## SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side) UNITED STATES
DEPARTMENT OF THE INTERIOR

Budget Bureau	No.	42-R1425
---------------	-----	----------

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  TITE OF WHICH AND DRILL SO DEEPEN PLUG BACK  THE OF WHICH AND DRILL SO OF THE STATE SOURCE SOU		GEOLO	GICAL SURV	/EY		,		SF 078502
DRILL SO DEFFEN DELTE BLOOK SACRED TO WHELE BLOOK STATE ADDRESSES THAT SAME STATE OF WELL SALE SALE SALE SALE SALE SALE SALE S	APPLICATION FOR PERMIT TO DRILL DEEPEN OR PLUG BACK							
Definition of the properties o	la. TYPE OF WORK		io bilice,	DELI	LIV, OK I	LUU I	JACK	
El Paso Natural Gas Company  El Paso Natural Gas Company  PO Box 990, Farmington, NM 87401  Rectifie or well (Report horselos cirarity and it am ecordance with any State requirements.*)  Al actific or well (Report horselos cirarity and it accordance with any State requirements.*)  Al proposed prod. zone  Al proposed prod. zone  Destance in miles and direction from Reason forms for office.*  Destance in miles and direction from Reason for offi	DR b. Type of well	ILL 🗵	DEEPEN		PL	UG BA	CK []	7. UNIT AGREEMENT NAME
El Paso Natural Gas Company  Augusto o Greation  PO Box 990, Farmington, NM 87401  Locardo of Spin Policy of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)  At prepared pred zone  Metabolicy of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)  Metabolicy of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)  Locardo of Spin Incident (Spin Policy)  Locardo of Spin Policy of Spin Incident (Spin Policy)	WELL W	VELL X OTHER			INGLE K		LLE []	8. FARM OR LEASE NAME
PO Box 990, Farmington, NM 87401    PO Box 990, Farmington, NM 87401   Population of Well (Report Ionation clearly and in accordance with any State requirements.*)   All surfaces   Room of Note   Room of Room					, , , , , , , , , , , , , , , , , , , ,			
PO Box 990, Farmington, NM 87401  10. FIELD AND FOOL. OR WILDSAT  LOCATING OF WELL (Report Ideation clearly and in secondance with any State requirements.*)  800'N, 1650'W  At proposed prod. cone  11. Sec. T. R. M. OR FIEL  800'N, 1650'W  At proposed prod. cone  12. COUNTY OF FARMEN   13. STATE  Sec. 17. R. M. OR FIEL  16. NO. OF ACRES IN LEASE  Sec. 17. R. M. OR FIEL  17. NO. OF ACRES ASSENTING  PROPOSED CASING AND CEMENTING PROGRAM  17. NO. OF ACRES ASSENTING  TO PRESENT OR LEASE LISE, IT.  18. PROPOSED PROPOSED  TO RELEASE WELL, DELITY, NO. CONTESTED, or AFFINA ASSENTING  TO PROPOSED CASING AND CEMENTING PROGRAM  SEED OF AFFINA CHAPTER WELL STATE  18. PROPOSED CASING AND CEMENTING PROGRAM  SEED OF ROLE  18. PROPOSED CASING AND CEMENTING PROGRAM  SEED OF ROLE  18. PROPOSED CASING AND CEMENTING PROGRAM  SEED OF ROLE  18. PROPOSED CASING AND CEMENTING PROGRAM  SEED OF ROLE  18. PROPOSED CASING AND CEMENTING PROGRAM  SEED OF ROLE  18. PROPOSED CASING AND CEMENTING PROGRAM  SEED OF ROLE  18. PROPOSED CASING AND CEMENTING PROGRAM  SEED OF AFFINA CHAPTER WORK WILL START*  13. 3/4" 9 5/8" 32.3 3 23.3 20.0 1.1. C.			ompany		<del></del>			
BLANCO MESS Verde  800 'N, 1650 'W  800 'N, 1650 'W  At proposed prod. zone  800 'N, 1650 'W  800			a NIM OT	1401				
At proposed brod. sone  At pro	LOCATION OF WELL (R	eport location clearly and	in accordance wi	4UI ith any s	State requireme	nts.*)		
At proposed prod. 200e    ASSC. 13, T = 29 - N, R - 8 - NMPM	At surface			•	•	,		11. SEC., T., R., M., OR BLK
L IDITANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR FORT OFFICE*  1. COUNTY OF PARISH 13. STATE San Juan NM  1. COUNTY OF PARISH 13. STATE San Juan NM  320.00  1. COUNTY OF PARISH 13. STATE San Juan NM  320.00	At proposed prod. zon							AND SURVEY OR AREA
DESTANCE IN MILES AND DESCRIPT FROM NEAREST TOWN OR FOST OFFICE?    DESTANCE FROM PROQUESTOR   15. NO. OF ACRES IN LEASE   17. NO. OF ACRES ASSUMED   15. NO. OF ACRES IN LEASE   17. NO. OF ACRES ASSUMED   15. NO. OF ACRES IN LEASE   17. NO. OF ACRES ASSUMED   17.								
16. NO. OF ACRES ASSIGNED PROPOSED (LARGE FOR FROM PROPERTY OF ACRES ASSIGNED W 320.00 PROPOSED to Reverse drig, until inc. if any)  16. NO. OF ACRES ASSIGNED W 320.00  17. PROPOSED CASEND DEPTH 70. ROTART OF CABLE TOOLS NOT HIS WELL. SELLING. CONVEYED, OR AFFEWARD FOR ON THIS LARGE, FT.  18. PROPOSED CASING AND CEMENTING PROGRAM  RIZE OF ROLE SIZE OF CASING WEIGHT FER FOOT SETTING DEPTH 13.3/4" 9.5/8" 32.3 \$\frac{1}{2}\$ 20.0 \$\frac{1}{2}\$ 2.4 Cu. ft. to circulate 13.3/4" 7" 20.0 \$\frac{1}{2}\$ 3475' 32.9 cu. ft. to cover Ojo Al. 6.1/4" 4.1/2"liner 10.5 \$\frac{1}{2}\$ 3325-5700' 414 cu. ft. to fill to 3325  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 and This well.  This gas is dedicated.  The W/2 of Section 13 is dedicated to this well.  AMPLE SPACE ENERGIES PROPOSED PROGRAM: If proposal is to develop of plug back, give data on prevent productive zone and sample of the proposal is to deal or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout vertice program, if any.  BICNED A ABJUST THE DEPTH THE TOTAL PARTY.  TITLE DEFINITION OF APPROVAL PARTY.  APPROVAL DATE  APPROVAL DATE  APPROVAL DATE  TITLE DATE THE TEXT OF THE PROPERTY OF APPROVAL DATE  TITLE DATE THE TEXT OF THE TOOLS TO THE TOOLS TO THE TEXT OF THE TEXT OF THE TEXT OF THE TOOLS TO THE TEXT OF THE TEXT	4. DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POS	T OFFIC	E*	•		
DOCATION TO SKREEN, W								San Juan NM
ABID to bearest dist unit line, if any;    19. PROPOSED DEPTH   20. ROTARY OR CABLE TOOLS	LOCATION TO NEAREST	r		16. No	O. OF ACRES IN	LEASE	17. NO. 0	HS WELL
TO MARREY WELL STATES ON THIS ITEMS, PT.  1. HEAVAIDOS (Show whether DF, RT, GR, de.)  6.340 'GL  PROPOSED CASING AND CEMENTING PROGRAM  PROPOSED CASING AND CEMENTING PROGRAM  SEER OF ROLE  SIZE OF CASING  WEIGHT PER FOOT  SETTING DEPTH  QUANTITY OF CEMENT  1.3 3/4" 9 5/8" 32.3# 200' 224 cu.ft. to circulate  8.3/4" 7" 20.0# 3475' 329 cu.ft. to cover Ojo Al.  6. 1/4" 4 1/2" liner 10.5# 3325-5700' 414 cu.ft. to fill to 3325  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.  The W/2 of Section 13 is dedicated to this well.  AMDYE EPACE DESCRIBE PROGRAM: If proposal is to de-year or plug back, give data on present productive zone and argument new productive cell from the proposal is to defill or deepen directionally, give perliment data on subsurface locations and measured and true vertical depths. Give blowout ventor program, if any.  BIGNED A.	(Also to nearest drlg	g. unit line, if any)						
EXERTIONS (Show whether DF, RT, GR, etc.)  6340 'GL  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CASING  WEIGHT PER POOT  SETTING DEPTH QUANTITY OF CEMENT  13 3/4" 9 5/8" 32.3# 200' 224 CU.ft. to circulate  8 3/4" 7" 20.0# 3475' 329 CU.ft. to cover 0jo Alc  6 1/4" 4 1/2"liner 10.5# 3325-5700' 414 CU.ft. to fill to 3325  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.  The W/2 of Section 13 is dedicated to this well.  AMDYE STACK DENORME PROGRAM: If proposal is to deepen or plus back, give data on present productive zone discount new productive water program. If any.  BIGNED J.	TO NEAREST WELL, D	RILLING, COMPLETED.		19. PF	· · · · · · · · · · · · · · · · · · ·	1	All controls and a second	/
PROPOSED CASING AND CEMENTING PROGRAM  RIER OF HOLE  SIZE OF CASING  WEIGHT PER POOT  13 3/4" 9 5/8" 32.3# 200' 224 CU.ft. to circulate  8 3/4" 7" 20.0# 3475' 329 CU.ft. to cover Ojo Ale  6 1/4" 4 1/2"liner 10.5# 3325-5700' 414 cu.ft. to fill to 3325  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.  The W/2 of Section 13 is dedicated to this well.  ANDVE SPACE PRECEDED PROPOSED PROGRAM: If proposal is to deepen or plus back, give data on present productive zone and measured and true vertical depths. Give blowout wester programs if any  BIGNER D. J. J. APPROVAL DATE  APPROVED BY  APPROVAL DATE  TITLE  DATE T.E.C.EIVED  DATE T.E.C.EIVED				<u> </u>	3700		Rotai	
SIZE OF ROLE  SIZE OF CASING  SETTING DEPTH  OUANITY OF CENENT  13 3/4"  9 5/8"  32.3#  20.0#  3475'  329 cu.ft. to circulate  8 3/4"  7"  20.0#  3475'  329 cu.ft. to circulate  3325-5700'  414 cu.ft. to fill to 3325  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.  The W/2 of Section 13 is dedicated to this well.  ANDVE SPACE DESCRIPTION PROCESSED PROCESSES If proposal is to deliver program, if any.  BIONED  APPROVED BY  CONDITIONS OF APPROVAL PT ANY:  TITLE  DATE  TITLE  DATE  DATE  TITLE  TIT						•		22. APPROX. DATE WORK WILL START*
13 3/4" 9 5/8" 32.3# 200' 224 CU.ft. to Circulate 8 3/4" 7" 20.0# 3475' 329 CU.ft. to cover Ojo Al 6 1/4" 4 1/2"liner 10.5# 3325-5700' 414 CU.ft. to fill to 3325  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.  The W/2 of Section 13 is dedicated to this well.  AMDYE SPACE DESCRIBE PROVOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and aronaer new productive refer if proposal is to deepen or plug back, give data on present productive zone and aronaer new productive refer if proposal is to deepen or plug back, give data on present productive zone and aronaer new productive refer if proposal is to deepen or plug back, give data on present productive zone and aronaer new productive refer if proposal is to deepen or plug back, give data on present productive zone and aronaer new productive refer if any.  TITLE Drilling Clerk DATE 11-15-77  (This space for Federal or State office use)  PERMIT NO.  APPROVED BY TITLE Drilling Clerk DATE 11-15-77  TITLE Drilling Clerk DATE III. CERVED	3.	P	ROPOSED CASI	NG ANI	CEMENTING	PROGRA	AM	
8 3/4" 7" 20.0# 3475' 329 cu.ft.to cover Ojo Al. 6 1/4" 4 1/2"liner 10.5# 3325-5700' 414 cu.ft.to fill to 3325  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 an This well.  This gas is dedicated.  The W/2 of Section 13 is dedicated to this well.  AMONYE SPACE DESCRIBE PROPOSED PERGEAM: If proposal is to deepen or plug back, give data on present productive zone and account new productive tell proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout venter program, if any.  BIGNED A DESCRIPTION TITLE Drilling Clerk DATE 11-15-77  (This space for Pederal or State office use)  PERMIT NO.  APPROVAL DATE  TITLE DATE TECRIVED	SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING D	ЕРТН		QUANTITY OF CEMENT
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.  The W/2 of Section 13 is dedicated to this well.  AMDRE SPACE DESCRIBE PRODUSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and account few productive renter program, if any.  BEGNED J.			32.3#		200		224 c	u.ft. to circulate
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 and this well.  This gas is dedicated.  The W/2 of Section 13 is dedicated to this well.  ARROVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposal is for drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout venter program, if any.  BIGNED D. ALLICATION TITLE Drilling Clerk DATE 11-15-77  (This space for Pederal or Ntate office use)  PERMIT NO	·····				3475	·		
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.  The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROCRAM: If proposal is to deepen or plug back, give data on present productive zone and proposal is to delil or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout verticer program. If any.  BIGNED  TITLE  Drilling Clerk  DATE  APPROVAL DATE	6 1/4"	4 1/2"lin∈	r 10.5#		3325-570	00'	414	cu.ft.to fill to 3325'
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.  The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to de-pen or plug back, give data on present productive zone and account new productive prefer program, if any.  BIGNED A BLOCK TITLE Drilling Clerk DATE 11-15-77  (This space for Federal or State office use)  PERMIT NO. APPROVAL DATE  APPROVAL DATE  DATE TITLE DATE  APPROVAL DATE  DATE TITLE DATE  DATE TITLE DATE							<b>1</b>	
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.  The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to de-pen or plug back, give data on present productive zone and account new productive prefer program, if any.  BIGNED A BLOCK TITLE Drilling Clerk DATE 11-15-77  (This space for Federal or State office use)  PERMIT NO. APPROVAL DATE  APPROVAL DATE  DATE TITLE DATE  APPROVAL DATE  DATE TITLE DATE  DATE TITLE DATE		•						
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.  The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to de-pen or plug back, give data on present productive zone and account new productive prefer program, if any.  BIGNED A BLOCK TITLE Drilling Clerk DATE 11-15-77  (This space for Federal or State office use)  PERMIT NO. APPROVAL DATE  APPROVAL DATE  DATE TITLE DATE  APPROVAL DATE  DATE TITLE DATE  DATE TITLE DATE	Selective	ly perforate	and sands	wate	r fracti	ire ti	ha Mac	a Verde formation
This gas is dedicated.  The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and around new productive ie. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout eventer program, if any.  BIGNED D.							(	d verde formation.
This gas is dedicated.  The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and around new productive ie. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout eventer program, if any.  BIGNED D.							:	
This gas is dedicated.  The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive ie. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout eventer program, if any.  BIGNED A. ALLISCO  TITLE Drilling Clerk DATE 11-15-77  (This space for Federal or State office use)  APPROVAL DATE  CONDITIONS OF APPROVAL, IF ANY:  DATE TITLE  DATE	A 3000 ps	i WP and 6000	psi tes	t do	uble gat	e pre	evente	r equipped with
The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive new productive zone and proposed new productive new productive zone and proposed new zone zone zone zone zone zone zone zone	blind and	pipe rams wi	11 be use	ed f	or blow	out p	preven	tion on this well.
The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive new productive zone and proposed new productive new productive zone and proposed new zone zone zone zone zone zone zone zone								
The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive new productive zone and proposed new productive new productive zone and proposed new zone zone zone zone zone zone zone zone	This gas i	is dedicated.					-	166 6 100
The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive new productive zone and proposed new productive new productive zone and proposed new zone zone zone zone zone zone zone zone	3,20	- acaroacca.						07
The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive new productive zone and proposed new productive new productive zone and proposed new zone zone zone zone zone zone zone zone								1 101 24. 3
The W/2 of Section 13 is dedicated to this well.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive new productive zone and proposed new productive new productive zone and proposed new zone zone zone zone zone zone zone zone							-	M colect.
BIGNED Drilling Clerk DATE 11-15-77  (This space for Federal or State office use)  APPROVED BY	The $W/2$ of	E Section 13	is dedica	ated	to this	well	l.	01/2 10/3
BIGNED D.	ie. It proposai is to c	irili or deepen directional	roposal is to deep ly, give pertinent	en or p data o	lug back, glve d n subsurface loc	lata on pr cations an	esent produ d measured	ctive zone and proposed new productive and true vertical depths. Give blowout
(This space for Federal or State office use)  PERMIT NO	· Program, if any	<i>A</i> , <i>a</i> .			-			
(This space for Federal or State office use)  PERMIT NO	BIGNED .	1. Duesco	TIT.	'LE	Drill	ing (	Tlork	DATE 11 15 77
APPROVED BY	(This space for Feder	al or State office use)			** + ± ±	-119		
APPROVED BY	PERMIT NO.				APPROVAL DATE		: <b>'</b> 	
CONDITIONS OF APPROVAL, IF ANY:				. =				
			TIT	I.E				DATE
O(1/2, 0)	CONDITIONS OF APPROVA	AL, IF ANY :				•		1.EQEIVED
$(\mathcal{A} \mathcal{C} \mathcal{A} \mathcal{X})$		logs	•					NOV 1 8 1977

\*See Instructions On Reverse Side

U.S. Geological Survey Farmington, N.M.

# NEW MEXICO OIL, CONSERVATION COMMISSION

Form C-102

1760

Supersedes C-128 WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-1-65 All distances must be from the outer boundaries of the Section. Cperator Well No. (SF 078502) EL PASO NATURAL GAS COMPANY VANDEWART A 3A Unit Letter Section Township Range County 8-W SAN JUAN 13 29-N Actual Footage Location of Well: feet from the NORTH 1650 800 WEST line and feet from the line Ground Level Elev. Producing Formation Pool Dedicated Acreage: BLANCO MESA VERDE 6340 MESA VERDE 320.00 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? 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 Prisco Drilling Clerk Position El Paso Natural Gas Co November 17, 1977 SECTIONX SF 078502 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 JULY 20, 1977 Registered Professional Engineer

1320 1650

1980 2310

2000

1000

500



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

#### Multi-Point Surface Use Plan Vandewart A #3A

- 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.
- 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 a water hole located in the Manzaneras Mesa 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. 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 sandstone ledges. Pinon and cedar trees grow on this site. Cattle and deer 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.

November 16, 1977

D. R. Read

Division Drilling Engineer

DRR:pb

#### Operations Plan Vandewart A #3A

I. Location: 800'N, 1650'W, Section 13, T-29-N, R-8-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6340'GL

#### II. Geology:

A. Formation Tops:	Surface	San Jose	Lewis	3275'
	Ojo Alamo	20251	Mesa Verde	4710'
	Kirtland	2210'	Menefee	4850'
	Fruitland	2720'	Point Lookout	5250 <b>'</b>
	Pic.Cliffs	3070'	Total Depth	5 <b>700'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4700', 4840', 5240' 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 3475'. 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"	3475'	7"	20.0# K-55
		6 1/4"	3325-5700'	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 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: 5700' 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 - Vandewart A #3A

#### V. Cementing:

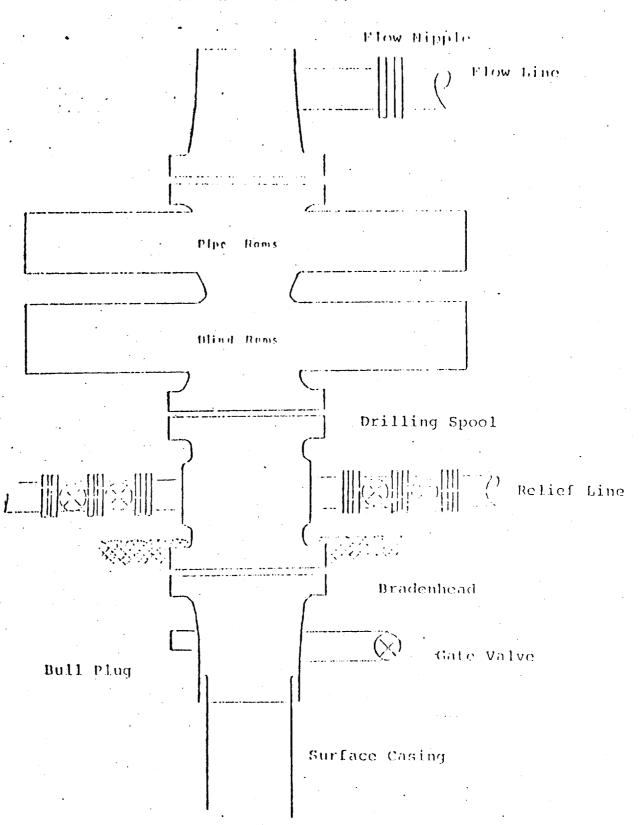
- 9 5/8" surface casing use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 130 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (329 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 235 sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (414 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

DRR:pb

12.57 Roserve Drow Works Mud Clasing 11 cut 4ft. 3, Ju 450 From wellhoach to Bloom

Typical Location Plat for Mosa Verde and Waterla Wells

# Typical B.O.D. Installation for Mesas Verde Well



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

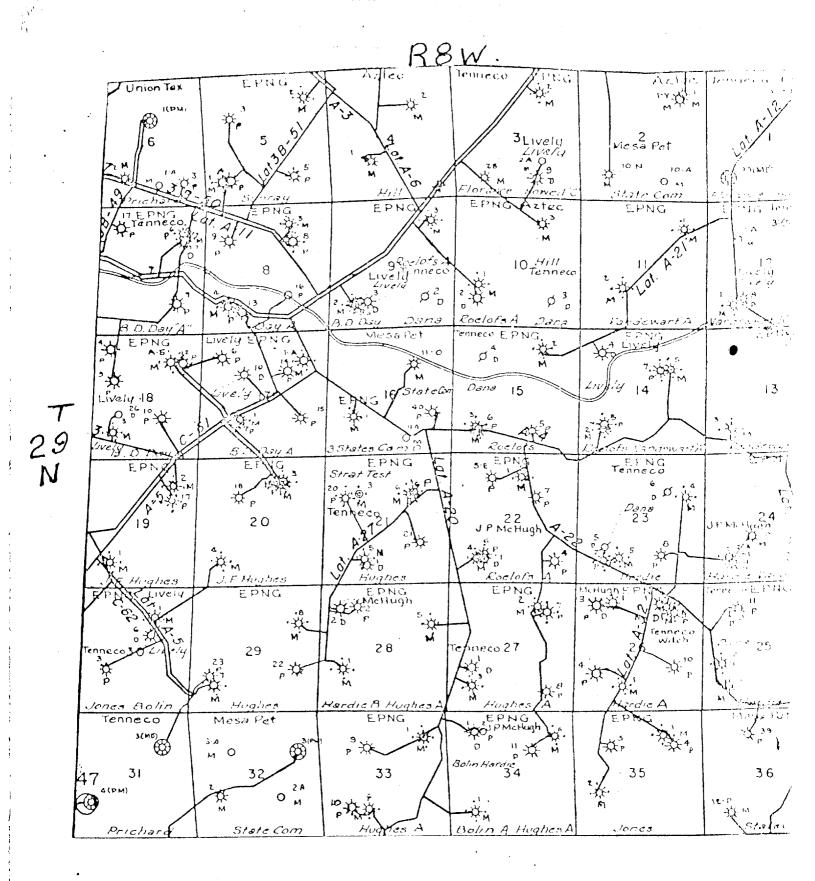
### EL PASO NATURAL GAS COMPANY Vandewar (A #3A NENW 13-29-8



MAP #1

DESIGNATION OF A PARTITION OF THE STAND

DETRUMENT	POMOS			
	11/2011 3 45	- +-	- 1-	
DIFFINANT	pass falls.	+	f	٠
That was	11/2/11/			
	111 11 11 11	+	+	+
TROPOSED	TRANSPORTER	-1	+	-



MAP #2