SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

UNITED STATES
DEPARTMENT OF THE INTERIOR

	Budget	Bureau	No.	42-R14	25
30 -	04	5-5	2	506	
5. LEA	SE DESIG	NATION A	ND B	ERIAL N	0.

•		CAL SURVE					NM_013688_	OR MINISTER NAME
APPLICATION	FOR PERMIT TO	DRILL, [DEEPE	N, OR P	LUG B	ACK	G. IF INDIAN, ALLOTTE	OR TRIBE NAME
a. TYPE OF WORK	L 🛭	DEEPEN [JG BAC		7. UNIT AGREEMENT N	AME
b. TYPE OF WELL				NGLE	MULTIPE	.E [S. FARM OR LEASE NAM	YE.
WELL WELL X OTHER ZONZ X								
NAME OF OPERATOR	tural Gas Com	nany					9. WELL NO.	· · · · · · · · · · · · · · · · · · ·
3. ADDRESS OF OPERATOR	Curur dub con	. <u>Pu1</u>					4A	
	, Farmington,	NM 874	401				10. FIELD AND POOL,	N WILDCAT
A LOCATION OF WELL (Rei	port location clearly and in	accordance wit	th any S	tate requireme	nts.*)		Blanco Mesa	Verde
At surface	1070'N, 925	5'W					11. SEC., T., R., M., OR AND SURVEY OR AS SEC. 25, T-31	REA
At proposed prod. zone							NMPM	112 00 00
14. DISTANCE IN MILES A	ND DIRECTION FROM NEARE	ST TOWN OR POS	T OFFICE	C*			12. COUNTY OR PARISE	1
							San Juan	NM
15. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LI	NE. FT.		16. NO). OF ACRES IN	LEASE	17. NO.	OF ACRES ASSIGNED THIS WELL 314.73	
(Also to nearest drig. 18. DISTANCE FROM PROPORE TO NEAREST WELL, DROWN APPLIED FOR, ON THE	SED LOCATION* ILLING, COMPLETED,		18. 1 1010888 23.11.		Rota:	ary		
21. ELEVATIONS (Show whe 6408 GL			<u>·</u>				22. APPROX. DATE W	ORK WILL START*
23.	PF	OPOSED CASI	NG ANI	D CEMENTIN	G PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	FOOT	SETTING	DEPTH		QUANTITY OF CEMI	:NT
13 3/4"	9 5/8"	32.3#		20	0'	224	cu.ft. to ci	rculate_
8 3/4"	7"	20.0#		354	5'	449	cu.ft.to co	ver Ojo Ala
6 1/4"	4 1/2"	10.5#		3395-5	820'	422	cu.ft. to fi	.11 to 3395'
3 3000 nei	y perforate a WP and 6000 pipe rams wil	psi tes	t do	uble qa	te pr	event	er equipped	with
This gas i	s dedicated.						APR 1 5 10	97 <i>7</i>
The W/2 of	Section 25	is dedic	ated	l to thi	s wel			<i>,</i> , , , , , , , , , , , , , , , , , ,
in above space describ zone. If proposal is to preventer program, if an	E PROPOSED PROGRAM: If drill or deepen directiona ny.	proposal is to de lly, give pertine	eepen or ent data	plug back, giv on subsurface	e data on locations	present <u>pr</u> and measu	oductive zone and proported and true vertical de	sed new productive oths. Give blowout
24. BIGNED A.	! Busco		TITLE	Dri	lling	Cler	k DATE A	oril 14, 19
(This space for Fed	eral or State office use)							
PERMIT NO.				APPROVAL DA	TE			
APPROVED BY			TITLE			· · · · · · · · · · · · · · · · · · ·	DATE	

*See Instructions On Reverse Side

NWU 3-428

1760

WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-1-65 All distances must be from the outer boundaries of the Section. Well No. Operator (NM-013688 4A EL PASO NATURAL GAS COMPANY ATLANTIC Section Township Range County Unit Letter SAN JUAN 31-N 10-W T Actual Footage Location of Well: 1070 NORTH WEST feet from the feet from the Dedicated Acreage: Ground Level Elev. Producing Formation 6408 BLANCO MESA VERDE 314.73 MESA VERDE 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 contained herein is true and complete to the best of my knowledge and belief. Original Signed by D. G. Brisco Name Position Company SECTION 25 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or NM-013688 under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed MARCH 30, 1977 Registered Professional Engineer

1.320



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Atlantic #4A

- 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 thirty feet (30') 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 a water hole located at the 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.

Multi-Point Surface Use Plan

- Methods of Handling Waste Materials All garbage and trash 7. materials will be put into a burn pit shown on the attached Location Plat No. 1. 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 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 #2 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 green (Federal Standard #595-34127)
- 11. Other Information The terrain is sagebrush ledges and rolling hills covered with pinon and cedar trees.

 Cattle graze the proposed project site.

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 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.

April 14, 1977

D. R. Read

Division Drilling Engineer

DRR:pb

Operations Plan Atlantic #4A

I. Location: 1070'N, 925'W, Section 25, T-31-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6418'DF

II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewis	33451
	-	Ojo Alamo	1550'	Mesa Verde	4695'
		Kirtland	1600'	Menefee	5015'
	•	Fruitland	2770'	Point Lookout	5420 '
		Pic.Cliffs	3170'	Total Depth	5820'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4685', 5005', 5410' 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 3545'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	3 3	13 3/4"	200'	9 5/8"	32.3 # H-40
		8 3/4"	3545'	7"	20.0# K-55
		6 1/4"	3395-5820'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig. 102)

7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner T.I.W. liner hanger with neoprene packoff. Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5820' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x
 6" 900 xmas tree.

Operations Plan - Atlantic #4A

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.

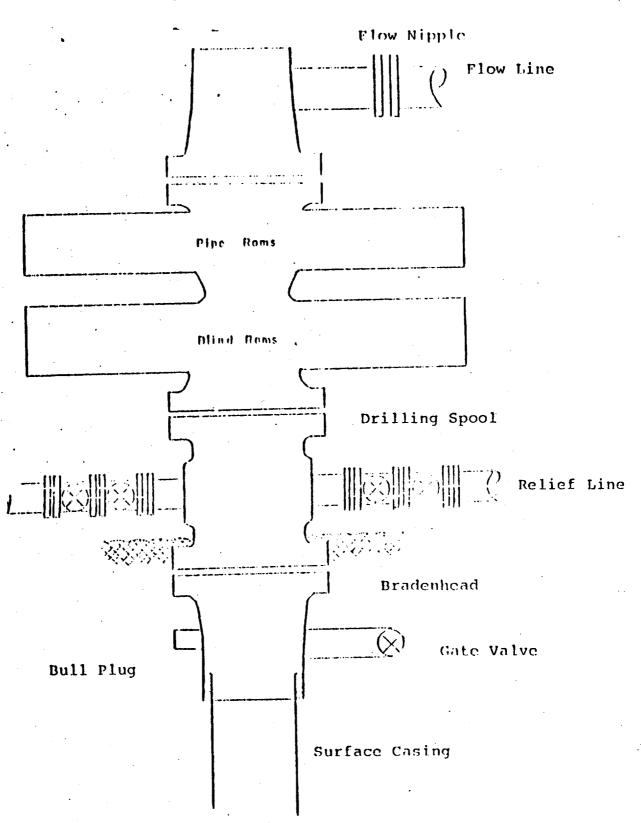
7" intermediate casing - use 126 sks. of 65/35 Class "B" Poz with 12% gel (15.52 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (449 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 234 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (422 cu.ft. of slurry, 70% excess to circulate liner).

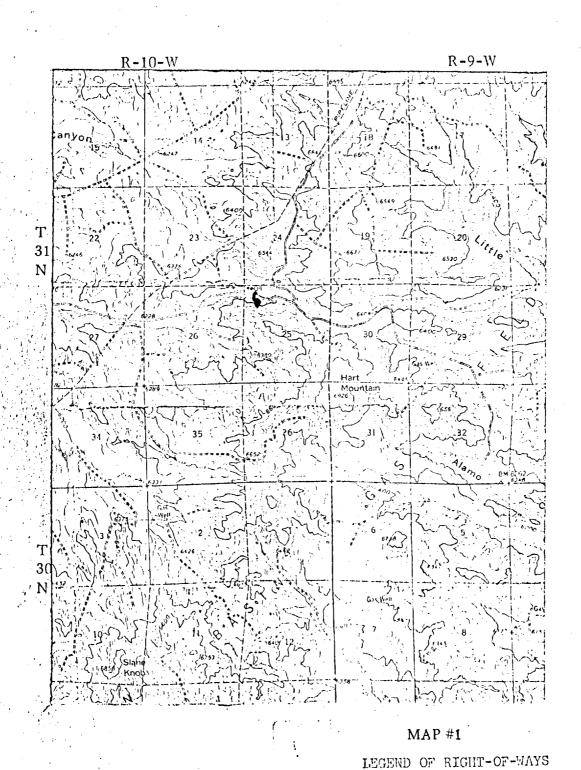
DRR:pb

8. XX. Ruel Tank Tiny. 136, Reserve Drow Works 1114 L Change 14.4 15xt ent for Masa Varde 3, 300 From wellhoad to Bleeve Wells 250

WORTH HINON



Series 900 Double Gate 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

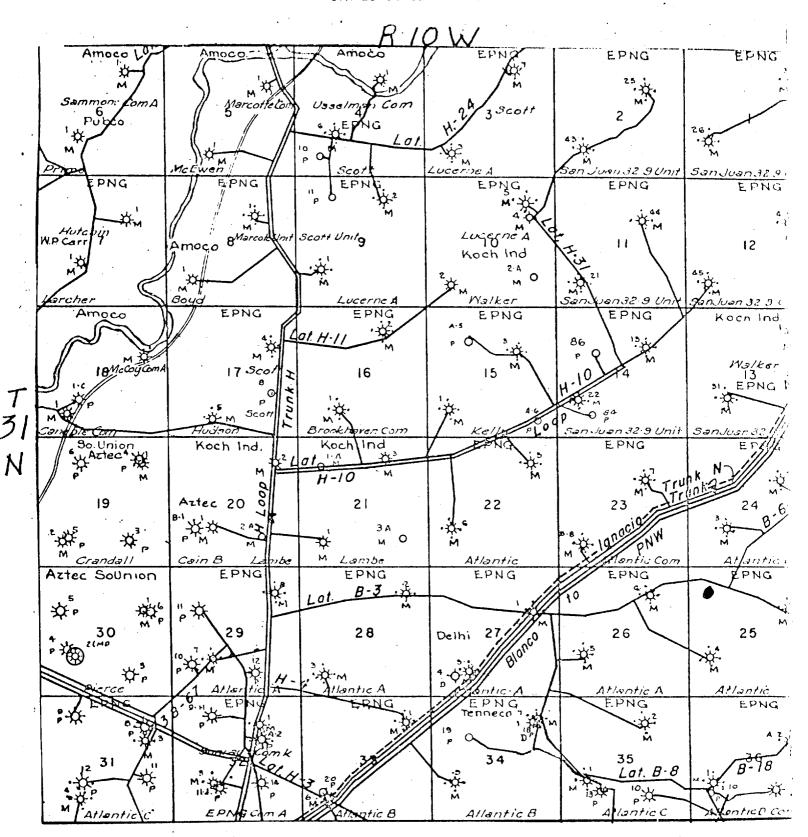


EXISTING ROADS
EXISTING PIPELINES

PROPOSED ROADS
PROPOSED PIPELINES

EXISTING ROAD & PIPELINE

EL PASO NATURAL GAS COMPANY ATLANTIC #4A NW 25-31-10



MAP #2