SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

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GEOLOGICAL SURVEY					Ind-262	ってフ	72		
APPLICATION	FOR PERMIT	TO DRILL, I	DEEPE	N, OR PLUG B	ACK	G. IF INDIAN, AL.	LOTTEE OF TRI	BE NAME	
1a. TYPE OF WORK	LL &	DEEPEN		PLUG BAC	:к 🗆	_Ute_Mou Barker _Storage Barker	reek D Proiec	:t	
	ELL OTHER	Gas Stor	rage	NE LX ZONE		Storage 9. WELL NO.			15
El Paso Na	atural Gas C	ompany				9. WELL NO. WI #27			
3. ADDRESS OF OPERATOR							OOL, OR WILD	CAT	
PO Box 990, Farmington, NM 87401 4. Location of well (Report location clearly and in accordance with any State requirements.*) At surface 989'N, 1491'E At proposed prod. zone						Barker 11. SEC., T., R., S. AND SURVEY Sec. 10, NMPM 12. COUNTY OR 1	OR AREA $\Gamma - 32 - N$	R-14-W	V
14. DISTANCE IN MILES	AND DIRECTION FROM NE.	AREST TOWN OR POS	T OFFICI	•					
15. DISTANCE FROM PROPI LOCATION TO NEARES: PROPERTY OR LEASE I (Also to degrees dri)	r .ine, ft.		16. TotaTreproject 17. NO acres-14,728 N/A			San Juan NM OF ACRES ASSIGNED THIS WELL			
18. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION* RILLING, COMPLETED,		19. PR	орозер рертн 3170 ']	20. ROTARY OR CABLE TOOLS			
OR APPLIED FOR, ON TH			<u> </u>	3170	Rotar	22. APPROX. DA	TE WORK WIL	L START*	
7013'GL						July 15	, 1977		
23.		PROPOSED CASI	NG ANI	CEMENTING PROGRA	M				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DEPTH		QUANTITY OF	CEMENT		
12_1/4"	9 5/8"	32.3# H·		1225'	767_cu.ft.to_c				
8_3/4"	7"	_ <u>20.0#_K</u>			cu.ft.to fill 400' above ng shoe		<i>,</i> e		
Dakota for 7" casing This well Dome Gas	rmation. Th seat to the	e well wi total de d for nat ect. The	ll both oural	ole from 7" of e completed of 3170'. gas storage rage gas will	open h in th	ole from ne Barker	the	Too Too	
sone. If proposal is to preventer program, if an 24.	drill or deepen directio	nally, give pertiner	pen or put data of	plug back, give data on pon subsurface locations at	nd measure	d and true vertice	June]		7 7
PERMIT NO.				APPROVAL DATE					
APPROVED BYCONDITIONS OF APPRO		T !	ITI.E		· · · · · · · · · · · · · · · · · · ·	DATE			

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

2772

		Ali distances must be	from the outer boundaries o				
Operator EL PAS	SO NATURAL GA	S COMPANY BA	Lease UTE MIN. TR RKER CREEK DOME	IBAL I-22-IND -26 GAS STORAGE PROJ	ECT Well No. WI-27		
Unit Letter	Section	Township	Hange	County SAN JU	A TJ		
.0	10	32-N	T4=M	DAN 00.	nu -		
Actual Footage Loc		NORTH line and	1491	EAST	line		
Ground Level Elev.	Producing For		Pool	et from the BADI	Dedicated Acreage:		
7013	· ·	AKOTA	N/A		N/A Acres		
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?							
Yes	No If a	nswer is "yes," type	of consolidation				
this form i	f necessary.)				ated. (Use reverse side of		
No allowal	ble will be assign	ed to the well until a for until a non-standa	ll interests have been rd unit, eliminating su	consolidated (by con ich interests, has beer	nmunitization, unitization, approved by the Commis-		
					CERTIFICATION		
· · · · · · · · · · · · · · · · · · ·				1 hereby	certify that the information con-		
			÷		erein is true and complete to the		
NOTE:	THIS PLAT IS	REISSUED TO SHO	W CORRECTED PLAT	. 5-10-77 best of r	ny knowledge and belief.		
				· ·	RIGINAL SIG LD BY		
				Name	ARRY A. AIMES		
				Sr.	Drilling Engineer		
			and the same of the same	Position			
		·	A STATE OF THE STA	<u> </u>	Paso Natural Gas		
				Company	0 10 1077		
				Date	e 10, 1977		
,				Date			
				J. hereb	r certify that the well location		
	•		THE REAL PROPERTY.		n this plat was plotted from field		
				4	factual surveys made by me or		
		COLORADO			y supervision, and that the same		
					and correct to the best of my		
	1	NEW MEXICO	1	knowled	ge and belief.		
	+						
]	i		8 1				
	İ		0	Date Surve			
11	1	SECTION 10	<u></u>		PRIL 23, 1977		
	i		1 . 145		i Professional Engineer		
	i		1	anaver La	nd Surveyor		
	ł		1				
				Certificate	No. 1760		
ROPE DE TOR	, ,	20 2210 2010	1500 1000	500 0			
1 0 320 660	60 1320 1650 19	an 2310 2640 20	,55 1500 1000	v i			



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

Multi-Point Surface Use Plan Barker Creek Dome Gas Storage Project WI #27

- 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 Maps No. 1 and 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 El Paso Natural Gas Company's San Juan River Plant.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

Multi-Point Surface Use Plan

- Methods of Handling Waste Materials All garbage and trash 7. materials will be put into a burn pit shown on the attached Location Plat No. 1. 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 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 #1 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 Forest Green.
- 11. Other Information The immediate terrain is flat with cedar, pinon trees and grass growing. Cattle, deer and rabbits inhabit the area.

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 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.

June 10, 1977

L. A. Aimes

Sr. Drilling Engineer

LAA:pb

Operations Plan Barker Creek Dome Gas Storage Project WI #27

I. Location: 989'N, 1491'E, Section 10, T-32-N, R-14-W, San Juan County, NM

Field: Barker Creek Dakota <u>Elevation:</u> 7013'GL

II. Geology:

Α.	Formation	Tops:	Mesa Verde	Surface	Greenhorn	2940'
		•	Menefee	175'	Graneros	3000'
			Point Lookout	825'	Dakota	3070'
			Mancos	1185'	Total Depth	3170'

B. Logging Program: GR-I, FDC, SNP at 7" casing point.

GR-I, FDC, SNP, GR-N at TD.

C. Coring Program: none

D. Natural Gauges: gauge well every connection past 3030' and at TD. Record all gauges in daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud on surface hole. Air from surface casing depth to Total Depth.

IV. Materials:

A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4" 8 3/4" 6 1/4"	1225' 3072' 3072-3170'	9 5/8" 7"	32.3# H-40 20.0# K-55

B. Float Equipment: 9 5/8" surface casing - notched collar for guide shoe.

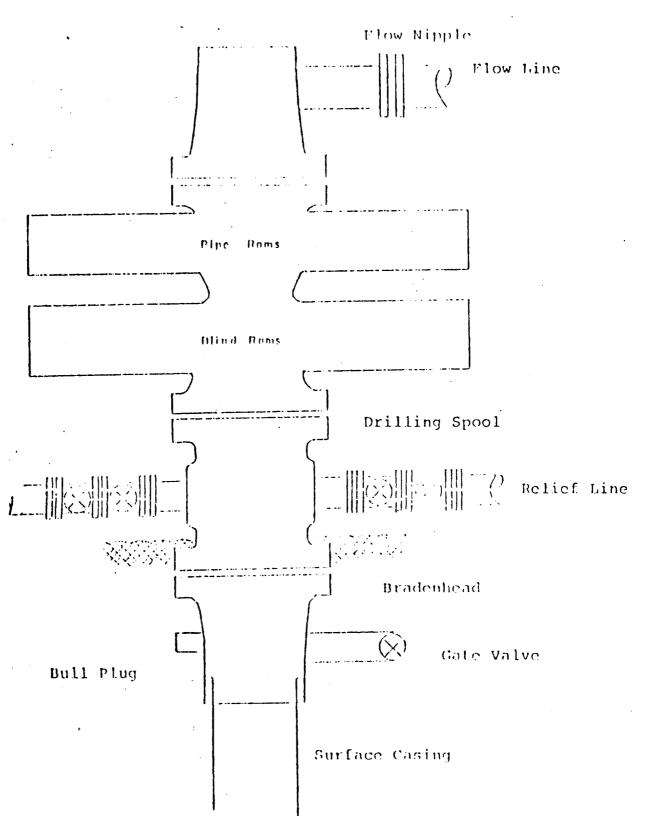
7" intermediate casing - cement guide shoe and self-fill insert float valve. Run float two joints above shoe.

- C. Tubing: 3155' of 2 3/8", 4.7#, J-55 8rd EUE tubing.
- D. Wellhead Equipment: 10" 2000 psi x 9 5/8" Type R Brewster casing head. 10" 2000 psi x 6" 2000 psi Type 2-082-77 Brewster xmas tree assembly.

V. Cementing:

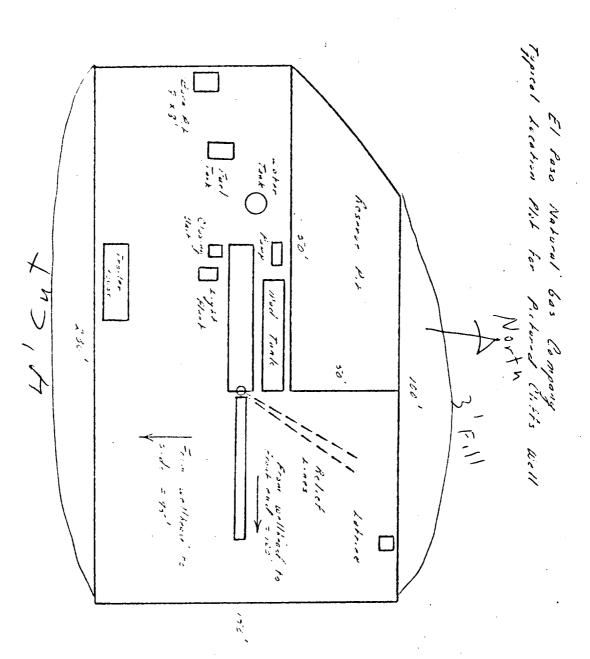
9 5/8" surface casing - use 650 sks. of Class "B" cement with 3% calcium chloride (767 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

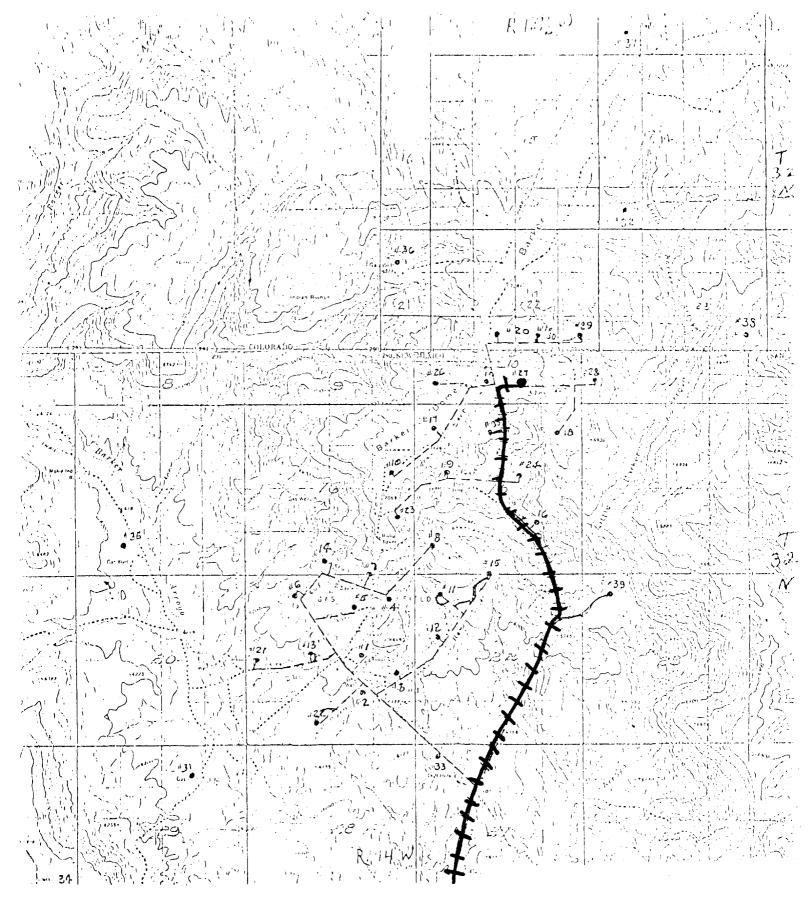
7" intermediate casing - use 76 sks. of Class "B" cement with 2% calcium chloride (90 cu.ft. of slurry, 50% excess to fill 400' above the casing shoe). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.



Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

When airdrilling 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

Well Name: WI #27

Location: 989'N, 1491'E, Section 10

T-32-N,R-14-W, San Juan County, NM Proposed pipeline & road

Map #1