

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30-039-22207

5. LEASE DESIGNATION AND SERIAL NO.

SF 078497

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.

20A (PM)

10. FIELD AND POOL, OR WILDCAT

Blanco PC Ext.
Blanco Mesa Verde11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 8, T-28-N, R-7-W

12. COUNTY OR PARISH

NMPM
Rio Arriba NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10.5 miles west of Gobernador Camp, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1020'

16. NO. OF ACRES IN LEASE

unit

17. NO. OF ACRES ASSIGNED

TO THIS WELL

157.49 Allsec 304.04

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

2500'

19. PROPOSED DEPTH

5950'

20. ROTARY OR CABLE TOOLS

Rotary

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

6622' 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"	36.0#	200'	224 cu.ft. to circulate
8 3/4"	7"	20.0#	3635'	283 cu.ft. to cover Ojo Alam
6 1/4"	4 1/2" liner	10.5#	3485-5950'	430 cu.ft. to circ. liner

Selectively perforate and sandwater fracture the Pictured Cliffs and Mesa Verde 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 S/2 of Section 8 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. Also blowout preventer program, if any.

24.

SIGNED

D. G. Briscoe

TITLE

Drilling Clerk

DATE

10-18-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

mv nwn-ua

at Frank

Blanco PC NWN

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

1980
Form C-102
Supersedes C-128
Effective 1-1-65

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

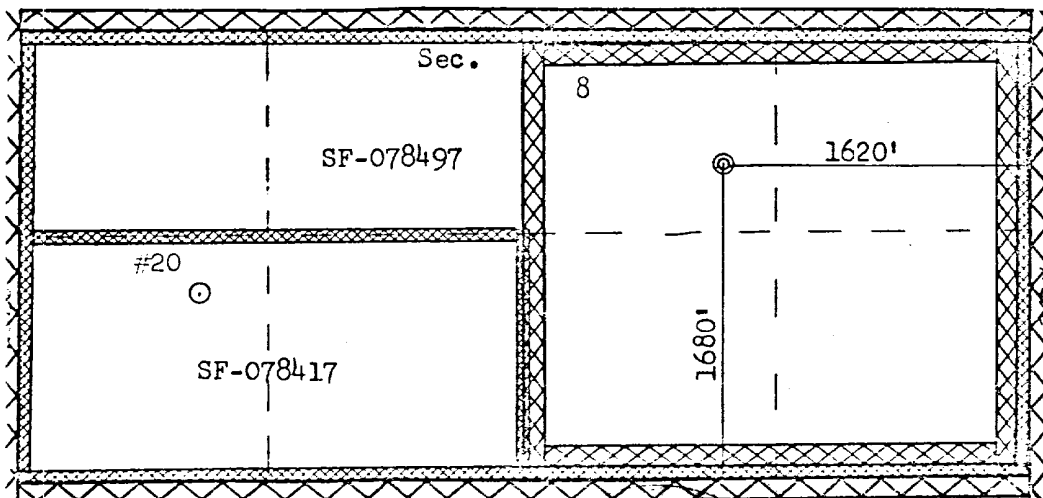
Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 28-7 UNIT (SF-078497)		Well No. 20-A
Unit Letter J	Section 8	Township 28N	Range 7W	County Rio Arriba	
Actual Footage Location of Well: 1680 feet from the South line and 1620 feet from the East line					
Ground Level Elev: 6622	Producing Formation MESA VERDE PICTURED CLIFFS		Pool BLANCO MESA VERDE BLANCO PICTURED CLIFFS EXT.	Dedicated Acreage: 151.49 & 304.04 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 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.

N. P. Briscoe

Name
Drilling Clerk

Position
El Paso Natural Gas Co.

Company
October 18, 1979

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

August 22, 1979

Registered Professional Engineer
and Land Surveyor

Fred A. Kern, Jr.

Certificate No.
3950

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GEOLOGICAL SURVEY
DENVER, COLO.

Multi-Point Surface Use Plan

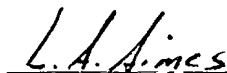
San Juan 28-7 Unit #20A

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 Manzaneras 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,

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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 chained sagebrush flat with sage brush 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
Project Drilling Engineer

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U.S. GEOLOGICAL SURVEY
DALLAS, TEXAS

October 18, 1979

Operations Plan
San Juan 28-7 Unit #20A

I. Location: 1680'S, 1620'E, Section 8, T-28-N, R-7-W, Rio Arriba County, NM
Field: Blanco Mesa Verde & Blanco PC Ext. Elevation: 6622'

II. Geology:

A. Formation Tops:	Surface	San Jose	Lewis	3435'
	Ojo Alamo	2380'	Mesa Verde	4940'
	Kirtland	2495'	Menefee	5082'
	Fruitland	2990'	Point Lookout	5500'
	Pic. Cliffs	3312'	Total Depth	5950'

B. Logging Program: I-ES and GR-Density at 3635'
GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 4930', 5070', 5490' 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 3635'. 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"	3635'	7"	20.0# K-55
	6 1/4"	3485-5950'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff.
Geyser shoe and flapper type float collar

C. Tubing: 5950' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
3635' of 1 1/4", 2.33#, J-55, IJ tubing with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.

D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" x 7" casing hanger, 10" 2000 x 6" 2000 dual tubing head.

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ALBUQUERQUE, N.M.

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.

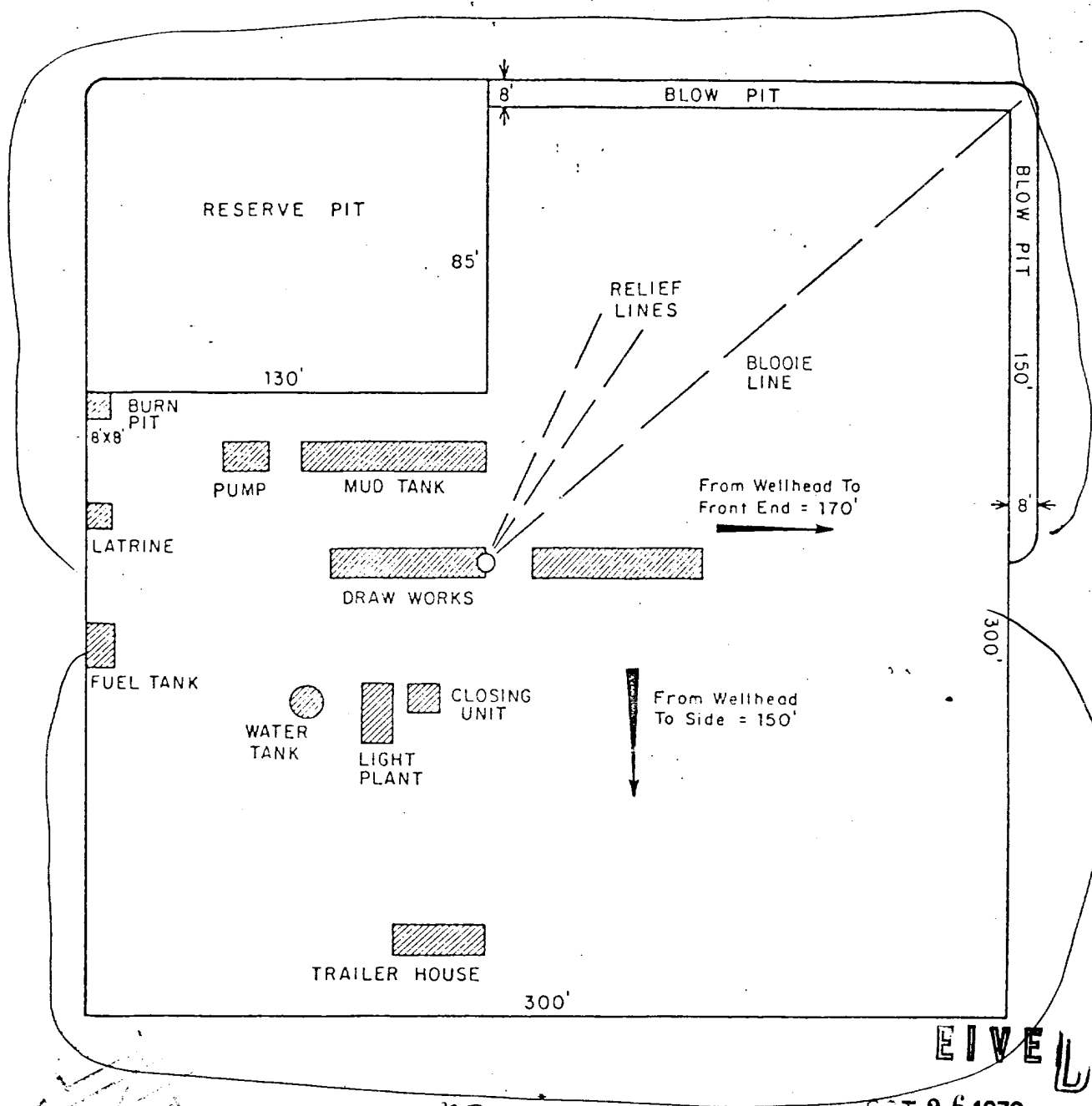
7" intermediate casing - use 102 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (283 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 310 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (430 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

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DENVER, COLO.



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D.D., C.C.O.

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

El Paso Natural Gas Company

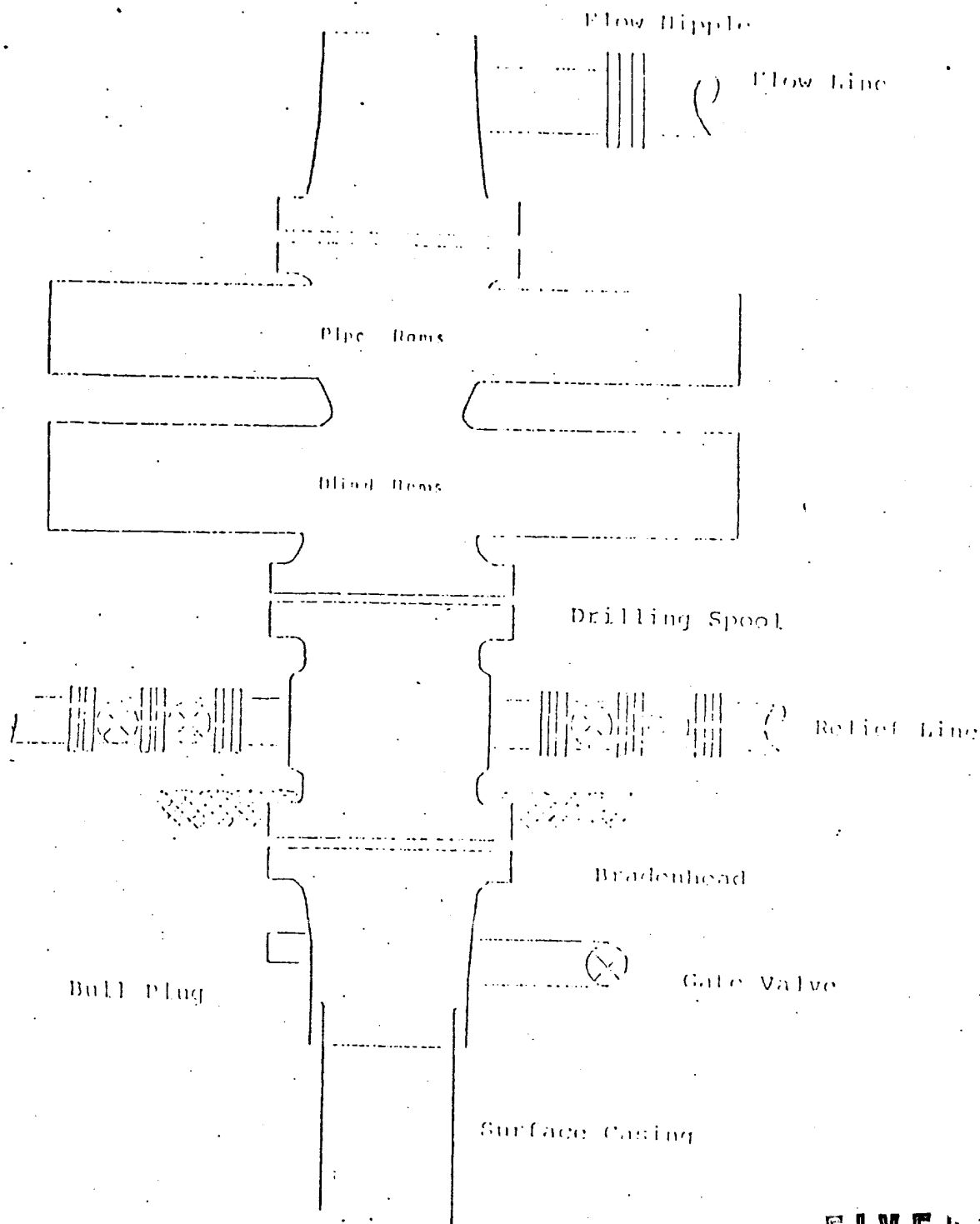
TYPICAL LOCATION PLAT FOR
MESAVERDE OR DAKOTA DRILL SITE

SCALE: 1" = 50'

DWG.
NO.

R

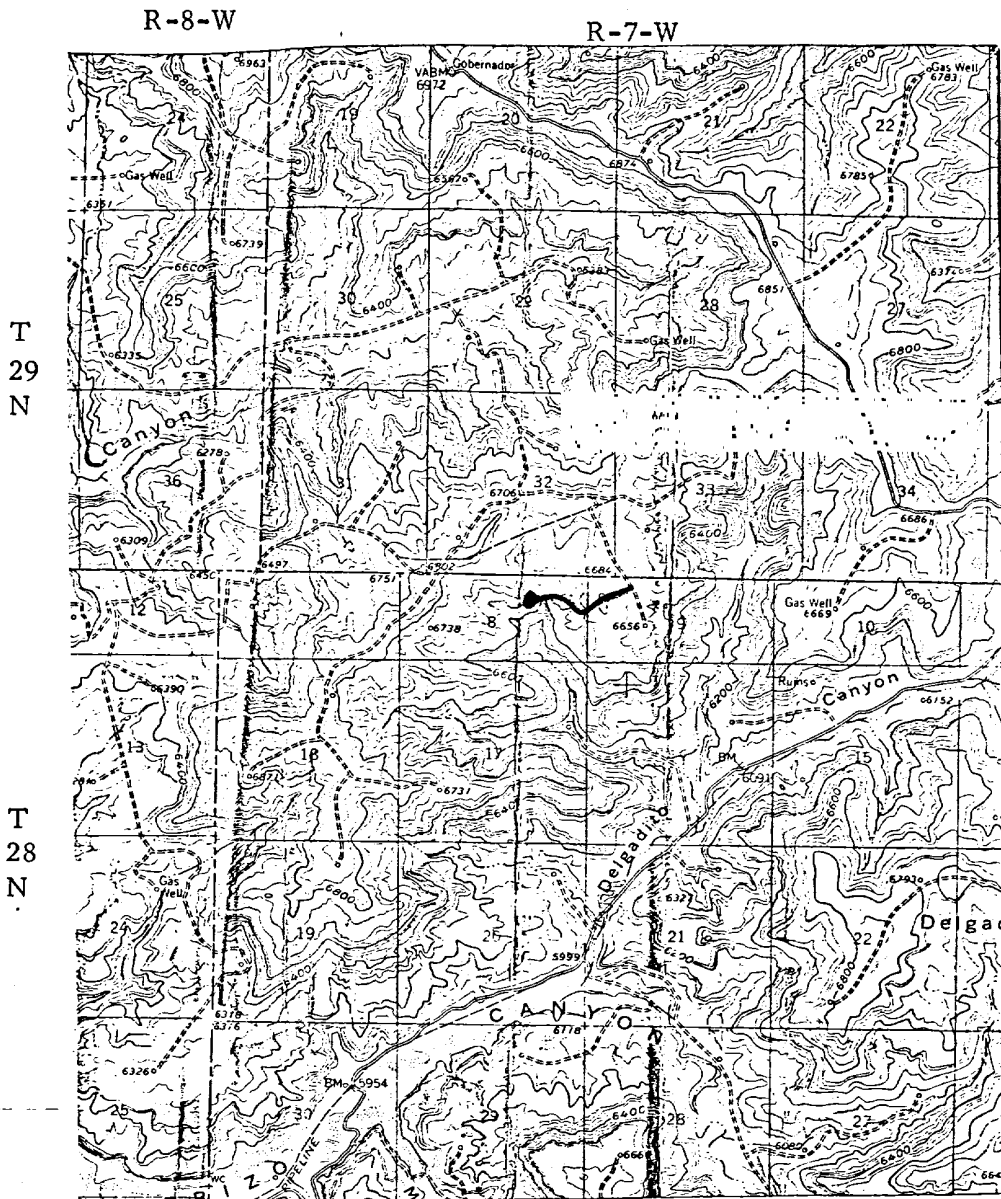
For Mesa Verde Well



Series 900 Double Gate ROP, 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

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 CO, COLO.

El Paso Natural Gas Company
San Juan 28-7 Unit #20A
SE 8-28-7



MAP 1

LEGEND OF RIGHT-OF-WAYS

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

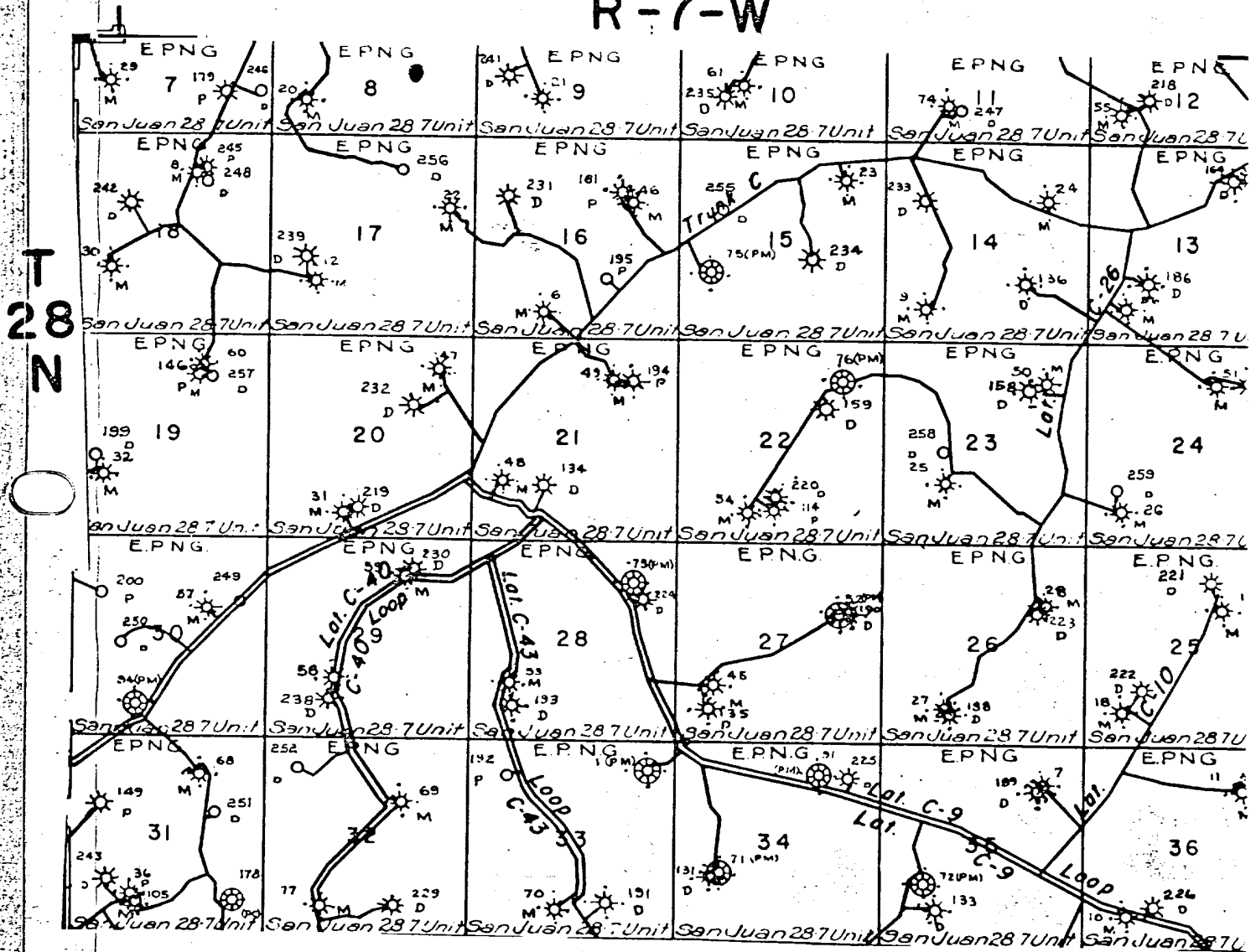
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DENVER, COLO.

El Paso Natural Gas Company
San Juan 28-7 Unit #20A
SE 8-28-7

R-7-W



MAP 2

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Proposed Location

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Ft. Collins, COLO.