



LTR



Job separation sheet

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF 079097	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR El Paso Natural Gas Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR PO Box 289, Farmington, NM 87401		8. FARM OR LEASE NAME Heaton	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 960'S, 1005'W At proposed prod. zone same		9. WELL NO. 10 (PM)	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 2 miles North of Aztec, NM		10. FIELD AND POOL, OR EXTENSION Aztec P.C. Cliffs Ext. Blanco Mesa Verde	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 960'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27, T-31-N, R-11-W NMPM	
16. NO. OF ACRES IN LEASE 2475.61		12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160 W/320.00		13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2000'		19. PROPOSED DEPTH 5105'	
20. ROTARY OR CABLE TOOLS Rotary		21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5800'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#	2685'	451 cu.ft. to cover Ojo Alamo
6 1/4"	4 1/2" liner	10.5#	2535-5105'	448 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 W/2 of Section 27 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 R. G. Guasco 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:

uh

11/10/79

*See Instructions On Reverse Side

RECEIVED

OCT 26 1979

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-107
Supersedes C-128
Effective 1-1-65

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

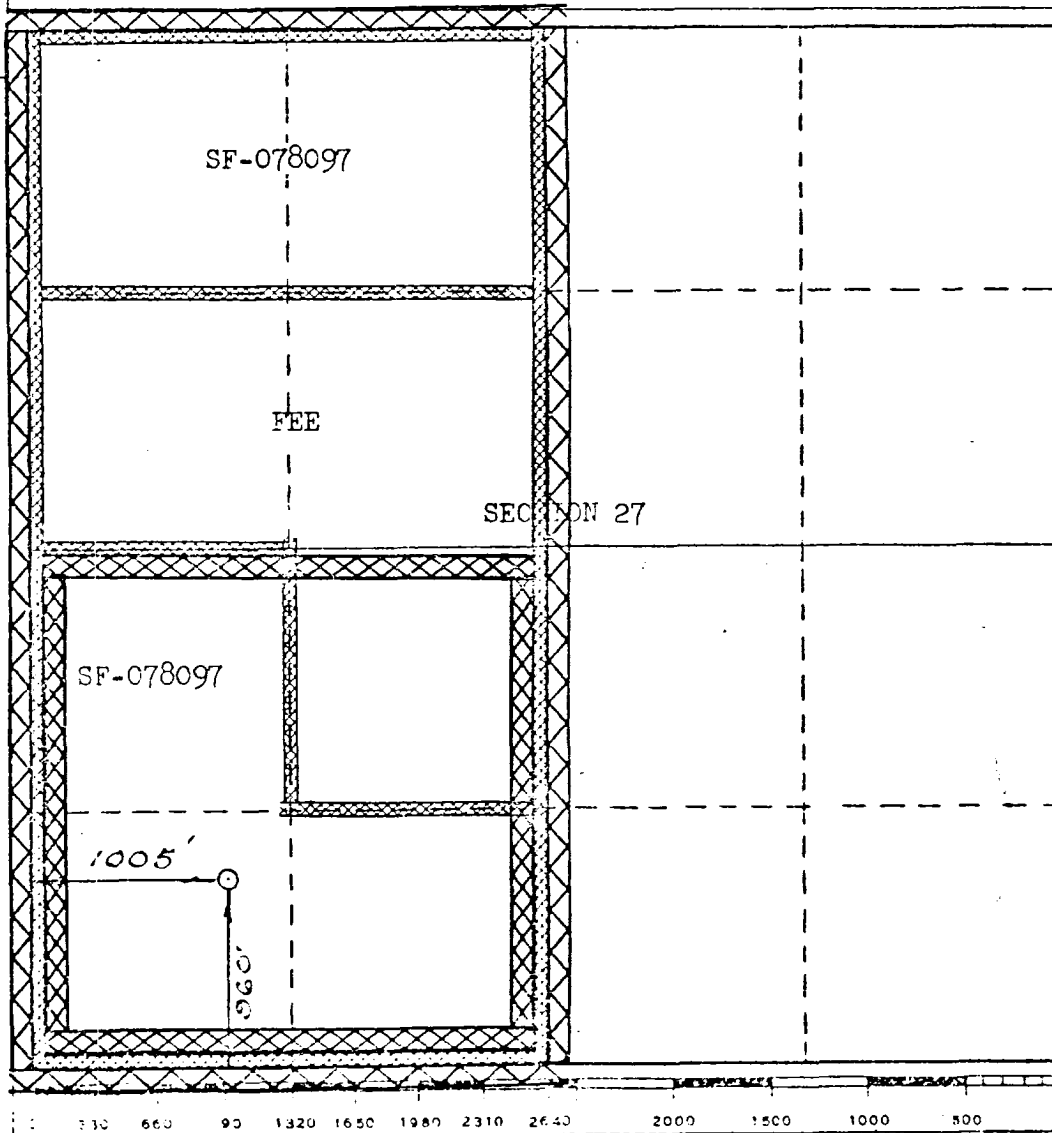
Operator EL PASO NATURAL GAS COMPANY			Lease HEATON (SF-079097)		Well No. 10
Unit Letter M	Section 27	Township 31-N	Range 11-W	County SAN JUAN	
Actual Footage Location of Well: 960 feet from the SOUTH line and 1005 feet from the WEST line					
Ground Level Elev. 5800	Producing Formation MESA VERDE PICTURED CLIFFS -		Pool BLANCO MESA VERDE AZTEC PICTURED CLIFFS EXT.		Dedicated Acreage: 160.00 & 320.00 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 Communitization

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. G. 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
OCTOBER 6, 1972

Registered Professional Engineer
and/or Land Surveyor

[Signature]

Certificate No. **1760**

El Paso NATURAL GAS
COMPANY

EL PASO, TEXAS
FARMINGTON, NEW MEXICO
PHONE, 445-0200

Well Name Heaton #10
Location SW 27 31-11
Formation Pc-MV

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

U. S. Forest Service
Dahm Ford
Archaeologist

Date
10/4/79
Date

Bureau of Indian Affairs Representative
Bob Mack
Bureau of Land Management Representative

Date
10/4/79
Date

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

10/4
Date

REASON:

Seed Mixture: IF

Equipment Color: BROWN

Road and Row: (Same) or (Separate)

Remarks:

C.C. to Dave Vilvin
Earl Mealer
John Ahlm

Multi-Point Surface Use Plan

Heaton #10

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 Animas River.
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 an existing location with rabbit brush, tumbleweeds. 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.

L. A. Aimes

L. A. Aimes
Project Drilling Engineer

October 18, 1979

Operations Plan
Heaton #10

I. Location: 990'S, 1005'W, Section 27, T-31-N, R-11-W, San Juan County, NM

Field: Aztec PC & Blanco MV

Elevation: 5810'GL

II. Geology:

A. Formation Tops:	Surface	Nacimiento	Lewis	2485'
	Ojo Alamo	685'	Mesa Verde	3969'
	Kirtland	825'	Menefee	4159'
	Fruitland	2053'	Point Lookout	4655'
	Pic.Cliffs	2375'	Total Depth	5105'

B. Logging Program: I-ES and GR-Density at 2685'
GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

D. Natural Gauges: 3960', 4150', 4645' 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 2685'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	36.0# K-55
	8 3/4"	2685'	7"	20.0# K-55
	6 1/4"	2535-5105'	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 & PBR. Geyser shoe and flapper type float collar

C. Tubing: 5105' 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.
2685' 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.

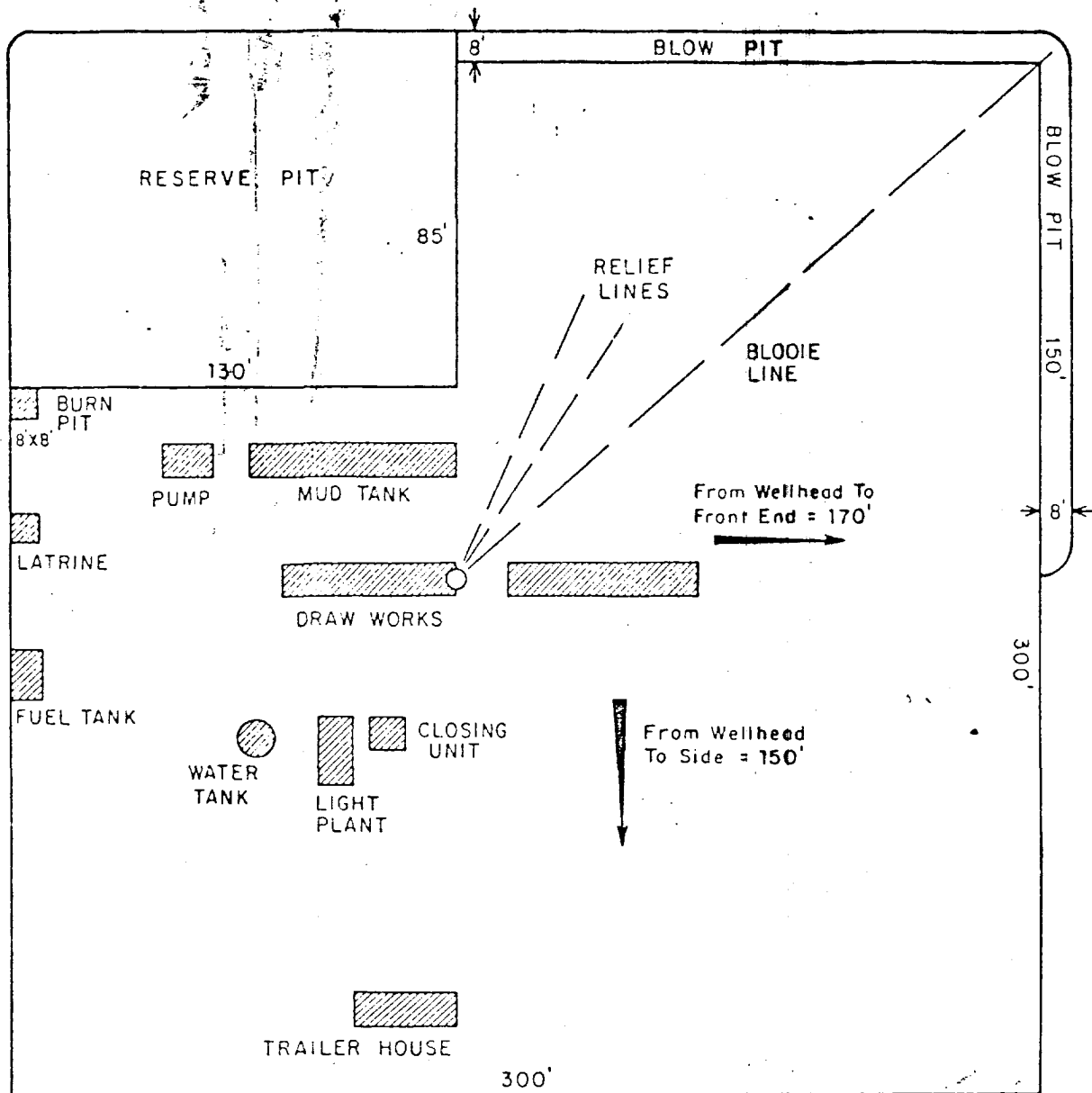
Operations Plan - Heaton #10

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 205 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 (451 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 322 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (448 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



Existing Location Built

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

e El Paso Natural Gas Company

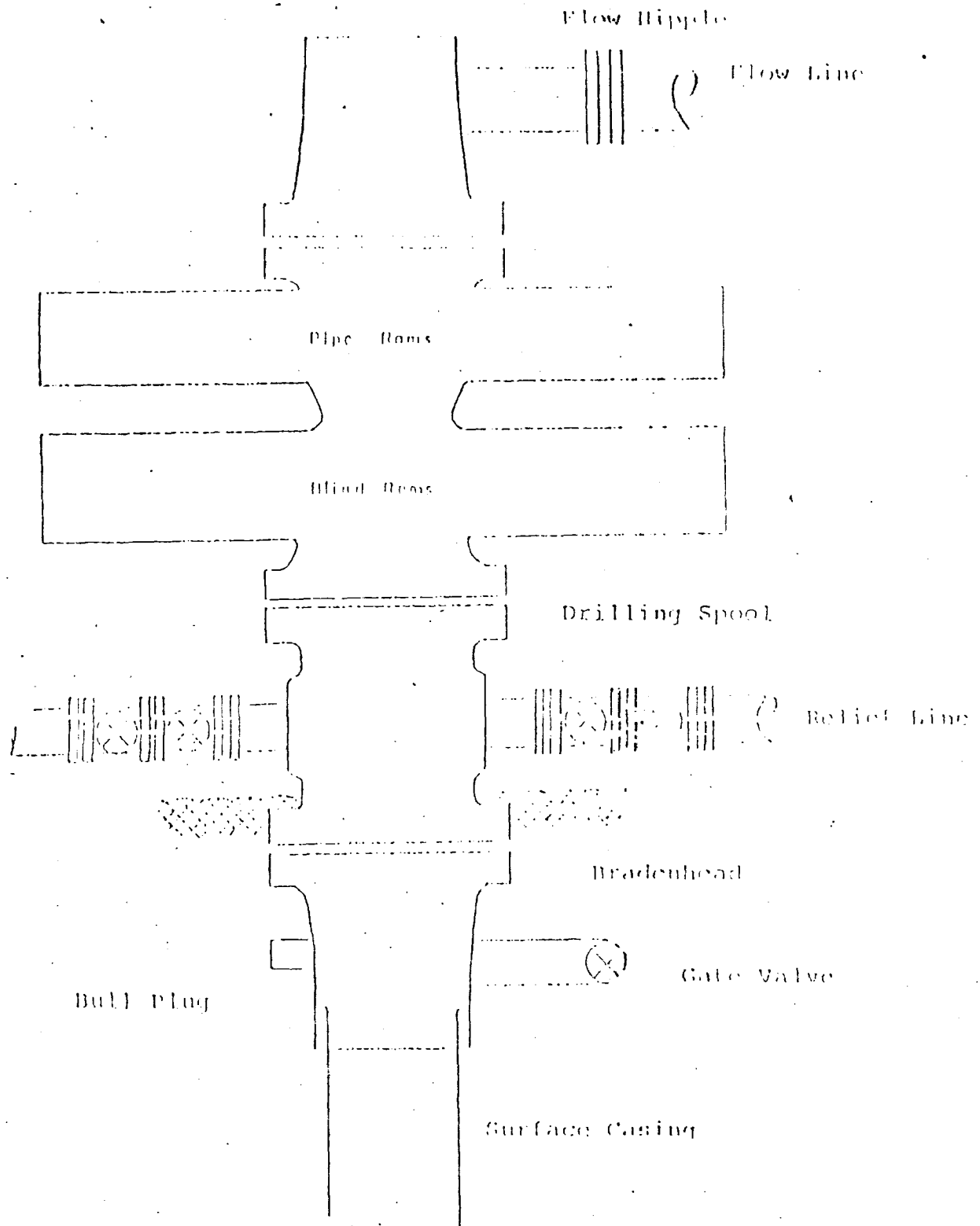
**TYPICAL LOCATION PLAT FOR
MESAVERDE OR DAKOTA DRILL SITE**

SCALE: 1" = 50'

DWG.

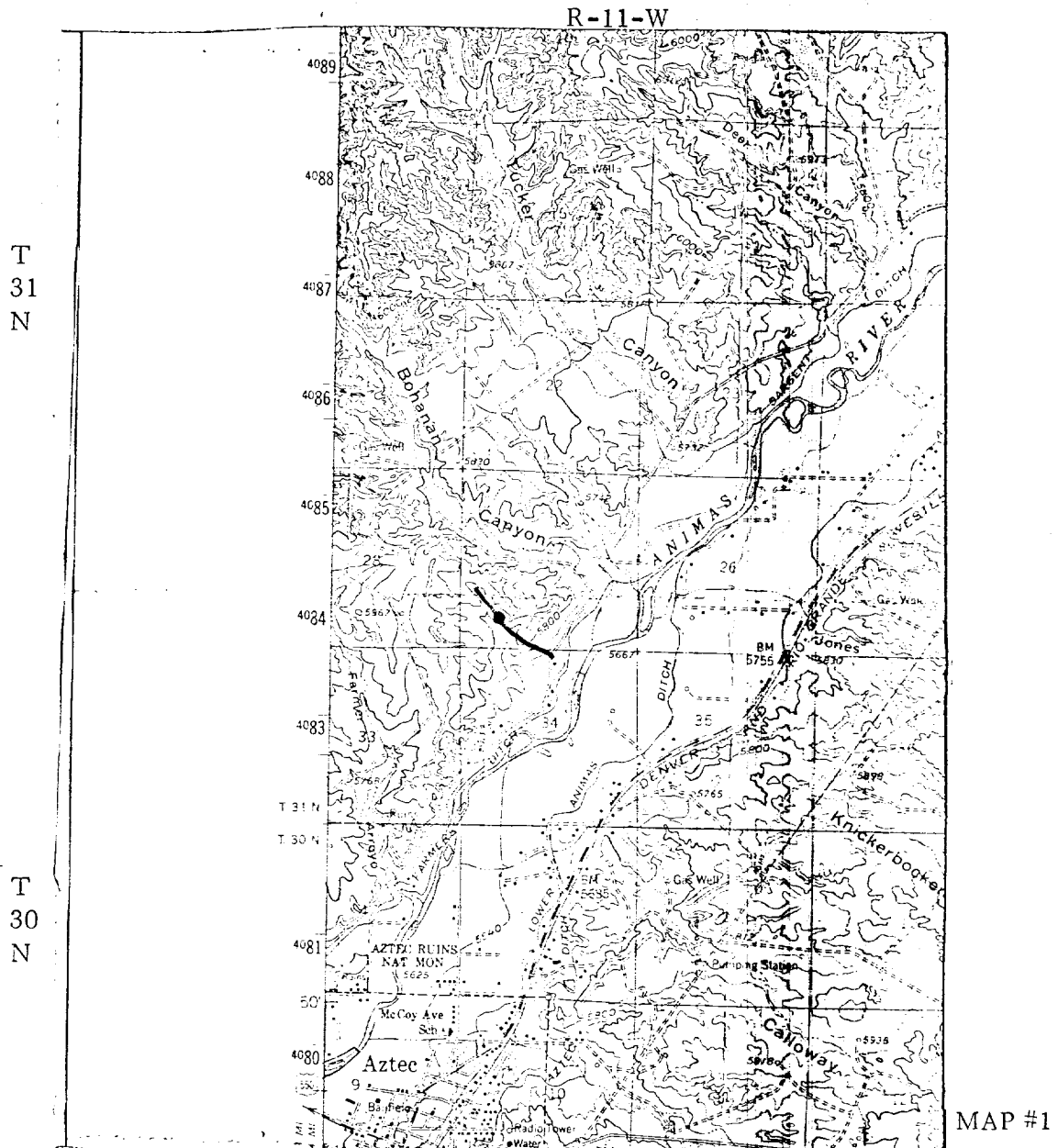
RE

Typical B.O.P. Installation
for Mega Verde 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
Heaton #10 (PM)
SW 27-31-11



LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS

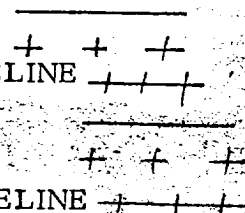
EXISTING PIPELINES

EXISTING ROAD & PIPELINE

PROPOSED ROADS

PROPOSED PIPELINES

PROPOSED ROAD & PIPELINE



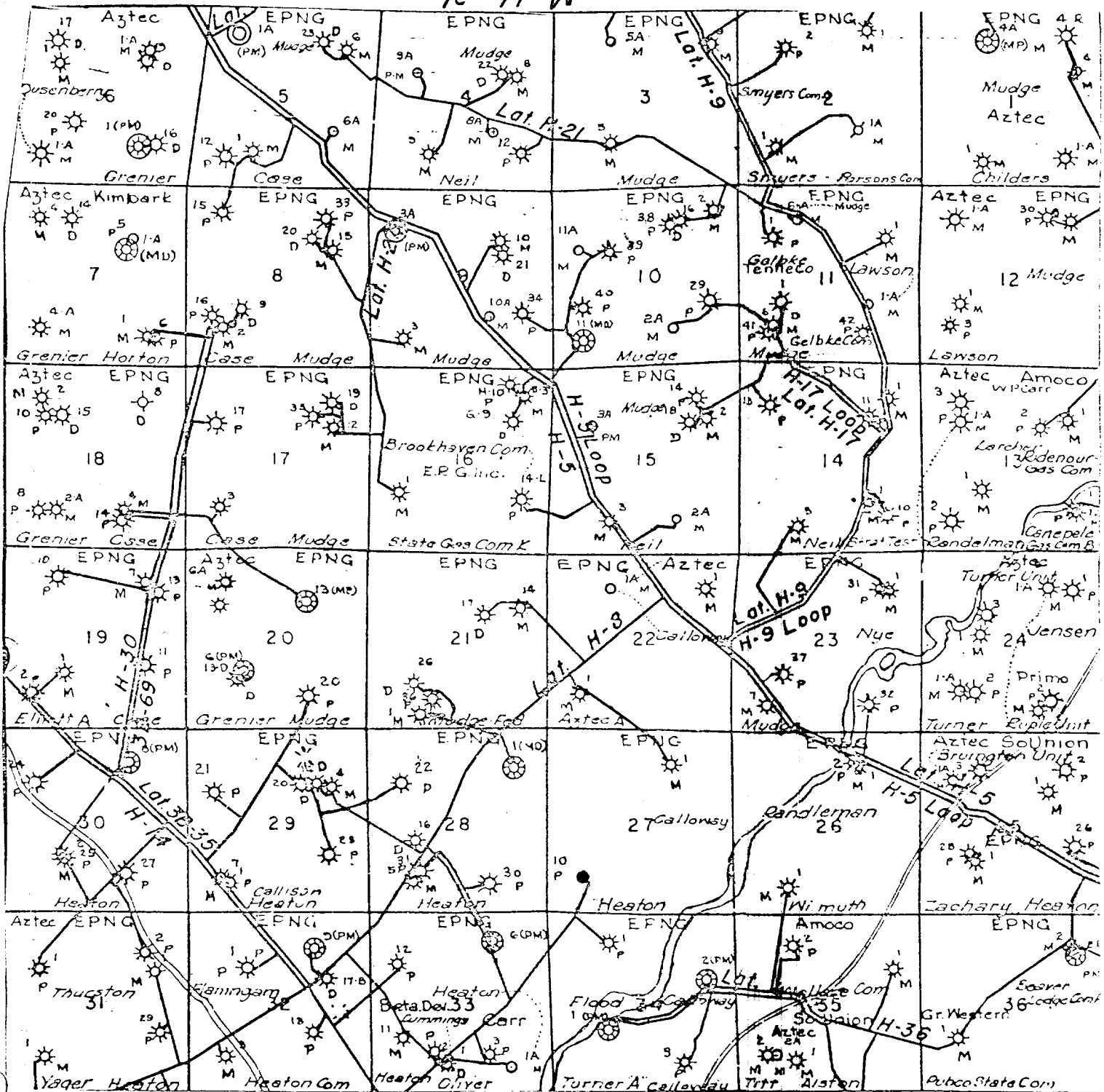
EL PASO NATURAL GAS COMPANY

Heaton #10 (PM)

SW 27-31-11

R-11-W

T
31
N



MAP #2

Proposed Location



LTR



Job separation sheet

F

30-045-23909

10-30-79

F. Loc. 960/S; 1005/W Elev. 5800 GL Spd. Comp. TD. PB

Casing S. @ W Sx Int. @ W Sx Pr. @ W Sx T. @
Csg. Perf. Prod. Stim.T
R
A
N
S

I.P. BO/D MCF/D After Hrs. SICP PSI After Days GOR Grav. Ist Del. s

TOPS		NITD	Well Log	TEST DATA						
Kirtland		C-103	Plat	Schd.	PC	Q	PW	PD	D	Ref.No.
Fruitland		C-104	Electric Log							
Pictured Cliffs			C-122							
Cliff House		Ditr	Dfa							
Menefee		Datr	Dac							
Point Lookout		160								
Manco										
Gallup										
Sanostee										
Greenhorn										
Dakota										
Morrison										
Entrada										

P
o
oAztec PC Co. SJ s 27 T 31N R 11W U M_{Oper.} El Paso Natural Gas Co. Heaton No. 10

Heaton #10

M-27-31N-11W

El Paso Natural Gas Company

F

30-045-23909

,10-30-79

F. Loc. 960/S; 1005/W Elev. 5800 GL Spd. Comp. ID PB

Casing S. @ W Sx Int. @ W Sx Pr. @ W Sx T. @
Csg Perf. Prod. Stim.T
R
A
N
S

I.P. BO/D MCF/D After Hrs. SICP PSI After Days GOR Grav. Ist Del. s

TOPS		NITD	Well Log	TEST DATA						
Kirtland		C-103	Plot	Schd.	PC	Q	PW	PD	D	Ref.No.
Fruitland		C-104	Electric Log							
Pictured Cliffs			C-122							
Cliff House		Ditr	Dfa							
Menefee		Datr	Dac							
Point Lookout		W/320								
Mancos										
Gallup										
Sanostee										
Greenhorn										
Dakota										
Morrison										
Entrada										

P
o
o
Blanco MV Co. SJS 27 T 31 N R 11 W U M Oger El Paso Natural Gas Co. Heaton No 10

P.O. Box 959
Farmington, New Mexico 87401

January 7, 1981

El Paso Natural Gas Company
P.O. Box 289
Farmington, New Mexico 87401

Gentlemen:

Reference is made to your Application for Permit to Drill well
No. 10 (PM) Heaton, sec. 27, T. 31 N., R. 11 W., San Juan County, New Mexico,
lease No. Santa Fe 078097.

The subject Application is hereby terminated and returned due to drilling
operations not being commenced within one year of the approval date.

Please be advised you are required to notify this office for the appropriate
surface rehabilitation in the event that construction activities have
occurred on the referenced drillsite.

A new Application must be submitted if you decide to drill the subject
well at a later date. Such an Application would be processed in the
same manner as your original filing.

Sincerely yours,

James F. Sims
District Oil and Gas Supervisor

Enclosure

cc: Well file (rescinded) ✓
DRO 9-1
Chronological
BLM

BWansley:cap

