SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

(May 1000)	UNIT	ED STATES OF THE INTER	IOR	iide)	30-045-02553 5. LEASE DENIGNATION AND SERIAL NO.	
		GICAL SURVEY		1	Tribal I-22 2772	
A DOLLEA TION		O DRILL, DEEPE	N OR PILIG!	BACK	J. R. GNDTAN AUXOTTEE OR TRIBE NAME	
1a. TYPE OF WORK	L &	ск 🗆	Uta Mauntain. Barker Creek Dome Gas			
b. TYPE OF WELL.		PLE [-Storage Project			
	CLL OTHER		Barker Creek Dome Gas			
2. NAME OF OPERATOR		mnanı			-Storage Project	
EL PASO NA 3. ADDRESS OF OPERATOR	tural Gas Co		WI #19 10. FIELD AND POOL, OR WILDCAT			
PO BOX 990 4. LOCATION OF WELL (Re	Farmington port location clearly and		Barker Creek Dakota H. sec., T., E., M., OR BLE.			
At surface	610'S, 211		AND SURVEY OR AREA			
At proposed prod. zone	•		Sec.10,T-32-N,R-14-W			
14 DISTANCE IN MILES A	ND DIRECTION FROM NEA	REST TOWN OR POST OFFICE	E.		12. COUNTY OR PARISH 13. STATE	
					San Juan NM	
15. DISTANCE FROM PROPO LOCATION TO NEAREST		то т	OF ACRES ASSIGNED HIS WELL			
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)				N/A	RY OR CABLE TOOLS	
18. DISTANCE FROM PROPO TO NEAPEST WELL, DI	RILLING, COMPLETED,	19. 19.	3272'	Rotar		
OR APPLIED FOR, ON THI		1	3272	NOCAL	22. APPROX. DATE WORK WILL START*	
7100 GL	, and 21, 112, 413, 413,				July 15, 1977	
23.		PROPOSED CASING ANI	D CEMENTING PROGE	RAM		
SIZE OF HOLE	SIZE OF CASING	SING WEIGHT PER FOOT SETTING DEPTH			QUANTITY OF CEMENT	
12 1/4"	9 5/8"	32.3# H-40 1327'		-831 C	831 cu.ft.to circulate	
8 3/4"	1 7"				.ft.to fill 400' above	
					sing shoe	
Dakota for 7" casing This well	mation. The seat to the will be used	well will be total depth of for natural	e completed of 3272'. gas storage	open h in th	e Barker <u>Cr</u> eek	
customers	east of Cali E PROPOSED PROGRAM: If drill or deepen direction	and the damper of	niug back give data on	present pro	ductive one and proposed new productive ed and true vertical depths. Ofce blowout	
81GNEN SIGIL	ng Trade	field_ TITLE_	Drilling	Clerk	June 10, 1977	
(This space for Fed	eral or State office use)					

TITLE _

CONDITIONS OF APTROVAL, IF ANY :

*See Instructions On Reverse Side

APPROVAL DATE ___

DATE

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

2772 All distances must be from the outer boundaries of the Section. Leose UTE MTN. TRIBAL I-22-IND-2622 Well No. Operator WI-19 EL PASO NATURAL CAS COMPANY BARKER CREEK DOME GAS STORAGE PROJECT County Section Township Unit Letter 32-N 14-W SAN JUAN 10 N Actual Feotage Location of Well: WEST SOUTH 2113 61.0 feet from the line and feet from the Dedicated Acreage: Ground Level Elev. Producing Formation N/A N/A DAKOTA 7100 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 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 con-THIS PLAT IS REISSUED TO SHOW CORRECTED PLAT. 5-10-77 NOTE: tained herein is true and complete to the best of my knowledge and belief.
ORIGINAL SIGNED BY ARRY A AIMES Sr.Drilling Engineer El Paso Natural Gas Company June 10, 1977 Date I hereby certify that the wel! 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. SECTION 10 Date Surveyed APRIL 20, 1977 2113' Registered Professional Engineer 1760 PARKALPINE DESCRIPTION LETAPA

1980 2310

1320 1650

26 40



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

Multi-Point Surface Use Plan Barker Creek Dome Gas Storage Project WI #19

- 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.

- 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 #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 terrain is a sloping ridge with cedar, pinon trees, 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

L. A. Aimes

Sr. Drilling Engineer

LAA:pb

Operations Plan Barker Creek Dome Gas Storage Project WI #19

I. Location: 610'S, 2113'W, Section 10, T-32-N, R-14-W, San Juan County, NM

Field: Barker Creek Dakota <u>Elevation:</u> 7100'GL

II. Geology:

- A. Formation Tops: Mesa Verde surface Greenhorn 3042'

 Menefee 277' Graneros 3102'

 Point Lookout 927' Dakota 3172'

 Mancos 1287' Total Depth 3272'
- 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 3132' 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	<u>Csg.Size</u>	Wt.&Grade
		12 1/4" 8 3/4"	1327' 3174'	9 5/8" 7"	32.3# H-40 20.0# K-55
		6 1/4"	3174-3272'	,	20.0% K 33

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

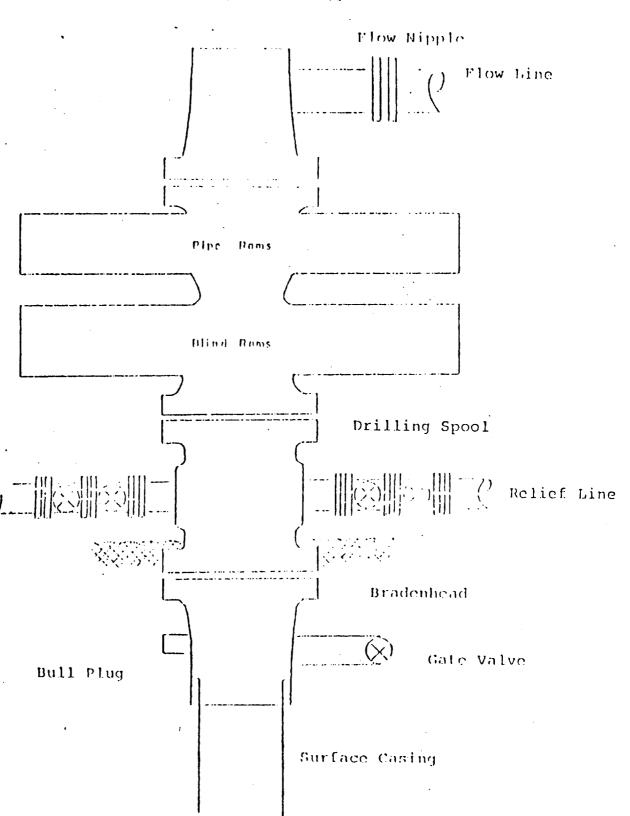
7" intermediate casing - cement guide shoe and self-fill insert float valve. Run float two joints above shoe.

- C. Tubing: 3257' of 23/8'', 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:

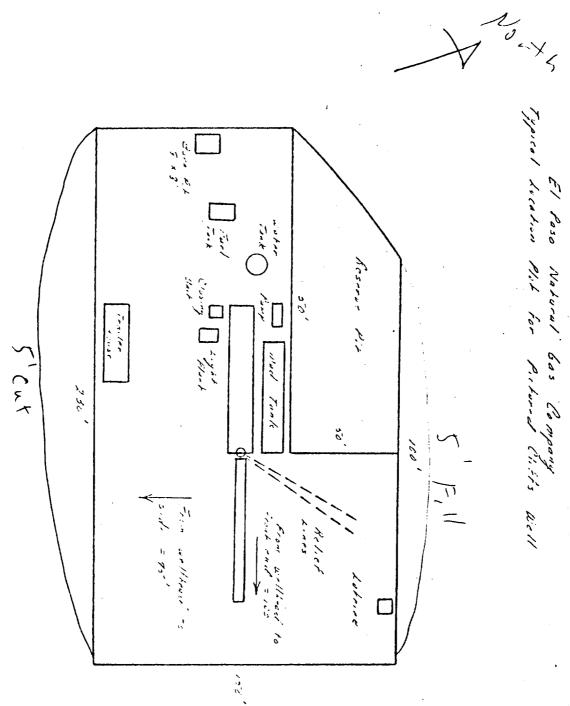
9 5/8" surface casing - use 704 sks. of Class "B" cement with 3% calcium chloride (831 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

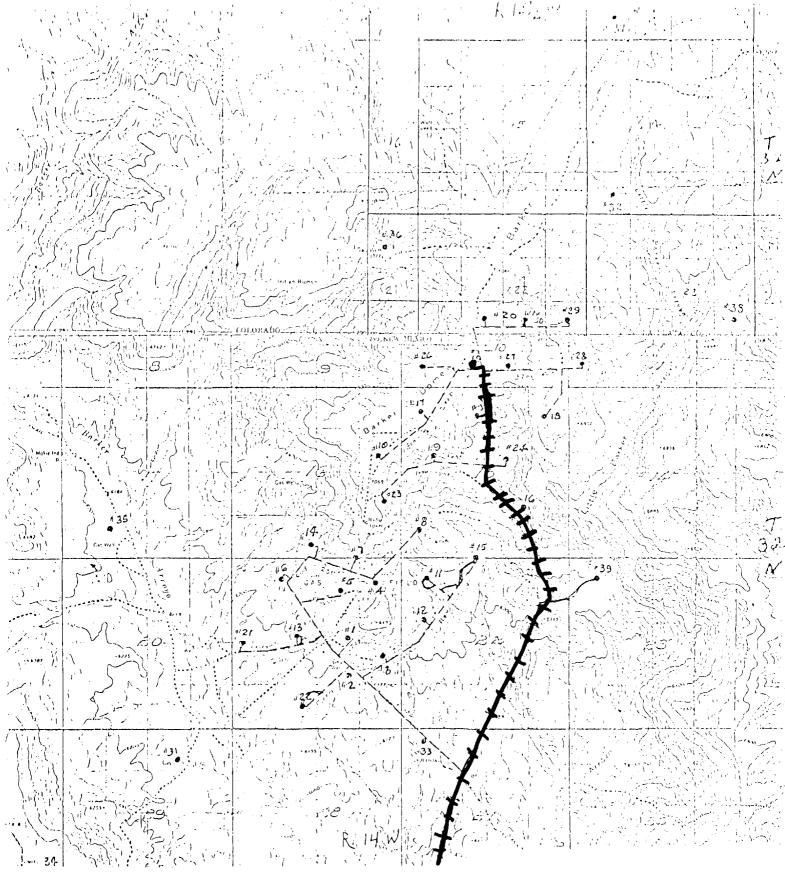
7" intermediate casing - use 76 sks. of Class "B" cement with 2% calcium chloride (90 cu.ft. of slurry, 50% excess to fill 400' above the casing shoe). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.



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 Paso Natural
Typical Location Plot for





El Paso Natural Gas Company

Well Name: WI #19

Location: 610'S, 2113'W, Section 10 T-32-N,R-14-W, San Juan County, NM Map #1

Proposed pipeline & road 🚻

