SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

		39-			
5. L	EASE DE	SIGNATION	AND S	ERIAL	NO.
S	F 07	78424			

		ED STATES OF THE !!		RIOR	reverse si	ctions on ide)	30-039-2/9/6 5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	GICAL SURVE	ΞY				SF 078424
APPLICATION	I FOR PERMIT T	O DRILL, D	DEEPE	N, OR	PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK		DEEDEN! [-7		LUC DA		7. UNIT AGREEMENT NAME
DRIL b. type of well	LL 🛅	DEEPEN [P	LUG BAC	LK [San Juan 29-7 Unit
OIL GAS	S CLL OTHER			NGLE K	MULTIP ZONE	LE	8. FARM OR LEASE NAME
. NAME OF OPERATOR							San Juan 29-7 Unit
El Paso Nati	ural Gas Comp	pany					9. WELL NO.
ADDRESS OF OPERATOR	Darmington	NIM 9740	า				49A
	Farmington,			tate requirer	nents *)		10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde
At surface	1840'S, 900			are requirer	nenes. ,		11. SEC., T., R., M., OR BLK.
At proposed prod. zone	•					_	sac.20,ff-269-n,R-7-
At proposed prod. 2016	same						NMPM
	nd direction from NEAR st of Blanco		OFFICE	*			12. COUNTY OF PARISH 13. STATE Rio Arriba NM
5. DISTANCE FROM PROPOS			16. NO	. OF ACRES	IN LEASE	17. No. 0	OF ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE LI	NE, FT.	900'		Un	nit	тот	320.00
(Also to nearest drlg. 8. DISTANCE FROM PROPO	SED LOCATION*	0.1.0.0.1	19. PR	OPOSED DEPT		I	RY OR CABLE TOOLS
TO NEAREST WELL, DR OR APPLIED FOR, ON THIS	S LEASE, FT.	2100'		62	245'	Rota	ry
1. ELEVATIONS (Show whet 6867 GL	her DF, RT, GR, etc.)						22. APPROX. DATE WORK WILL START*
	P	ROPOSED CASIN	G AND	CEMENTI	NG PROCRA	ΔM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от		DEPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#			200'	1	cu.ft. to circulate
8 3/4"	4 1/2"line	20.0# r 10.5#			30 ' 6245'		cu.ft.to cover Ojo A cu.ft.to fill to 378
A 3000 psi N	WP and 6000 p	psi test	douk	ole gat	te prev	venter	Verde formation. equipped with
A 3000 psi N	WP and 6000 p	psi test	douk	ole gat	te prev	venter	equipped with ion on this well.
A 3000 psi Nblind and p	WP and 6000 pipe rams will	psi test	douk	ole gat	te prev	venter	equipped with ion on this well.
A 3000 psi N	WP and 6000 pipe rams will	psi test	douk	ole gat	te prev	venter	equipped with ion on this well.
A 3000 psi Nblind and p	WP and 6000 pipe rams will	psi test	douk	ole gat	te prev	venter	equipped with ion on this well.
A 3000 psi Noblind and potential part of the contract of the c	WP and 6000 pipe rams will dedicated.	osi test l be used	douk for	ole gat blow	e prev out or	venter cevent	equipped with ion on this well. SEP 1 8 1978
A 3000 psi Noblind and position. This gas is The E/2 of Section 1.	WP and 6000 pipe rams will dedicated.	psi test l be used s dedicat	douk for	ole gat blow	e prevout pr	venter revent	equipped with ion on this well. SEP 1 8 1978 S. GEOLOGICAL SURVEY
A 3000 psi Noblind and position of the Box o	WP and 6000 pipe rams will dedicated. Section 20 is PROPOSED PROGRAM: If pirill or deepen directional	psi test l be used s dedicat	douk for ed t	ole gat blow to this	ce prevout or out or well.	venter revent	equipped with ion on this well. DECEIVED SEP 1 8 1978
A 3000 psi to blind and position and position. This gas is The E/2 of the control of the contr	WP and 6000 pipe rams will dedicated. Section 20 is PROPOSED PROGRAM: If pirill or deepen directional	psi test l be used s dedicat	douk for ed t	ole gat blow to this	ce prevout or out or well.	venter revent	equipped with ion on this well. SECEIVE SEP 1 8 1978
A 3000 psi to blind and position and position. This gas is The E/2 of the control of the contr	WP and 6000 pipe rams will dedicated. Section 20 is PROPOSED PROGRAM: If pirill or deepen directional	psi test l be used s dedicat	douk for ed t	ole gat blow to this	ce prevout or out or well.	venter revent	equipped with ion on this well. DECEIVED SEP 1 8 1978 I. S. GEOLOGICAL SURVEY uctiv DURANGO, COLOGICAL Give blowout
A 3000 psi to blind and p. This gas is The E/2 of to the E/2 of	WP and 6000 pipe rams will dedicated. Section 20 is proposed program: If pirill or deepen directional.	psi test l be used s dedicat proposal is to deep	douk for ed t	ole gat blow to this	out or well.	venter revent	equipped with ion on this well. DECEIVED SEP 1 8 1978 I. S. GEOLOGICAL SURVEY uctiv DURANGO, proposal new productive d and true vertical depths. Give blowout
A 3000 psi to blind and position blind and position. This gas is The E/2 of the bloom bl	WP and 6000 pipe rams will dedicated. Section 20 is proposed program: If pirill or deepen directional.	psi test l be used s dedicat proposal is to deep	douk for ed t	ole gat blow to this	well.	venter revent	equipped with ion on this well. DECEIVED SEP 1 8 1978 I. S. GEOLOGICAL SURVEY uctiv DURANGO, p. COLOGICAL and true vertical depths. Give blowout
A 3000 psi to blind and position blind and position. This gas is The E/2 of the bloom bl	WP and 6000 pipe rams will dedicated. Section 20 is proposed program: If pirill or deepen directional.	psi test l be used s dedicat proposal is to deep	douk for ed t	ole gat blow this lug back, gs n subsurface	well.	venter revent	equipped with ion on this well. DECEIVED SEP 1 8 1978 I. S. GEOLOGICAL SURVEY uctive URANGO, p. COLOGICAL give blowout dand true vertical depths. Give blowout

NEW MEXICO OIL CONSERVATION COMMISSION

Supersodes C-122

WELL LOCATION AND ACREAGE DEDICATION PLAT Littective 1-1-65 All distances must be from the outer boundaries of the Section World Co. ace rater SAN JUAN 29-7 UNIT (SF-078424) EL PASO MATURAL GAS COMPANY 49A 20 29N 7WRIO ARRIBA to a factoric Locution of Well; feet from the South 900 Hrie and Freducin; Formation Designated Acresge: Pool 6857 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 Tes. 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 consol dated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the #49 best of my knowledge and belief. **①**. Drilling Clerk El Paso Natural Gas Co. September 14, 1978 SF-078424 I hereby certify that the well location shown on this plat was plotted from field under my supervision, and that the same is true and correct to the best of my SEP 1 8 1978 knowledge and belief. U. S. GEOLOGICAL SURVEY DURANGO, COLO.

parted Theresay I have been

Fred

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

Multi-Point Surface Use Plan San Juan 29-7 Unit #49A

- 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 fect (20') in width. Upon completion of the project, the access road will be adequately drained to control scil 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 Manzaneras Water Well.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 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,

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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 sandstone ledges and rolling hills with pinon and cedar growing. Coyotes 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.



SEP 1 8 1978

D. C. Walker

Project Drilling Engineer

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

Operations Plan San Juan 29-7 Unit #49A

I. Location: 1840'S, 900'E, Section 20, T-29-N, R-7-W, Rio Arriba County, NM

Field: Blanco Mesa Verde

Elevation: 6867'GL

II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewis	3730 '
		Ojo Alamo	2663 '	Mesa Verde	5245 '
		Kirtland	2835 '	Menefee	5450 '
		Fruitland	3320 '	Point Lookout	5797 '
		Pic.Cliffs	3610'	Total Depth	6245'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5235', 5440', 5787' 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 3930'. Gas from intermediate casing to Total Depth.

IV. Materials:

Δ	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
21.	casing ring-	13 3/4"	200'	9 5/8"	32.3# H-40
		8 3/4"	3930 '	7"	20.0# K-55
		6 1/4"	3780-6245	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - Pathfinder guide shoe (Part #2006-1-012).

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: 6245' 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.

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DURANGO, COLO. /

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 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.

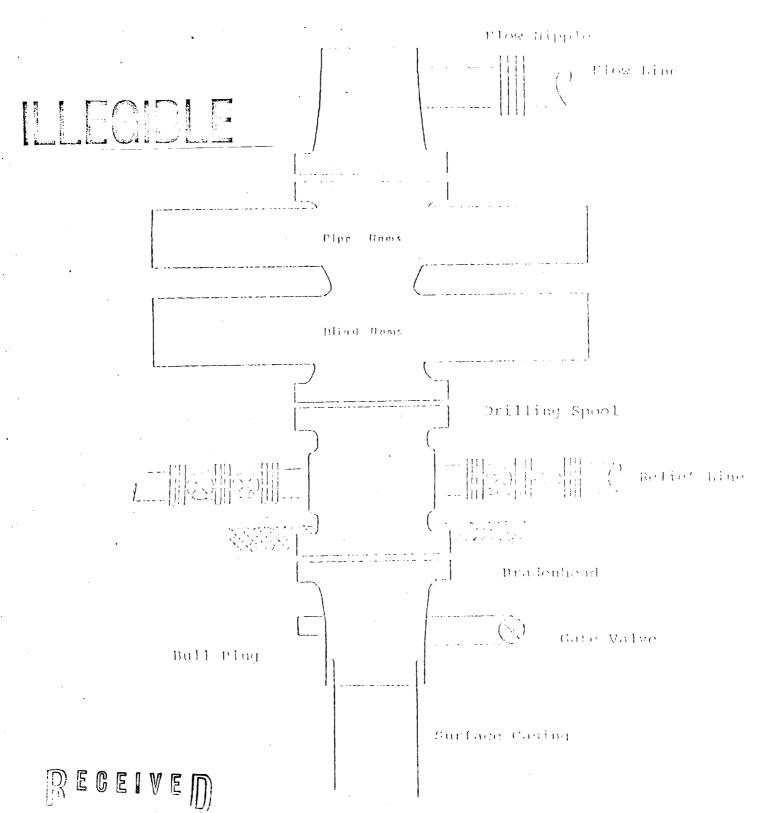
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 310 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (431 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



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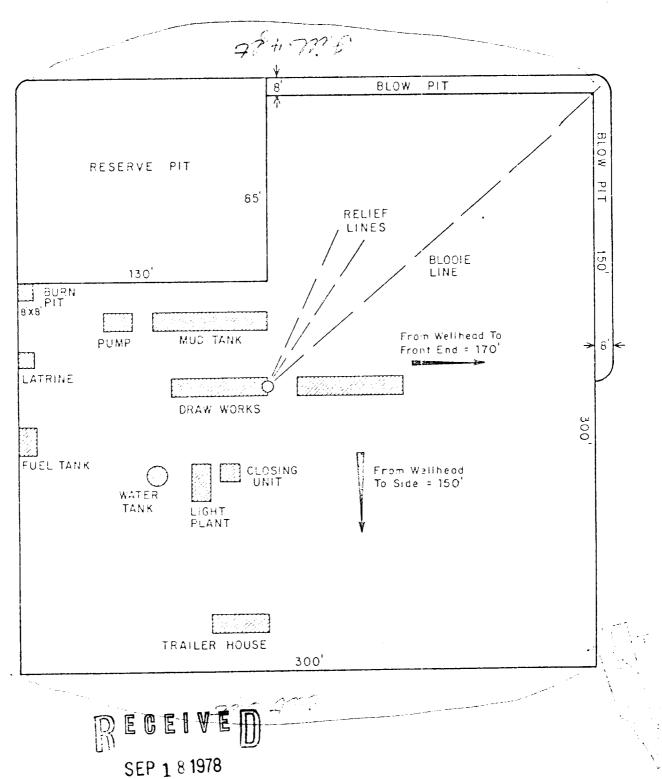
Typical B.O.L. Installation for Mega Verde Well



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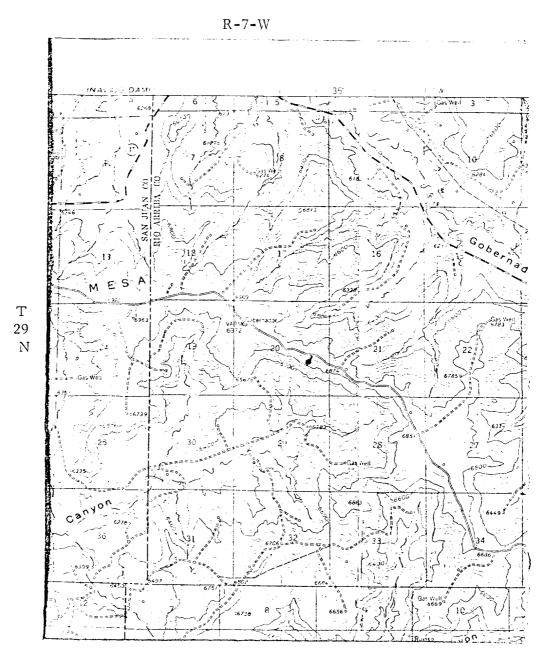
Series 900 Double Gate BOF, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line



LE CENTINGICAL SHRVEY

U. S. 1	GEOLOGIC	AL SUNAFI			
	JURANGO,	COLO, REC.	DATE	El Paso Natural Gas Company	
		DRAWN JLH.	:: : 8 -16 -78		
		CHECKED		TYPICAL LOCATION PLAT FOR	
	·	CHECKED		MESAVERDE OR DAKOTA DRILL SIT	ſΕ
1	i	PROJ. APP.			
PRT. SEP. DATE TO	w.o.	DESIGN		SCALE: 1"=50" DWG.	REV
PRINT RECORD	~ ~ ~ ~ ~ ~ ~ .	wo.		NO.	İ

EL PASO NATURAL GAS COMPANY San Juan 29-7 #49 A SE 20-29-7





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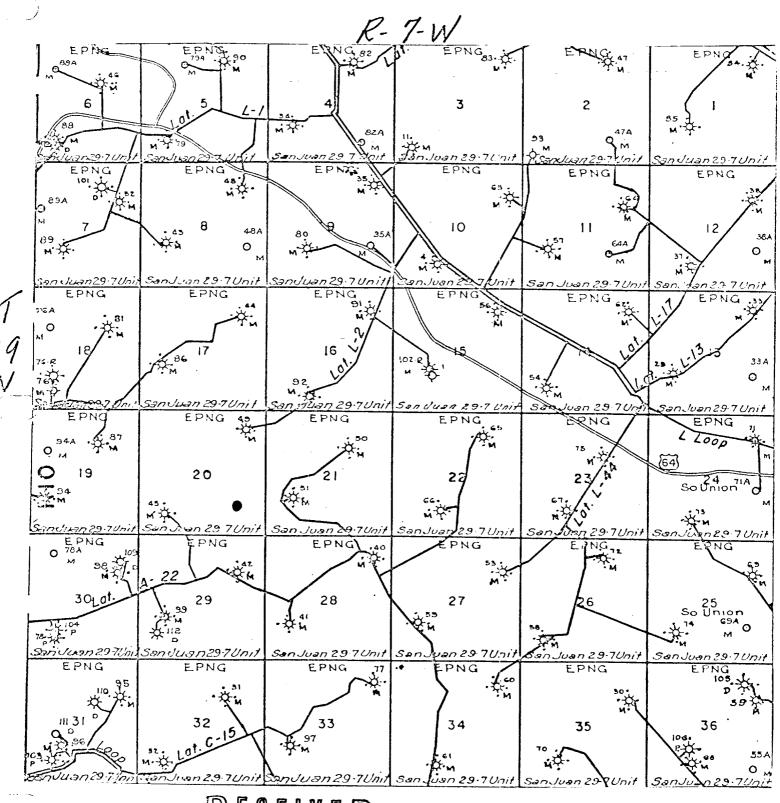
Map #1

LEGEND	೧೯	RIGHT-	077	-WAYS
--------	----	--------	-----	-------

EXISTING	ROADS	
	PIPELINES	+++
EXISTING	ROAD & PIPELIN	E-+
PROPOSED	ROADS	
PROPOSED	PIPELINES	. + + +
PROPOSED	RCAD & PIPELIN	$\mathbb{E} \longrightarrow ++$

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Map #2

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Proposed Location

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