SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

	DEPARTMENT	TED STATES TOF THE U)R			5. LEASE DESIGNATION AND SERIAL NO.
•		GICAL SURVI					
A DDI ICATION	FOR PERMIT			OR F	PLUGR	ACK	NM 01594 6. IF INDIAN, ALLOTTEE OR TRISE NAME
AFFLICATION	TORTERIOR	DAILE, E		<u>, O</u>	<u> </u>		
	LL×[]	DEEPEN [PL	UG BAC	K 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL			SINGL	r	MULTIPI	. ne	San Juan 32-9 Unit
	S OTHER		SINGL: ZONE	<u></u>	ZONE		8. FARM OR LEASE NAME
NAME OF OPERATOR							San Juan 32-9 Unit
	ural Gas Com	npany				-	- 22A
ADDRESS OF OPERATOR		NTM 0740	1 7				10. FIELD AND POOL, OR WILDCAT
PU BOX 990,	Farmington,	NM 8740		requirem	ents.*)		Blanco Mesa Verde
At surface	830'N, 1080		_ 		,		11. SEC., T., B., M., OR BLK.
	030 N, 1000) VV -					Sec.14, T-31-N, R-10
At proposed prod. zone	e						1
DISTANCE IN MILES /	ND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*				NMPM 12. COUNTY OR PARISH 13. STATE
							San Juan NM
5. DISTANCE FROM PROPO		∧T _* T	16. NO. OI	F ACRES IN	N LEASE		. OF ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	830 '		Unit		TO	THIS WELL W/ 320.68
(Also to nearest drlg 8. DISTANCE FROM PROP			19. ркоро			20. RO	TARY OR CABLE TOOLS
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED,	1000'		5740	1	Rota	ary
1. ELEVATIONS (Show who			<u> </u>				22. APPROX. DATE WORK WILL START*
6242 ' GL							
3.	1	PROPOSED CASII	NG AND C	EMENTIN	G PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING	DEPTH		QUANTITY OF CEMENT
			00Т	SETTING		224	
13 3/4"	5/8" 7"	32.3# 20.0#	ООТ		1	1	cu.ft. to circulate
		32.3# 20.0#		200	1	451	QUANTITY OF CEMENT Cu.ft. to circulate cu.ft.to cover Ojc Al cu.ft.to fill to 3300
13 3/4" 8 3/4" 6 1/4" Selectively	9 5/8" 7" 4 1/2"liner y perforate a	32.3# 20.0# 10.5# and sandwa	β3 ater f	200 3450 00-57 ractu	40'	451 426 e Mes	cu.ft. to circulate cu.ft.to cover Ojo A
13 3/4" 8 3/4" 6 1/4" Selectively A 3000 psi blind and p	9 5/8" 7" 4 1/2"liner y perforate a	32.3# 20.0# 10.5# and sandwa	β3 ater f	200 3450 00-57 ractu	40'	451 426 e Mes	cu.ft. to circulate cu.ft.to cover Ojc A cu.ft.to fill to 3300 sa Verde formation.
13 3/4" 8 3/4" 6 1/4" Selectively A 3000 psi blind and p	9 5/8" 7" 4 1/2"liner y perforate a WP and 6000 pipe rams will	32.3# 20.0# 10.5# and sandwa psi test	β3 ater f	200 3450 00-57 ractu	40'	451 426 e Mes	cu.ft. to circulate cu.ft.to cover Ojo A cu.ft.to fill to 330 sa Verde formation.
13 3/4" 8 3/4" 6 1/4" Selectively A 3000 psi blind and p	9 5/8" 7" 4 1/2"liner y perforate a WP and 6000 pipe rams will	32.3# 20.0# 10.5# and sandwa psi test	β3 ater f	200 3450 00-57 ractu	40'	451 426 e Mes	cu.ft. to circulate cu.ft.to cover Ojo A cu.ft.to fill to 330 sa Verde formation.
13 3/4" 8 3/4" 6 1/4" Selectively A 3000 psi blind and p	9 5/8" 7" 4 1/2"liner y perforate a WP and 6000 pipe rams will s dedicated.	32.3# 20.0# 10.5# and sandwa psi test	β3 ater f doubl	200 3450 00-57 ractu e gat blow	are the	451 426 e Mes	cu.ft. to circulate cu.ft.to cover Ojc A cu.ft.to fill to 330 sa Verde formation.
13 3/4" 8 3/4" 6 1/4" Selectively A 3000 psi blind and p This gas is	9 5/8" 7" 4 1/2"liner y perforate a WP and 6000 pipe rams will s dedicated. Section 14	32.3# 20.0# 10.5# and sandwa psi test 11 be used	ater f doubl d for	200 3450 00-57 ractu e gat blow this	re the eprevout po	451 426 e Mes	cu.ft. to circulate cu.ft.to cover Ojc A cu.ft.to fill to 330 sa Verde formation. er equipped with nation on this well.
13 3/4" 8 3/4" 6 1/4" Selectively A 3000 psi blind and p This gas is The W/2 of N ABOVE SPACE DESCRIBE ONE. If proposal is to	9 5/8" 7" 4 1/2"liner y perforate a WP and 6000 pipe rams will s dedicated. Section 14 : PROPOSED PROGRAM: If drill or deepen direction	32.3# 20.0# 10.5# and sandwa psi test 11 be used	ater f doubl d for	200 3450 00-57 ractu e gat blow this	re the eprevout po	451 426 e Mes	cu.ft. to circulate cu.ft.to cover Ojc A cu.ft.to fill to 330 sa Verde formation. er equipped with nation on this well.
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13 3/4" 8 3/4" 6 1/4" Selectively A 3000 psi blind and p This gas is The W/2 of N ABOVE SPACE DESCRIBE One. If proposal is to reventer program, if an 4. SIGNED (This space for Feder	9 5/8" 7" 4 1/2"liner y perforate a WP and 6000 pipe rams will s dedicated. Section 14: PROPOSED PROGRAM: If drill or deepen direction y. H. Bucco	32.3# 20.0# 10.5# and sandwa psi test ll be used is dedica proposal is to dee ally, give pertinen	ater f doubl d for ted to	200 3450 00-57 ractu e gat blow this back, giv	are the eprevout productions are provided to the control of the co	451 426 e Mes venterever	cu.ft. to circulate cu.ft.to cover Ojc A cu.ft.to fill to 330 sa Verde formation. er equipped with nation on this well.

*See Instructions On Reverse Side

alax

			All distances must	be from the outer	boundaries of	the Section.		
Opera	EL PASC) NATURAL	GAS COMPANY	Lease SAN JU	JAN 32-9	JNIT (NM-OLS	,94)	Well No. 22A
iJnit L	_etter Sec D	14	Township 31-N	Range	10-W	County	SAN J	UAN
	Foctage Location 830	of Well:	NORTH line of	md 1080) fee	t from the WES	T	line
	d Level Elev. 6242	Producing Fo	rmation SA VERDE	Pool	BLANCO ME	SA VERDE /		cated Acreage; 320.68 / Acres
		one lease is	dedicated to the					of (both as to working
3.	If more than o	ne lease of countries	unitization, force-p	ooling. etc?				owners been consoli-
	X Yes		nswer is "yes," typ					
	this form if ne No allowable v forced-pooling sion.	cessary.) vill be assign , or otherwise	ned to the well unti) or until a non-star	l all interests	have been	consolidated (by	communi	. (Use reverse side of itization, unitization, roved by the Commis-
	/OBO					toin bes Ong Name Dri Posit El	reby certified herein it of my knowing Signed Brise Brise Lling lon Paso M	retrification by that the information consisting and complete to the owledge and belief. by Clerk Natural Gas Co. 16, 1978
	FEE #2	2 F1	EE			sho not und is	own on this es of actual ler my supe	ify that the well location plat was plutted from field al surveys made by me or ervision, and that the same correct to the best of my I belief.
	SF-078316-B			Far books 4.3	134.5 136.	Hegis and/a		When
کھیں کچ ا	330 660 90	1320 1850 1	980 2310 2640	2000 1500	1000	500 0		1.760



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan San Juan 32-9 Unit #22A

- 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 a water hole located at Hart Canyon Water Well.
- 6. Source of Construction Materials No additional materials will be required to build either the access read or the proposed location.

- 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. 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 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 brown (Federal Standard #595-30313)
- 11. Other Information The terrain is rolling hills and sandstone ledges covered with pinon and cedar. 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.

January 13, 1978

D. R. Read

Division Drilling Engineer

DRR:pb

Operations Plan San Juan 32-9 Unit #22A

I. Location: 830'N, 1080'W, Section 14, T-31-N, R-10-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6242'GL

II. Geology:

Α.	Formation T	. Op o	Ojo Alamo Kirtland Fruitland	1560' 2620'	Lewis Mesa Verde Menefee Point Lookout Total Depth	3250' 4811' 4951' 5290' 5740'
			Pic.Cliffs	3046'	Total Depth	5/40

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4800', 4940', 5280' 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 3450'. Gas from intermediate casing to Total Depth.

IV. Materials:

73	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
Α.	Casing Flogram:	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3450'	7"	20.0# K-55
		6 1/4"	3300-5740'	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: 5740' 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.

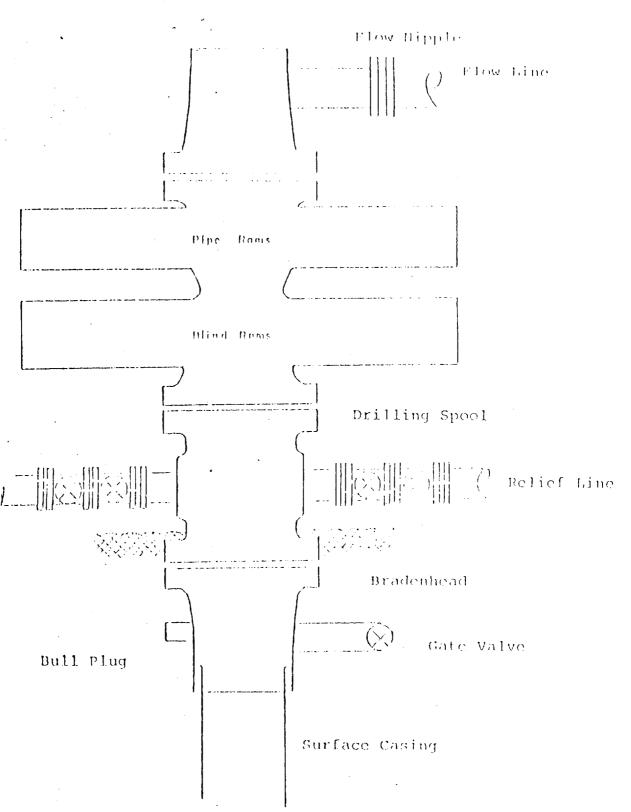
V. Cementing:

- 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 206 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 (451 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 242sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (426 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

No

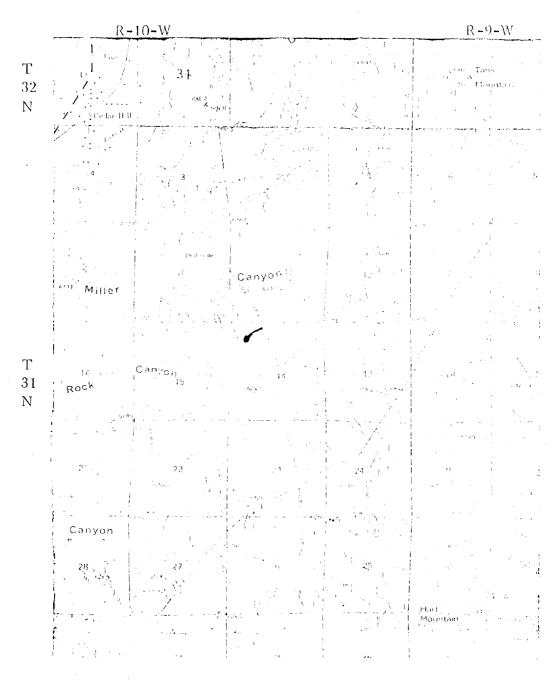
250 Typical Location 1912 for Miss Virule said Whota Wells from aclibrael to front from a 175 Free wellhood to Fill 4-15 cut lift 15. E ... 5 Drive Works Much Tank Rosprup , 381 Fact Frank 8. x 5. 'S

Typical B.O.E. Installation for Mesa 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 CAS COMPANY San Juan 3''-9 Unit #22A NWNW 14-31-10

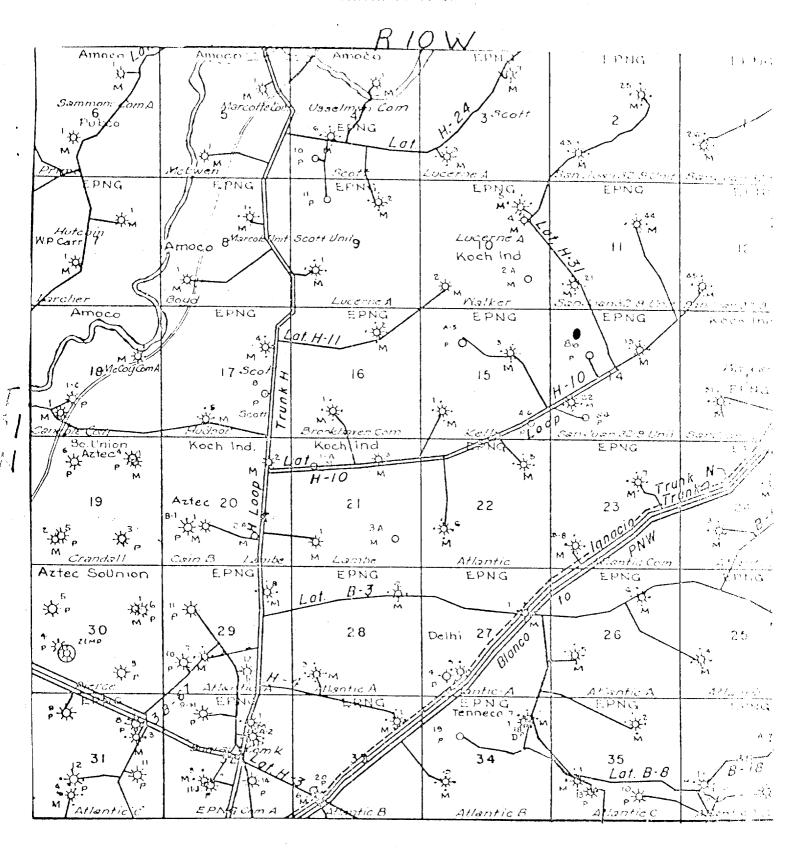


MAP #1

TIMESED OF MESET-IN-MAYS.

EXICTIVI	707.03			
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ERECEINA	nom A Fill MATE		r	٠
PROPOSER	ROADS			
FRANCIED	hadina.	+	+	+
4-16-20-54				+

EL PASO NATURAL GAS COMPANY San Jura 32-9 Unit #22A NWNW 14-31-10



MAP #2