SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

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

	DEPARTMEN'	TOF THE IN	ITERIOR		e)	30-039-21701
		GICAL SURVE				5. LEASE DESIGNATION AND SERIAL NO. NM 012709
APPLICATION	I FOR PERMIT	TO DRILL D	FFPFN OR F	ILIG RA	A CK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK	TOK TEKNIN	io bitiet, bi	EETEN, OK T	200 07	<u> </u>	
	LL 🖾	DEEPEN [] PL	UG BACI	K 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL CA	8 🖼		SINGLE -	MULTIPLI		San Juan 30-6 Unit
WELL WE	S X OTHER		ZONE	ZONE	·	S. FARM OR LEASE NAME
	humal Cam Ca					San Juan 30-6 Unit
EL PASO Nat	tural Gas Co	mpany				9. WELL NO.
	, Farmington	, NM 8740	1			8A
LOCATION OF WELL (Re	-			mta #1		10. FIELD AND POOL, OR WILDCAT
At surface	- 640'N, 80		any state requireme	ents.~)		Blanco Mesa Verde
\subset	040 N, 00	J W	1/			11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA Sec. 31, T-30-N, R-7
At proposed prod. zone	:				· ·	
4. DISTANCE IN MILES A	ND DIDECTION EDOM NEA	DEST TOWN OF DOST	OPPIGE			NMPM
	Abe's Store	LEST TOWN OR POST	OFFICE-			12. COUNTY OR PARISH 13. STATE
5. DISTANCE FROM PROPOS			10			Rio Arriba NM
LOCATION TO NEAREST		650'	16. NO. OF ACRES IN	1		F ACRES ASSIGNED
PROPERTY OR LEASE LI (Also to nearest drlg.	unit line, if any)		Uni			211.32
 DISTANCE FROM PROPO TO NEAREST WELL, DR 		1000'	19. PROPOSED DEPTH	5 1		TY OR CABLE TOOLS
OR APPLIED FOR, ON THIS			561	.5	Rota	z.X
6050 GL	her DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
	I	PROPOSED CASING	AND CEMENTING	G PROGRAM	4	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING I	EPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#		0'	224	cu.ft. to circulate
8 3/4"	7"	20.0#	327			cu.ft.to cover Ojo A
6 1/4"	4 1/2"line		3120-5		435	cu.ft.to fill to 3120
_	~	and sandwa	ter fractu	re the	Mesa	a Verde formation.
pring and b	WP and 6000 pipe rams wi	psi test ll be used	double gar fration APR OIL CON. C	prev put pr 1978	entei event	e equipped with tion on this well.
This gas is	pipe rams wi	II be used	APR 7 OIL CON. C DIST. 3	prev put pr 1973 OM. well.	event	cion on this well.
This gas is The W/2 of The W/2 of The If proposal is to diseventer program, if any.	Section 31	is dedicate	APR OIL CON. C DIST. 3 ed to this	1978 OM. wall.	sent produ	TAR 41973
This gas is The W/2 of The W/2 of The If proposal is to dieventer program, if any.	Section 31	is dedicate	APR OIL CON. O DIST. 3 ed to this nor plug back, give lata on subsurface le	1978 OM. wall.	sent produ	active zone and proposed new productive and true vertical depths. Give blowout
This gas is The W/2 of ABOVE SPACE DESCRIBE: ne. If proposal is to dieventer program, if any.	Section 31 PROPOSED PROGRAM: If prill or deepen directiona	is dedicate	APR OIL CON. O DIST. 3 ed to this nor plug back, give lata on subsurface le	1973 OM. well. data on presocations and	sent produ	action on this well. 4 1573 Control of this well. 4 1573 Control of this well. A 1573 Control of this well.
This gas is The W/2 of TABOVE SPACE DESCRIBE: The Discrepance of the space of the space for Federal	Section 31 PROPOSED PROGRAM: If prill or deepen directiona	is dedicate proposal is to deepen ally, give pertinent d	APR OIL CON. C DIST. 3 ed to this n or plug back, give lata on subsurface le	973 OM. well. data on presocations and	sent produ	active zone and proposed new productive and true vertical depths. Give blowout
This gas is The W/2 of ABOVE SPACE DESCRIBE: ne. If proposal is to de eventer program, if any. SIGNED (This space for Federa	Section 31 PROPOSED PROGRAM: If prill or deepen directional	is dedicate proposal is to deepen ally, give pertinent d	APR OIL CON. C DIST. 3 ed to this n or plug back, give lata on subsurface le	973 OM. well. data on presocations and	sent produ	A 1973 Control of this well. A 1973 March 30 197
This gas is The W/2 of ABOVE SPACE DESCRIBE: The Discrepance of the space for Federal	Section 31 PROPOSED PROGRAM: If prill or deepen directional	is dedicate proposal is to deepen ally, give pertinent d	APR OIL CON. C DIST. 3 ed to this n or plug back, give lata on subsurface la	973 OM. well. data on presocations and	sent produ	active zone and proposed new productive and true vertical depths. Give blowout March 30,19

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator			Lease Well No.				
El Paso Na	El Paso Natural Gas Company			Unit (NM-012709)	1		
Unit Letter			Range	County	······································		
C	31	30N	7W	Rio Arriba			
Actual Footage Location of Well:							
640 feet from the North line and 800 feet from the West line							
Ground Level Elev:	Producing For		Pool Diament	Dedic	cated Acreage;		
6050	Mesa Verd	ė	Blanco Me	sa Verde	211.32		
1. Outline th	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.						
	Ü	•	, ,				
2. If more th	an one lease is	dedicated to the wel	ll. outline each and ide	ntify the ownership there	of thath as to working		
	nd royalty).		,	une o maoronip unero	or (both as to working		
	, ,,						
3. If more tha	n one lease of d	ifferent ownership is	dedicated to the well,	have the interests of all	owners been consoli-		
		ınitization, force-pool					
·		-					
X Yes	No If a	nswer is "yes;" type	of consolidation — Un:	itization			
					e e		
		owners and tract des	criptions which have ac	ctually been consolidated	. (Use reverse side of		
	f necessary.)						
				consolidated (by commun			
	ling, or otherwise)	or until a non-standar	rd unit, eliminating suc	ch interests, has been app	proved by the Commis-		
sion.							
\sim		132754'			DTIFICATION		
N T	1/ >-	KI .	1		RTIFICATION		
KI	′ ″2	K					
Ŋ	1 3	KI	1	!	I hereby certify that the information con-		
80	01 6	pelin }	1	1 1	Is true and complete to the		
N	37	KJ	t	best of my kng	wledge and belief.		
P.P.S	line in	И		J. 19.	1. D. Buseo		
K	, <u>F</u> 6	K		Nome			
N					Drilling Clerk		
KI	ELW.	N	1	Position	CTETV		
N		Kl		El Pago	Natural Gas		
K	· •	K		Company	MACULAL GAS		
K	اتي ا	K	i	March 30	, 1978		
KI	1 3	Ŋ	1	Date Date	, +2,5		
M	NM-012709	KI					
K	Se	, N			 		
NKI	. 56	31	4	 			
Ŋ	1			I hereby cert	ify that the well location		
KJ	í	N L		1 1	plat was plotted from field		
N	1	K)	-	1 1	al surveys made by me or		
K	#8	M \	\	1	rvision, and that the same		
K	· 0	K		is true and a	correct to the best of my		
. N	-	K		knowledge and			
KI	KI ' KI TABARBA I I						
K	l .	N	1070	Date Surveyed			
И	•		PR 14 1978	March 3.	3078		
KJ	I	Ŋ			Tyro		
И	i	KI that	THE SHOWER	and Land, Sur			
K	1	И		1 4 1	Beteria.		
K	•	K		Fred B. A	orr r		
Ŋ	l	N	 	Certificate No.			
		12 st 24		3950			
Scale:	1" = 1000'				·		

P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan San Juan 30-6 Unit #8A

- 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.

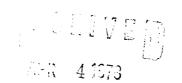
 Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a water hole located SE 9-29-8 (Manzaneras Mesa Water Well #1)
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

7.57. 4 1973

TO DESCRIPTION OF THE SECOND O

- 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 #1 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 #595-30318)
- 11. Other Information The terrain is rolling hills and high sand stone ledges with pinon and cedar growing.

 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.

March 31, 1978

D. C. Walker Project Drilling Engineer

DCW:pb

101772 1917 4 1973

Operations Plan San Juan 30-6 Unit #8A

I. Location: 800'W, 640'N, Section 31, T-30-N, R-7-W, Rio Arriba County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6050'GL

II. Geology:

Α.	Formation	Tops:	Surface	San	Jose	Lewis	3070 '
			Ojo Alamo		2330'	Mesa Verde	4750 '
			Kirtland		2395'	Menefee	4850 '
			Fruitland		2705'	Point Lookout	5165 '
			Pic.Cliffs		2940'	Total Depth	5615 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4740', 4840', 5155' 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 3270. 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"	3270 '	7"	20.0# K-55
		6 1/4"	3120-5615'	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: 5615' 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: $10" 900 \times 9 5/8"$ casing head. $10" 900 \times 6" 900 \times 10"$

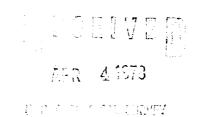


V. Cementing:

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 58 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 (212 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 313sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (435 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



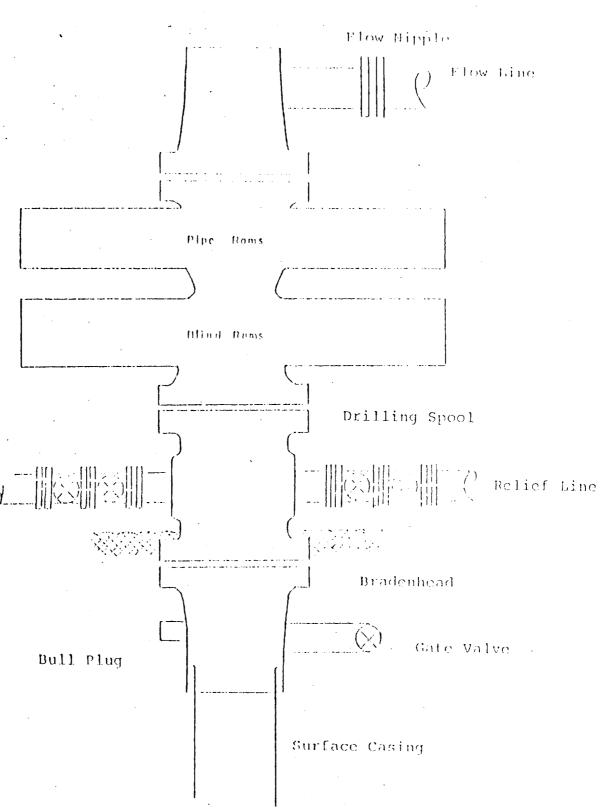
March 1 . Car

From wellhoad to From ac 1/4-00. Aul oft cutest 1,21 Mad Tunk Draw Rocks Roserue 130'

Typical Location Plat for Miss Verde and Water Wells

形式 41573

Typical B.O.P. Installation Low Mesa Verde Well

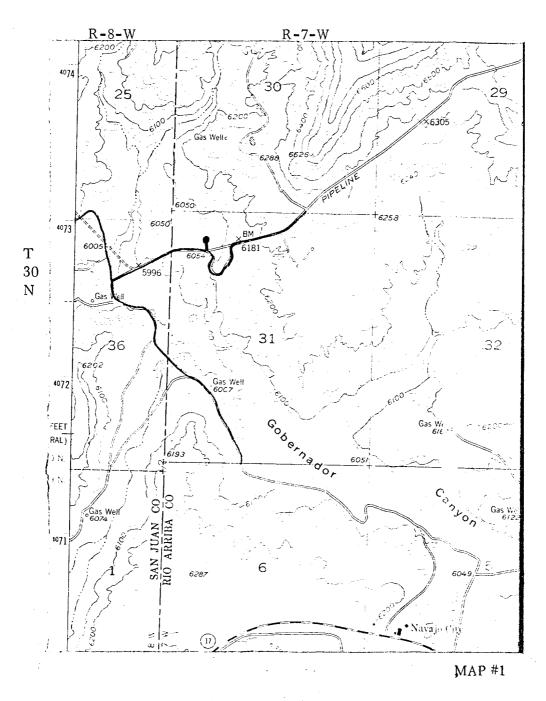


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

41573

11.14

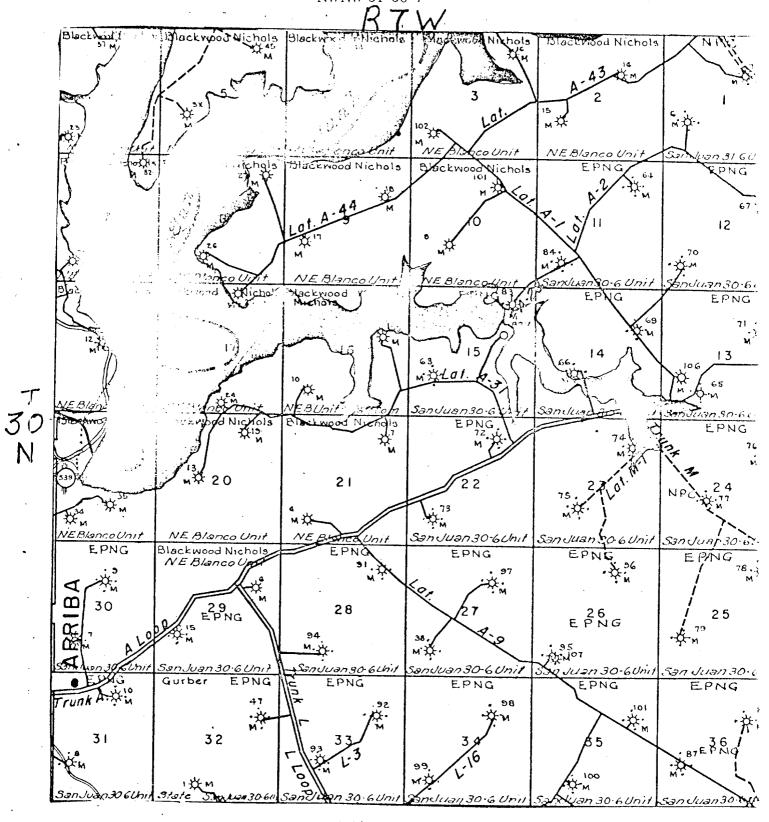
EL PASO NATURAL GAS COMPANY San Juan 30-6 Unit #8A SWNW 31-30-7



LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	-		
	PIPELINES		+	
EXISTING	ROAD & PIPELIN	王-+		- +
PROPOSED	ROADS			
PROPOSED	PIPELINES	+	+	+
PROPOSED	ROAD & PIPELII	E _	-+	-+

EL PASO NATURAL GAS COMPANY. San Juan 30-6 Unit #8A NWNW 31-30-7



MAP #2

Proposed Location •