SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY						NM 013678	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTER OR TRIBE NAME		
1a. TYPE OF WORK DRI b. TYPE OF WELL	LL 🛛	DEEPEN [PL	UG BAC	ж 🗆	7. UNIT AGREEMENT NAME San Juan 28-6 Unit
OIL GA	S OTHER			NGLE	MULTIPI ZONE	" X	S. FARM OR LEASE NAME
2. NAME OF OPERATOR							San Juan 28-6 Unit 🕳
1	ural Gas Comp		9. WELL NO.				
3. ADDRESS OF OPERATOR			_				71A (PM)
	Farmington,					W	THE SEPTEMENT OF THE SECTION OF THE
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Part surface 940'S, 1520'E At proposed prod. zone Blanco Mesa Verde 11. SEC., T., E., M., OB BLE. AND SURVEY OR AREA Sec. 13, T-28-N, R-6-W						lanco Mesa Verde 11. SEC., T., B., M., OB BLK. AND SURVEY OR AREA	
14. DISTANCE IN MILES A	Same	EST TOWN OR POS	r offic	Z 2			12. COUNTY OR PARISH 13. STATE
3 5 miles s	southwest of (Gobernado	r C	amp.NM			Rio Arriba NM
LOCATION TO NEAREST						TO T	F ACRES ASSIGNED HIS WELL 60 60 320.00
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED.					ARY OR CABLE TOOLS		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)						22. APPROX. DATE WORK WILL START*
6493'GL							
23.	P	ROPOSED CASI	G ANI	CEMENTIN	G PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	от	SETTING	DEPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	36.0	<u> </u>	2	00'	224 cu.ft. to circulate	
8 3/4"	7"	20.0	· 	36	<u>95!</u>	258 cu.ft.to cover Ojo Al	
6 1/4"	4 1/2"line	r 10.5	ŧ	3545-	6015'	431 c	cu.ft.to circ.liner
Selectively perforate and sandwater fracture the Pictured Cliffs and Mesa Verde formation.							

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. While blowout preventer program, it any. The E/2 of Section 13 is dedicated to this well

)			
BIGNED MARY Tradfected	TITLE	Drilling Clerk	DATE
(This space for Federal or State office use)			
PERMIT NO.		APPROVAL DATE	
APPROVED BYCONDITIONS OF APPROVAL, IF ANY :	TITLE		DATE

24.

. STATE OF NEW MEXICO LITERBY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

/980 Form C-102 keyised 10-1-78

All distances must be from the cuter houndaries of the Section.

Operator			Lease			Well No.
· ·	TIDAT CAS COMP	APTV	SAN JUAN 28-	4 inim	(NM-013678)	
EL PASO NATURAL GAS COMPANY Unit Letter Section Township			Range	County	(MM-013010)	71A
0	13	28N	6W	•	Auriba	_
Actual Footage Loca		2011	OW		Arriba	
940		uth line and	1520	4 4 4b	East	140.0
Ground Level Elev.	Producing For		P∞Undesignated	feet from the		line ated Acreage:
6493	Mesa Ve			Mesa Verd		.0 & 320.0 Acres
1. Outline the	e acreage dedica	ted to the subject w	·			
			on a, cororda pone.	is or maomaro	marker on the pro-	· 2013 11 /
2. If more th	an one lease is	dedicated to the wel	l. outline each and	identify the a	ownership thereo:	(both as to working
interest an			,	,	г	(20111176
3. If more tha	n one lease of di	fferent ownership is	dedicated to the we	ll, have the i	interests of all a	waars been consoli-
	ommunitization, u	nitization, force-pooli	ng. etc?			
x				IIni+	irstion	
Yes	No If an	swer is "yes," type o	l consolidation	UIII	N 12 17 E 18 R3 17	· · · · · · · · · · · · · · · · · · ·
If answer i	e "no" list the	owners and tract desc	rintions which have	. aatuallu ka		(II.a
	necessary.)		riptions which have	actually bee	en consolidated.	(Use reverse side of
	•	d to the well until al	interests have bee		ad (b., a.,	
		or until a non-standar				
sion.	ing, or otherwise,	or until a non-standar	u unit, emminating s	such interest	s, has been appro	oved by the Commis-
31011						
	1	K		K	CER	TIFICATION
	ļ		1		1	
	!		Ì		! hereby certify	that the information con-
	l	X #	71 ,	1	1	true and complete to the
	l ,	M	⊙ I	1	best of my know	ledge and belief.
	1	KI .		胀	1 1000	Shap hood
	1	KN .	SF - 080505-A	胀	Name Name	South parties
	· - +	N		- 	1	,
	1	1 28	1		Dittilling C	terk
	1		i		 D.l. Dana Na	
	1 /		l i	K	Company Na	tural Gas Co.
	\forall '\forall '\fo		į.	8/	1 ; 0ga 4 5 h 255 - 126	, <u> </u>
	1 0	KØ	i	ik	Date	, 2373
) 	ec.	i	(1)		
				 		
	1	13		Ka (I haveby costify	that the well location
i		NØ -	1	N/S		at was platted from field
	i ·	- NX		₩.	1	surveys made by me or
	1	NX	NM-013678	- XX	1	ision, and that the same
<u></u>	U E I V E		į .		is true and cor	rect to the best of my
	1		i		knowledge and b	elief.
	7 12 1979	— — -	-			
1.	1 12 1313	XX	3.500		1360	LAND SU
. ,	. Lour / Ex	, KIX	© 1520	"	Date Survey 3	TE
	1	KIX	_	XX	August/20/	33/3°/
	! '	KIN .	101/6	EE K	Registered Erefeet	stengt Engineer
	1	N N	6	₽ ()	and/or fland fully	Mary of the
	ļ	N Soxoo	(XXXX) (XXXXX	XXXX	大大人(10c)	The true of
L			الوسونية المواجعة الوسونية الوسونية المساوية المساوية المساوية المساوية المساوية المساوية المساوية المساوية ال المساوية المساوية ا المساوية المساوية ا		Certificate No.	The sales
		3310 3640 3000	1800 1000	500	3950	



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

Multi-Point Surface Use Plan

San Juan 28-6 Unit #71A

- 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.
- 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,

ETT 02 1979

the second

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 canyon bottom with sagebrush, grass, pinon and juniper growing. Cattle, deer and horses 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.

L. A. Aimes

Project Drilling Engineer

FIVE

``' 02 **19**79

YEVEUS . "

Operations Plan San Juan 28-6 Unit #71A

I. Location: 940'S, 1520'E, Section 13, T-28-N, R-6-W, Rio Arriba County, NM

Field: Undes. PC & Blanco MV Elevation: 6493'

II. Geology:

A. Formation Tops:	Surface	San Jose	Lewis	3495 '
-	Ojo Alamo	2550 '	Mesa Verde	504 0'
	Kirtland	2735 '	Menefee	5225 '
	Fruitland	3145'	Point Lookout	5545 '
	Pic.Cliffs	3 3 55 '	Total Depth	6015 '

B. Logging Program: GR-Ind. and GR-Density at Total Depth.

I-ES and GR-Density at 3695'

C. Coring Program: none

D. Natural Gauges: 5030', 5215', 5535' 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 3695'. 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"	36.0# K-55
		8 3/4"	3 695'	7"	20.0# K-55
		6 1/4"	3545-6015'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - cement guide shoe.

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff & PBR. Geyser shoe and flapper type float collar

- C. Tubing: 6015' 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.

 3545' of 1 1/4", 2.33#, J-55 IJ tubing with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" x 7" casing hanger, 10" 2000 x 6" 2000 dual tubing head.



Y OLD I OLD I

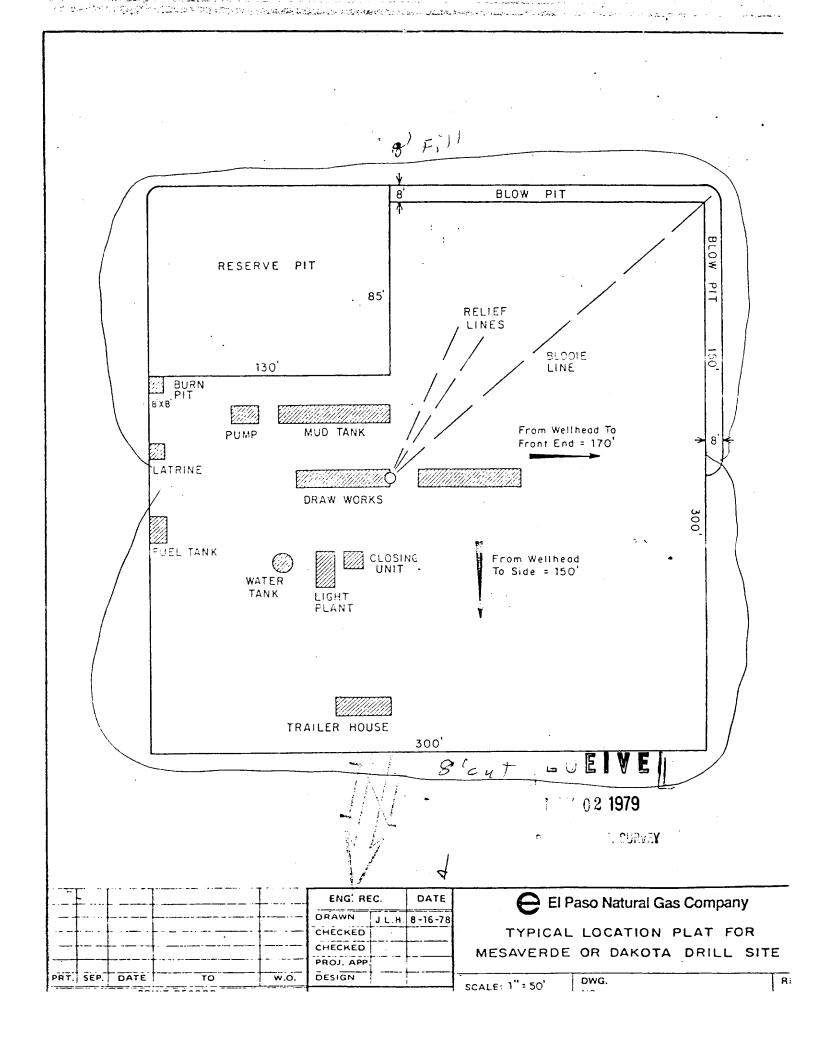
V. Cementing:

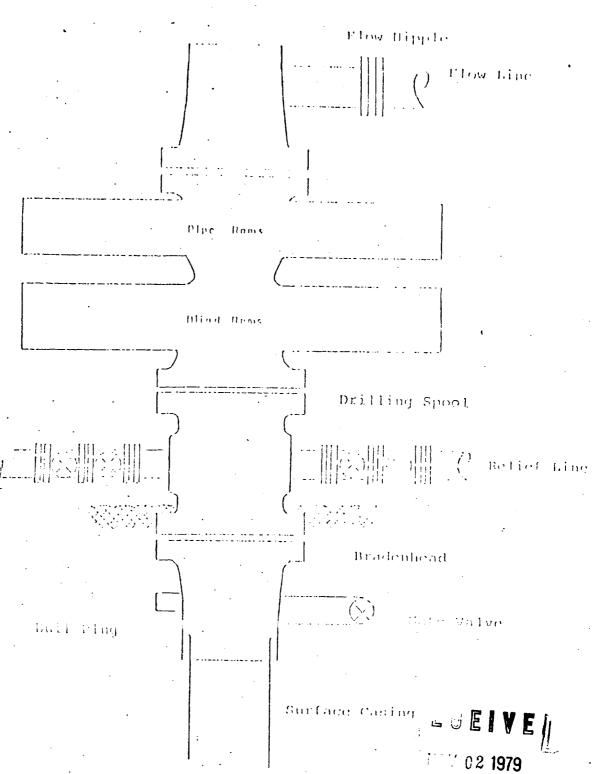
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 86 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 "E" with 2% calcium chloride (258 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.

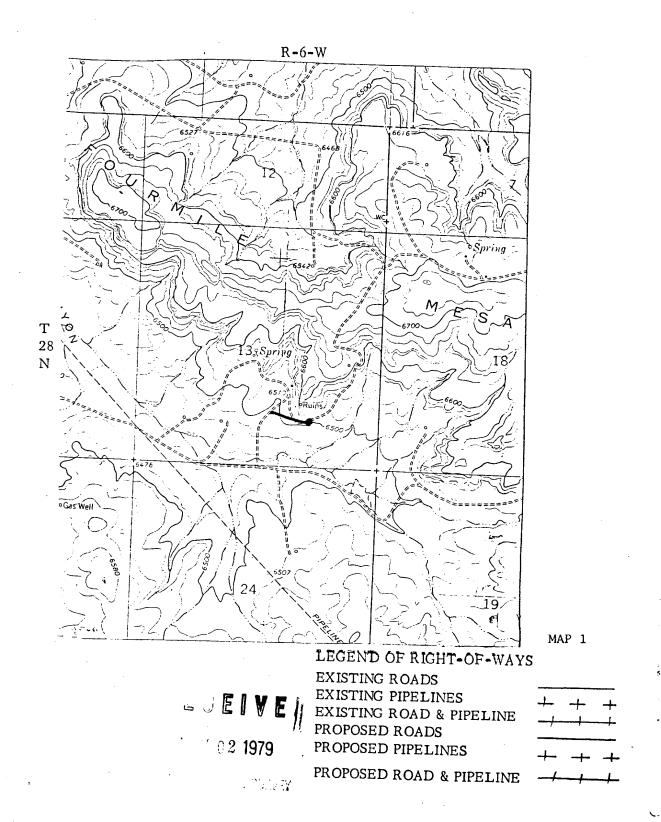
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 310 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (431 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.





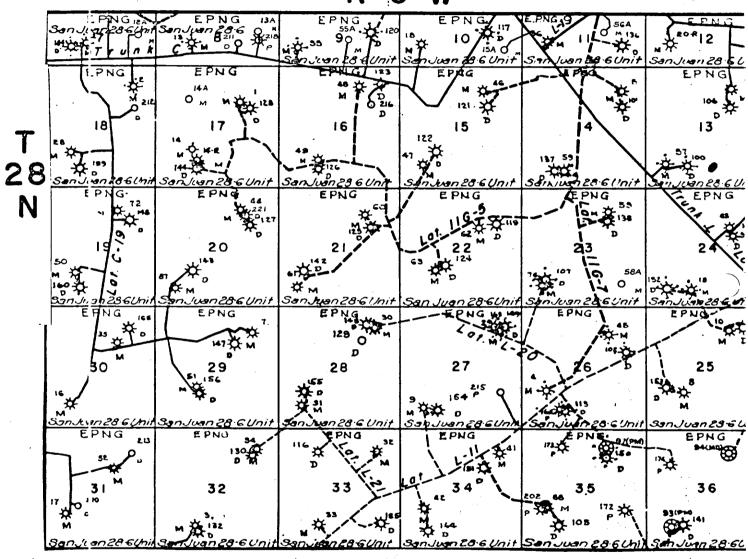


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line



El Paso Natural Gas Company San Juan 28-6 Unit #71A SE 13-28-6

R-6-W



MAP 2

□ □ E | V E | Proposed Location •

02 1979