	268 cu.ft. to cover Ojo Alamo
6 1/4"	4 1/2"	10.5# & 11.6#	7371'	632 cu.ft. to fill to interm

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 E/2 of Section 15 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 [Signature] TITLE Drilling Clerk DATE 4-22-80
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE

NMOCC

APPROVED
AS AMENDED
DATE

JUN 6 1980
OIL CON. CO.
DIST. 3
James F. Lewis
DIST. OF M. & C.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

*See Instructions On Reverse Side

ck 3rd

All distances must be from the outer boundaries of the Section

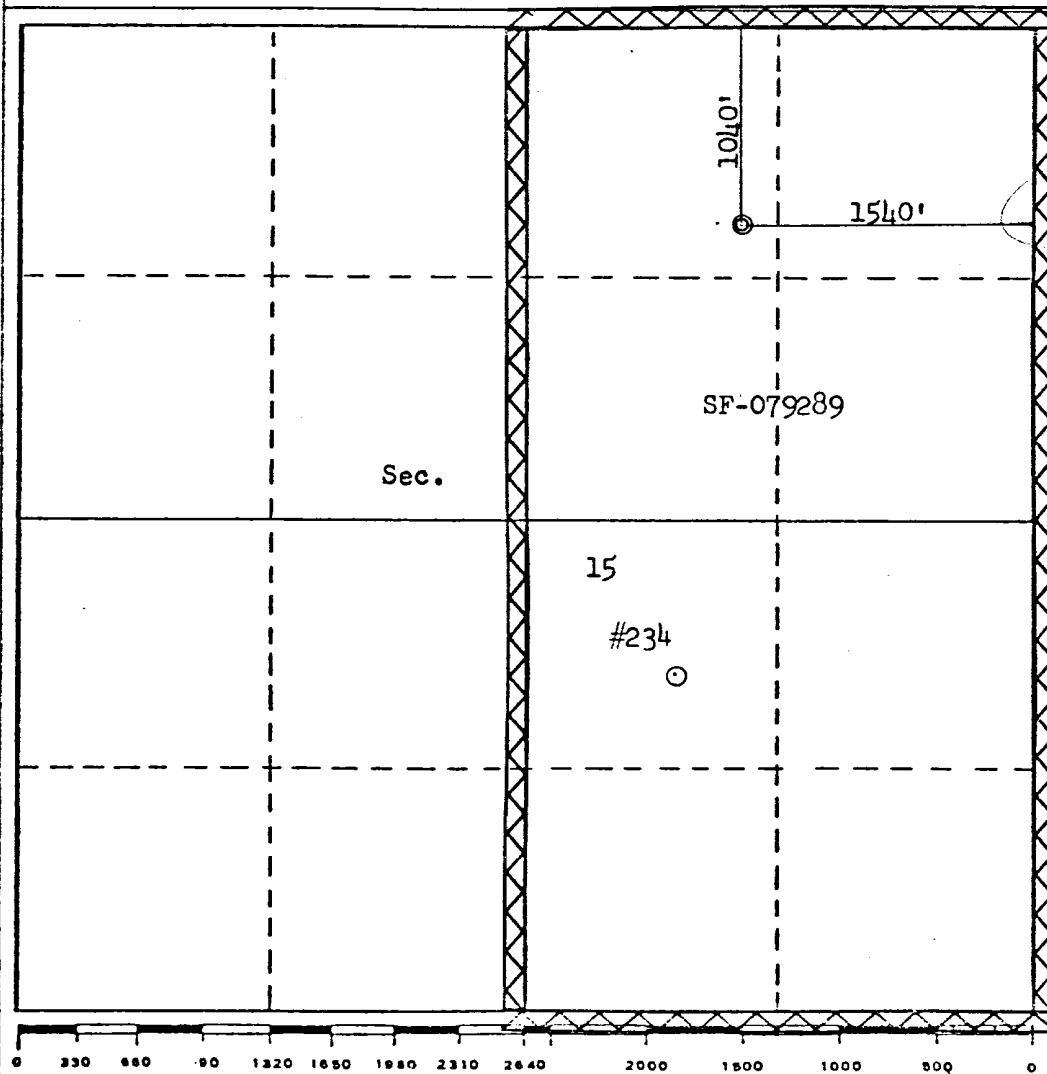
Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 28-7 UNIT (SF-079289)		Well No. 234-E
Unit Letter B	Section 15	Township 28N	Range 7W	County Rio Arriba	
Actual Footage Location of Well: 1040 feet from the North line and 1540 feet from the East line					
Ground Level Elev. 6146	Producing Formation 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.

[Signature]
Name
Drilling Clerk
Position
El Paso Natural Gas Co.
Company
April 22, 1980
Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual survey 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 14, 1980
Registered Professional Engineer
and/or Land Surveyor
[Signature]
Fred B. Kerr Jr.
Certificate No. 3950

El Paso NATURAL GAS
COMPANY

HEADQUARTERS
FARMINGTON, NEW MEXICO 87401
PHONE 505-425-2000

Well Name S.J. 28-7 UNIT# 234#
Location NE 15 28-7
Formation DK

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

U. S. Forest Service _____ Date _____
Dubney Reed
Archaeologist _____ Date 3/25/80

Bureau of Indian Affairs Representative _____ Date _____
GBM
Bureau of Land Management Representative _____ Date 3/25/80

Barbara Z. Conner
U. S. Geological Survey Representative - AGREES _____ Date 3/25/80
TO THE FOOTAGE LOCATION OF THIS WELL.

REASON:

Seed Mixture: TL

Equipment Color: Black

Road and Row: (Same) or (Separate) Separate

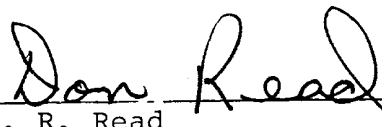
Remarks: _____

C.C. to Dave Vilvin
Earl Mealer
John Ahlm

Multi-Point Surface Use Plan
San Juan 28-7 Unit #234E

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 Delgadito Canyon 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 sage flats with sagebrush 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
San Juan 28-7 Unit #234E

I. Location: 1040'N, 1540'E, Section 15, T-28-N, R-7-W, Rio Arriba County, NM

Field: Basin Dakota

Elevation: 6146'

II. Geology:

A. Formation Tops:	Surface	San Jose	Menefee	4580'
	Ojo Alamo	2074'	Point Lookout	5060'
	Kirtland	2138'	Gallup	6125'
	Fruitland	2579'	Greenhorn	7023'
	Pic.Cliffs	2975'	Graneros	7081'
	Lewis	3063'	Dakota	7214'
	Mesa Verde	4511'	Total Depth	7371'

B. Logging Program: GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 4500', 4570', 5050', 6115', 7010', 7070', 7205'
and at Total Depth. Also gauge any noticeable increase in gas.
Record all gauges in daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 3263'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt.&Grade</u>
	13 3/4"	200'	9 5/8"	36.0# K-55
	8 3/4"	3263'	7"	20.0# K-55
	6 1/4"	6500'	4 1/2"	10.5# K-55
	6 1/4"	7371'	4 1/2"	11.6# K-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder Texas Pattern guide shoe (Part No.2006-1-012)

7" intermediate casing - Pathfinder guide shoe (Part No. 2003-1-007)
and Howco self-fill insert float valve (Price Ref. 36A & 37)

5 Pathfinder stabilizers (Part No. 107-10) one every other joint above shoe. Run float two joints above shoe.

4 1/2" production casing - Pathfinder guide shoe (Part.#2003-1-000)
and Larkin flapper type float collar (fig. 404 M&F)

C. Tubing: 7371' of 1 1/2", 2.9#, J-55 10rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.

Operations Plan - San Juan 28-7 Unit #234E

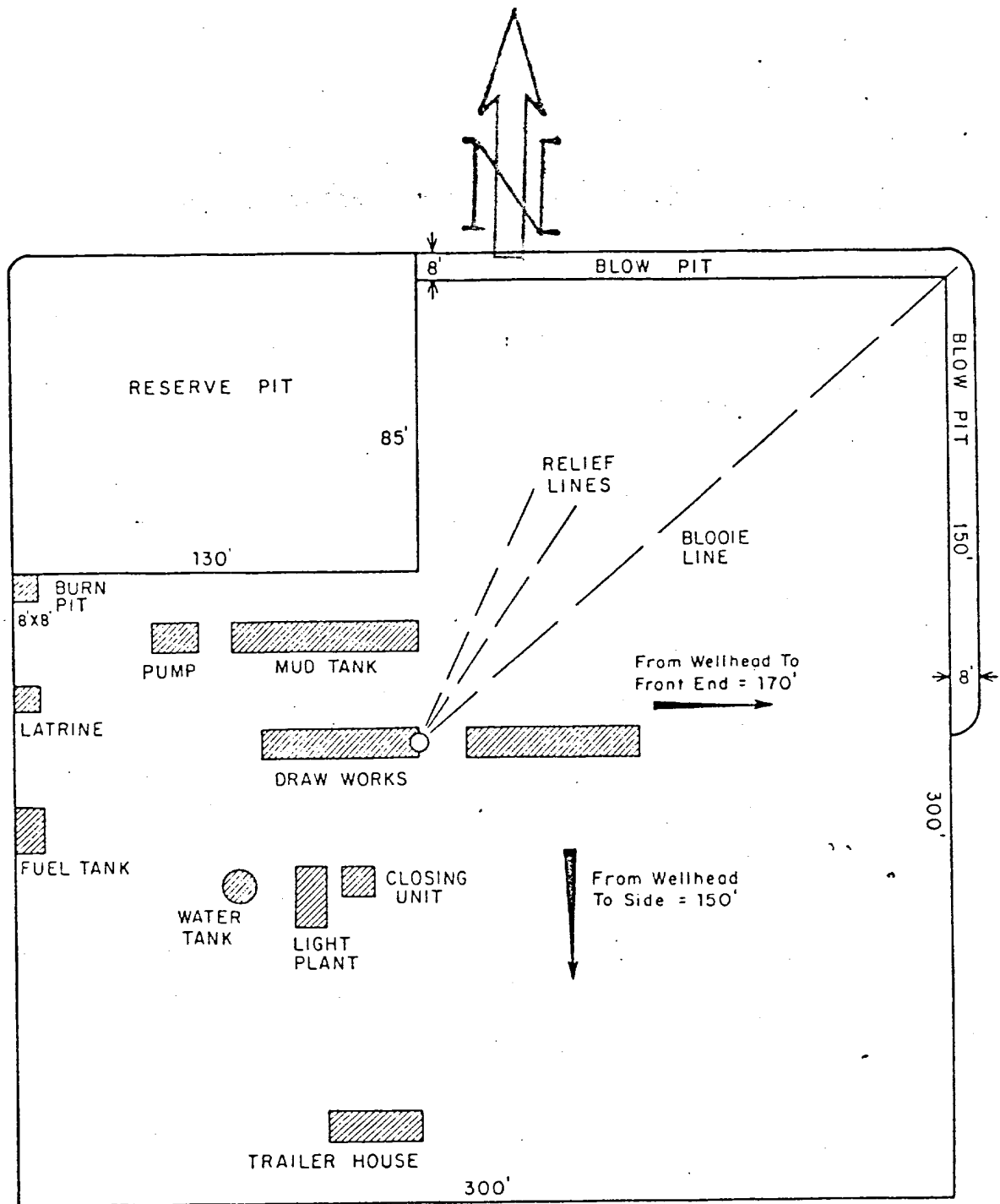
D. Wellhead Equipment: 3000 psi test tree. Wellhead representative to set all slips and cut off casing.

V. Cementing:

9 5/8" surface casing - 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 to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 93 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (268 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" production casing - precede cement with 40 bbls. of gel water (4 sks. gel) cement with 232 sks. of Class "B" with 8% gel, 1/4 cu.ft. fine gilsonite per sack and 0.4% HR-7, followed by 100 sks. of Class "B" with 1/4# fine tuf-plug per sack and 0.4% HR-7 (632 cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.



No Cut

PRT.		SEP.	DATE	TO	W.O.
PRINT RECORD					
ENG. REC.		DATE			
DRAWN		J. L. H. 8-16-78			
CHECKED					
CHECKED					
PROJ. APP.					
DESIGN					



El Paso Natural Gas Company

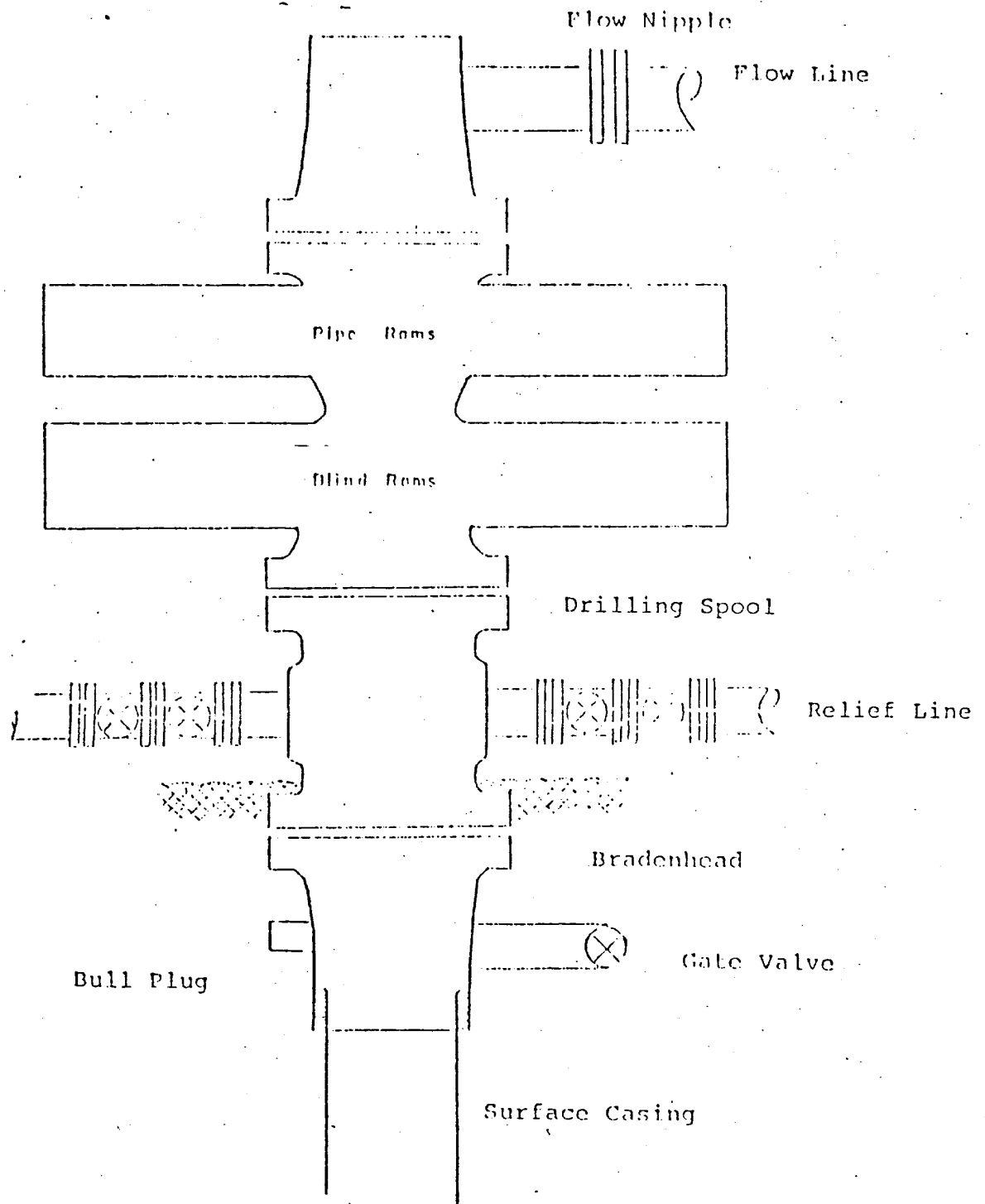
TYPICAL LOCATION PLAT FOR
MESAVERDE OR DAKOTA DRILL SITE

SCALE: 1" = 50'

DWG.
NO.

RE

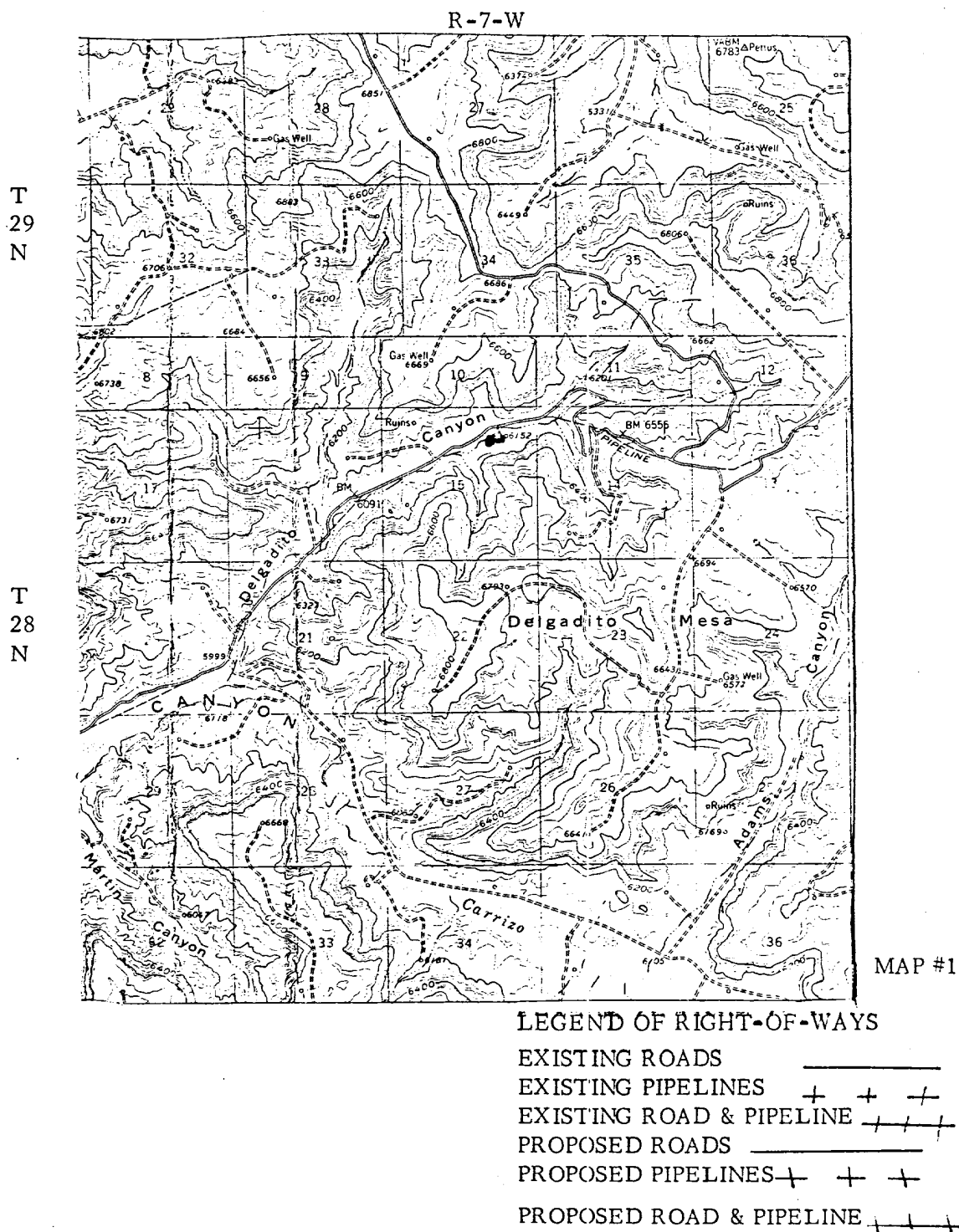
Typical B.O.P. Installation
for Dakota Well



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
San Juan 28-7 Unit #234E
NE 15-28-7



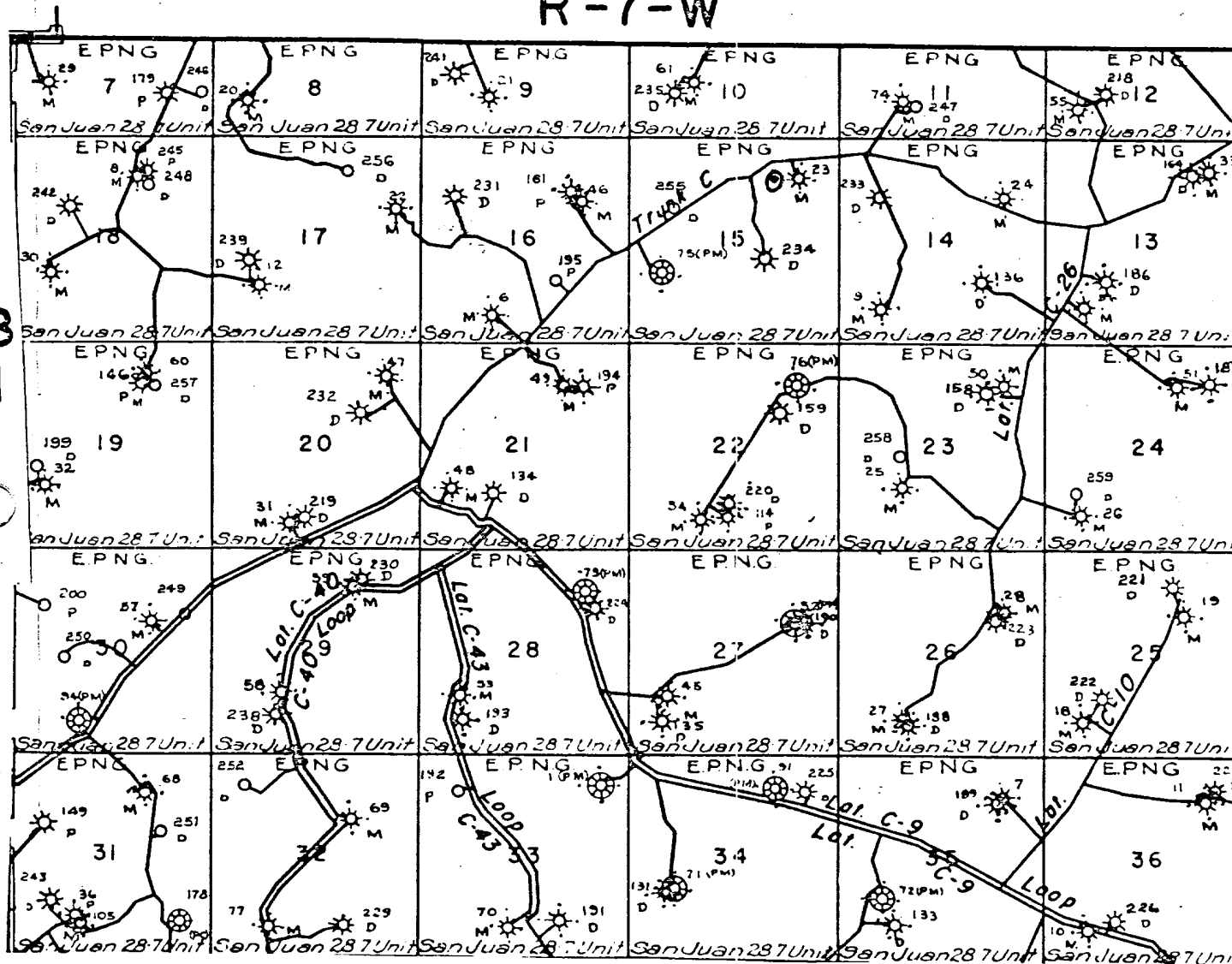
EL PASO NATURAL GAS COMPANY

San Juan 28-7 Unit #234E

NE 15-28-7

R-7-W

T
28
N



MAP #2

Proposed Location •