## SUBMIT IN TRIPLICATE\*

(Other instructions or reverse side)

Form approved.

n		Budget	Bureau	No.	42-R1425.
	30	0	45	- حے -	13/80

UNITE	ED $S$	STATI	ES
DEPARTMENT	OF	THE	INTERIOR

	5. LEASE DESIGNATION AND SERIAL NO.							
	SF 078051							
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  6. IF INDIAN, ALLOTTEE OR TRIBE NAME								
DRILL X DEEPEN PLUG BACK DEEPEN PLUG BACK						7. UNIT AGREEMENT NAME		
	AS X OTHER	re 🗌	8. FARM OR LEASE NAME					
2. NAME OF OPERATOR						Neil		
El Paso N	atural Gas Co		9. WELL NO.					
3. ADDRESS OF OPERATOR						_ 20		
	PO Box 990, Farmington, NM 87401 10. FIELD AND POOL, OR WILDCAT							
4. LOCATION OF WELL (R At surface	•		th any S	tate requirements.*)		Blanco Pic.Cliffs		
At proposed prod. zon	1710'S, 10	630'W				11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 33, T-32-N, R-11-W		
						NMPM /		
14. DISTANCE IN MILES A			T OFFICE	;■		12. COUNTY OR PARISH 13. STATE		
	North of Azte	ec, NM				San Juan   NM		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	:	0.201	16. NO	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL		
(Also to nearest drig	unit line, if any)	930'	-	2218.66		<b>/</b> 160.00		
18. DISTANCE FROM PROP TO NEAREST WELL, DO OR APPLIED FOR, ON TH	OSED LOCATION* RHLLING, COMPLETED, IS LEASE, FT.	800'	19. PR	PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS ROTARY				
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*		
23.	I	PROPOSED CASI	NG AND	CEMENTING PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEMENT		
12 1/4"	8 5/8"	24.0#		120'	106	cu.ft.circ.to surface		
6 3/4"	2 7/8"	6.4#			1	639 cu.ft.to cover Ojo Alar		
						ctured 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.				A.			
The SW/4 of Section 33 is dedicated to this well.								
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If drill or deepen directions	proposal is to deep	pen or p	lug back, give data on pr	esent prod	luctive zone and proposed new productive d and true vertical depths. Give blowout		
SIGNED	J. Busco		TLE	Drilling	Cler	C DATE July 24, 1978		
(This space for Fede	ral or State office use)							
PERMIT NO.			<del></del> -	APPROVAL DATE				

of Frank

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY \_\_\_

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

Poin C-102 Supersedes C-127 Effective 1-1-65

All distances must be from the outer boundaries of the Section Lease Well No. EL PASO NATURAL GAS COMPANY Neil (SF-078051) 20 Unit Letter Section Township Range County K 32N HIL San Juan Actual Postage Location of Well: South 1630 feet from the line and West feet from the Ground Level Elev. Producing Fermation Dedicated Acreage: 6176 Pictured Cliffs Blanco Pictured Cliffs 160.00 1. Outline the acrenge 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, climinating 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. Drilling Clerk El Paso Natural Gas Co. Company July 25, 1978 Sec ·33 SF-078051 I hereby certify that the well location shown on this plot 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 hest of my knowledge and belief. Date Surveyed July 8



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

# Multi-Point Surface Use Plan Neil #20

- 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 Kiffin 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 rolling hills and sandstone ledges with pinon and sagebrush growing. Cattle graze 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. C. Walker

Project Drilling Engineer

## Operations Plan - Neil #20

I. <u>Location</u>: 1710'S, 1630'W, Section 33, T-32-N, R-11-W, San Juan County, NM Field: Blanco Pictured Cliffs Elevation: 6176'GR

## II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:

Ojo Alamo 976' Pictured Cliffs 2866'

Kirtland 1076' Lewis 3030'

Fruitland 2410' Total Depth 3070'

- 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:

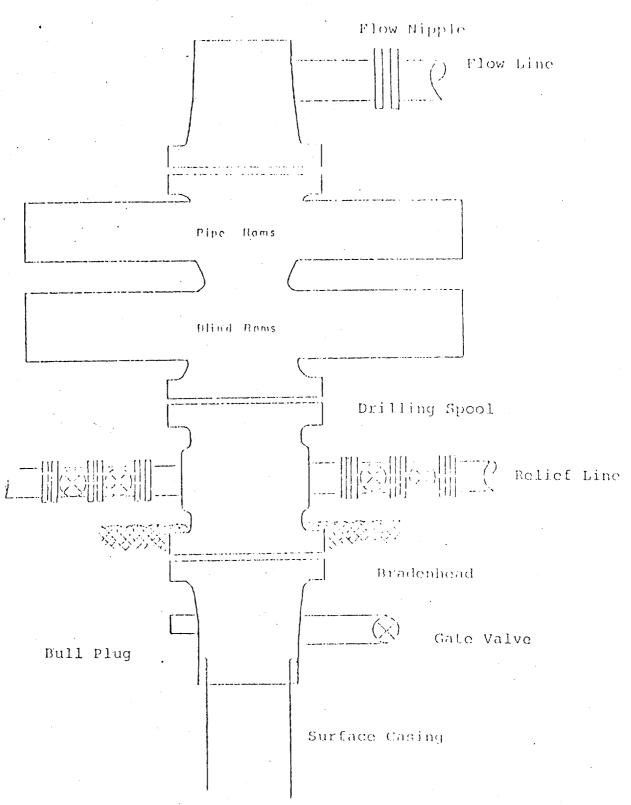
Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		12 1/4"	120'	8 5/8"	24.0# J-55
		6 3/4"	3070 <b>'</b>	2 7/8"	6.4# J-55

- 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: Larkin wellhead (fig. 75)

## V. Cementing:

- 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 343 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 (639 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

# Typical Mud brillet R.O.P. Installation for Pictured Clifts Well

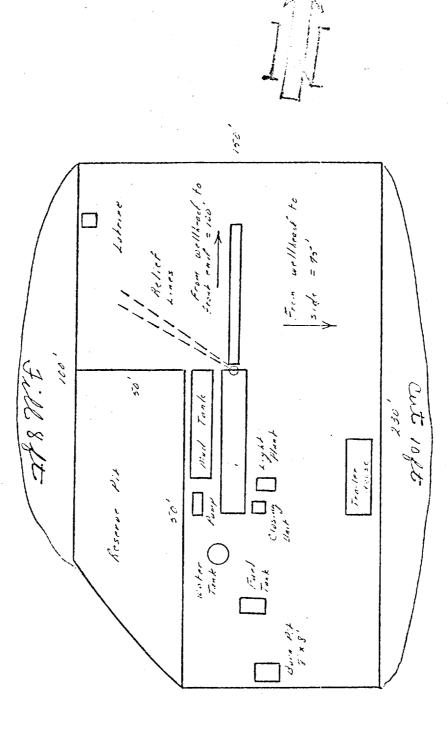


8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

Typical Location Plat for Pictured Clift's Well

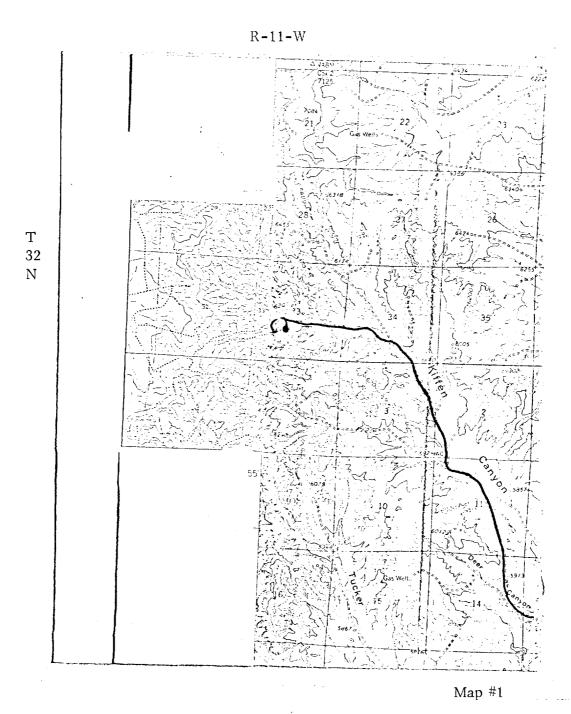
Typical Location Plat for Pictured Clift's Well

The # 20 SW 33-32-11 FC



Scale : 12" = 70"

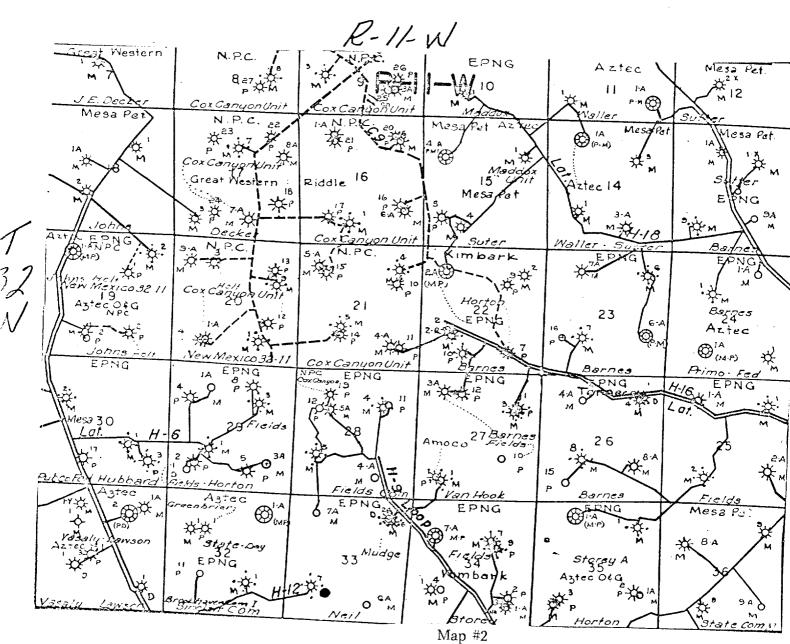
# EL PASO NATURAL GAS COMPANY Neil #20 SW 33-32-11



LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
EXISTING	PIPELINES	++++
EXISTING	ROAD & PIPELIN	E
PROPOSED	RCADS	
PROPOSED	PIPELINES	+++
PROPOSED	ROAD & PIPELIN	E + + +

# EL PASO NATURAL GAS COMPANY Neil #20 SW 33-32-11



Proposed Location