SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITE	ED S	STATI	ES	
DEPARTMENT	OF	THE	INTERIOR	?

	GEOLOG	SICAL SURVI	EY				SF 078138A	υ.
APPLICATION	Y FOR PERMIT T	O DRILL, I	DEEPEN	1, OR	PLUG I	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAM	a i
a. TYPE OF WORK DRI b. TYPE OF WELL	LL 🖄	DEEPEN [P	LUG BA	ск 🗆	7. UNIT AGREEMENT NAME	
	AS OTHER		SING		MULTI	PLE	8. FARM OR LEASE NAME	_
NAME OF OPERATOR	ELL CI OTHER		ZONI	<u> </u>	ZONE		Storey B -	
El Paso Na	tural Gas Com	pany					9. WELL NO.	
ADDRESS OF OPERATOR	·						lA /	
PO Box 289	, Farmington,	NM 8740	01				10. FIELD AND POOL, OR WILDCAT	
LOCATION OF WELL (Re At surface	eport location clearly and 1775'S, 18		h any Sta	te require	ments.*)		Blanco Mesa Verde	
At proposed prod. zone					_		Sec. 11, T-30-N, R-1	1 _'
At proposed prod. zon	same				•		NMPM	. 1
. DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE*	-			12. COUNTY OR PARISH 13. STATE	
2 miles Eac	st of Aztec,	NM					San Juan NM	
D. DISTANCE FROM PROPO	SED*	1411	16. No.	OF ACRES	IN LEASE	17. No. (OF ACRES ASSIGNED	
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT. . unit line, if any)	1775'		48		1	E/ 319.8	0
3. DISTANCE FROM PROPO TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,	600'	19. PROP	osed dept 51	оо '	Rota:	RY OR CABLE TOOLS	
1. ELEVATIONS (Show when 5869 GL	ether DF, RT, GR, etc.)						22. APPROX. DATE WORK WILL STAR	T*
i	Pi	ROPOSED CASIN	NG AND	EMENTI	NG PROGR	AM		_
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	оот	SETTIN	G DEPTH		QUANTITY OF CEMENT	
13 3/4"	9 5/8"	32.3#		2	00'	224	cu.ft. to circulate	٠
8 3/4"	7"	20.0#		27	85'	182 (cu.ft.to cover Ojo	Al
6 1/4"	4 1/2"line	r 10.5#		2635-	5100'	430 0	cu.ft.to fill to 26	35
Selectively	y perforate a	nd sandwa	ater :	fract	ure th	e Mesa	a Verde formation.	
							e equipped with tion on this well.	
<u></u>	s dedicated.			Agency of the second se	U. S. CS	,	The state of the s	
The $E/2$ of	Section 11 i	s dedicat	ted to	thi:	s well	•		
	drill or deepen directional						uctive zone and proposed new product d and true vertical depths. Give blowe	

(This space for Federal or State office use)

PERMIT NO. _

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL DATE

DATE.

TITLE

TITLE

WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Operator Legse Well No. (SF-078138-A) EL PASO NATURAL GAS COMPANY STOREY "B" lA Unit Letter Section Range J 11 . 30 llW San Juan Actual Footage Location of Well: 1850 line feet from the East line and feet from the Ground Level Elev. Producing Formation Pool Dedicated Acreage: 5869 Blanco Mesa Verde 319.80 Mesa Verde Acres 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? 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. Drilling Clerk 0 <u>El Paso Natural Gas Co.</u> 29, 1979 January Sec 11 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.

1500

1000

660

90

1320 1650 1980 2310



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

Storey B #1A

- 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 Aztec Ditch.
- 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. Sheep occasionally 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.

L. A. Aimes

Project Drilling Engineer

REHABILITATION AGREEMENT

Lease No.:_ Location:	SF 078138-A NW 4	
bocación.	NW 4	SE 4 Sec. 11 , T. 30 N., R. 11 W.
El Daso Mati	iral Cas Com	many intende to duill a scall and Company
The City	of Aztec N	pany intends to drill a well on surface owned by
agrees to co	omplete the	ew Mexico . The lessee/operator following rehabilitation work if the well is a producer:
_	•	g a producer.
[y] y		
X Yes	No	Maintain access roads and provide adequate drainage to road
		to road
X Yes	No	Reshape and reseed any area in excess of the pump and
1		support facilities.
Other requir	rements:	
·		
The followin	o work will	be completed when the well is abandoned:
10110,111	.g "OIK #111	be compreted when the well is abandoned:
Yes	X No	Site will require reshaping to conform to existing
		topography.
X Yes	No	Dit will be found will be at the control of
A res	L NO	Pit will be fenced until dry, then filled to conform to topography.
[to topography.
X Yes	No	Entire disturbed area will be resecded. If yes,
		the following seed mixture will be used:
		DECOMMENDED DOCCEDURE AT TIME OF A DAMPAN
		RECOMMENDED PROCEDURE AT TIME OF ABANDONMENT
X Yes	L No	Access road will be rehabilitated and resceded using
		the same seed mixture as above.
Yes	No	Access road will remain for landowner's use.
		record four will found in for fandowner 3 use.
Other requir	ements:	
	· · · · · · · · · · · · · · · · · · ·	
Landowner Ci	ty Manager-	Ray Montano Operator/Lessee
Name: City	of Aztec, N	New Mexico Name: EL PASO NATURAL GAS COMPANY
Address: 201		Address: P. O. Box 990
City: Azt		City: Farmington
State: New Telephone: 5	Mexico 874	
Date: 10-10		Telephone: (505) 325-2841 Date: 10-10-78
		Date. 10 10 70
X Yes	No	I certify rehabilitation has been discussed with the
		surface owner.
This agreemen	it covers re	A STATE LATTE SETTING
other agreeme	ents between	habilitation requirements only and does not affect any the lessee/operator and surface owner.
5	cwcc11	end ressectoperator and surface owner.

Operations Plan Storey B #1A

I. Location: 1775'S, 1850'E, Section 11, T-30-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 5869'GL

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	2585 '
		-	Ojo Alamo	955 '	Mesa Verde	3930 '
			Kirtland	1075 '	Menefee	4180'
			Fruitland	1955 '	Point Lookout	4650'
			Pic.Cliffs	2365'	Total Depth	5100'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 3920', 4170', 4640' 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 2785'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
	3	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	2785 '	7"	20.0# K-55
		6 1/4"	2635-5100'	4 1/2"	10.5# K-55

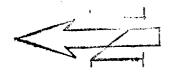
B. Float Equipment: 9 5/8" surface casing - B & W guide shoe
 (Prod. No. FC 06-09611-0200)

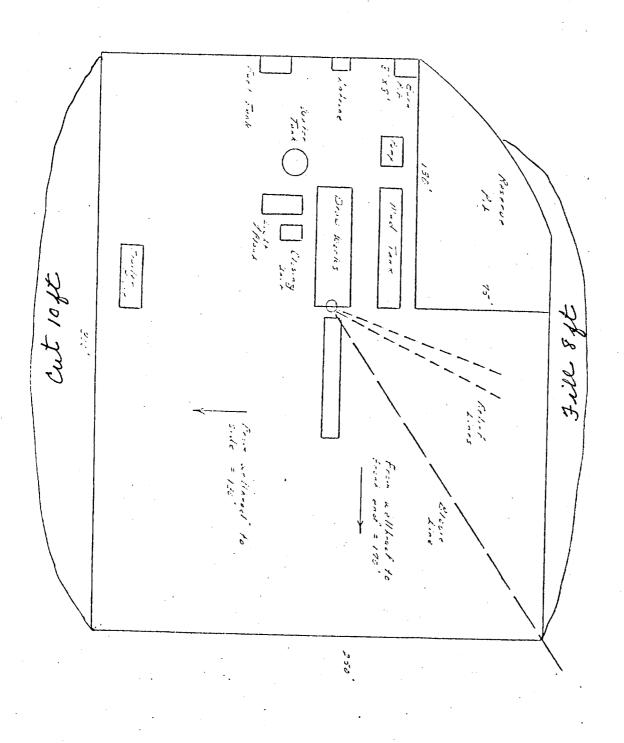
7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Howco self-fill insert float valve (Price Ref.36A&37), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 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: 5100' 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:

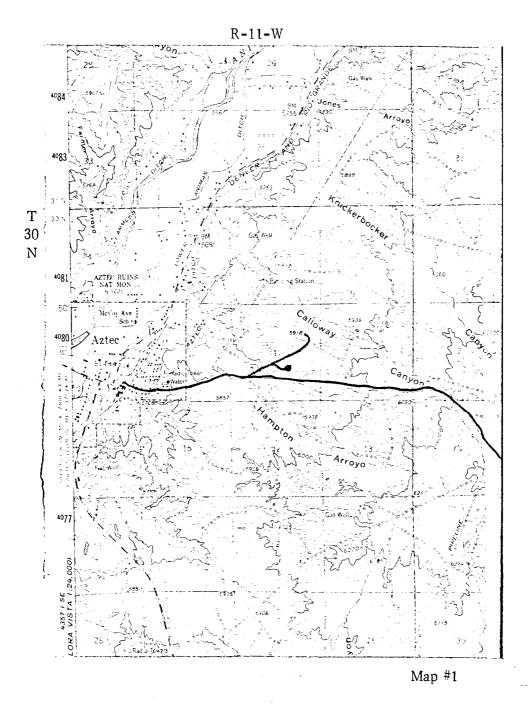
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 182 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (413 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.





Transfer Med for mess trans and works to

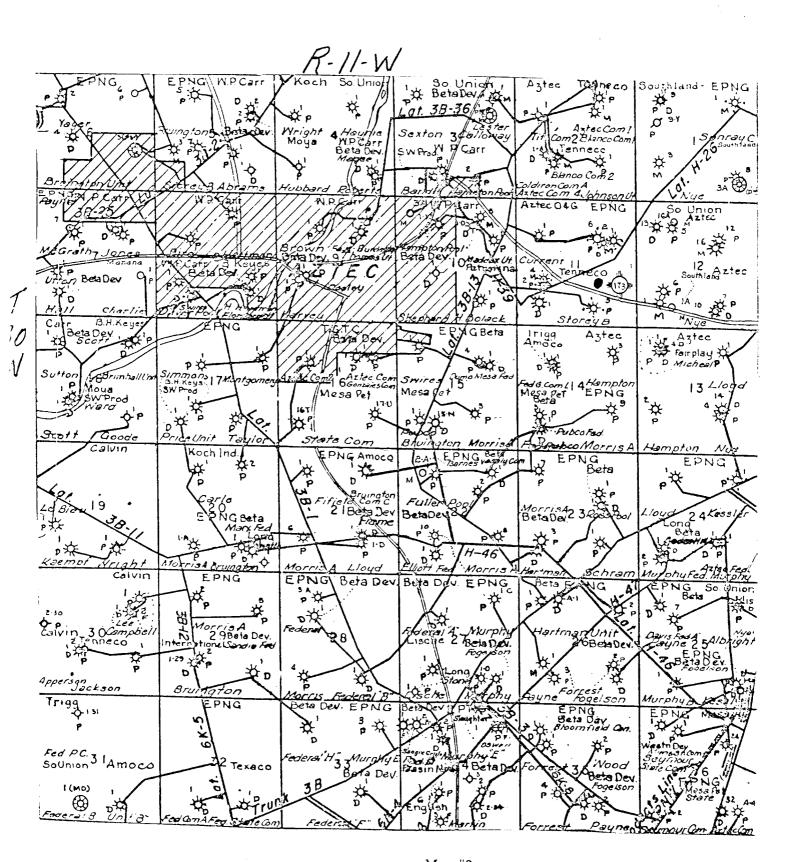
EL PASO NATURAL GAS COMPANY Storey B #1A SE 11-30-11



LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS		
EXISTING	PIPELINES	-+-	+
EXISTING	ROAD & PIPELIN	⊠ - i - i	+
PROPOSED	ROADS		
PROPOSED	PIPELINES	+ +	+
PROPOSED	RCAD & PIPELII	TE ++	+

EL PASO NATURAL GAS COMPANY Storey B #1A SE 11-30-11



Map #2 Proposed Location