#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(ö)ther instructions on reverse side)

### UNITED STATES DEPARTMENT OF THE INTERIOR

	5-22604
Tribair Ta	THE AND SERIAL NO.

	Ind-2622 27/2						
APPLICATION	V FOR PERMIT	TO DRILL,	DEEP	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK	Ute Mountain Barker Creek Dome Ga						
b. TYPE OF WELL	AS 🗀	0 Ct	81	NGLE MULTIP	re 🗀	Storage Project	
	ELL OTHER	Gas Stor	age zo	NE X ZONE		Barker Creek Dome Gas Storage Project	
	atural Gas C	ompany				9. WELL NO.	
3. ADDRESS OF OPERATOR	acurar das c	C.mpuriy				WI #10	
PO Box 99	0, Farmingto	n, NM 87	401			10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (R	eport location clearly an	d in accordance wi	th any S	tate requirements.*)		Barker Creek Dakota	
At surface	2137'N, 7	14'E 🗸				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zon	oe .					Sec.16,T-32-N,R-14-W	
14. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFIC	r. •		12. COUNTY OR PARISH   13. STATE	
						San Juan NM	
15. DISTANCE FROM PROPO LOCATION TO NEARES				tail.coroject	то т	OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE ! (Also to nearest drig	LINE, FT.		1	es-14,728	N/A		
18. DISTANCE FROM PROF	POSED LOCATION* ORILLING, COMPLETED,		19. PF	ROPOSED DEPTH 20. ROTARY OR CABLE TOOLS			
OR APPLIED FOR, ON TH	IS LEASE, FT.		<u> </u>	3270'	Rota	22. APPROX. DATE WORK WILL START*	
21. ELEVATIONS (Show wh 7098 GL	ether DF, RT, GR, etc.)					July 15, 1977	
23.		PROPOSED CASI	NG ANI	CEMENTING PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	гоот	SETTING DEPTH		QUANTITY OF CEMENT	
12 1/4"	9 5/8"	32.3# H-	40	1325'	830	cu.ft.to circulate	
8 3/4"	7"	20.0# K-	55	3172'		u.ft.to fill 400' abo	
					casin	ng shoe	
Dakota for 7" casing This well Dome Gas customers	rmation. The seat to the will be use Storage Project Cal	e well wi total de de de for nat ect. The ifornia.	ll b pth ural sto	e completed of 3270'.  gas storage rage gas wil	in the	19 <sup>7</sup> (0 <sup>1</sup> 1.3)	
preventer program, is at 24.							
SIGNED SUG	ng Shall	lues .	ITLE	Drilling (	Clerk	June 10, 197	
(This space for Fed	eral or State office use)						
PERMIT NO.				APPROVAL DATE			
APPROVED BY		т	ITLE			DATE	
CONDITIONS OF APPRO	VAL, IF ANY :						

### NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section Operator Lease UTE MTN. TRIBAL I-22-IND EL PASO NATURAL GAS COMPANY WI-10 BARKER CREEK DOME GAS STORAGE PROJECT Section Unit Letter County 14-W SAN JUAN 16 32-N Actual Footage Location of Well: NORTH 714 EAST 21.37 feet from the line teet from the line and Ground Level Elev. Producing Formation Pool Dedicated Acreage: N/A 7098 N/A 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 \_\_\_ 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, climinating 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 SIGLED BY LARRY A ALMES Sr.Drilling Engineer El Paso Natural Gas Cd. Company June 10, 1977 714' SECTION 16 I hereby certify that the well location shown on this plat was plotted from field true and correct to the best of my Date Surveyed APRIL 20, 1977 Registered Professional Engineer and/or Land Surveyor Certificate No. 1760

1320 1650

1980 2310 2640



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

# Multi-Point Surface Use Plan Barker Creek Dome Gas Storage Project WI #10

- 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 #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 flat ground with cedar trees, grass and rabbit brush. 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

T. A Aimes

Sr. Drilling Engineer

LAA:pb

## Operations Plan Barker Creek Dome Gas Storage Project WI #10

I. Location: 2137'N, 714'E, Section 16, 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 Greenhorn 3040'

  Menefee 275' Graneros 3100'

  Point Lookout 925' Dakota 3170'

  Mancos 1285' Total Depth 3270'
- 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 3130' 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	<u>Depth</u>	Csg.Size	Wt.&Grade
		12 1/4" 8 3/4"	1325' 3172'	9 5/8 <b>"</b> 7"	32.3# H-40 20.0# K-55
		6 1/4"	3172-3270'		

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

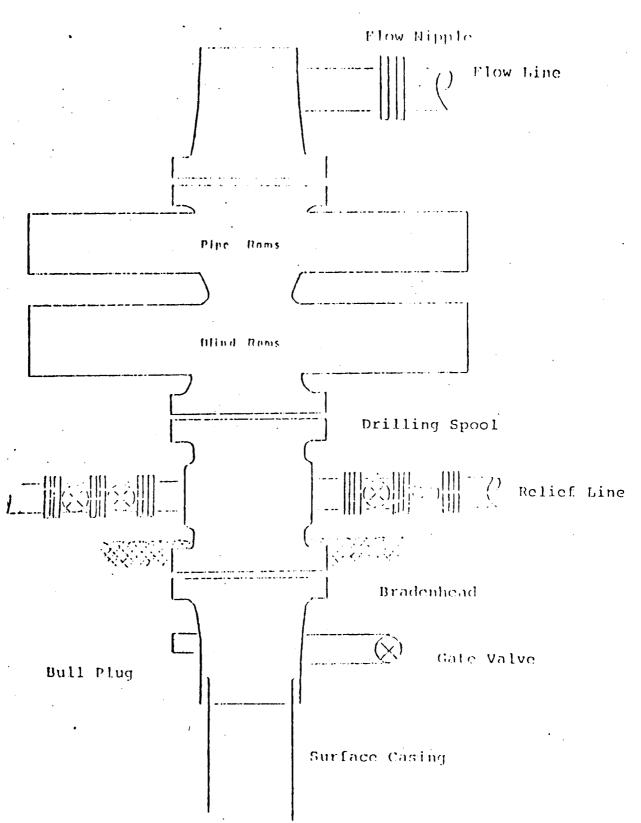
7" intermediate casing - cement guide shoe and self-fill insert float valve. Run float two joints above shoe.

- C. Tubing: 3255' 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 703 sks. of Class "B" cement with 3% calcium chloride (830 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

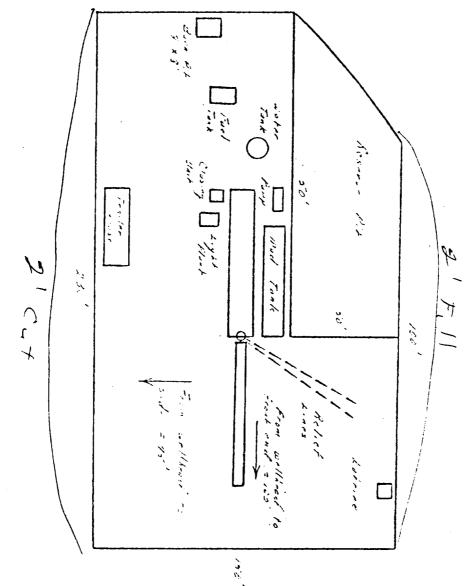
7" intermediate casing - use 76 sks. of Class "B" cement with 2% calcium chloride (90 cu.ft. of slurry, 50% excess to fill 400' above the casing shoe). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200 #/30 minutes.



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.

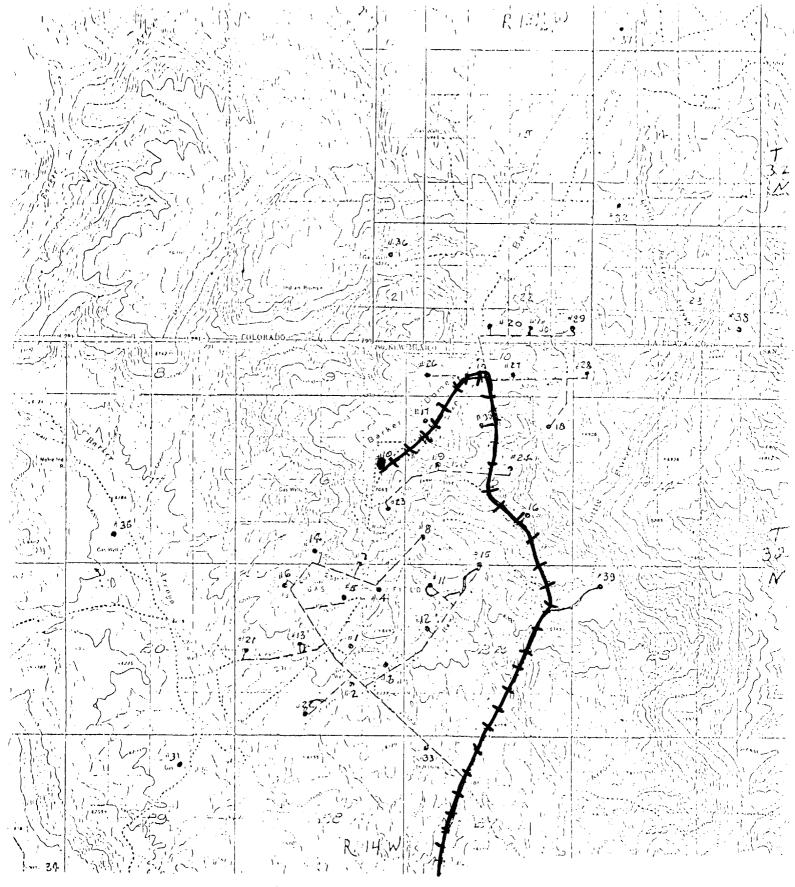
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El Paso Natural Gas Company Typical Location Plot for Polared Chiefs Well



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El Paso Natural Gas Company
Well Name: WI #10
Location: 2137'N., 714'E, Section 16,
T-32-N, R-14-W, San Juan County, NM

Map #1 Proposed road and pipeline