#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30 - 0 45- 226/7 Trispa denitative and Berial No.

### **UNITED STATES** DEPARTMENT OF THE INTERIOR

	Ind-2622 2772							
APPLICATION	6. IF INDIAN, ALLOTTEE OF TRIBE NAME							
OIL GA	AS OTHER	IPLE	Storage Project Barker Creek Dome Ga					
NAME OF OPERATOR	stural Cac Co	mn 2 n 1 1				Storage Project 9. WELL NO.		
ADDRESS OF OPERATOR	atural Gas Co	Jupany				WI #11 -		
PO Box 990	10. FIELD AND POOL, OR WILDCAT							
LOCATION OF WELL (R At surface	Barker Creek Dakota							
At surface 670'N, 690'W						11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA Sec. 22, T-32-N, R-14-1		
At proposed prod. zon	e					NMPM		
. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	ST OFFICE	•		12. COUNTY OR PARISH 13. STATE		
						San Juan NM		
LOCATION TO NEAREST	r		Total project			OF ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)				es-14,728	N/A	N/A  20. ROTARY OR CABLE TOOLS		
18. DISTANCE FROM PROPOSED LOCATION <sup>®</sup> TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			2488'		ł	Rotary		
. ELEVATIONS (Show who	ether DF, RT, GR, etc.)		<u>'                                    </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	July 15, 1977		
	1	PROPOSED CASI	NG AND	CEMENTING PROGE	RAM	· · · · · · · · · · · · · · · · · · ·		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
12 1/4"	9 5/8"	32.3# H-		543'	340	cu.ft.to circulate		
8 3/4" 7" 20.0# H		20.0# K-			1	cu.ft.to fill 400' abo .ng shoe		
Dakota for 7" casing This well Dome Gas Scustomers	rmation. The seat to the will be used Storage Projectorage Projector Cali	total dent	ll bepth oural stor	gas storage gas wil	open h	depth into the nole from the nole from the ne Barker Creek dedicated to		
BIGNETT SEG	94	Tuld 11	TI.E	Drilling	Clerk	June 10, 19		
	ral or State office use)			APPROVAL DATE				
APPROVED BY	AL IF ANY		TLK		<u> </u>	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. Lease UTE MTN. TRIBAL I-22-IND-Operator EL PASO NATURAL GAS COMPANY BARKER CREEK DOME GAS STORAGE PROJECT County Unit Letter Section Township 32-N 14-W SAN JUAN 22 Actual Footage Location of Well: 690 WEST NORTH 670 feet from the feet from the line and Dedicated Acreage: Ground Level Elev. Producing Formation N/A N/A 6321 DAKOTA 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. Yes No 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 690 best of my knowledge and belief. ORIGINAL SIGNED BY Sr.Drilling Engineer Paso Natural Gas Cb. <sup>Com</sup>9്പ്ne 10, 1977 Date SECTION 22 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

500

2000



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

# Multi-Point Surface Use Plan Barker Creek Dome Gas Storage Project WI #11

- 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 area is a rocky ridge with cedar trees 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 #11

I. Location: 670'N, 690'W, Section 22, T-32-N, R-14-W, San Juan County, NM

Field: Barker Creek Dakota <u>Elevation:</u> 6321'GL

### II. Geology:

- A. Formation Tops: Mesa Verde --- Greenhorn 2258'

  Menefee urface Graneros 2318'

  Point Lookout 143' Dakota 2388'

  Mancos 503' Total Depth 2488'
- B. Logging Program: GR-I, FDC, SNP at 7" casing point GR-I, FDC, SNP, GR-N at TD.
- C. Coring Program: 420' will be cored beginning at 2058'
- D. Natural Gauges: gauge well every connection past 2348' 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"	543' 2390' 2390-2488'	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.

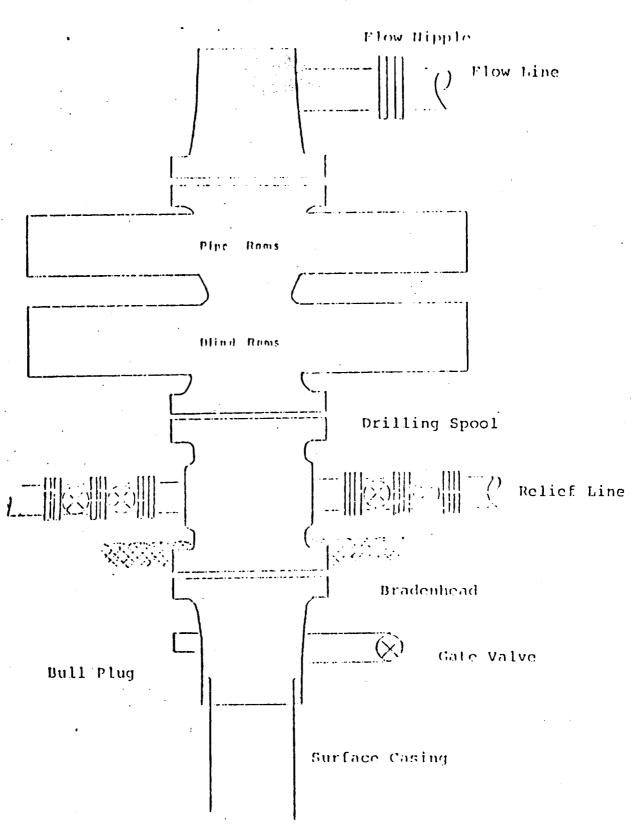
7" intermediate casing - cement guide shoe and self-fill insert float valve. Run float two joints above shoe.

- C. Tubing: 2473' 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:

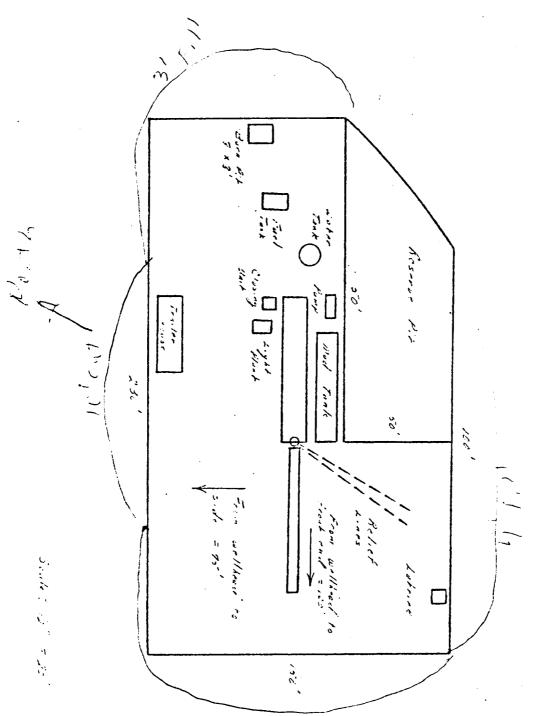
9 5/8" surface casing - use 288 sks. of Class "B" cement with 3% calcium chloride (340 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

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.

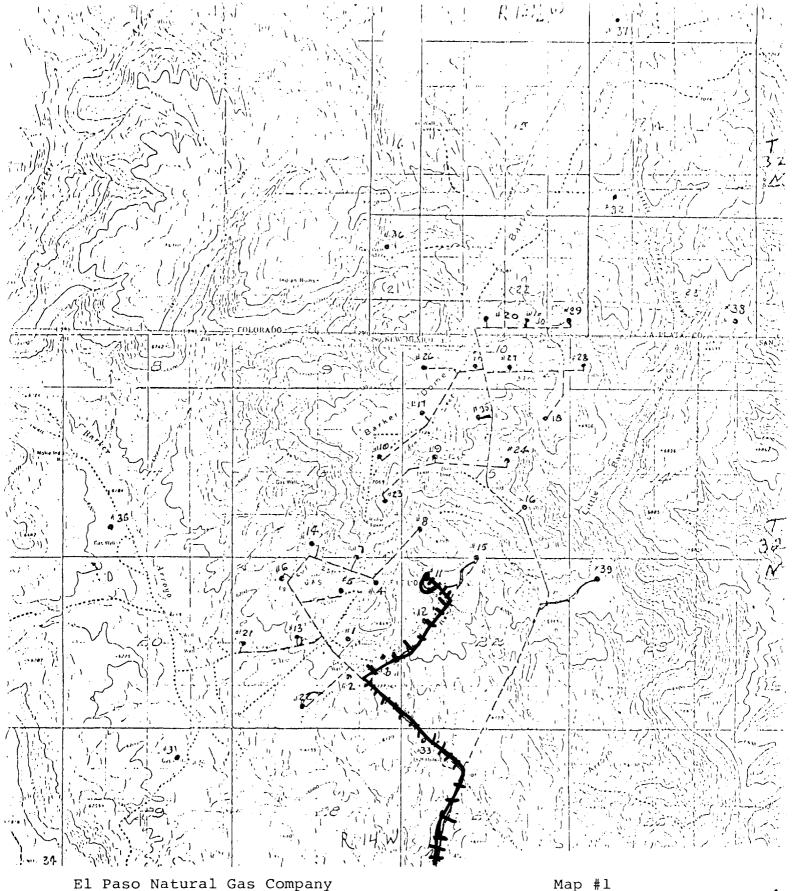


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When airdrilling operations begin a Shaffer type
50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.

El Poso Natural bos Company
Typical Location Plat for Pectured Chiefs Well



9,6



El Paso Natural Gas Company
Well Name: WI #11

Location: 670'N, 690'W, Section 22 T-32-N, R-14-W, San Juan County, NM Map #1
Proposed road & pipeline + + + + + Proposed Location •