SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES. DEPARTMENT OF THE INTERIOR

	UNI	30-045-22602						
	DEPARTMENT	5T1-145 HERIGHTION 2ND BERIAL NO.						
	GEOLO	Ind-2622 2772						
APPLICATION	Y FOR PERMIT	G. IF INDIAN, ALLOTTEE OR TRIBE NAME						
DRILL DEEPEN			☐ PLUG BACK ☐			Ute Mountain TRUNIT AGREEMENT NAME DOME Gas		
D. TYPE OF WELL OIL G WELL W 2. NAME OF OPERATOR	AS OTHER	Gas Stor	cages	INGLE MULTIP	ræ 🗌	Storage Project Barker Creek Dome Gas		
	stumal Cas Ca	Storage Project 9. WELL NO.						
3. ADDRESS OF OPERATOR	atural Gas Co	 WT #15 -						
PO Box 990), Farmington	10. FIELD AND POOL, OR WILDCAT						
4. LOCATION OF WELL (R At surface	eport location clearly and 68 S, 2273	Barker Creek Dakota 11. sec., r., e., m., ob blk. AND SURVEY OR AREA						
At proposed prod. zon	•	Sec.15,T-32-N,R-14-W						
A DIOM NOR IN ACTION	AND DIRECTION FROM NEAR	NMPM 12. COUNTY OR PARISH 13. STATE						
14. Digitable in Riles	AND DIRECTION FROM NEAD							
15. DISTANCE FROM PROPO		btar profect	17. No. c	San Juan NM				
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)			1		N/A	THIS WELL		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,						ARY OR CABLE TOOLS		
OR APPLIED FOR, ON THIS LEASE, FT.			2445' Rota:		Rotar			
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*		
6253'GL				CEMENTING PROGRA	_	July 15, 1977		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT		SETTING DEPTH		QUANTITY OF CEMENT		
12 1/4"	9-5/8"	32.3# H-40		500'	1	3 cu.ft.to circulate		
8-3/4"	7"	20.0# K-5		2347'	ł	0 cu.ft.to fill 400' above		
					casin	g shoe		
Dakota for 7" casing This well	mation. The seat to the will be used	well wil total dep for natu	l be th d iral	e completed of 2445'. gas storage	pen h in th	e Barker Creek		
	Storage Proje east of Cali		sto	rage gas will	. be d	edicated to		
	drill o <mark>r deepen directi</mark> ona					uctive sone and proposed new productive land true vertical depths. Give blowout		
SIGNED SLAGE	Beallie	es tit	LE	Drilling	Clerk	June 10, 1977		
(This space for Fede	ral or State office use)			7	<u> </u>			
PERMIT NO.				APPROVAL DATE				
APPROVED BY		TIT	LE	 		DATE		
CONDITIONS OF APPROV.	30, IF AB1 ;			•		•		

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. Operator Lease UTE IND. TRIBAL I-22-IND-2622 EL PASO NATURAL GAS COMPANY WI-15 BARKER CREEK DOME GAS STORAGE PROJECT Section Unit Letter Township County SAN JUAN 32-N 15 Actual Footage Location of Well: 68 SOUTH 2273 WEST feet from the line and feet from the Ground Level Elev. Producing Formation Dedicated Acreage: N/A 6253 DAKOTA N/A 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 _ ΠoN 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. ORIGINAL SIGNED BY Sr.Drilling Engineer Position El Paso Natural Gas June 10, 1977 SECTION 15 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. Date Surveyed APRIL 16, 1977 Registered Professional Engineer and/or Land Surveyor 2273 Certificate No.

1320 1650

1980 2310

2000

1000

500



P.O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Barker Creek Dome Gas Storage Project WI #15

- 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.

- 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. 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 area is a rocky ridge with cedar trees. Cattle and rabbits 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 to is approved.

June 10, 1977

L. A. Aimes

Sr. Drilling Engineer

LAA: pb

Operations Plan Barker Creek Dome Gas Storage Project WI #15

I. Location: 68'S, 2273'W, Section 15, T-32-N, R-14-W, San Juan County, NM

Field: Barker Creek Dakota <u>Elevation:</u> 6253'GL

II. Geology:

Greenhorn 2215' A. Formation Tops: Mesa Verde ____ 2275' Menefee surface Graneros 100' Dakota 2345' Point Lookout 460' 2445' Total Depth Mancos

B. Logging Program: GR-I, FDC, SNP at 7" casing seat GR-I, FDC, SNP, GR-N at TD.

C. Coring Program: none

D. Natural Gauges: gauge well every connection past 2305' 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:	<u> Hole Size</u>	Depth	Csg.Size	Wt.&Grade
	12 1/4" 8 3/4" 6 1/4"	500' 2347' 2347-2445'	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.

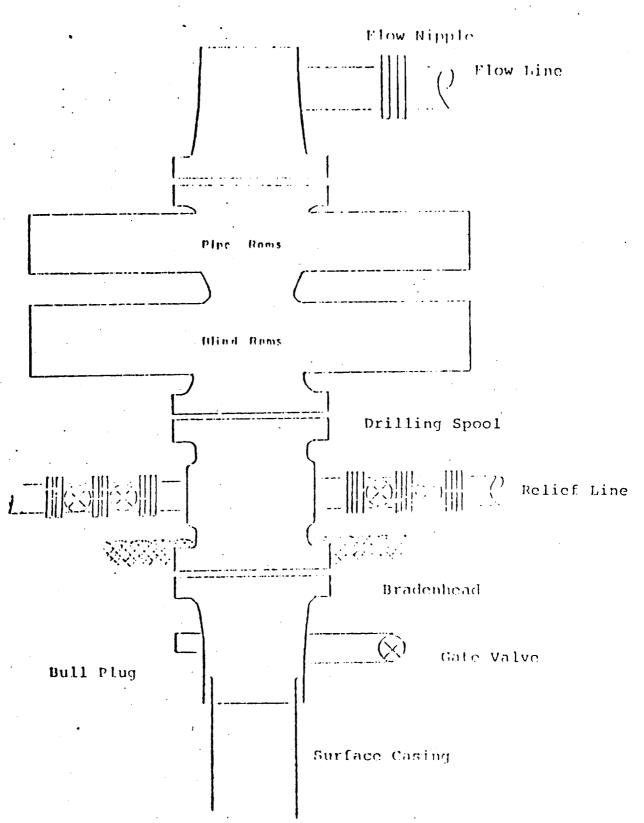
7" intermediate casing - cement guide shoe and self-fill insert float valve. Run float two joints above shoe.

- C. Tubing: 2430' 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:

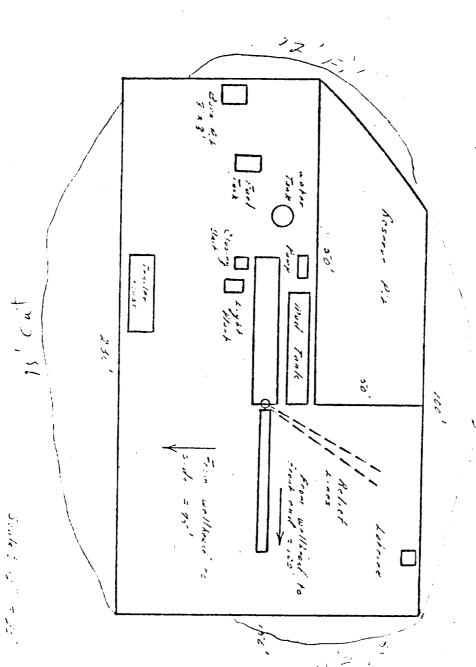
9 5/8" surface casing - use 265 sks. of Class "B" cement with 3% calcium chloride (313 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

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.

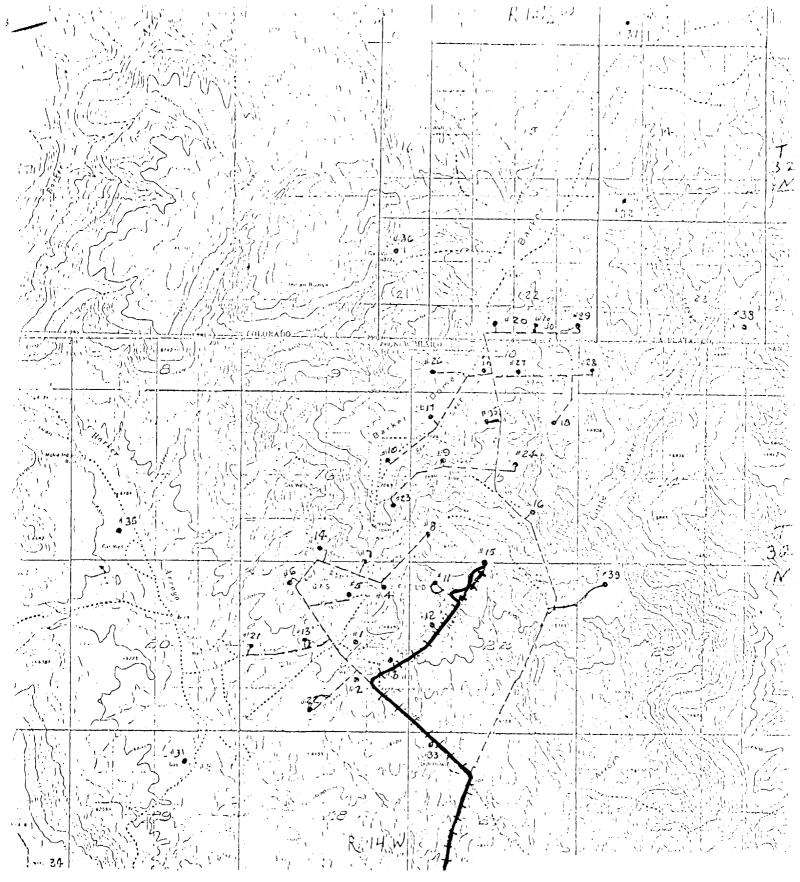


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When airdrilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.

North



Typical Lucation Plat for Pertured Chiefs W



El Paso Natural Gas Company

Well Name: WI #15
Location: 68'S, 2273'W, Section 15
T-32-N, R-14-W, San Juan County, NM

Map #1
Proposed road
Proposed pipeline + + +
Proposed road & pipeline + +

