23.

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UNITED STATES DEPARTMENT OF THE INTERIOR

Way 1963) UNITED STATES DEPARTMENT OF THE INTERIO				(0	MIT IN TE ther instru- reverse s		Form approved. Budget Bureau No. 42-R1425. 3. LEASE DESIGNATION AND SERIAL NO.		
	GEOL	OGICAL SURV	Ε Y			:	SF 078097	AND SECIAL NO.	
APPLICATIO	N FOR PERMIT	TO DRILL, I	DEEPE	V, OR I	PLUG E	BACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
	RILL 🖺	DEEPEN [PL	.UG BA	CK 🗆	7. UNIT AGREEMENT	NAM E	
	GAS OTHER		SING		MULTIP ZONE	LE	8. FARM OR LEASE NA	ME	
2. NAME OF OPERATOR El Paso Na	tural Gas Co	mpany					Zachary 9. WELL NO.		
3. ADDRESS OF OPERATOR PO Box 289	, Farmington	, NM 8740)1				10. FIELD AND POOL,		
4. LOCATION OF WELL () At surface J At proposed prod. 20	1590'S, 1		h any Sta	te requirem	ents.*)	_	Blanco Mes 11. SEC., T., B., M., OR AND SURVEY OR A Sec. 25, T-3 NMPM	BLK. REA	
	rth of Aztec		T OFFICE*				12. COUNTY OR PARISE San Juan	NM	
15. DISTANCE FROM PROI LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr	ST	1590'	16. NO.	247	5.61		OF ACRES ASSIGNED HIS WELL	320.00	
18. DISTANCE FROM PRO TO NEAREST WELL, OR APPLIED FOR, ON TO	DRILLING, CO APLETED,	600'	19. PROI	523		Rotar	BY OR CABLE TOOLS		
21. ELEVATIONS (Show with 5906 GL	hether DF, Rf, GR, etc.)			,			22. APPROX. DATE W	ORK WILL START*	
23.		PROPOSED CASI	NG AND	CEMENTIN	G PROGR.	AM			
SIZE OF HOLE	SIZE (F CASING	WEIGHT PER F	оот	SETTING	DEPTH		QUANTITY OF CEME	NT	
13 3/4"	9 5/8"	32.3#		20	0'	224 c	u.ft. to ci	rculate	
8_3/4"	7"	20.0#		298	0'		u.ft.to cov		
6 1/4"	4 1/2"lin	er 10.5#		2830-5	235'	419 c	u.ft.to fil	1 to 2830'	

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 S/2 of Section 25 is dedicated to this well.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive ZOI pre

eventer program, if any.		of substitute focations and measured and true vertical depth.
SIGNED D. Besusco	TITLE	Drilling Clerk DATE 1-25-79
(This space for Federal or Stat: office use)		
PERMIT NO.		APPROVAL DATE
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE

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24

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.								
Operator			Lease		/an on	*Coorl	Well No.	
	TURAL GAS COM	·	ZACHARY		(SF-07	(0097)	<u> </u>	
Unit Letter	Section	Township	Range	. }	County	•		
J	25 .	31N	<u> 11W</u>		San Ju	an		
Actual Footage Loc	_	41	1400			Post.		
1590 Ground Level Elev.	feet from the SO Producing Fo	lith line one	1690	feet	from the	East	line licated Acreage:	
5905	Mesa V		1 -	Blanco Mes	sa Verde	- · · · · · · · · · · · · · · · · · · ·	320.00 — Acres	
	····		<u></u>					
2. If more th	· ·	ded to the subject v		-		_	of (both as to working	
dated by c	ommunitization,	unitization, force-poo	ling. etc?			nterests of all	owners been consoli-	
X Yes	☐ No If a	rswer is "yes;" type	of consolida	tion	Commu	Initizatio)[]	
this form i No allowat	f necessary.) ole will be assign	and to the well until a	ll interests l	have been co	onsolidate	d (by commun	itization, unitization, proved by the Commis-	
	 1		i			C	ERTIFICATION	
	 					tained herein	ty that the information consist true and complete to the pwiledge and belief. Clerk	
	1		i 1	**************************************				
	1		. :			Él Paso 1	Natural Gas Co.	
	1		1			January 2	29, 1979	
	İ		1			Date		
	1 * * * * * * * *	3	, , , , , , , , , , , , , , , , , , , 	` `X\X\X \				
	o ^{#1}	SF-C	7809 7	1690'		shown on this notes of actu under my supe is true and	tify that the well location plat was plotted from field al surveys made by me or ervision, and that the same correct to the best of my	
XI						knowledge and		
		FEE	15901			September Registered Profond or Land Sur	essional Engineer	
					/AZZEX	Certificate Tie	MERR.	
0 330 660	90 1320 1650 19	8) 2310 2640 20	00 1500	1000 50	e o	3950		



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

Multi-Point Surface Use Plan

Zachary #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 covered with cobble stones with sagebrush and cedar growing. Cattle 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

Operations Plan Zachary #1A

I. Location: 1590'S, 1690'E, Section 25, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 5906'GL

II. Geology:

A	. Formation	Tors:	Surface	Nacimiento	Lewis	2780 '
		_	Ojo Alamo	1140'	Mesa Verde	4075
			Kirtland	1195'	Menefee	4360'
			Fruitland	2145'	Point Lookout	4786'
			Pic.Cliffs	2565'	Total Depth	5235 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4065', 4350', 4775' and at Total Depth. Also gauge ary noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 2980'. 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"	2980 '	7"	20.0# K-55
		6 1/4"	2830-5235 '	4 1/2"	10.5# K-55

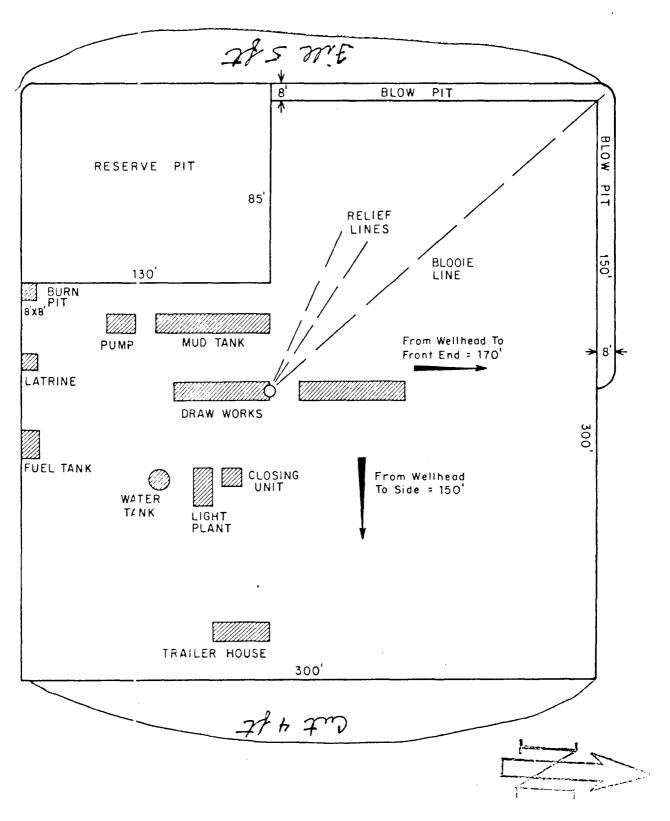
B. Float Equipment: 9 5/8" surface casing - B & W guide shoe (Prod. No. FC 06-09611-0200)

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: 5235' 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 tiree.

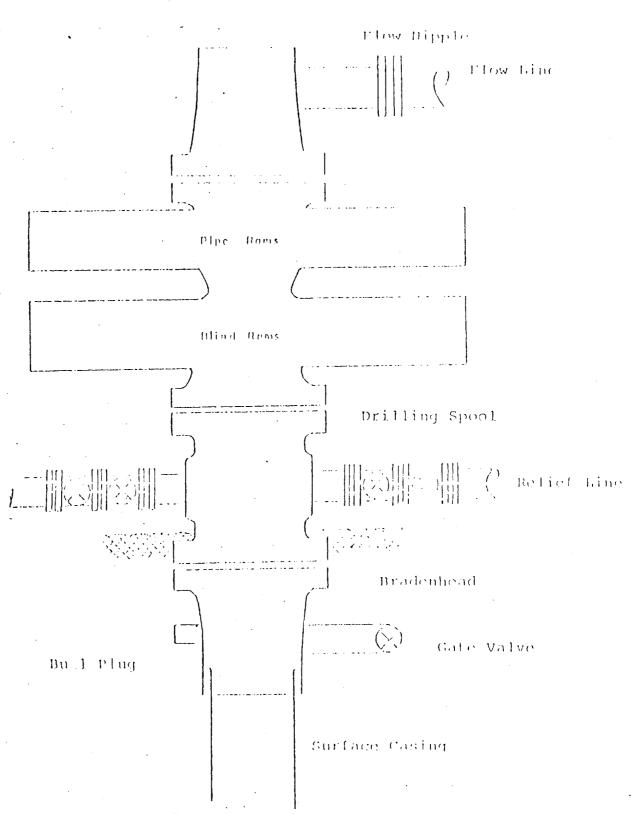
V. Cementing:

- 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 carculate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 7" intermediate casing use 183 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 (415 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 302 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (419 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



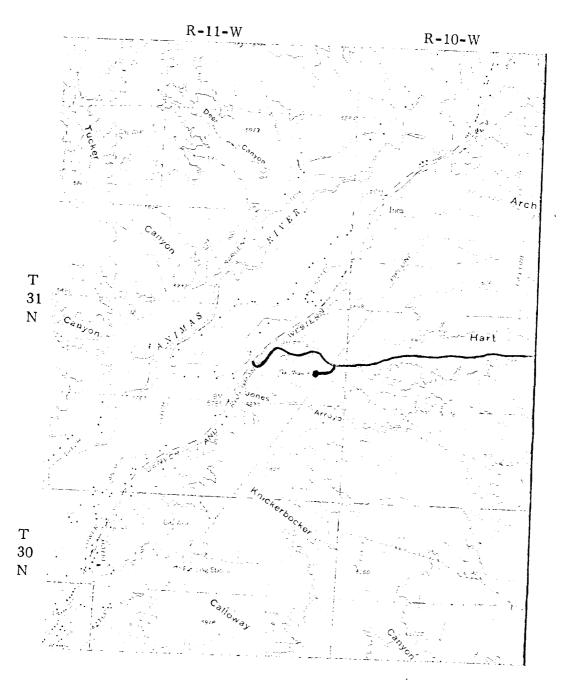
					ENG. REC.		DATE	El Paso Natural Gas Company				
					CHECKED CHECKED PROJ. APP		8-16-78		FOR			
PRT.	SEP.	DATE	TO RECORD	w.o.	DESIGN W.O.]		SCALE: 1"=50"	DWG. NO.	REV.		

for Mega 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 Zachary #1A NWSE 25-31-11

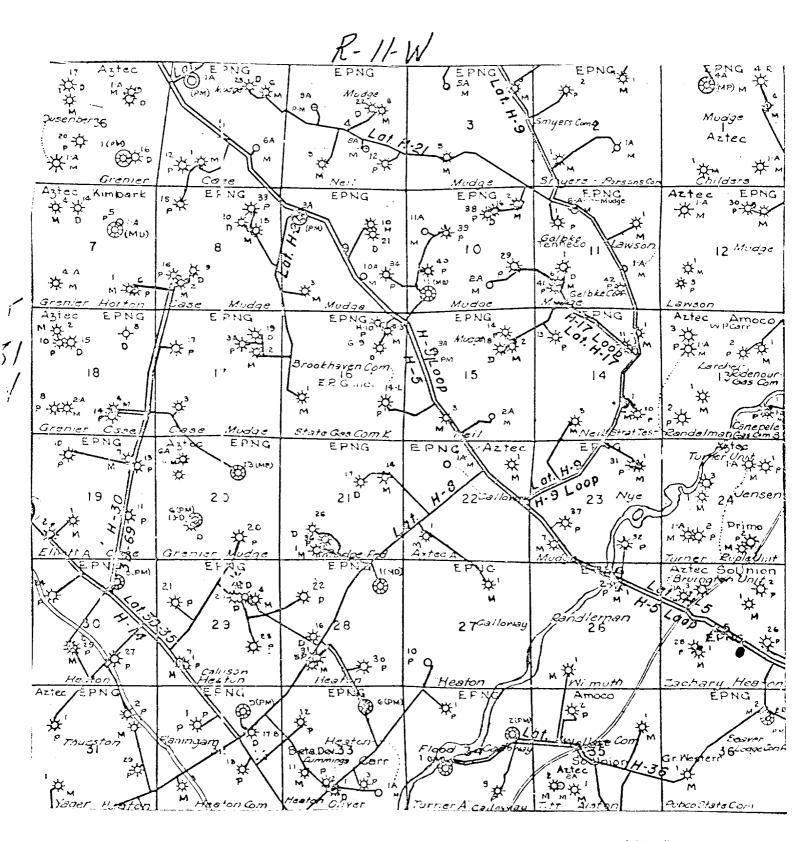


MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS			
EXISTING	PIPELTIES		+	-
EXISTING	ROAD & PIPELIN	E-+		•
PROPOSED	ROADS	-		
FROPOSED	PIPELILES	41		
PROPOSED	ROAD & PIPELII	ΞŦ,	+	-+-
			-	-+

EL PASO NATURAL GAS COMPANY Zachary #1A NWSE 25-31-11



MAP #2