#### SUBMIT IN TRIPLICATE\*

Form approved.

(Other instructions on reverse side)

В	udget	Bureau	n No.	42-R	1425.
30	-0	39	- 2	18	7/
5. LEASE	DESIG	NATION	AND S	ERIAL	NO.

UNITE	ED $S$	STATI	ES
<b>DEPARTMENT</b>	OF	THE	INTERIOR

	DRILL SOLUTION  GAS WELL OTHER  O Natural Gas Company  ERATOR  990, Farmington, NM 87401  ELL (Report location clearly and in accordance with any State requirements.  810'N, 880'W  rod. zone  Same  MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  ES East of Blanco, NM  M PROPOSED*  NEAREST LEASE LINE, FT. LEASE LINE, FT. LEASE LINE, GOMPLETED, ON THIS LEASE, FT.  NOT THIS LEASE, FT.  WELL, DRILLING, COMPLETED, ON THIS LEASE, FT.  WELL, DRILLING, COMPLETED, ON THIS LEASE, FT.  BY  PROPOSED CASING AND CEMENTING P.  BY  PROPOSED CASING AND CEMENTING P.  BY  PROPOSED CASING AND CEMENTING P.  BY  1 9 5/8"  32.3# 200' 3795'					ļ	SF 0/9192
APPLICATION	N FOR PERMIT TO	O DRILL, D	EEPEN	, OR PL	.UG BA	<b>ACK</b>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK					G BAC		7. UNIT AGREEMENT NAME San Juan 28-6 Unit
b. TYPE OF WELL	হ হিন		SINGL	E V	MULTIPLE		S. FARM OR LEASE NAME
WELL W				4	ZONE		San Juan 28-6 Unit
. NAME OF OPERATOR	tural Gas Comm	oanv				}	9. WELL NO.
ADDRESS OF OPERATOR							49A
	, Farmington,	NM 8740	1			ľ	10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Re			any State	e requirement	ts.*)		Blanco Mesa Verde 🖊
At surface	810'N, 880	' W				ľ	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	e						Sec.16,T-28-N,R-6-W
	same						NMPM
. DISTANCE IN MILES	AND DIRECTION FROM NEARE	ST TOWN OR POST	OFFICE*				12. COUNTY OR PARISH   13. STATE
		, NM		*			Rio Arriba  NM
. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		16. No. o	F ACRES IN L	LEASE		F ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE L (Also to nearest drig	INE, FT. g. unit line, if any)	810'					<b>W</b> / 320.00
. DISTANCE FROM PROP	OSED LOCATION* RILLING, COMPLETED,	2000	19. PROPO		l		RY OR CABLE TOOLS
OR APPLIED FOR, ON TH	IS LEASE, FT.	3000		PT02.		Rotar	Y 22. APPROX. DATE WORK WILL START*
6627 GR	ether DF, RT, GR, etc.)						22. APPROX. DATE WORK WILL START
	PI	OPOSED CASIN	G AND C	EMENTING	PROGRAM	MI.	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DE	РТН		QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#	200'				u.ft. to circulate
8 3/4"	7"			3795 <b>'</b>		264 cu.ft.to cover Ojo	
6 1/4"	4 1/2"line:	r 10.5#	: 36	545-610	5'	429 c	cu.ft.to fill to 3645
blind and	pipe rams wil	l be used	l for	blow o	out pr	event	tion on this well.
This gas i	s dedicated.					<i>- 1.</i>	
	<u></u>	•				- 1 vi	1978
							102 6 20 m
The $W/2$ of	Section 16 i	s dedicat	ed to	this	well.	1	100 100 100 100 100 100 100 100 100 100
PAUT CD. CD PECCETOS	rroposed program: If pr drill or deepen directional	onosal is to deep	en or plus	hack, give d	lata on pro	esent prode I measured	uctive zone and proposed new productive and true vertical depths. Give blowout
8igned	Breace	TIT	LE	Drill	ing (	Clerk	DATE August 17,197
(This space for Fede	ral or State office use)					<del></del>	

APPROVED BY \_ CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO.

AUG 22 1978

TITLE

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

Form C-102 Supersedes C-12% Effective 1-1-65

All distances must be from the outer boundaries of the Section

		All distances must be	from the outer hour	daries of the Section	n	
EL PASO NA	TURAL GAS COM	PANY	SAN JUAN	28 <b>-</b> 6 UNIT	(SF-079192)	Well tio.
Unit Letter	Section	Township	Hange	County	<del>`</del>	
D	16	28N	6W	Ric	o Arriba	
Actual Footuge La	feet from the	North line mid	880	feet from the	West	ltn:
Ground Level Election 6627	7. Producing Fo		Foci Blar	co Mesa Verd		320.00 Acres
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	than one lease is and royalty).	dedicated to the wel	l, outline each	and identify the	ownership there	of (both as to working
niterest	and royarty.					
3. If more t	han one lease of	different ownership is	dedicated to the	well, have the	interests of all	owners been consoli-
		unitization, force-pool		·		
•		•			• 1	
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If anewer	ie "no" liet the	owners and tract desc	rintians which			(L'an rayanan aida af
	if nccessary.)	owners and tract desc	inpuons which	mave actually be	en consondated	. tese reverse side of
No allow	able will be assign	ned to the well until al	l interests have	been consolida	ted (by commun	itization, unitization,
		) or until a non-standar				
sion.					•	
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	SF-079192	N	i .		Company	0 1070
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## ELP350 NATURAL GAS COMPANY

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

#### Multi-Point Surface Use Plan San Juan 28-6 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 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 28-6 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. 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 amus... be 'es interior and laste in the rough of pi 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
- Ancillary Facilities No camps or airstrips will be associated 8. with this project.
- 9. Wellsite Layout -Please refer to the attached Plat No. 1.
- Plans for Restoration of the Surface After completion of the 10. proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operation. 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 railed pinon and cedar growing. Cattle graze the proposed project site.
- Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM 12.
- 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.

Project Drilling Engineer

## Operations Plan San Juan 28-6 Unit #49A

I. Location: 810'N, 880'W, Section 16, T-28-N, R-6-W, Rio Arriba County, NM

Field: Blanco Mesa Verde Elevation: 6627'GR

#### II. Geology:

Α.	Formation T	ops:	Surface	San Jose	Lewis	3595 <b>'</b>
		-	Ojo Alamo	2625'	Mesa Verde	5155'
			Kirtland	2755'	Menefee	5315 <b>'</b>
			Fruitland	3180'	Point Lookout	5657 <b>'</b>
			Pic.Cliffs	3465 <b>'</b>	Total Depth	6105 <b>'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 5145', 5305', 5645' 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 3795'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing	Program:	Hol	e Size	Dept	.h	Casing	Size	Wt.&G	rade
	3	_	13	3/4"	<u>Dept</u> 200	ī	9 5/8"		32.3#	H-40
			8	3/4"	3795	. 1	7"		20.0#	K-55
			6	1/4"	3645-61	.05'	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: 6105' 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:  $10"900 \times 95/8"$  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 90 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 (264 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 309 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (429 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

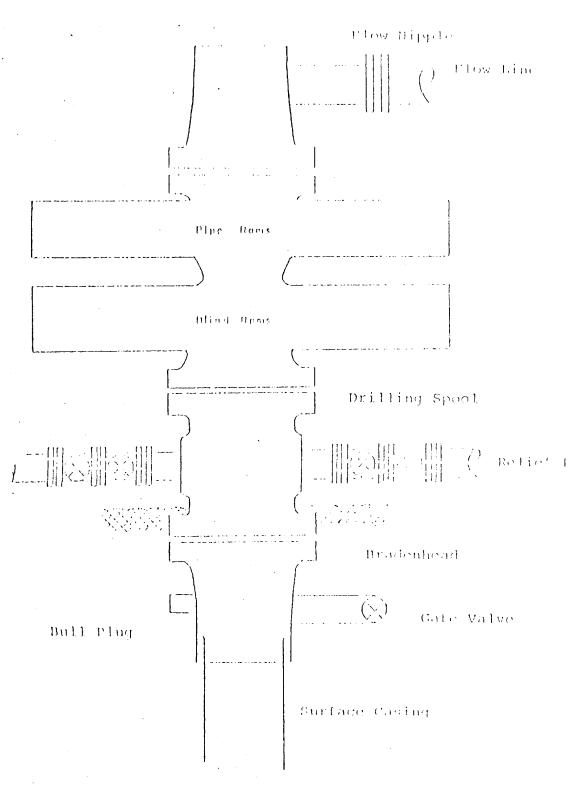
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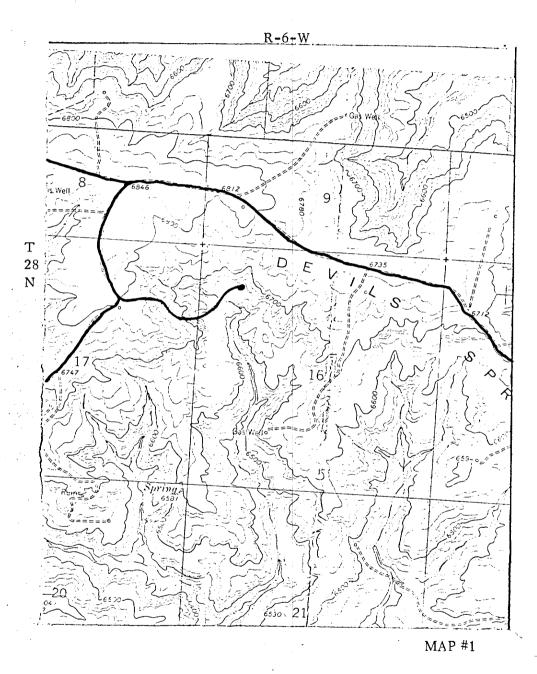
Service Contraction

# Typical W.O.t Electrication for Mess 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 28-6 Unit #49A NW 16-28-6

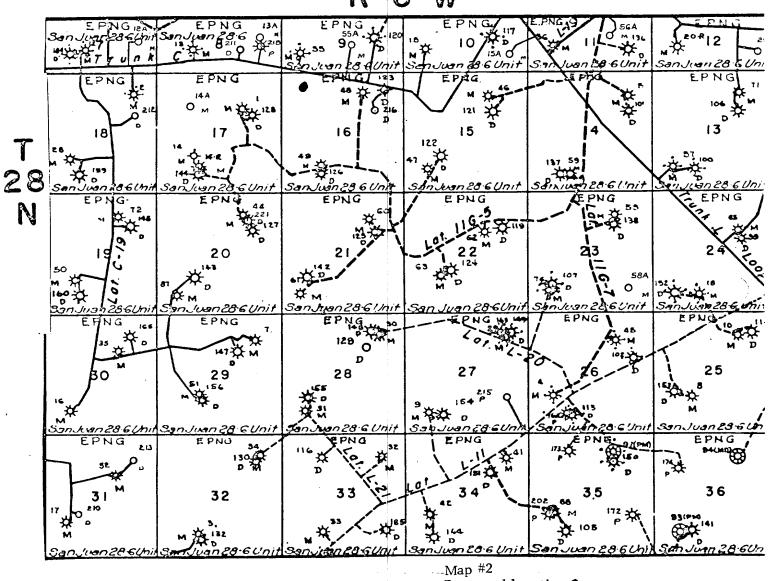


LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	<del></del>
EXISTING	PIPELINES	<del>+ + +</del>
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#### EL PASO NATURAL GAS COMPANY San Juan 28-6 Unit #49A NW 16-28-6

### R-6-W



Proposed location •

# UNITED STATES

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		rill or to deepen or plug back posals.)		San Juar	1 28-6 L	<u>Init</u>		_	
reservoir. Use Form	9-331-C for such pro	posals.)		8. FARM OR I	**	7.	三世 佳		
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2. NAME OF O				49A	<u> </u>	<u> </u>	<u> </u>	_	
	<u>Natural Gas (</u>	Company		10. FIELD OR		-	물병원		
3. ADDRESS O				Blanco N	1.V	7	OUDVEY O	_	
		ton, New Mexico		11. SEC., T., R			N, R-6-W		
	OF WELL (REPORT	LOCATION CLEARLY. S	ee space 17	ANEA SC	N.				
below.) AT SURFACI	E: 810'N, 88	איה		12. COUNTY C				-	***
	OD. INTERVAL:			Rio Arri			v Mexico		
AT TOTAL D	EPTH:			14. API NO.	3 4.4 2	<u>- 110</u>		_	
16. CHECK APP	PROPRIATE BOX T	O INDICATE NATURE	OF NOTICE,		F 14 9 8	5 6			
REPORT, OF	R OTHER DATA			15. ELEVATION	NS (SHOW	DF, KD	B, AND WE	_ ))	
				6627' GI		1 5	( in the second	-	24.00
REQUEST FOR		SUBSEQUENT REP	ORT OF:		57 k 4.	Œ.	နှော်နှင့်	•	Fren the
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REPAIR WELL		Ħ		(NOTE: Report	results of mu	iltiple com	pletion or zor	ie	
PULL OR ALTER	R CASING 🗍				on Form 9-		લુકે જેવા છે.		
MULTIPLE COM	PLETE 🔲				<u> </u>	2 3		3	2.85
CHANGE ZONES	; <u> </u>	片		5	- 출입원보	E 5	1 5 5 5 5	<del>-</del>	
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(other)				2	<b>ទ</b> ទ្រឹង្គិ		† 9 G &	\(\frac{1}{2}\)	** **
17. DESCRIBE	PROPOSED OR CO	MPLETED OPERATIONS	(Clearly state	all pertinent d	etails, and	give per	tinent date	s,	
including es	stimated date of st	arting any proposed wor pths for all markers and a	k. If well is di zones pertinen	rectionally drille t to this work.)*	d, give sub	surface I	ocations an	a	
measured a	ila ti de verticar de,	Alls for all markers and a	cones peranjen	t to time workly		ш Э 8	Ema		
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(This space for Federal or State office use)

18. I hereby certify that the foregoing is true and correct

DATE

\_ TITLE \_Drilling\_Clerk \_ DATE \_

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\*See Instructions on Reverse Side

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#### UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

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7. UNIT AGREEMENT NAME San Juan 28-6 Unit

8. FARM OR LEASE NAME ... San Juan 28-6 Unit

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SUNDRY	NOTICES	AND	REPORTS	ON	WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

1. oil gas 🗓 other	:	-					
2. NAME OF OPERATOR							
El Paso Natural Gas Company							
3. ADDRESS OF OPERATOR		L					
P.O. Box 289, Farmington, New Mexico 87401							
4. LOCATION OF WELL (REPORT LOCATION CLEARLY, See space	17						

10. FIELD OR WILDCAT NAME Blanco M.V.

9. WELL NO. 49A

below.) AT SURFACE: 810'N, 880'W

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 16, T-28-N, R-6-W N.M.P.M.

AT TOP PROD. INTERVAL: AT TOTAL DEPTH:

12. COUNTY OR PARISH 13. STATE Rio Arriba New Mexico 14. API NO.

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5 1 2 3 5 4 5 5 杂草工 15. ELEVATIONS (SHOW DF, KDB, AND WD) 6627¹ GL < 5-1 F 8.5 C

1,60, 647 1,600, 647 1,000, 60 1,000

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REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON\* (other)

SUBSEQUENT REPORT OF: 

. 0. . 0 (NOTE: Report results of multiple completion or zone botqab botqab admina admina change on Form 9-330.) Ş. ≟. ii phresia a stab pham a hobbed bu a shi bus be

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

5-30-79: TD 3781'. Ran 99 jts. 7", 20#, K-\$5 intermediate casing, 3769' set at 3781'. Cemented w/269 cu. ft. cement. WOC 12 hours; held 1200#/30 minutes. of cement at 2300'.

6-03-79: 6106'. Ran 76 jts. 4 1/2", 10.5#, K-55 casing liner, 2465' set 3641-6106'. Float collar set at 6089'. Cemented w/431 cu. ft. cement. WOC 18 hours

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> > 200 g 200 g 200 g 200 g

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7 1979 CHE SON. COM. CASTet.3

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Subsurface Safety Valve: Manu. and Type \_\_\_

18. I hereby certify that the foregoing is true and correct SIGNED

Drilling Clerk DATE TITLE

June 4, 1979

(This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

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Service.