SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	UNIT DEPARTMENT	ED STATES		reverse sic	ie)	30-0	4<	3 - 3.55	<u> </u>
	ſ	5. 744 95 5 5 16:							
	GEOLO		Ind -26		72	, 			
APPLICATION	I FOR PERMIT 1	O DRILL, I	DEEPE	N, OR PLUG B	ACK .	6. IF INDIAN, AI		HE NAME	
DRILL DEEPEN DEEPEN PLUG BACK							intain Treek		_ Gas
b. TYPE OF WELL OIL GAS WELL OTHER GAS STOTAGENE X ZONE WELL OTHER GAS STOTAGENE X ZONE						Storage 8.Bärker	e Proj∈ "Cřéšk	oct Dome	_ Gas
NAME OF OPERATOR		-	Storage						
El Paso N	atural Gas Co	ompany				WI #26	∠		
PO BOX 99 1. LOCATION OF WELL (R At surface		Barker 11. sec., t., s., AND SURVEY	Creek M., or blk.	Dako	_				
At proposed prod. zon		Sec.10	, T-32-N	, K-1	- 1 44				
14. DISTANCE IN MILES .	AND DIRECTION FROM NEAR	REST TOWN OR POS	T OFFICE	:•		12. COUNTY OR		STATE	
15. DISTANCE FROM PROPO			16. NA	otar project		San Jua		I <u>M</u>	_
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)				res-14,728	N/A	IS WELL			
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,			19. PROPOSED DEPTH 20. ROT			TARY OR CABLE TOOLS			
OR APPLIED FOR, ON THIS LEASE, FT. 21. ELEVATIONS (Show whether DF, RT, GR, etc.)			3278' Rot		Rotar	Y 22. APPROX. D	ATE WORK WI	LL START	<u>.</u> -
7098 GL	etner Dr. RI, GR., etc.)					July 1			
23.	I	PROPOSED CASI	NG AND	CEMENTING PROGRA	М				_
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEMENT			
12 1/4"	9 5/8"	32.3# H	-40	1333'		cu.ft.to circulate			_
8 3/4"	8 3/4" 7" 20.0# K		=55_	3180'		90 cu.ft.to fill 400' abo casing shoe			bove
Dakota fo 7" casing	ended to dri rmation. The seat to the will be use	e well wi total de	.11 b pth	e completed of 3278'.	open h	nole from	n the		
Dome Gas	Storage Projest of Cal	ect. The	sto	rage gas wil	l be d	dedicate	10N 2 1977 C	# B 1/2	
zone. If proposal is to preventer program, if an	e proposed program: If drill or deepen directions y.	proposal is to dee ally, give pertinen	pen or p	olug back, give data on pr on subsurface locations an	esent produ d measured	active zone and and true virtic	proposed new al deorns. G	pr ducti e blowo	ve ut
24. SIGNED PLAG	La Beach	eld_ ti	TLE	Drilling	Cler	C DATE	June	10,	1977
(This space for Fede	ral or State office use)								
PERMIT NO.				APPROVAL DATE					_
APPROVED BY	AL, IF ANY:	ті	TLE			DATE			

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section Weli No. Lease UTE MIN. TRIBAL I-22-INI Operator WI-26 EL PASO NATURAL GAS COMPANY BARKER CREEK DOME GAS STORAGE PROJECT County Section Township Unit Letter SAN JUAN 32-N 14-W 10 M Actual Footage Location of Well: WEST 1269 646 SOUTH feet from the line and feet from the Dedicated Acreage: Ground Level Elev. Producing Formation N/A N/A DAKOTA 7098 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? If answer is "yes," type of consolidation ___ ∏ No Yes 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 consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. THIS PLAT IS REISSUED TO SHOW CORRECTED PLAT. 5-10-77 NOTE: ORIGINAL SIGNED BY NameARRY A. AIMES Sr.Drilling Engineer Position El Paso Natural Gas June 10, 1977 Date I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same COLORADO is true and correct to the best of my NEW MEXICO knowledge and belief. Date Surveyed SECTION 10 APRIL 23, 1977 1269' Registered Professional Engineer and/or Land Eurveyor 1760



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan
Barker Creek Dome Gas Storage Project
WI #26

- 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

Page Two

- 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 area is slightly sloping tailus with cedar and pinon trees. Cattle and deer graze 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 #26

I. Location: 646'S, 1269'W, Section 10, T-32-N, R-14-W, San Juan County, NM

Field: Barker Creek Dakota <u>Elevation:</u> 7098'GL

II. Geology:

- A. Formation Tops: Mesa Verde surface 3048' Greenhorn 283' 3108' Menefee Graneros 933' Point Lookout Dakota 3178' Mancos 1293' Total Depth 3278'
- 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 3138' 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:

Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		12 1/4" 8 3/4"	1333' 3180'	9 5/8" 7"	32.3# H-40 20.0# K-55
		6 1/4"	3180-3278'	,	20.011 10 33

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

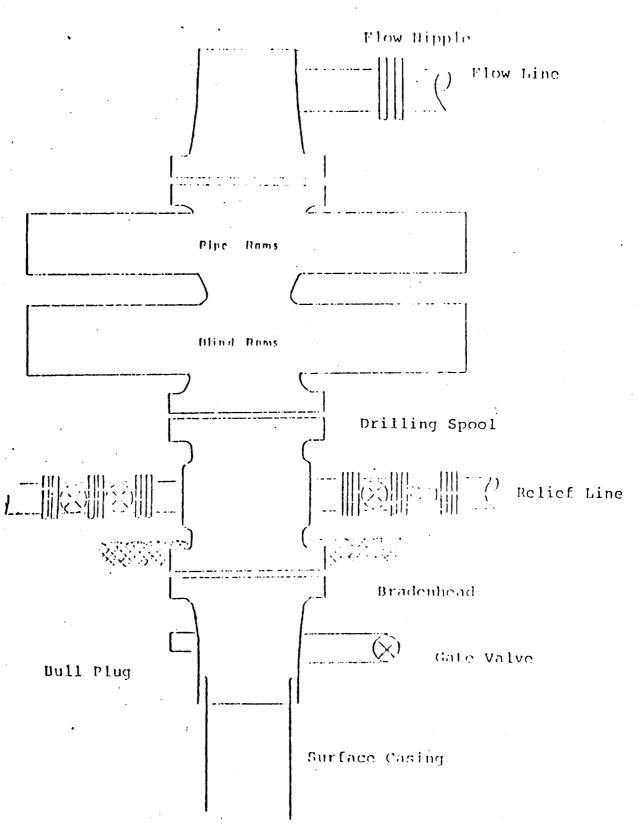
7" intermediate casing - cement guide shoe and self-fill insert float valve. Run float two joints above shoe.

- C. Tubing: 3263' 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:

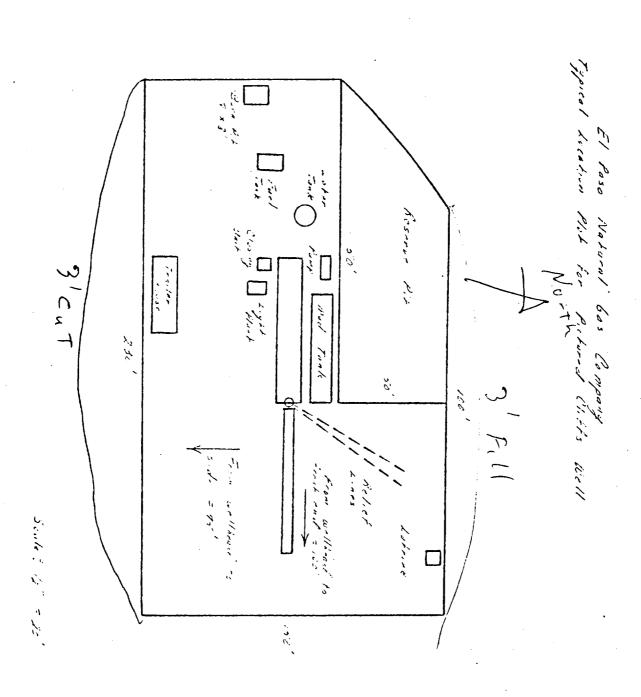
9 5/8" surface casing - use 708 sks. of Class "B" cement with 3% calcium chloride (835 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

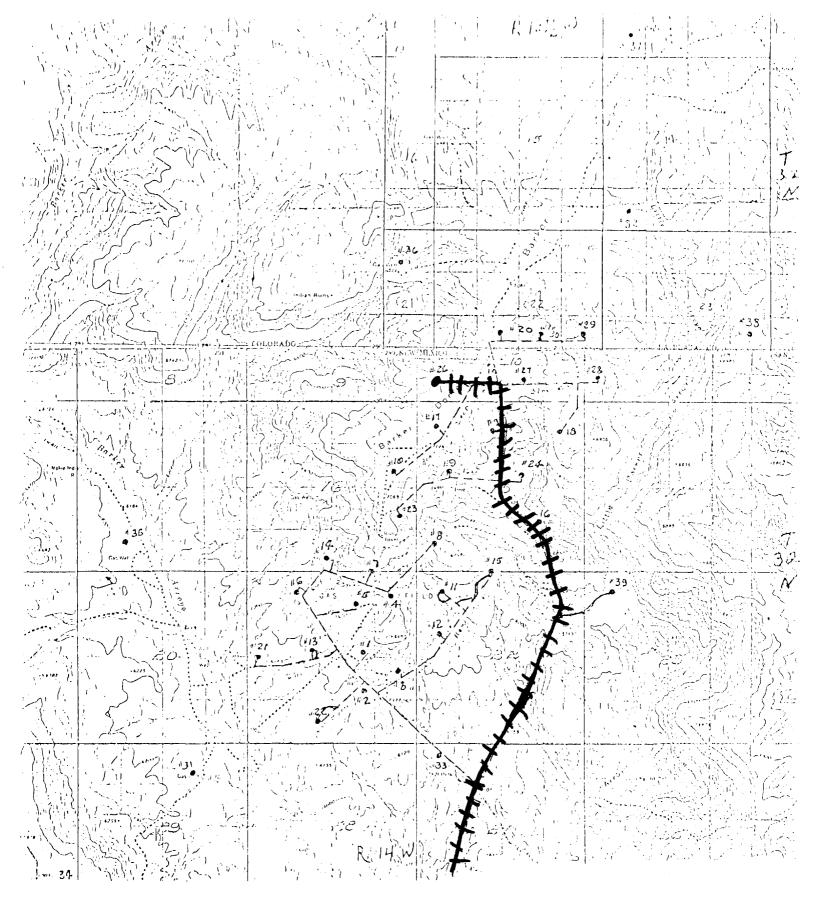
7" intermediate casing - use 76 sks. of Class "B" cement with 2% calcium chloride (90 cu.ft. of slurry, 50% excess to fill 400' above the casing shoe). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.



Scries 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.

2 th





El Paso Natural Gas Company

Well Name: WI #26.
Location: 646'S, 1269'W, Section 10
T-32-N,R-14-W, San Juan County, NM

Map #1

Proposed pipeline & road ++++