#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other	instr	uctions	on
re	verse	side)	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  1a. TYPE OF WORK  DRILL DEEPEN DEEPEN PLUG BACK  b. TYPE OF WELL  OTHER SINGLE ZONE MULTIPLE NEIL  E1 PASO Natural Gas Company  3. ADDRESS OF OPERATOR  PO BOX 990, Farmington, NM 87401  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  At proposed prod. zone  At proposed prod. zone  At proposed prod. zone  At proposed PROPOSED LOCATION ON PROSED PROPOSED LOCATION ON PRABEST TOWN OR POST OFFICE*  8 miles North of Aztec, NM  16. NO. OF ACRES IN LEASE  17. NO. OF ACRES ASSIGNED  18. DISTANCE FROM PROPOSED LOCATION ON NARRAST TOWN OR POST OFFICE*  18. DISTANCE FROM PROPOSED LOCATION ON NARRAST TOWN OR POST OFFICE*  18. DISTANCE FROM PROPOSED LOCATION ON NARRAST TOWN OR POST OFFICE*  18. DISTANCE FROM PROPOSED LOCATIONS*  19. DISTANCE FROM PROPOSED LOCATIONS*  10. DISTANCE FROM PROPOSED LOCATIONS*  11. NO. OF ACRES ASSIGNED  12. COUNTY OR PABISH 13. STATE  149. 31  149. 31  22. APPROX. DATE WORK WILL START*	(May 1000)	DEPARTMEN	TED STATES T OF THE IN			3.0-045-33/73 5. LEASE DESIGNATION AND SERIAL NO.	
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A DOLERS OF OPERATOR  PO BOX 990, Farmington, NM 87401  10. VIELD AND FOOL, OR WILLOUT STATE A LOCATION OF WALL (Report location clearly and in accordance with any State requirements.)  At surface 1820'N, 890'E  At proposed prod. zone  10. Unit Land Proposed prod. zone  At proposed prod. zone  11. REC. 7. 2. M., OR BILK, AND SURERY OR SHEAR SCC. 4, TT-31-N, R-11-W NOPM  12. COUNTY OR FARISH 13. STATE  8 miles North of Aztec, NM  14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR FOST OFFICE.  8 miles North of Aztec, NM  15. DISTANCE PROV PROPOSED PROPOSED.  16. NO. OF ACRES IN LEARS SCC. 4, TT-31-N, R-11-W NOPM  17. NO. OF ACRES ASSIGNED  18. DISTANCE PROV PROPOSED DOLATION.  19. PROPOSED DEFTH TO THIS WELL.  10. NOTATION TO THIS WELL.  10. STATE TO MILES AND CHAPTED.  10. PROPOSED CASING AND CEMENTING PROGRAM  10. STATE TO THIS WELL.  11. NO. OF ACRES ASSIGNED  12. NOTATION OF ACRES ASSIGNED  12. NOTATION TO THIS WELL.  13. STATE  14. San Juan NM  14. DISTANCE PROV PROPOSED DOLATION.  15. DISTANCE PROV PROPOSED DOLATION.  16. NO. OF ACRES IN LEARS TO THIS WELL.  17. NO. OF ACRES ASSIGNED  18. DISTANCE PROV PROPOSED DOLATION.  19. PROPOSED DEFTH TO THIS WELL.  10. SOLUTION TO THIS WELL.  10. SOLUTION TO THIS WELL.  10. SOLUTION TO THIS WELL.  11. NO. OF ACRES ASSIGNED  12. ATTROX. DATE WORK WILL STATE.  12. ATTROX. DATE WORK WILL STATE.  13. STATE SAN CREATED TO THIS WELL.  14. SoluTION TO THIS WELL.  14. SoluTION TO THIS WELL.  15. SOLUTION TO THIS WELL.  16. SOLUTION TO THIS WELL.  16. SOLUTION TO THIS WELL.  17. NO. OF ACRES ASSIGNED  17. NO. OF ACRES ASSIGNED  18. DISTANCE WELL SHILLING.  18. DISTANCE WELL SHILLING.  19. PROPOSED DEFTH TO THIS WELL.  19. SOLUTION TO THIS WELL.  10. SOLUTION TO THIS WELL.  10. SOLUTION TO THIS WELL.  11. SOLUTION TO THIS WELL.  12. ATTROX TO THIS WE	2. NAME OF OPERATOR	VELL OTHER		ZONE ZONE		l .	
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At proposed prod. zone  Blanco Pic.Cliffs  11. NS. or zone zone  Soc. 4,7-31-N,R-11-W  NNPM  12. covart or passen  Son Juan NM  Son Juan NM  13. proposed prod. zone  Son Juan NM  149.31  149.31  149.31  149.31  15. proposed prod. zone  At proposed prod. zone  No. of acress in Lease  170. This wall.  180. or zone zone zone  No. of acress in Lease  171. No. or zone zone zone  To this prod. the passen  180. Rotaty  20. Rotaty or caste vone caste toole  No. of acress in Lease  149.31  149.31  149.31  149.31  149.31  149.31  15. proposed prod.  1616 'GR  22. AFFROX. DATE WORK WILL START'  1616 'GR  22. AFFROX. DATE WORK WILL START'  1616 'Cu.ft. to circulate  6 3/4" 2 7/8" 6.4# 3065' 615 cu.ft. to circulate  6 3/4" 2 7/8" 6.4# 3065' 615 cu.ft. to circulate  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.  III. Start to proposed programs if productive sone and proposed new productive sone and proposed new productive sone and proposed new productive	3. ADDRESS OF OPERATOR	Farmington	NM 8740	1			
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	IN ABOVE SPACE DESCRIE	E PROPOSED PROGRAM: If	proposal is to deepe	n or plug back, give data on p	resent prod	luctive zone and proposed new productive d and true vertical depths. Give blowout	

HLOCO DATE July 21, 1978 Drilling Clerk TITLE . SIGNED (This space for Federal or State office use) PERMIT NO. \_ APPROVED BY TITLE DATE CONDITIONS OF APPROVAL, IF ANY:

preventer program, if any.

24.

All distances must be from the outer boundaries of the Section Lease Well Ho. (SF-078051) EL PASO NATURAL GAS COMPANY Neil 16 Unit Letter Township Hange County H 31N 11W San Juan Actual Ecotage Location of Well: 1820 890 North East Ground Level Elev. Producing Fermation Dedicated Acresque 6161 Pictured Cliffs Blanco Pictured Cliffs 149.31 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? 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. CERTIFICATION I hereby certify that the information contoined herein is true and complete to the best of my knowledge and belief. 8901 Company 1978 July SF-078051 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. JUL 2 5 1978 OIL CON. COM Date Surveyed DIST. 3

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P O BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

#### Multi-Point Surface Use Plan Neil #16

- 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.
- Location of Tank Batteries, Production Facilities, and Production 4. 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 Kiffin Canyon Water Hole.
- Source of Construction Materials No additional materials will be 6. 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 high sandstone ledges and rolling hills with sagebrush growing. Coyote run 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.

JUL 25 1978 OIL CON. COM. BIST. 3

D. C. Walker

Project Drilling Engineer

#### Operations Plan - Neil #16

I. Location: 1820'N, 890'E, Section 4, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Pictured Cliffs <u>Elevation:</u> 6161'GR

#### II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:

Ojo Alamo 1050' Pictured Cliffs 2850'

Kirtland 1130' Lewis 3020'

Fruitland 2270' Total Depth 3065'

- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Testing: none

#### III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1979 Drilling Program - approximately 4 days to complete.

B. Circulating Medium: Treated water and a low solids gel base mud will be used from surface to TD.

### IV. Materials:

A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4"	120 <b>'</b>	8 5/8"	24.0# J-55
	6 3/4"	3065'	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 1/16/1621s and one 2 7/8" latch down plug.

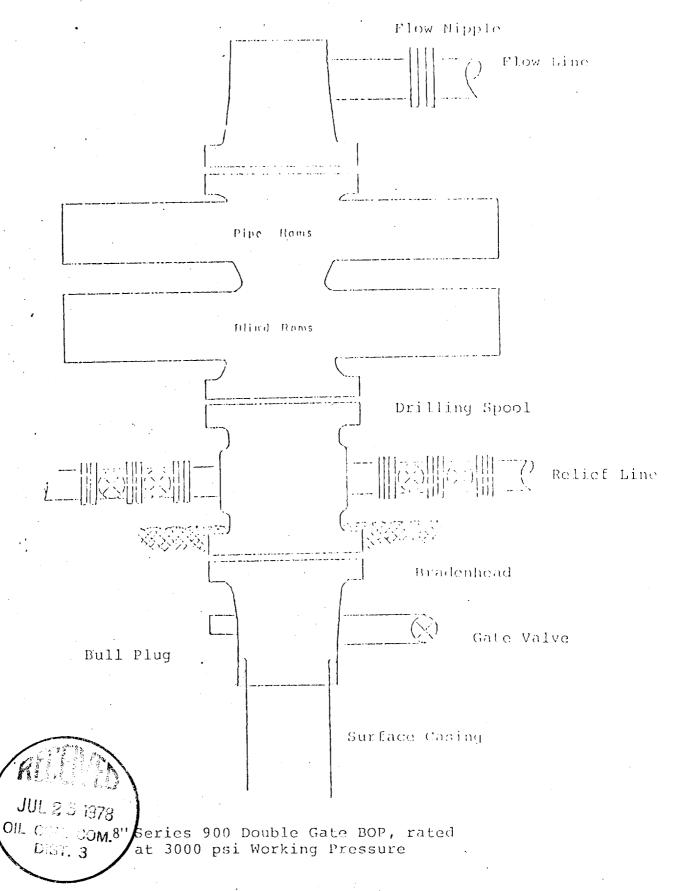
- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)

### V. <u>Cementing:</u>

8 5/8" surface casing - 90 sks. of 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 hrs. Test casing wellhead and BOP to 600#/30 minutes.

2 7/8" production - 329 sks. 65/35 Class "B" Poz with 6% gel, 2% CaCl<sub>2</sub>, and 8.3 gallons water per sack followed by 70 sks.Class "B" neat cement (615 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

## Typical Mud Drilled N.O.P. Installation for Pictured Cliffs Well



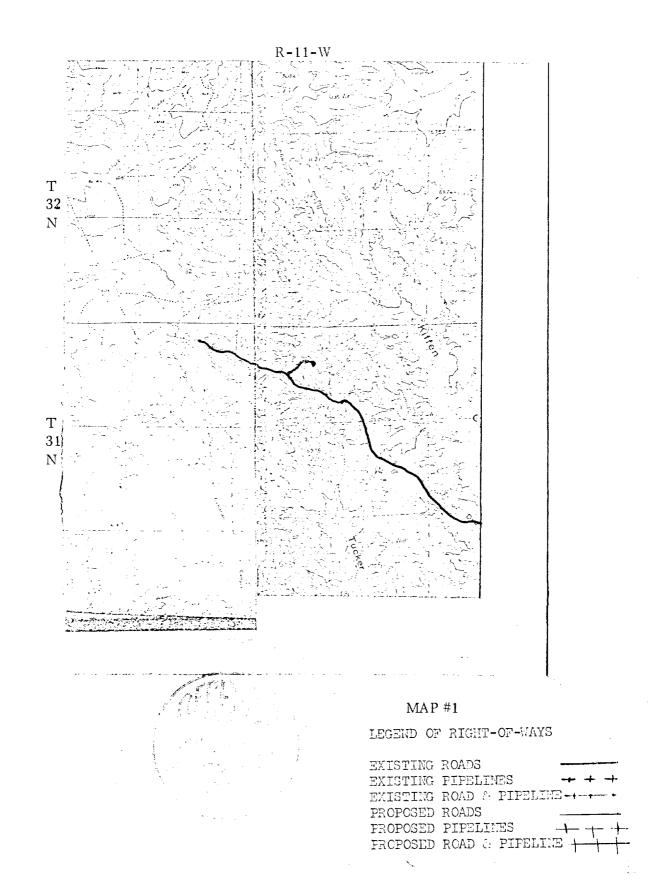
Scale: 12" = 20

,001 ent & LE 20, Tank Much 100,100 Reserve Pit Jan Constant 27 H Im

El Paso Natural Typical Location

JUL 25 1978 OIL CON. COM. DIST. 3

# EL PASO NATURAL GAS COMPANY Neil #16 NE 4-31-11



# EL PASO NATURAL GAS COMPANY Neil #16 NE 4-31-11

