SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

LINITED STATES

(Other instructions on

DEPARTMENT OF THE INTERIOR					30-075 5. LEASE DESIGNATION	-23378 LAND SERIAL NO.		
GEOLOGICAL SURVEY					SF 080917	AND BERIAL NO.		
APPLICATIO	N FOR PERMIT	O DRILL, D	EEP	EN, OR F	LUG E	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK							· · · · · · · · · · · · · · · · · · ·	
DR	ILL 🖺	DEEPEN []	PL	UG BA	CK 🗌	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL	140 570		~.			—		
WELL	VELL OTHER			NGLE X	MULTIP ZONE	r. [8. FARM OR LEASE NA	
2. NAME OF OPERATOR							Atlantic E	
El Paso Na	tural Gas Com	ıpany					9. WELL NO.	
3. ADDRESS OF OPERATOR							5A	
PO Box 289	, Farmington,	NM 8740	1				10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)					Blanco Mes	a Verde 🕳		
At surface	At surface 1040'N, 840'W					11. SEC., T., R., M., OR BLK.		
At proposed prod. zo:	n e					_	Sec. 5, T-30-N, R-10-W	
					· ·	-N, K-IO-W		
Same 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*					NMPM 12. COUNTY OR PARISH	I 13 STATE		
0 1								
15. DISTANCE FROM PROP	rtheast of Az	tec, NM	16. NO	OF ACRES IN	LEASE	17 NO (San Juan OF ACRES ASSIGNED	NM
LOCATION TO NEARES PROPERTY OR LEASE			20,				HIS WELL	1/
(Also to nearest drl	(Also to nearest drig. unit line, if any) 840 2538.1		8.18			322.11		
TO NEAREST WELL, DRILLING, COMPLETED,			OPOSED DEPTH		20. ROTARY OR CABLE TOOLS			
			Rotar	:У [:]				
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)						22. APPROX. DATE W	ORK WILL START*
6141 ' GL								
23.	P	ROPOSED CASIN	G ANI	CEMENTING	PROGRA	M	<u> </u>	
SIZE OF HOLE	OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH		1	QUANTITY OF CEME	NT			
13 3/4"	9 5/8"	32 3#		20	ገ '	224 6	cu.ft. to ci	rculato
8 3/4"	7"	20.0#			u.ft.to cov			
6 1/4"	4 1/2"line	20001		3000-5			u. ft to fil	

Selectively perforate and sandwater fracture the 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.

and the second s		
The N/2 of Section 5 is	dedicated to this well-	EIVED \
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If poone. If proposal is to drill or deepen directional preventer program, if any.	roposal is to deepen or plug back, give to be pre- ly, give pertinent data on subsurface ideations and	measurer and true vertical depths. Give blowdit
81GNED D. Gusco	TITLEDrilling	COLOGICAL SURVEY DATE 1-25-79
(This space for Federal or State office use)	F	
PERMIT NO.	APPROVAL DATE	
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	
oh Freh		5 1979
	*See Instructions On Reverse Side	FEB 5 1979

NM OCC

WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer houndaries of the Section Gerator Well 136. EL PASO NATURAL GAS COMPANY (SF-080917) ATLANTIC "B" County 30N 104 San Juan 1070 feet from the line and feet from the West Ground Level Elev. Producing Formation Pool Dedicated Acreage: 61h1 Mesa Verde Blanco Mesa Verde 322.11 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 ____ Yes 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 Commissioa. CERTIFICATION I hereby certify that the information contained herein is true and complete to the SF-080917 best of my knowledge and belief. 3401 Position El Paso Natural Gas Co. January 29, 1979 Sec 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 OIL CON. COM. DIST. 3 1320 1680 1980 2310 2640 1500 1000



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

Multi-Point Surface Use Plan Atlantic B #5A

- 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.

T. A. Aimes

Project Drilling Engineer

Operations Plan Atlantic B #5A

I. Location: 1040'N, 840'W, Section 5, T-30-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6141'GL

II. Geology:

Α.	Formation Tops:	Surface	Nacimiento	Lewis	2950 '
		Ojo Alamo	1370'	Mesa Verde	4300'
		Kirtland	1465'	Menefee	4600'
	,	Fruitland	2410'	Point Lookout	5015 '
		Pic.Cliffs	2800 '	Total Depth	5465'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4290', 4590', 5005' 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 3150'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3150'	7"	20.0# K-55
		6 1/4"	3000-5465	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - B & W guide shoe (Prod. No. FC 06-09611-0200)

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Howco self-fill insert float valve (Price Ref.36A&37), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar(fig. 404 M&F).
- C. Tubing: 5465' 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.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

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 175 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 (401 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 309 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (430 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

250' 11 Lobrace 10 11 Relich Lobrace 10 11 Relich Lobrace 10 11 Locat and = 100 in 10 in 1

Cres.73

Tra. 100 120.30

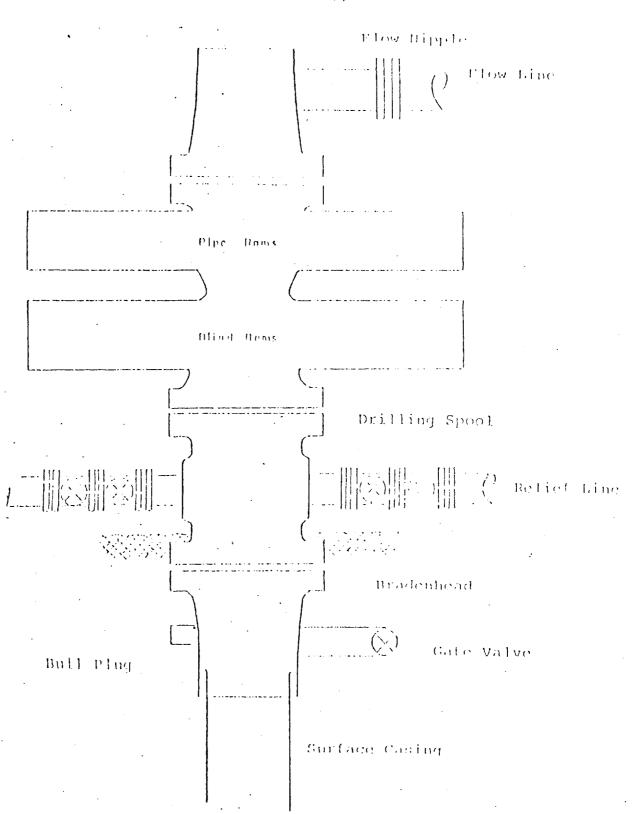
Typical Lecation Plat for Pictured Cliffs Well Well Name:

Fill 5ft

Reserve Pix

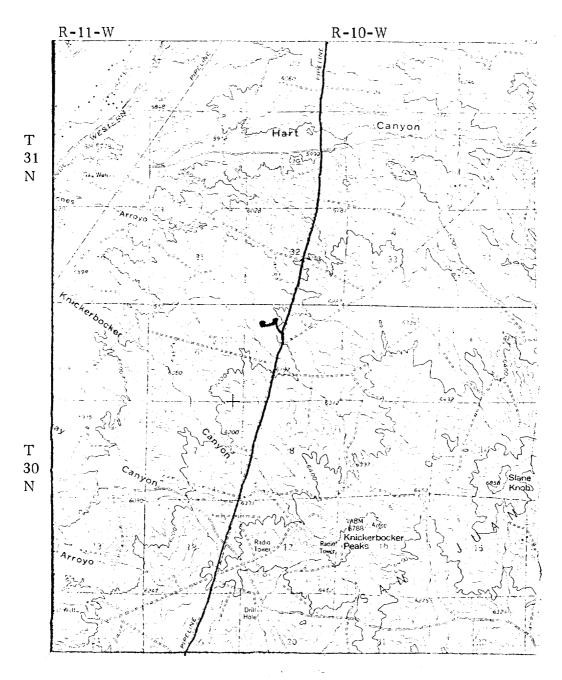
,0,

Scale: 12" = 10



Series 900 Double Gale 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 Atlantic B #5A NW 5-30-10

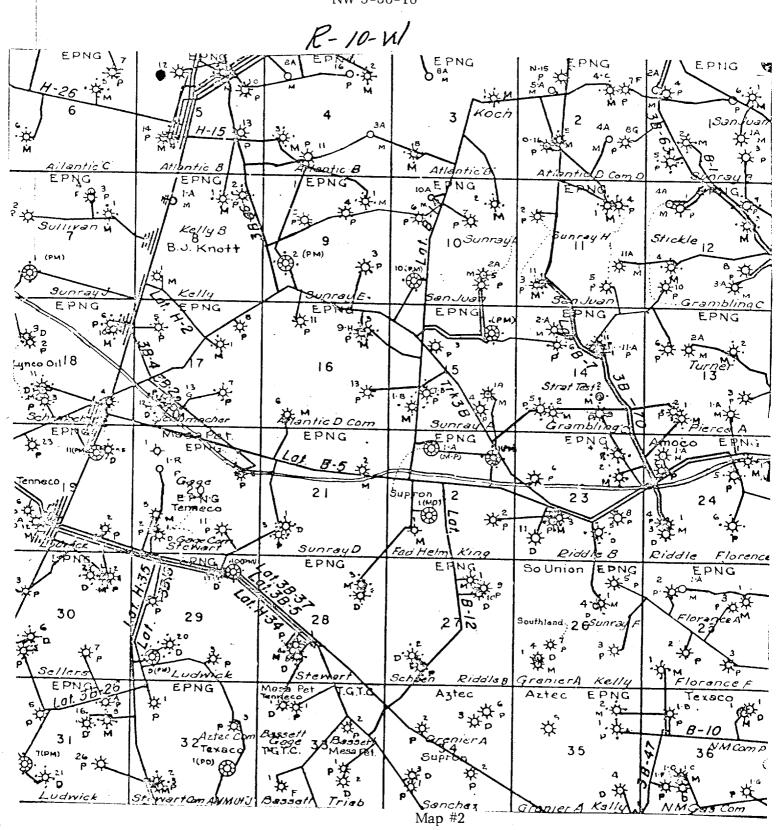


MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
	PIPELINES	+++
	ROAD & PIPELI	ME
PROPOSED	ROADS	
PROPOSED	PIPELINES	+++
PROPOSED	ROAD & PIPELI	NE +

EL PASO NATURAL GAS COMPANY Atlantic B #5A NW 5-30-10



Proposed Location