Form 9-331 C (May 1963)			SUBMIT IN TI (Other instru-		Form approve Budget Bureau	d. 1 No. 42-R1425.
		TED STATES	reverse s		20 30 40 =	こつうつロシ
	DEPARTMENT	r of the in	ITERIOR	۲	5. LEASE DESIGNATION	AND SERIAL NO.
	GEOLO	GICAL SURVE	Y		NM 013688	
	Y FOR PERMIT	TO DRILL, D	EEPEN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
DRILL DEEPEN DEEPEN PLUG BACK				ск 🗆 📑	7. UNIT AGREEMENT N	AME
b. TYPE OF WELL	18 K]		SINGLE X MULTIP	,rm  -	8. FARM OR LEASE NAB	4E
OIL GAS WELL OTHER SINGLE X MULTIPLE  2. NAME OF OPERATOR					Atlantic	
El Paso Nat	cural Gas Com	ıpany		-	9. WELL NO.	
3. ADDRESS OF OPERATOR					13	-
	, Farmington,			[	10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (R At surface			any State requirements.*)		Blanco Pic.	.Cliffs /
) At surface	1020'S, 16	80'E		. [	11. SEC., T., R., M., OR I	BLK.
At proposed prod. zon	e			**	Sec. 23, T-31-N, R-10-W	
•	same				NMPM	•
	AND DIRECTION FROM NEA		office*		12. COUNTY OR PARISH	
10 miles Ea	ast of Aztec,	NM			San Juan	NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	r Ine, ft.	1020'	16. No. of acres in lease 979.89		ACRES ASSIGNED IS WELL 156.86	138.70
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	OSED LOCATION* RILLING, COMPLETED,	400'	19. PROPOSED DEPTH 3325	20. ROTARY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)			!	22. APPROX. DATE WO	BK WILL START*
6401'GL						1.3
23.	1	PROPOSED CASING	3 AND CEMENTING PROGR.	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO		QUANTITY OF CEMENT		
12 1/4"	8 5/8"	24.0#	120'	_	ı.ft. to su	
6 3/4"	2 7/8"	6.4#	3325'	569 cı	i.ft.to cove	er Ojo Ala
	l	i		,		
	•			*		
	<b>_</b> .	<u>.</u> .				
Selectively	y perforate a	ınd sandwat	ter fracture the	e Pictu	ired Cliffs	tormation
				** .		
- 0000	7 6000		1 1 7			
			double gate pre			
pring and f	orbe rams wri	.i be useu	for blow out p	revent	conton this	METT.
mbic cac is	dedicated.			-4		720
THIS Gas IS	dedicated.				NOV 211	3/9
					OIL CON. C	OM. /
					DIST.	3 /
The SE/4 of	F Section 23	is dedicat	ted to this wel	1.	0,51.	
1110 011/4 01			n or plug back give date on p			

IN ABOVE SPACE DESCRIBE PROFOSED 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.

Drilling Clerk SIGNED (This space for Federal or State office use) PERMIT NO. . APPROVAL DATE NOV 1-7-1978 I. S. GEOLOGICAL SURVEY

ok Frank

\*See Instructions On Reverse Side

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

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

Effective 1-1-65 All distances must be from the outer boundaries of the Section. Operator Lease Well No. PASO NATURAL GAS COMPANY ATLANTIC (NM-013688) Unit Letter Township Range County 23 104San Juan Actual Footage Location of Well: 1020 South feet from the 1680 line and feet from the East Ground Level Elev. Producing Formation Pool Dedicated Acreage: 6401 Pictured Cliffs -138.70-156.86 res Blanco Pictured Cliffs / 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? Communitization ☐ Y Yes 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 contained herein is true and complete to the best of my knowledge and belief. Laco Name <u>Drilling Clerk</u> Position Paso Natural Gas Co. Company November 17, 1978 Sec 23 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. <u> 16801</u> NM-013688

330

660

1320 1550

1980 2310



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

## Multi-Point Surface Use Plan Atlantic #13

- 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 Hart Canyon 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,

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 sagebrush flats with sagebrush and cedar 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 - Atlantic #13

I. Location: 1020'S, 1680'E, Section 23, T-31-N, R-10-W, San Juan County, NM

Field: Blanco Pictured Cliffs

Elevation: 6401'GL

#### II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:

Ojo Alamo	1475'	Pictured Cliffs	3156 <b>'</b>
Kirtland	1530'	Lewis	3286'
Fruitland	2775 <b>'</b>	Total Depth	3325 <b>'</b>

- 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:

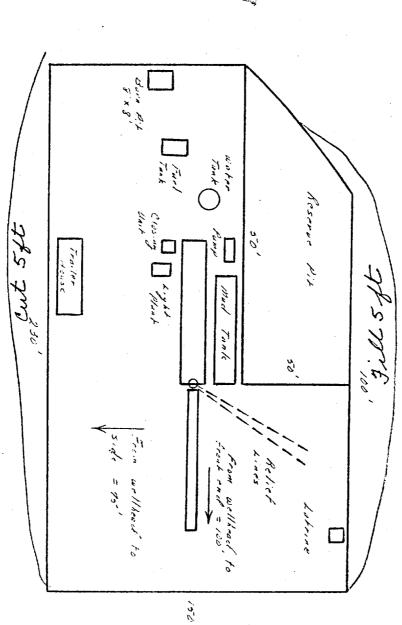
A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4"	120'	8 5/8"	24.0# J-55
	6 3/4"	3325'	2 7/8"	6.4# J-55

- 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 300sks. 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 (569 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

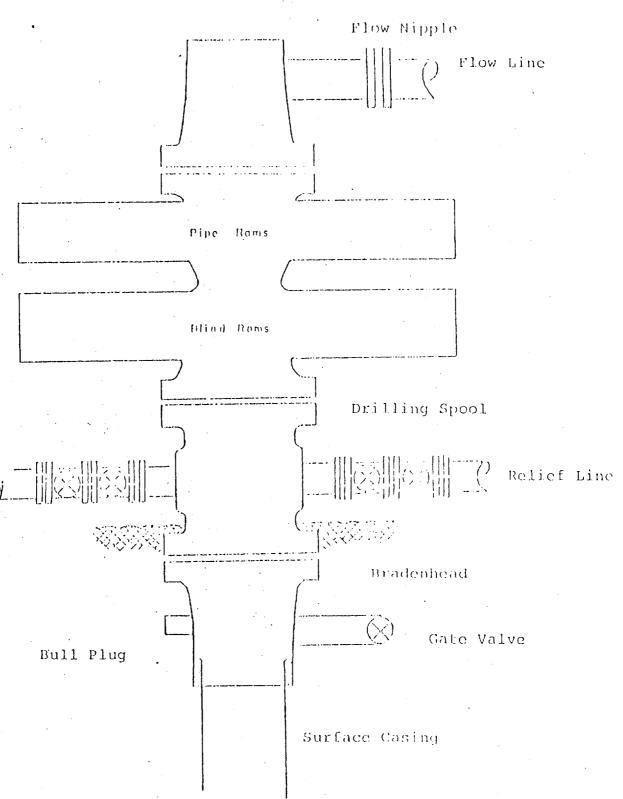
M



Typical Location Plat for Pictured Clifts Well

Scale : 12" = 20

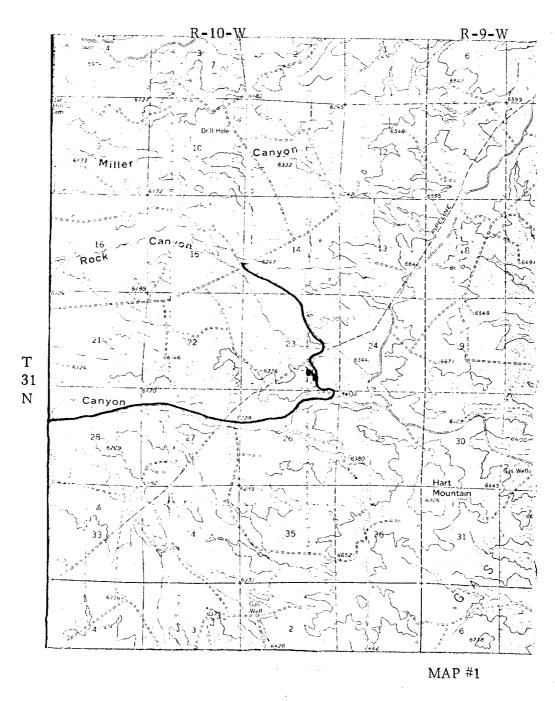
# Typical Mud Drille L W.O.P. Installation for Pictured Cliffs Well



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

1

#### EL PASO NATURAL GAS COMPANY Atlantic #13 SE 23-31-10



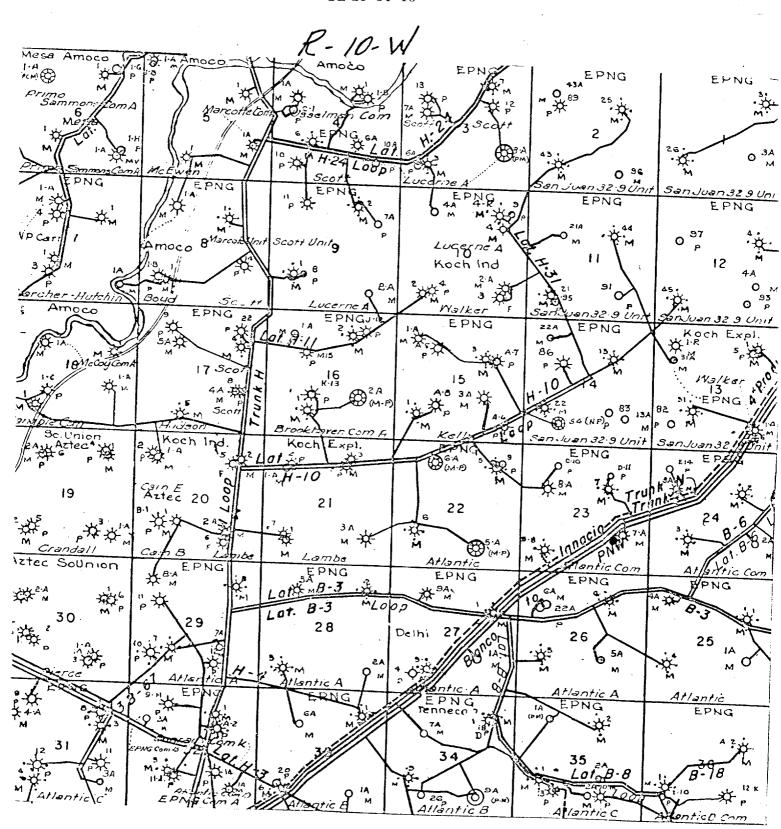
#### LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
EXISTING	PIPELINES	+++
EXISTING	ROAD S PIPELI	NE <del>- + +</del> -
PROPOSED	ROADS	·
PROPOSED	PIPELINES	+++
PROPOSED	RCAD & PIPELI	NE

### EL PASO NATURAL GAS COMPANY Atlantic #13 SE 23-31-10

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Map #2 Proposed Location