SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

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5.	LEASE	DESIGNATI	ON AND	CEDIAL	NO.

		T OF THE INT	LICION		5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	GICAL SURVEY			NM 0607
APPLICATIO	N FOR PERMIT	TO DRILL, DEI	PEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK DR	ILL 🖺	DEEPEN [PLUG BA	CK 🗆	7. UNIT AGREEMENT NAME
	VELL OTHER		SINGLE MULTI	PLE X	8. FARM OR LEASE NAME
NAME OF OPERATOR	VELL CI OTHER		ZONE ZONE		Atlantic C
El Paso Na	tural Gas Cor	npany			9. WELL NO.
ADDRESS OF OPERATOR		274 07401		··	5A
	, Farmington,		<u> </u>		10. FIELD AND POOL, OR WILDCAT
At surface	Report location clearly and		y State requirements.*)		Blanco MV & Blanc
870'S, 1840'E At proposed prod. zone				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T-30-N, R-10	
no proposed prouves					NMPM
. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OF	FICE*		12. COUNTY OR PARISH 13. STATE
5 miles Ea	st of Aztec,				San Juan NM
DISTANCE FROM PROPLOCATION TO NEARES	T		NO. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL
(Also to nearest dri	g. unit line, if any)	870'	2150.21		160.78 & 321.
	DRILLING, COMPLETED,	i	PROPOSED DEPTH		ARY OR CABLE TOOLS
OR APPLIED FOR, ON TH	nether DF, RT, GR, etc.)	3500 1	5460 '	Rota	Y 22. APPROX. DATE WORK WILL START
6176 GR	lether Dr. RI, GR. etc.)				22. APPROX. DATE WORK WILL START
0170 GR .		PROPOSED CASING	AND CEMENTING PROGR	AW	
SIZE OF HOLE	т	1		,A.M.	OT A NOVOY OF OWNER
	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	-	QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#	200'		cu.ft. to circulate cu.ft.to cover Ojo A
0 2 / 4 !!					
8 3/4" 6 1/4"	4 1/2"	10.5#	2980-5460'	406 (cu.ft.to fill to 313
6 1/4" Selectively Pictured C. A 3000 psi blind and p This gas is The E/2 of	y perforate a liffs formati WP and 6000 pipe rams wil s dedicated. Section 6 is	10.5# and sandwate on psi test do ll be used	2980-5460 r fracture the puble gate present blow out p	e Mesaventer	cu.ft.to fill to 313 a Verde and r equipped with tion on this well.
6 1/4" Selectively Pictured C. A 3000 psi blind and p This gas is The E/2 of	y perforate a liffs formati WP and 6000 pipe rams wil s dedicated. Section 6 is PROPOSED PROGRAM: If drill or deepen directions	10.5# and sandwate on psi test do ll be used	2980-5460 r fracture the puble gate present blow out p	e Mesaventer	cu.ft.to fill to 313 a Verde and r equipped with tion on this well.
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Selectively Pictured C. A 3000 psi blind and publind and public properties of the E/2 of ABOVE SPACE DESCRIBENCE. If proposal is to eventer program, if an and public properties of the E/2 of ABOVE SPACE DESCRIBENCE. If proposal is to eventer program, if an and public properties of the E/2 of ABOVE SPACE DESCRIBENCE.	y perforate a liffs formati WP and 6000 pipe rams wil s dedicated. Section 6 is PROPOSED PROGRAM: If drill or deepen directions	10.5# and sandwate on psi test do ll be used f	2980-5460 It fracture the suble gate present blow out publications well. The play back, five data on particular on subsurface locations a	e Mesaventer	cu.ft.to fill to 313 a Verde and r equipped with tion on this well.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section. Operator Well No. EL PASO NATURAL GAS COMPANY (NM-0607) ATLANTIC C Unit Letter Section Range County 0 6 30N 100 San Juan Actual Footage Location of Well: feet from the South 1870, line and feet from the Ground Level Elev. Producing Formation PooBlanco Pictured Cliffs Ext Dedicated Acreage: 6176 Pictured Cliffs-Mesa Verde Blanco Mesa Verde 160.78 & 321.98_{cres} 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Drilling Clerk C-#5 El Paso Natural Gas Co July 21, 1978 I hereby certify that the well location shown on this plat was plotted from field NM-0607 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. 18401 1987 C Date Surveyed

500

1650

1980

2310



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

Multi-Point Surface Use Plan Atlantic C #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 Knickerbocker 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 fiendling Wa wi Lo ar JUL 25 1978 OIL CON. COM. 10 DIST. 3

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, pinon 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 C #5A

I. Location: 870'S, 1840'E, Section 6, T-30-N, R-10-W, San Juan County, NM

Field: Blanco MV & Blanco PC Elevation: 6176'GR

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	2930'
			Ojo Alamo	1386'	Mesa Verde	4354'
			Kirtland	1490'	Menefee	4480'
			Fruitland	2470 '	Point Lookout	5010 '
			Pic.Cliffs	2790 '	Total Depth	5460 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4344', 4470', 5000' 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 3130'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Prog	gram: Hole Size	Depth	Casing Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	32.3 # H-40
	8 3/4"	3130'	7"	20.0# K-55
	6 1/4"	2980-5460'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 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. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).

C. Tubing: 5460' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Table will be open ended.

2930' of 1 1/4", 2.33# J-55 IJ taling with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing producing zones with a packer.

[][]

D. Wellhead Equipment: 10" 900 x 9 5/8" Casing head? 10" 900 x 6" 900 xmas tree.

V. Cementing:

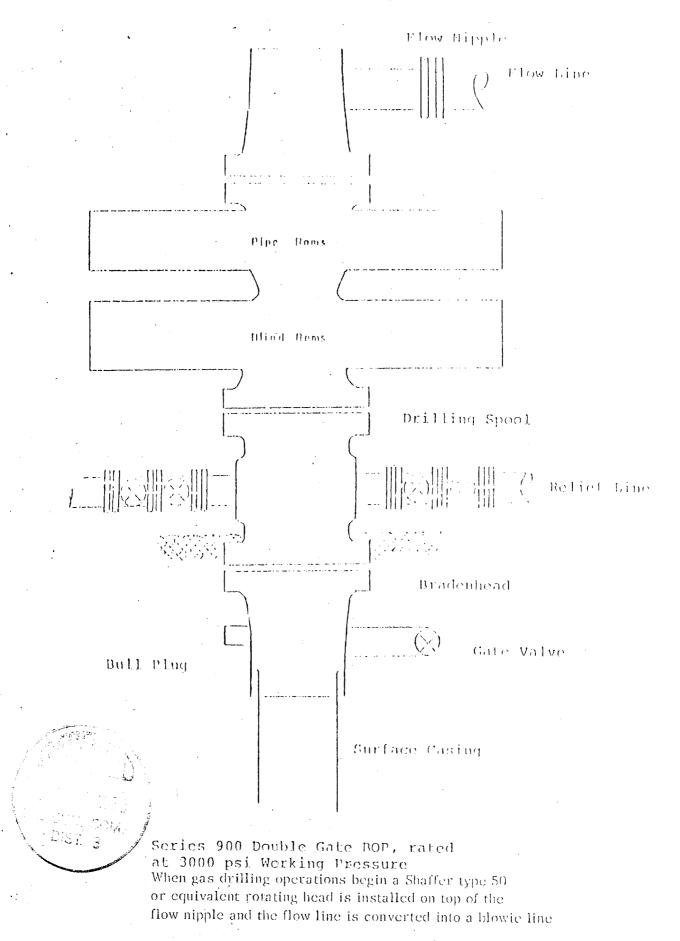
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 170 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 (393 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 292 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (406 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



Typical B.O.E. Installation for Mess Verde Well



from wellbrush to took Jul 5pt Cut stt 757 Driver Rocks , 251

P.C. - M.U.

atlantic C#5A SE 6-30-10 PC

Netural 645

Acres 1. Learne 150 February Secret Secret

15/ 1030

Well Name:

EL PASO NATURAL GAS COMPANY Atlantic C #5A (PM) SE 6-30-10

