SUBMIT IN TRIPLICATE*

Form approved. 25.

(Other instructions on reverse side)

	Bureau	42-R	142
_	 	_	_

UNITED S	TAT	ES	
DEPARTMENT OF	THE	INTERIOR	

30-039-	21919
5. LEASE DESIGNATION	AND SERIAL NO.
SF 079514	

	GEOLG	GICAL SURVEY		SF 079514
APPLICATIO	N FOR PERMIT	TO DRILL, DEE	PEN, OR PLUG B	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK				
	RILL 🛅	DEEPEN	PLUG BA	San Juan 29-7 Uni
b. TYPE OF WELL	GAS ST		SINGLE TY MULTIP	1
WELL	WELL OTHER		ZONE ZONE	S. PARM OR LEASE NAME
. NAME OF OPERATOR				San Juan 29-7 Uni
El Paso Na	atural Gas Com	npany		9. W.ELL NO.
. ADDRESS OF OPERATO	R			77A -
PO Box 990), Farmington,	, NM 87401		10. FIELD AND POOL, OR WILDCAT
	Report location clearly and	d in accordance with any	State requirements.*)	Blanco Mesa Verde
At surface	1030'S, 15	540 ' E		11. SEC., T., R., M., OR BLK.
				Sec.33,T-29-N,R-7
At proposed prod. z				NMPM
4 DISTANCE IN MILES	Same	REST TOWN OR POST OFF	CE*	12. COUNTY OR PARISH 13. STATE
			~-	
16 M11es b	East of Blanco		NO OF LORDS IN THESE	Rio Arriba NM
LOCATION TO NEARE	ST		NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL.
PROPERTY OR LEASE (Also to nearest d.	LINE, FT. rlg. unit line, if any)	1030'	Unit	320.00
8. DISTANCE FROM PR		1	PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
OR APPLIED FOR, ON T		3000'	5600 '	Rotary
1. ELEVATIONS (Show w	whether DF, RT, GR, etc.)	,		22. APPROX. DATE WORK WILL START
3.		PROPOSED CASING A	ND CEMENTING PROGRA	AM
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
		33 3#	2001	224 cu ft to giraulata
13 3/4"	9 5/8"	32.3#	200'	224 cu.ft. to circulate
		20.0#	200' 3280' 3130-5600'	224 cu.ft. to circulate 288 cu.ft.to cover Ojo 431 cu.ft.to fill to 31
13 3/4" 8 3/4" 6 1/4" Selectivel	9 5/8" 7" 4 1/2"line	20.0# er 10.5# and sandwater psi test do	3280' 3130-5600' fracture the	288 cu.ft.to cover Ojo 431 cu.ft.to fill to 31 Mesa Verde formation.
13 3/4" 8 3/4" 6 1/4" Selective A 3000 psi blind and	9 5/8" 7" 4 1/2"line	20.0# er 10.5# and sandwater psi test do	3280' 3130-5600' fracture the	288 cu.ft.to cover Ojo 431 cu.ft.to fill to 31 Mesa Verde formation. Venter equipped with revention on this well. SEP 1 8 1978
13 3/4" 8 3/4" 6 1/4" Selective A 3000 psi blind and This gas i The E/2 of ABOVE SPACE DESCRI	9 5/8" 7" 4 1/2"line Ly perforate a WP and 6000 pipe rams will s dedicated. E Section 33 i	20.0# er 10.5# and sandwater psi test dou l be used for s dedicated proposal is to deepen or	3280' 3130-5600' fracture the lible gate prevor blow out property to this wall plug back, give data on the library of the lib	288 cu.ft.to cover Ojo 431 cu.ft.to fill to 31 Mesa Verde formation. Venter equipped with revention on this well.
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13 3/4" 8 3/4" 6 1/4" Selective A 3000 psi blind and This gas if The E/2 of the E/2 o	9 5/8" 7" 4 1/2"line Ly perforate a WP and 6000 pipe rams will s dedicated. E Section 33 i	20.0# er 10.5# and sandwater psi test dou ll be used for s dedicated proposal is to deepen or ally, give pertinent data	3280' 3130-5600' fracture the lable gate prevor blow out properties to this wall plug back, give data on subsurface leading as	288 cu.ft.to cover Ojo 431 cu.ft.to fill to 31 Mesa Verde formation. Venter equipped with revention on this well. SEP 181978 SEP 181978 U.S. CEOLOGICAL SURVEY DURANGO, COLO. DURANGO, COLO.
13 3/4" 8 3/4" 6 1/4" Selective A 3000 psi blind and This gas if The E/2 of the E/2 o	9 5/8" 7" 4 1/2"line Ly perforate a WP and 6000 pipe rams will Es dedicated. E Section 33 in BE PROPOSED PROGRAM: If of drill or deepen directions Iny.	20.0# er 10.5# and sandwater psi test dou ll be used for s dedicated proposal is to deepen or ally, give pertinent data	3280' 3130-5600' fracture the lable gate prevor blow out properties to this wall plug back, give data on subsurface leading as	288 cu.ft.to cover Ojo 431 cu.ft.to fill to 31 Mesa Verde formation. Venter equipped with revention on this well. SEP 181978 SEP 181978 U.S. CEOLOGICAL SURVEY DURANGO, COLO. DURANGO, COLO.
13 3/4" 8 3/4" 6 1/4" Selective A 3000 psi blind and This gas if The E/2 of sabove space describe. If proposal is to eventer program, if a signed (This space for Feed	9 5/8" 7" 4 1/2"line Ly perforate a WP and 6000 pipe rams will Es dedicated. E Section 33 in BE PROPOSED PROGRAM: If of drill or deepen directions Iny.	20.0# er 10.5# and sandwater psi test dou ll be used for s dedicated proposal is to deepen or ally, give pertinent data	3280' 3130-5600' fracture the lable gate prevor blow out properties to this world properties and the labeled properties are also as a subsurface hearing at the labeled properties are labeled properties.	288 cu.ft.to cover Ojo 431 cu.ft.to fill to 31 Mesa Verde formation. Venter equipped with revention on this well. SEP 181978 SEP 181978 U.S. CEOLOGICAL SURVEY DURANGO, COLO. DURANGO, COLO.

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-1-05 All distances must be from the cuter boundaries of the Section Operator Well to. EL PASO NATURAL GAS COMPANY SAN JUAN 29-7 UNIT (SF-079514 77AUnit Letter Hanje County 29N 33 7WRIO ARRIBA Actual Fustage Location of Well; 1030 1540 feet from the line and feet from the East Ground Level Elev. Froducing Formation Dedicated Acresses 6227 Mesa Verde Blanco Mesa Verde 320.00 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? Unitization Yes No 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. \odot Company September 33 I hereby certify that the well location shown on this plat was plotted from field SF-079514 notes of actual surveys made by me or under my supervision, and that the same is true and correct to the Lest of my knowledge and belief. 15401 SEP 1 8 1978 U. S. GEGLOGICAL SURVEY DURANGO, COLO.

1985 2410

2640

1320 1642

3950

P. C. BOX 930 FARMINGTON NEW MEXICO: 87401 PHONE: 805-925-2841

Multi-Point Surface Use Plan San Juan 29-7 Unit #77A

- 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 desmed 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 preposed project will be obtained from Delgadito Water Hole.
- 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 dopth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1,



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U. S. OTC. TRUM. SURVEY DOWN AND COLO.

7. cont'd.

- will be provided for human waste. If large amounts of liquids are left in the same 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 sandstone ledges 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 Inginee:

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U. S. GEOLOGICAL SURVEY DERANCO, COLO.

Operations Plan San Juan 29-7 Unit #77A

I. Location: 1030'S, 1540'E, Section 33, T-29-N, R-7-W, Rio Arriba County, N.

Field: Blanco Mesa Verde

Elevation: 6227'GL

II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Lewis	3082'
			Ojo Alamo	2027'	Mesa Verde	4570 '
			Kirtland	2194'	Menefee	4682'
			Fruitland	2655 '	Point Lookout	5147'
			Pic.Cliffs	2967'	Total Depth	5600 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4560', 4672', 5137' 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 3280'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing	Program:	Но]	le Size	Depth	Casing Size	Wt.&G	rade
			13	3/4"	200'	9 5/8"	32.3#	H-40
			8	3/4"	3280'	7"	20.0#	K-55
			6	1/4"	3130-5600'	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: 5600' 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 $1/4 \pm$ 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.

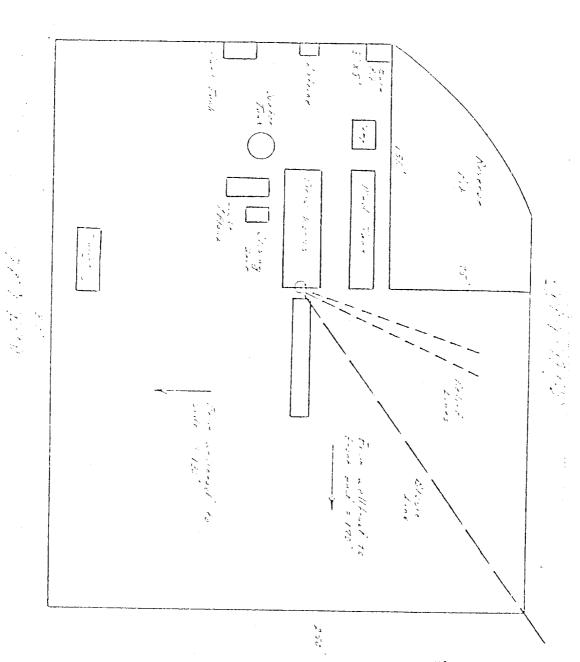
7" intermediate casing - use 105 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (288 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing 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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U. S. CECHOGICAL SURVEY DEMARGO, COLO.

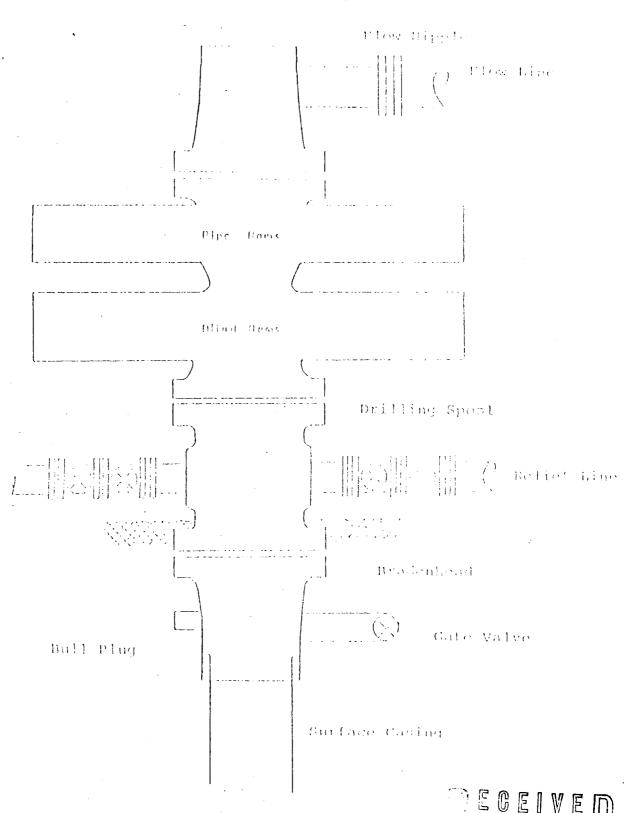


EGEIVEM

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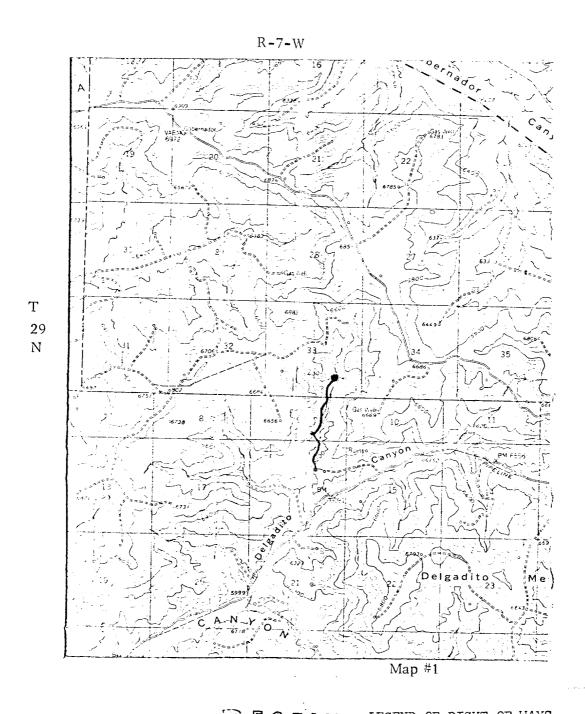
U. S. OFTELDÉBAL SURVEY DUDANGO, COLO.

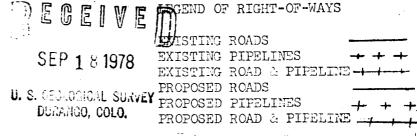
Typical M.O.C. Feetallation for Mena Verde Well



Series 900 Double Gate BOF, rated at 3000 psi Working Pressure SEP 1 8 1978 When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the SCHOLOME SULVEY flow nipple and the flow line is converted into a blow tentago, coto.

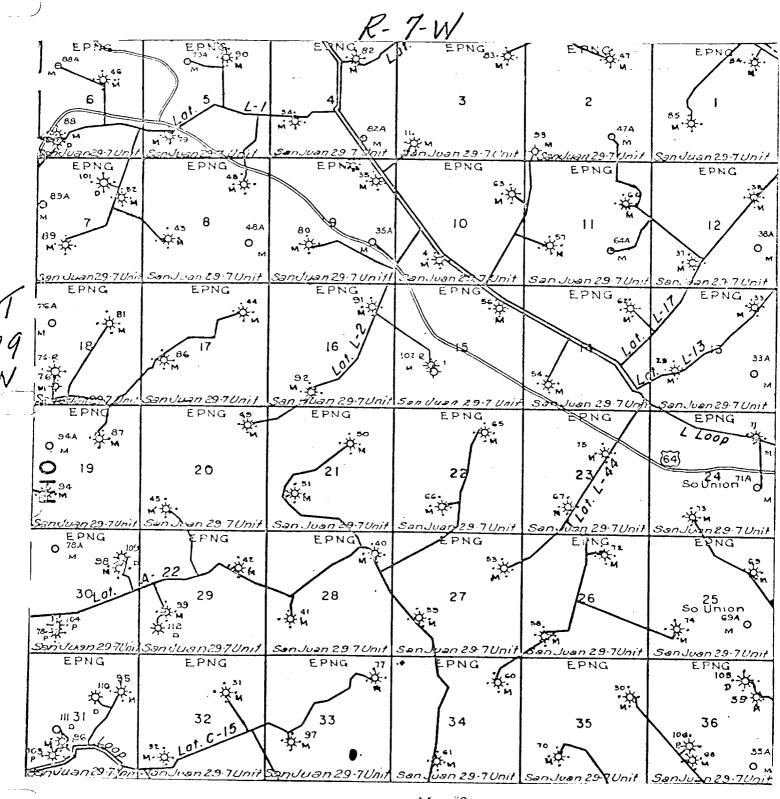
EL PASO NATURAL GAS COMPANY San Juan 29-7 #77 A SE 33-29-7





EL PASO NATURAL GAS COMPANY San Juan 29-7 #77 A SE 33-29-7

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Map #2 Proposed Location

