#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

# UNITED STATES DEPARTMENT OF THE INTERIOR

	-039-21914
5. LEASI	E DESIGNATION AND SERIAL NO.
SF (	78945

	GEOLO	GICAL SURVEY			SF 0/8945
APPLICATION	I FOR PERMIT	TO DRILL, DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	LL 🛛	DEEPEN [	PLUG BA	CK □	7. UNIT AGREEMENT NAME San Juan 29-7 Unit
b. TYPE OF WELL OIL GA WELL WELL WY  2. NAME OF OPERATOR	S OTHER		SINGLE X MULTI-	IPLE	8. FARM OR LEASE NAME San Juan 29-7 Unit
	ural Gas Cor	nany			9. WELL NO.
3. ADDRESS OF OPERATOR	urar das cor	прану	<u> </u>		- 84A <b>-</b>
PO Box 990,	Farmington	, NM 87401			10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Re		l in accordance with any	State requirements.*)		Blanco Mesa Verde
	1140'S, 16	580 <b>'</b> E			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	e				Sec.1,T-29-N,R-7-W
14. DISTANCE IN MILES A	Same	REST TOWN OR POST OFFIC	2E *		NMPM 12. COUNTY OR PARISH   13. STATE
					Rio Arriba NM
16 miles Fo 15. DISTANCE FROM PROPO LOCATION TO NEAREST	ist OI Blance	) NW 16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL
PROPERTY OR LEASE L	INE, FT.	1140'	Unit		319.52
18. DISTANCE FROM PROPORTO NEAREST WELL, DI	OSED LOCATION* RILLING, COMPLETED,		ROPOSED DEPTH	İ	ARY OR CABLE TOOLS
OR APPLIED FOR, ON THE		2500'	6010'	Rota	22. APPROX. DATE WORK WILL START*
21. ELEVATIONS (Show whe	ether DF, KT, GK, etc.)				22. APPROX. DATE WORK WING START
6489 <b>'</b> GL <sup>23.</sup>		PROPOSED CASING AN	D CEMENTING PROGI	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEMENT
13-3/4"	9 5/8"	32.3#	200'	224	cu.ft. to circulate
8 3/4"	7"	20.0#	3690'	,	cu.ft.to cover Ojo Ala
6 1/4"	4 1/2"line	r 10.5#	3540-6010'	431	cu.ft.to fill to 3540
C - 3 + i 1 -		and dandwater	fracture th	o Moss	a Vordo formation
selectively	periorate of	and Sarawater	rracture tr	ie mese	a Verde formation.
- 2222	1 6000		l-la maka mwa		m equipped with
A 3000 psi	wp and buuu ning rame wi	psi test dou 11 he psed fo	bre gate pre	revent	r equipped with tion on this well.
pring and b	pipe rams wr	er be abed re	T DIOW Out p	210 (011)	TOTAL STATE
This gas is	s dedicated.			/∜	
					-no 0 1978
				E Sand	SEV COM.
The $E/2$ of	Section 1 is	s dedicated t	o this well.	. Å (	
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If	proposal is to deepen or	plug back, give data on	present pro	ductive gone and proposed new productive
zone. If proposal is to preventer program, if an		any, give pertinent data	on squadrace locations	and measure	ed and true vertical depths. Give blowout
24.	1 2 .				
SIGNED	- SHURE	TITLE		a Cleri	k PATE 9-14-78
(This space for Fede	ral or State office use)	-	DETETIN	, 0101.	
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SEP 1 8 1978

APPROVAL DATE

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C+102 Supersedes C-128 Effective 1-1-05

EL PASO NATURAL GAS COMPANY  EL PASO NATURAL GAS COMPANY  SAIT JUAN 29-7 UNIT (SF-078945)  Record to company  O		All distances must be from the outer boundaries of the Section.						
The content of the	Operator Lease Well the							
Committed processes of the state of the state of the subject will be continued by the committee of the subject will be continued by the state of the subject will be continued by the subject of the well, sufficient ownership thereof (luth us 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 No If answer is "yes," type of consolidation Unitization  If unswer is "no." list the owners and tract descriptions which have actually been consolidated. (I'se reverse wile 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 near-standard unit, eliminating such interests, has been approved by the Commission.  **CERTIFICATION**  Thereby certify that the information continued herein is true and complete to the well units of the set of my such as a suc	EL PASO NA	TURAL GAS COM	PANY	S.	AN JUAN 29-7	UNIT (SF-078	945)	814A -
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Sound Level Live: Personant Servation (d.189 Mess Verde Blanco Mess Verde 319.2)  1. Outline the average dedicated to the subject well by calored pencil or harbure 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 weeking interest and royalty).  3. If more than one lease of different ownership is Cedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?  Yes No If answer is "yes," type of consolidation Unitization  If answer is "no." little the owners and tract descriptions which have actually been consolidated. (I'se reverse side of this farm if necessary.)  No allowable will be assigned to the well until all interests have been consolidated thy communitization, untilization, forced-pooling, or otherwise) or until a newstandard unit, climicating such interests, has been approved by the Commission.  CERTIFICATION  Thereby certify that the information contained here is time and complete to the test of my knowledge and before.  Distilling Clark  Taken Market Certify that the well lection above so this plot was alreade from fire in ones of calculative region by one or under my transport of the best of my seembedge and test to the season of this plot was alreade from fire in ones of calculative region by one or under my transport of the transport of the best of my seembedge and test to the season of the plot of the containing and the containing and the plot of the containing and the plot of th	l	stion of Well:	<del></del>					
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 595-325-2841

## Multi-Point Surface Use Plan San Juan 29-7 Unit #84A

- 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 doesed 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.

  Nap No. 2 shows the existing gas gathering
  lines. Map No. 1 shows the emisting 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 San Juan 29-6 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. 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 high sandstone bluffs and rolling hills with pinon and cedar growing. Deer are occasionally seen on 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.

D. C. Walker

Project Drilling Engineer

#### Operations Plan San Juan 29-7 Unit #84A

I. Location: 1140'S, 1680'E, Section 1, T-29-N, R-7-W, Rio Arriba County, NM

Field: Blanco Mesa Verde <u>Elevation:</u> 6489'GL

#### II. Geology:

A. Formation	lops: S	urface	San Jose	Lewis		3490 <b>'</b>
		jo Alamo	2390	' Mesa	Verde	5138'
	K	irtland	2610	' Menef	ee	5248 <b>'</b>
	F	ruitland	3073	' Point	Lookout	5559 <b>'</b>
	Р	ic.Cliffs	3380	' Total	Depth	6010'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5128', 5238', 5549' 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 3690'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Ζ	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
11.	cabing riegisms	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3690 <b>'</b>	7" ·	20.0# K-55
		6 1/4"	3540-6010'	4 1/2"	10.5# K-55

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 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. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 6010' 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.

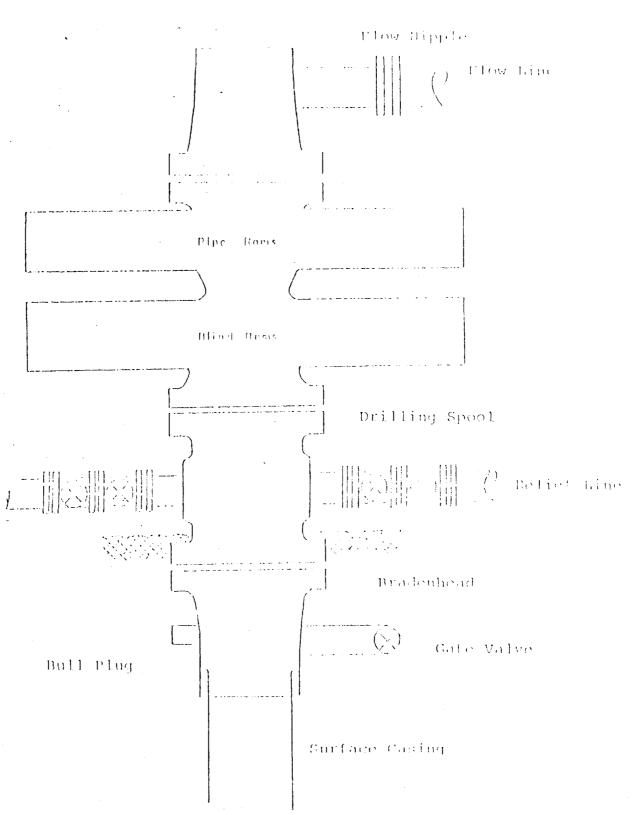
### V. Cementing:

- 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 110 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 (296 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 310 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (431 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

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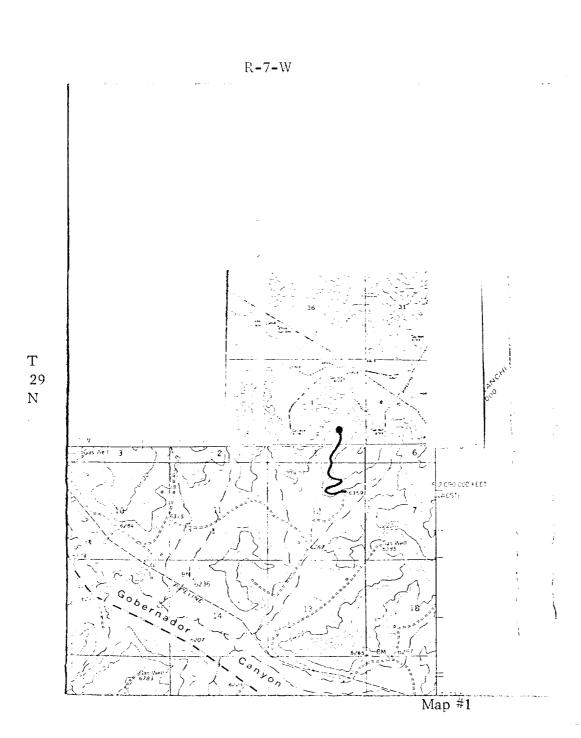
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#### Typical N.O. C. Fuctallation for Mena Verde Well



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 San Juan 29-7 #84 A SE 1-29-7

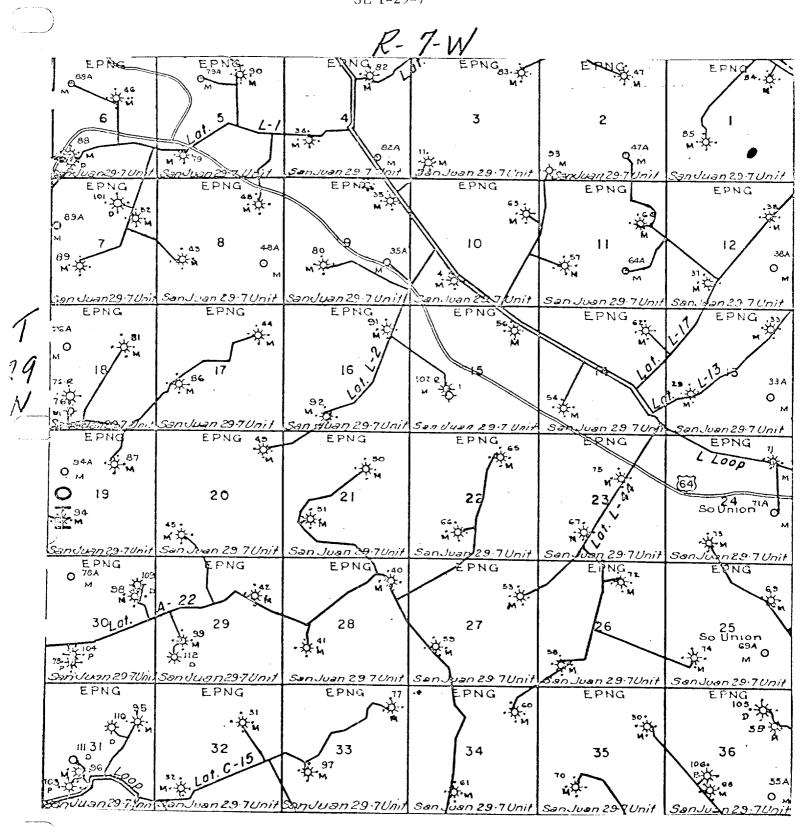


## LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
	PIPELINES	+++
EXISTING	ROAD & PIPELIN	E
PROPOSED	ROADS	
PROPOSED	PIPELINES	+ + +
PROPOSED	ROAD & PIPELIN	E
		•

## EL PASO NATURAL GAS COMPANY San Juan 29-7 #84 A SE 1-29-7

(3)



Map #2
Proposed Location