APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE*

DATE ___

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

(May Dan)	UNIT DEPARTMENT	ED STATES OF THE I	; NTER	reverse si	ide)	30 - 045 - 22606 Tribball Y-22 and Serial No.	
	GEOLO		Ind-2622 2772				
A DDI ICATION	LEOR PERMIT T	O DRILL	DEEPE	N. OR PLUG B	BACK	G. IF INDIAN, ALLOTTER OR TRIBE NAME	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK DRILL L DEEPEN PLUG BACK						Ute Mountain TUNIT AGREEMENT NAME Dome Gas	
b. TYPE OF WELL		LE [Storage Project				
**************************************	S OTHER		Barker Creek Dome Gas				
2. NAME OF OPERATOR					i	Storage Project	
EL Paso Na 3. Address of Operator	tural Gas Co		O #35 L				
PO BOX 990	, Farmington	, NM 874	101_			10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Re At surface			th any S	tate requirements.		Barker Creek Dakota	
	976'S, 149	0'W _				Sec. 17, T-32-N, R-1 4-W	
At proposed prod. zon	e	_				NMPM	
14. DISTANCE IN MILES	ND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	•		12. COUNTY OR PARISH 13. STATE	
			1 10 V	OR ACRES IN I LASE	1 17 NO (San Juan NM	
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST				eal^project	TO T	TO THIS WELL	
PROPERTY OR LEASE LINE, FT. (Also to dearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION®				es-14,728	N/A 20. BOTA	ROTARY OR CABLE TOOLS	
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,			2516'	Rotar	otary	
21. ELEVATIONS (Show who			<u> </u>			22. APPROX. DATE WORK WILL START*	
6179'GL			July 15, 1977				
23.		PROPOSED CASI	NG ANI	CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	тоот	SETTING DEPTH	_	QUANTITY OF CEMENT	
8 3/4"	7"	20.0# K-55		571'		72 cu.ft.to circulate —	
6 1/4"	4 1/2"	10.5# K-	55	2516'		1.ft.to fill 400' above	
					the s	snoe.	
the storag	ge interval ovill not be will casing will	of the Bar used to in	rker njec	Creek Dome t and/or wit	hdraw		
IN ABOVE SPACE DESCRIB zone. If proposal is to preventer program if a	E PROPOSED PROGRAM: If drill or deepen direction	proposal is to de nally, give pertine	epen or nt data	plug back, give data on on subsurface locations	present pro	adactive zode and proposed new productive and true vertical depths. Give blowout	
81GNED	y Siaa	field .	TITLE	Drilling	Clerk	PATE June 10, 1977	
(This space for Fed	eral or State office use)						
PERMIT NO.				APPROVAL DATE			

UNITED STATES

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 Well No. Lease UTE MIN. TRIBAL I-22-IND-Operator EL PASO NATURAL GAS COMPANY BARKER CREEK DOME GAS STORAGE PROJECT County Unit Letter Section Township 14-W SAN JUAN 32-N 17 Actual Footage Location of Well: WEST 1490 SOUTH 976 line and feet from the feet from the Dedicated Acreage: | Producing Formation Pool Ground Level Elev. N/A DAKOTA 6179 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 _ 7 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 contoined herein is true and complete to the best of my knowledge and belief. ORIGINAL LIGHED BY L Name LARRY A. Sr.Drilling Engineer El Paso Natural Gas Co. Company June 10, 1977 SECTION 17 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 is true and correct to the best of my knowledge and belief. 1490 Date Surveyed APRIL 18, 1977 Registered Professional England and/or Larid Surveyor Certificate No.

2000

1320 1650



P. O. BOX 990 EARMINGTON, NEW MEXICO. 87401

PHONE: 505 325-2841

Multi-Point Surface Use Plan Barker Creek Dome Gas Storage Project O #35

- 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 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.

- 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 #2 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 railed sage flat area with no vegetation. Cattle 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 O #35

I. Location: 976'S, 1490'W, Section 17, T-32-N, R-14-W, San Juan County, NM

Field: Barker Creek Dakota <u>Elevation:</u> 6179'GL

II. Geology:

A. Formation Tops: Mesa Verde ---- Greenhorn 2286'
Menefee surface Graneros 2346'
Point Lookout 171' Dakota 2416'
Mancos 531' Total Depth 2516'

B. Logging Program: ES-I, FDC, GNL, BHC Sonic at TD. GR-N after running

casing.

C. Coring Program: none

III. Drilling:

A. Mud Program: mud from surface to Total Depth.

IV. Materials:

A. Casing	Program:	<u>Hole Size</u>	Depth	Csg.Size	Wt.&Grade	
		8 3/4" 6 1/4"	571' 2516'	7" 4 1/2"	20.0# K-55 10.5# K-55	

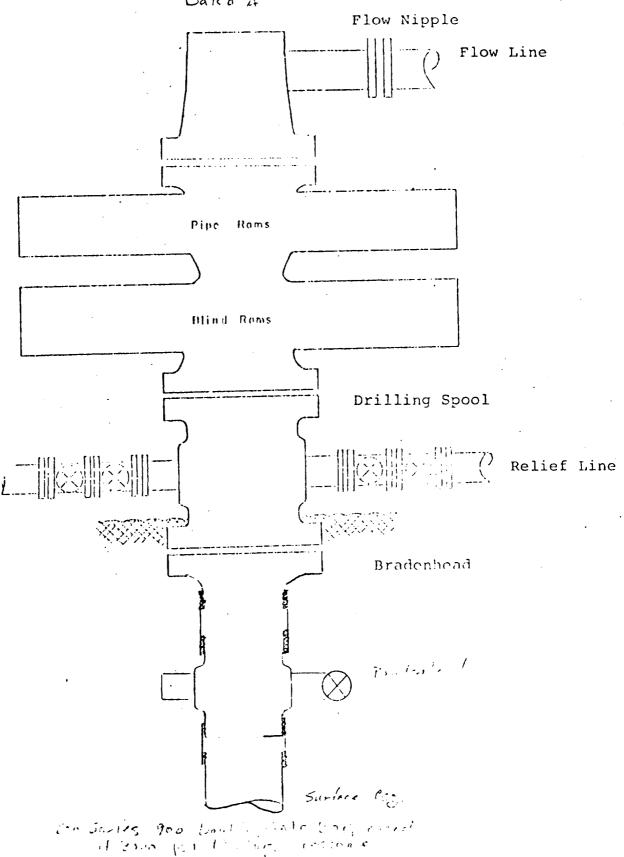
- B. Float Equipment: 7" surface casing notched collar for guide shoe.
 - 4 1/2" casing cement guide shoe and self-fill insert float valve. Run float two joints above shoe.
- C. Tubing: none
- D. Wellhead Equipment: 6" NOM x 7" OD non-flanged, 8rd, 1500 psi WOG wellhead with 4 1/2" casing hanger.

V. Cementing:

7" surface casing - use 146 sks. of Class "B" cement with 3% calcium chloride (172 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

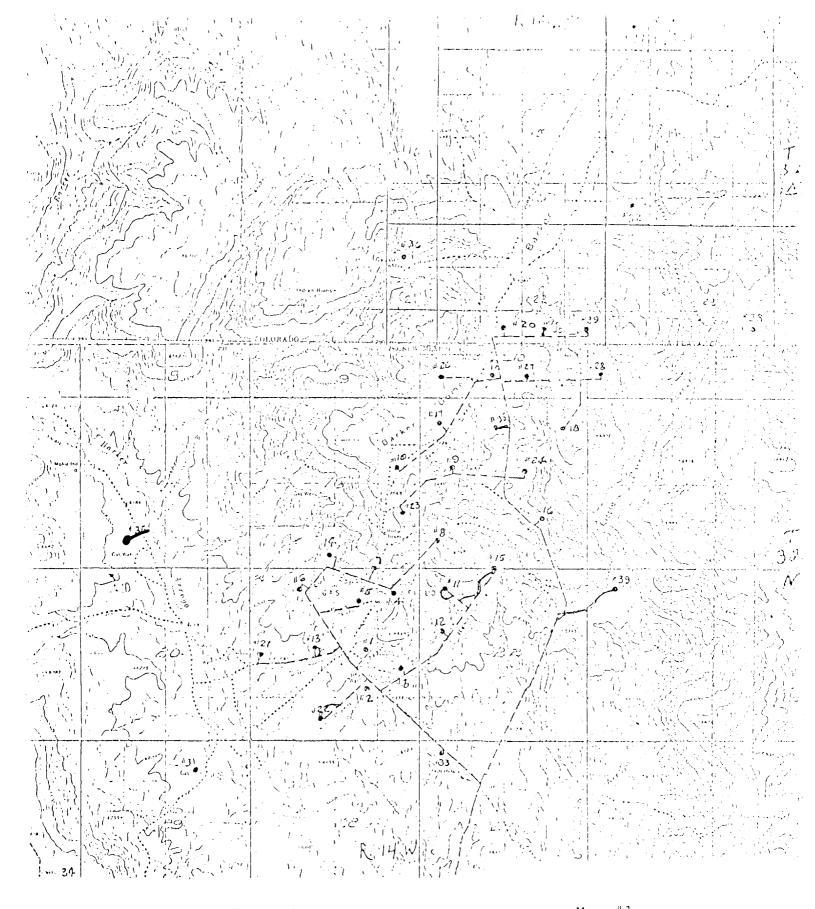
4 1/2" casing - use 53 sks. of Class "B" cement with 2% calcium chloride (62 cu.ft. of slurry, 50% excess to fill 400' above the casing shoe). Run temperature survey at 8 hours. WOC 18 hours.

Typical Mud Drilled B.O.P. Installation for Pictured Cliffs Well Dake 24



1001 El Paso Natural 603 Company 20. Tank 23 102.100 Acsons P.A Typical Location Plat for ,000

Sente 1 2 " Till



El Paso Natural Gas Company Well Name: 0 #35
Location: 976'S, 1490'W, Sec

Location: 976'S, 1490'W, Section 17 T-32-N, R-14-W, San Juan County, NM Map #1

Proposed Road
No pipeline to well

