SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

•	30-039-22268
١	5. LEASE DESIGNATION AND SERIAL NO.
	SF 078425

APPLICATION	V FOR PERMIT T	O DRILL, DEEF	EN, OR PLUG B	BACK_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK	ILL X	DEEPEN	PLUG BAG	CK 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	AS X OTHER		SINGLE MULTIP	LE X	San Juan 29-7 Unit 8. FARM OR LEASE NAME
2. NAME OF OPERATOR	atural Gas Co	ompany			San Juan 29-7 Unit
3. ADDRESS OF OPERATOR	addidi dab oc	Jan			72A (MD)
PO BOX 28 4. LOCATION OF WELL (R At surface	9, Farmington clearly and	in accordance with any	State requirements.*)		10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde Basin Dakota 11. SEC. T. R. M. OR BLE.
At proposed prod. zon	950'S, 152	20 'E			Sec. 26, T-29-N, R-7-W
14. DISTANCE IN MILES	Same AND DIRECTION FROM NEAD	REST TOWN OR POST OFFI	CE*		NMPM 12. COUNTY OR PARISH 13. STATE
5 miles W	est of Navajo	City, NM	NO. OF ACRES IN LEASE		Rio Arriba NM
LOCATION TO NEARES PROPERTY OR LEASE	T Line, FT.	950'	uni+	TOT	E 320.00
(Also to nearest drl 18. DISTANCE FROM PROD	POSED LOCATION*		PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING, COMPLETED,	2500'	7660'	Rota	ry
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	2300 1	7000	11000	22. APPROX. DATE WORK WILL START*
6360 ' GL					
23.	I	PROPOSED CASING AN	ND CEMENTING PROGR.	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
17 1/2"	13 3/8"	48.0#	200'	278	cu.ft.circ. to surface
12 1/4"	9 5/8"	40.0#	3525'	547	cu.ft.to cover Ojo Alamo
8 3/4"	7"	23.0#	3375-5945'		cu.ft. to circ. liner
6 1/4"	4 1/2"	11.6#	¹ 5795-7660'		cu.ft. to circ. liner
Dakota fo A 3000 ps blind and	rmation. i WP and 6000 pipe rams wi) psi test do		evente	sa Verde and er equipped with ntion on this well.
The E/2 o	E PROPOSED PROGRAM . If	is dedicated	d to this wel	present pro	ductive zone and proposed new productive
zone. If proposal is to preventer program, if a		ally, give pertinent data	on subsurface locations a	and measur	ed and true vertical depths. Give blowout
24.	9 Buie				
SIGNED A.	- June	TITLE _	Drilling	Cler	k DATE 12-3-79
	deral or State office use)				
PERMIT NO.			APPROVAL DATE		
APPROVED BY		TITLE			DATE
	ch 3mh				DEC 1 0 1979
1	in F				

*See Instructions On Reverse Side

4. j

3. GEOLOGICAL SURVEY """GO, COLO. -

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

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

Operator			Lease				Well No.	
EL PASO NATURAL	SAN JUA	N 29-7	UNIT	(SF-078425	1			
Unit Letter Section		hip	Range		County			
	6	29N	7W		Ric	Arriba		-
Actual Footage Location of			3 500				_	
	om the South	line and	1520		t from the		line	
6360	Producing Formation Mesa Verde	- Dakota	ì	anco Me		rde	Dedicated Acreage	
			·	Basin I			320.0 & 320	J.O Acres
 Outline the acres If more than one interest and roya If more than one dated by community Yes No. If answer is "no, this form if neces No allowable will forced-pooling, or sion. 	e lease is dedictly). lease of differentization, unitization of answer '' list the owners sary.)	t ownership is tion, force-poolisis "yes;" type of and tract describe well until all	dedicated to ng. etc? of consolidation which interests ha	the well, on Uni th have a	have the	e ownership the interests of ion	hercof (both as a land) all owners bee ated. (Use rever	n consoli-
310II.						$\overline{\mathbf{z}}$		
	Se c •	#7.	○-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------<li< td=""><td>SF-078¹ NM-019⁴</td><td>××</td><td>norme Dr</td><td>certify that the information is true and composition of the second secon</td><td>erk Gas Co</td></li<>	SF-078 ¹ NM-019 ⁴	××	norme Dr	certify that the information is true and composition of the second secon	erk Gas Co
	OIL COL	26	SF-07842	25 1520 ¹		shown on notes of under my is true o		ed from field de by me or nat the same best of my
					300	Certification 1950	E Kent Jrs	



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

Multi-Point Surface Use Plan

San Juan 29-7 Unit #72A

- 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 29-7 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 sagebrush flats with sagebrush growing. Cattle and 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.

L. A. Aimes

Project Drilling Engineer

Operations Plan San Juan 29-7 Unit #72A

I. Location: 950'S, 1520'E, Section 26, T-29-N, R-7-W, Rio Arriba County, NM

Field: Blanco Mesa Verde & Basin Dakota <u>Elevation:</u> 6360'GL

II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Menefee	4968'
			Ojo Alamo	2365'	Point Lookout	5345
			Kirtland	2430'	Gallup	6495'
			Fruitland	3000 '	Greenhorn	7310'
			Pic.Cliffs	3210'	Graneros	7360'
			Lewis	3325'	Dakota	7520 '
			Mesa Verde	e 4890'	Total Depth	7660'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4880', 5335', 6485', 7300', 7350', 7510' 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 3525'. Gas from intermediate casing to Total Depth.

IV. Materials:

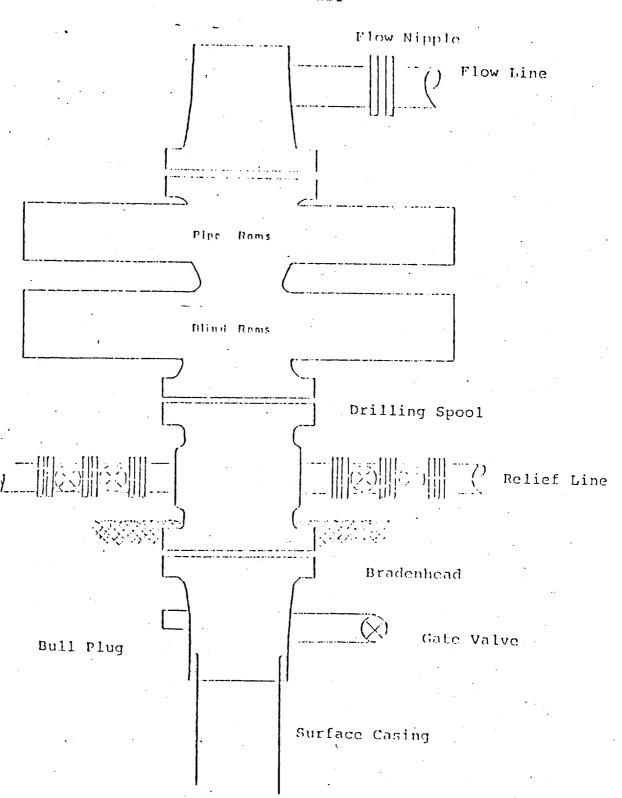
A. Casing Program:	Hole Size	<u>Depth</u>	Csg.Size	Wt.&Grade
		200' 3525' 3375-5945' 5795-7660'	13 3/8" 9 5/8" 7" 4 1/2"	48.0# H-40 40.0# N-80 23.0# N-80 11.6# K-55

- B. Float Equipment: 13 3/8" surface casing guide shoe.
 - 9 5/8" intermediate casing guide shoe and differential automatic fill up float collar. Five stabilizers, one each on every other joint above shoe. Run float collar two joints above shoe.
 - 7" liner 7" liner hanger with neoprene packoff. Geyser shoe and flapper type float collar. Four centralizers, one each on every other joint above shoe.
 - 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Geyser shoe and flapper type float collar.

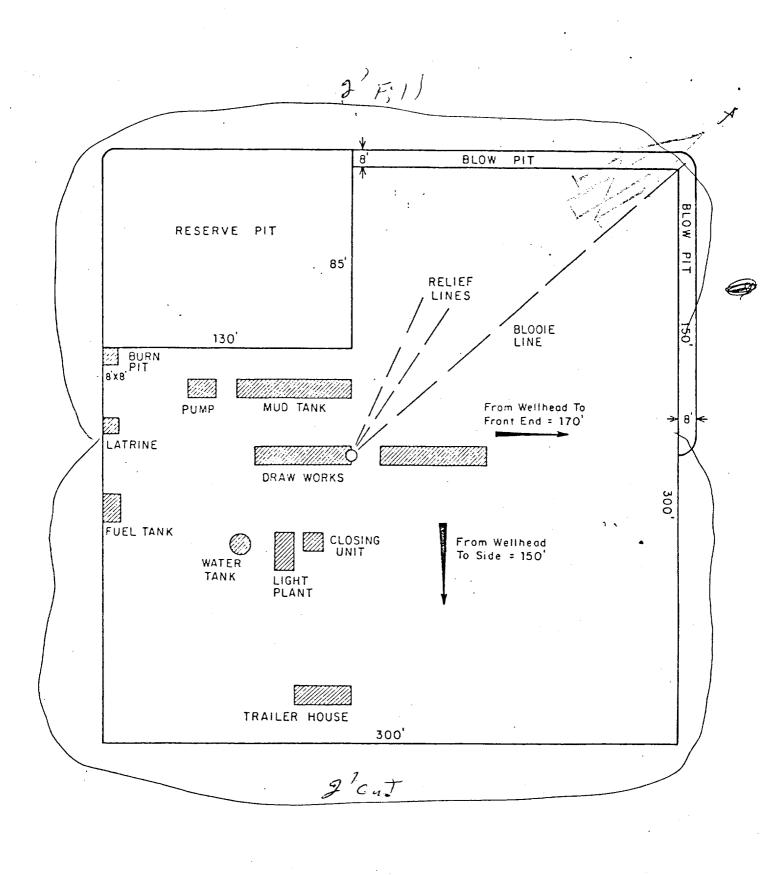
- C. Tubing: 7660' of 2 3/8", 4.7#, J-55 EUE 8rd tubing open ended on bottom with common pump seating nipple and pump out plug one joint above bottom.
 - 5945' of 1 1/2", 2.9#, J-55 EUE 10rd tubing with a perf sub and common pump seating nipple one joint above bottom. Bottom joint to be bull plugged.
- D. Wellhead Equipment: 12" 3000 x 13 3/8" casing head. 12" 3000 x 10" 3000 dual xmas tree.

V. Cementing:

- 13 3/8" surface casing use 236 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (278 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.
- 9 5/8" intermediate casing use 265 sks. 65/35 Class "B" Poz with 6% gel, 2% calcium chloride and 8.3 gallons water per sack followed by 100 sks. Class "B" neat with 2% calcium chloride (547 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.
- 7" liner precede cement with 30 bbls. gel water (3 sks. gel). Cement with 475 sks. 50/50 Class "B" Poz with 2% gel, 6.15# gilsonite, 1/4# flocele and 0.6% Halad-9 (or equivalent fluid loss additive) (660 cu.ft. of slurry, 70% excess to circulate liner). WOC 12 hours. Test casing to 1200#/30 minutes.
- 4 1/2" liner precede cement with 40 bbls. gel water (4 sks. gel). Cement with 95 sks. Class "B" cement with 8% gel, 1/4 cu.ft. fine gilsonite per sack and 0.4% HR-7 followed by 100 sks. Class "B" cement with 1/4# fine tuf-plug per sack and 0.4% HR-7 (325 cu.ft. of slurry, 70% excess to fill to circulate liner). WOC 18 hours.

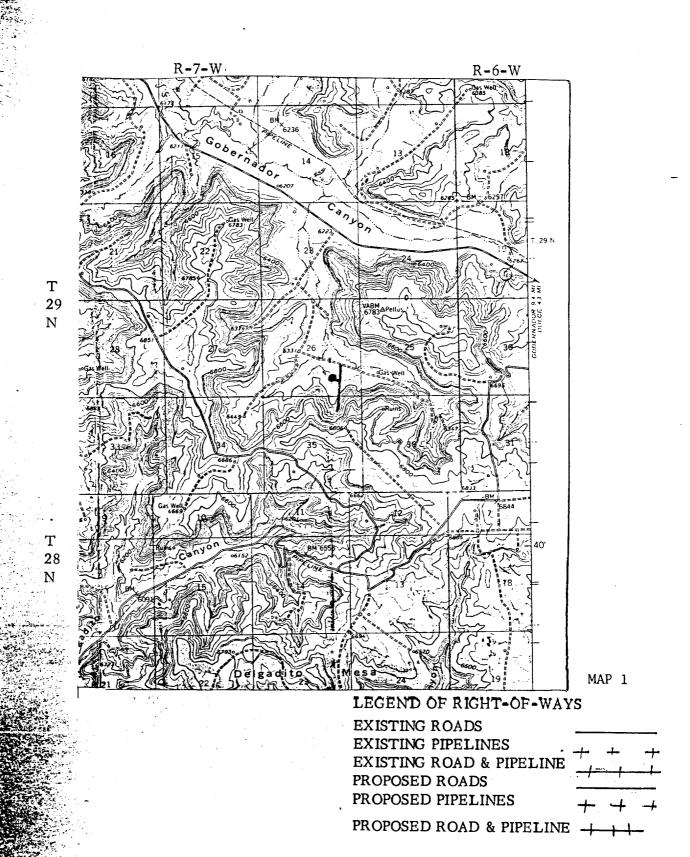


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



and the second s

	<u> </u>			-			
				 	ENG. REC.	DATE	El Paso Natural Gas Company
-				 	DRAWN JL.H.	8-16-78	
			· · · · · · · · · · · · · · · · · · ·	ļ ·	CHECKED		TYPICAL LOCATION PLAT FOR
					CHECKED .		MESAVERDE OR DAKOTA DRILL SITE
l1					PROJ. APP	1	
PRT.	SEP.	DATE	то	w.o.	DESIGN		DWG. BE
1		0011	IT DECOND		_		SCALE: 1"=50' DWG.



El Paso Natural Gas Company San Juan 29-7 Unit #72A SE 26-29-7 EPN 6 2 8ZA 47A luan 29.7Uni EPNG EPNG 10 48A 11 EPNG 20 So Union O 142029.70 E PNG PNG 30L0 29 28 27 JUAN297Unit San Juan 29 7 Unit an 29 7Uni luan 29-7Unit EPNG EPNG PNG 33 34 35