

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

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 4289, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

790'S, 810'W

At proposed prod. zone

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

2 miles Southeast of Aztec, NM

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any) 790'

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED  
OR APPLIED FOR, ON THIS LEASE, FT. 2000

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

5940' GL

23.

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"  
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	120'	106 cf circ. surface
6 3/4"	2 7/8"	6.4#	2475'	866 cf cover Ojo Alamo

Selectively perforate and sand water fracture the Pictured Cliffs 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 SW/4 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

*Peggy Dook*

TITLE

Drilling Clerk

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

5. LEASE DESIGNATION AND SERIAL NO.  
NM 02758

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Murphy D

9. WELL NO.  
2

10. FIELD AND POOL, OR WILDCAT  
Aztec PC

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Sec. 27, T-30-N, R-11-W  
NMPM

12. COUNTY OR PARISH  
San Juan

13. STATE  
NM

RECEIVED  
MAR 11 1985

OIL CON. DIV.  
DIST. 3

APPROVED

DATE

2-26-85

AS AMENDED

MAR 07 1985

/s/ J. Stan McKee

AREA MANAGER  
FARMINGTON RESOURCE AREA

\*See Instructions On Reverse Side

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

Operator <b>EL PASO NATURAL GAS COMPANY</b>			Lease <b>MURPHY "D" (NM 02758 )</b>		Well No. <b>2</b>
Unit Letter <b>M</b>	Section <b>27</b>	Township <b>30N</b>	Range <b>11W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>790</b> feet from the <b>South</b> line and <b>810</b> feet from the <b>West</b> line					
Ground Level Elev: <b>5940</b>	Producing Formation <b>Pictured Cliffs</b>		Pool <b>Aztec</b>	Dedicated Acreage: <b>159.1</b> 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 \_\_\_\_\_

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.

Sec.		RECEIVED FEB 28 1985 BUREAU OF LAND MANAGEMENT ARMINGTON RESOURCE AREA	
		27	
810'		790'	

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name

Drilling Clerk

Position

El Paso Natural Gas Co.

Company

February 26, 1985

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 1, 1985

Registered Professional Engineer  
and Land Surveyor of New Mexico

Fred B. Kerr

Operations Plan  
Murphy D #2

I. Location: 790'S, 810'W, Sec. 27, T-30-N, R-10-W, San Juan Co., NM  
Field: Aztec Pictured Cliffs Elevation: 5940'GL

II. Geology:

A. Formation Tops:	Surface	Nacimiento	Pic.Cliffs	2275'
	Ojo Alamo	860'	Lewis	2435'
	Kirtland	990'	Total Depth	2475'
	Fruitland	1945'		

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

C. Coring Program: none

III. Drilling:

A. Circulating medium: treated water and a low solids gel base mud.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Csg.Size</u>	<u>Wt.&amp;Grade</u>
	12 1/4"	120'	8 5/8"	24.0#J-55
	7 7/8"	1945'	2 7/8"	6.4#J-55
	6 3/4"	2475'	2 7/8"	6.4#J-55

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

2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.

C. Tubing: none

D. Wellhead equipment: 8 5/8" x 2 7/8" 2000 psi WOG casing head

V. Cementing:

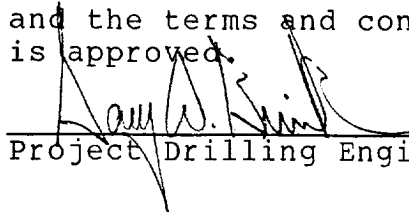
8 5/8" surface casing - 90 sks. Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing, wellhead and BOP to 600#/30 minutes.

2 7/8" production - precede cement with 5 bbls. water. Cement with 400 sks. 65/35 Class "B" Poz with 6% gel, 2% calcium chloride, 1/2 cu.ft. perlite/sack and 10.3 gal. water/sk followed by 75 sks. 50/50 Class "B" Poz w/2% gel (866 cu.ft. slurry, 100% excess to cover Ojo Alamo). Spot 50 gallons of 7 1/2% acetic acid on top of plugs. Run temperature survey after 12 hours.

Multi-Point Surface Use Plan  
Murphy D #2

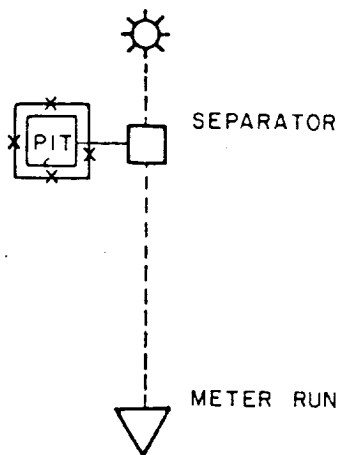
1. Existing Road - Please refer to Map No. 1 which show the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
2. Planned Access Roads - Please refer to Map No. 1. The grade of the 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 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 DAN-04 Farmers Ditch (Ruins Rd)
6. Source of Construction Materials - No additional materials will 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.

7. cont'd. 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 drainage; all earthen pits will be so constructed as to prevent leakage from occurring.
8. Ancillary Facilities - No camps or air strips 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 reseeded operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeded operations 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- Terrain is rolling hills with juniper, pinon, rabbit brush and sage growing. Cattle, sheep, deer and rabbits are occasionally seen on the proposed project site.
12. Operators Representative - D. C. Walker, Post Office Box 4289, Farmington, NM 87499.
13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.



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Project Drilling Engineer



## Anticipated Production Facilities For Pictured Cliffs or Chacra Well

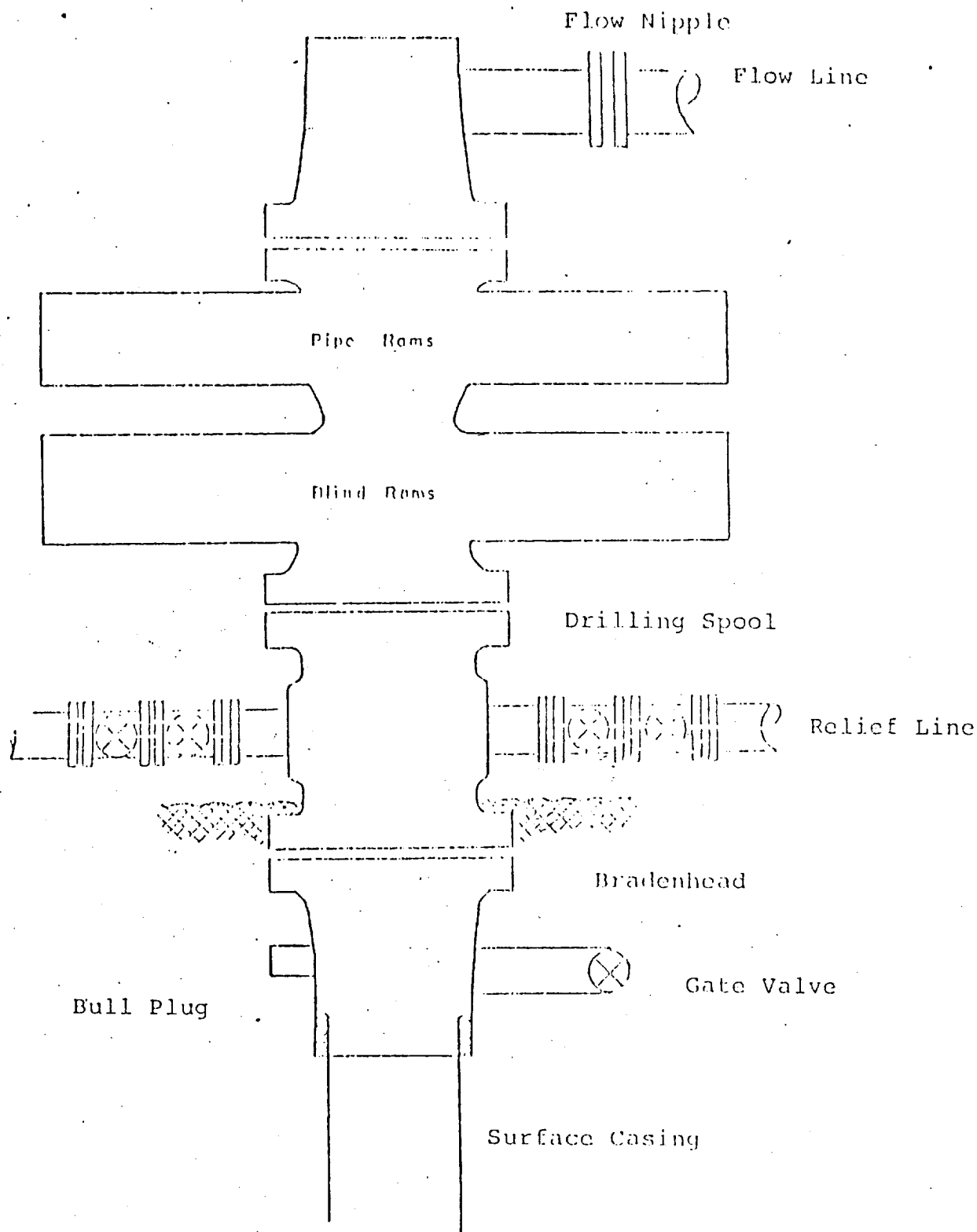
					ENG. REC.		DATE
					DRAWN		
					CHECKED		
					CHECKED		
					PROJ. APP.		
PRT.	SEP.	DATE	TO	W.O.	DESIGN		
PRINT RECORD					W.O.		

SCALE:

DWG.  
NO.

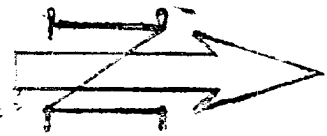
REV.

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



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

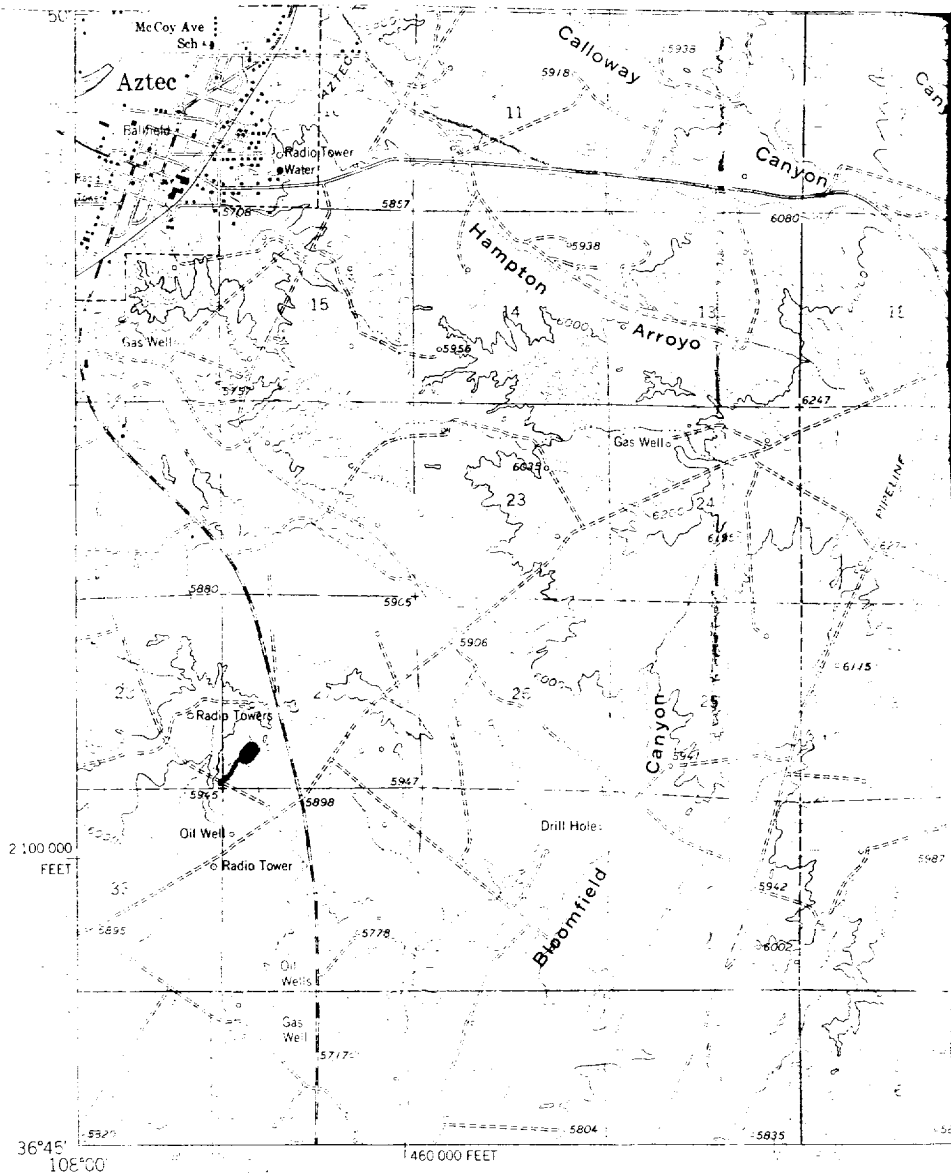
Murphy D II 2



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Murphy D #2 (PC)  
SW 27-30-11



Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS  
Topography by photogrammetric methods from aerial

Map #1

LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS

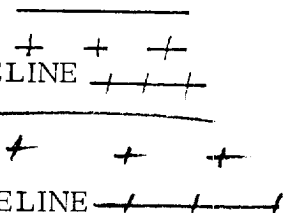
EXISTING PIPELINES

EXISTING ROAD & PIPELINE

PROPOSED ROADS

PROPOSED PIPELINES

PROPOSED ROAD & PIPELINE



Murphy D #2 (PC)  
SW 27-30-11



R-11-W