SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

(May 1963)	UNIT DEPARTMENT	ED STATES	, NTFR	reverse sid		30 - 045 THBATIONUE	- 22597	
			Ind-2622	2772				
		GICAL SURVE		N OR PLUG B	A CK	6, IF INDIAN, ALLOTTEE	OR TRIBE NAME	
Is. TYPE OF WORK	LL &	DEEPEN, OR PLUG BACK PLUG BACK			Ute Mountain Barker Creek Dome Gas			
b. Type of Well	TYPE OF WELL OIL GAS GAS GAS STOTAGEOUS X ZONE					Storage Project Barker Creek Dome Gas		
WELL W 2. NAME OF OPERATOR	ELL OTHER	das beez	<u>u</u> go			Storage Pro	ject	
El Paso Na	tural Gas Co	mpany				WI #25	L	
DO Boy 000	, Farmington		10. FIELD AND POOL, OR WILDCAT					
4. LOCATION OF WELL (R At surface	eport location clearly and 892'N, 222		Barker Creek Dakota 11. BEC., T., B., M., OR BLK. AND SURVEY OR AREA					
At proposed prod. zor	•		Sec. 15, T-32	2-N,R-14-W				
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	:•		12. COUNTY OR PARISH		
•••		·			17 10	San Juan OF ACRES ASSIGNED	NM	
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST			acres-14,728 N/A			THIS WELL		
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION ⁶			4	OPOSED DEPTH	1	ARY OR CABLE TOOLS		
TO NEAREST WELL, I OR APPLIED FOR, ON TE	RILLING, COMPLETED,			3205'	Rotar	-		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7048 GL						July 15, 1977		
23.		PROPOSED CASI	NG ANI	CEMENTING PROGRA	AM			
BIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	WEIGHT PER FOOT S			QUANTITY OF CEMENT		
12 1/4"	9 5/8"	32.3# H-		1260'	789 0	cu.ft.to circulate u.ft.to fill 400' above		
8 3/4"	<u> 7"</u>	20.0# K-				ng shoe		
Dakota fo	ended to dri rmation. The seat to the	e well wi	ll be	e completed (casing	g depth into nole from the	the e	
Dome Gas	will be used Storage Proje east of Cal	ect. The	ural sto	gas storage rage gas wil	in tl l be (he Barker dedicate	TO T	
IN ABOVE SPACE DESCRIBONE. If proposal is to preventer program, if:	RF PROPOSED PROGRAM: I	f proposal is to de naily, give pertine	epen or nt data	VII BUDANTIAN TO THE PROPERTY OF THE PROPERTY			new productive this. Give blowout	
NICHED SOM	In Stade	uld .	ritle	Drilling		K DATE		
(This space for Fe	deral or State office use)		=					
PERMIT NO				APPROVAL DATE	•			
CONDITIONS OF APPR		<u> </u>	TITLE			DATE		

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-162 Supersedes C-128 Effective 1-1-55

All distances must be from the outer boundaries of the Section. Well No. Operator Lease UTE MTN. TRIBAL I-22-IND WI-25 EL PASO NATURAL GAS COMPANY BARKER CREEK DOME GAS STORAGE PROJECT Unit Letter Section Township County 14-W SAN JUAN 32-N 15 Actual Footage Location of Well: 2228 WEST NORTH feet from the feet from the line and Producing Formation Dedicated Acreage: Ground Level Elev. N/A 7048 DAKOTA Actes 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 _ No │ 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. 2228' ORIGINAL SIGNED BY Drilling Engineer Position ElPaso Natural Gas June 10, 1977 SECTION 15 I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or ler my supervision, and that the same true and correct to the hest of my knowledge and belief. Date Surveyed APRIL 25, 1977 Registered Professional Engineer and/or Land Surveyor Certificate No. 1760

2000

1500

1323 1650

1980 2310

300

1000



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Barker Creek Dome Gas Storage Project WI #25

- 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.

Multi-Point Surface Use Plan

- 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. When 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 rocky and flat with cedar and pinon trees and morman tea plants growing. Cattle and deer 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 it is approved.

June 10, 1977

L. A. Aimes

Sr. Drilling Engineer

LAA:pb

Operations Plan Barker Creek Dome Gas Storage Project WI #25

I. Location: 892'N, 2228'W, Section 15, T-32-N, R-14-W, San Juan County, NM

Field: Barker Creek Dakota Elevation: 7049'GL

II. Geology:

- A. Formation Tops: Mesa Verde surface Greenhorn 2975'

 Menefee 210' Graneros 3035'

 Point Lookout 860' Dakota 3105'

 Mancos 1220' Total Depth 3205'
- 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 3065' 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"	1260'	9 5/8"	32.3# H-40
	8 3/4"	3107'	7"	20.0# K-55
	6 1/4"	3107-3205'		

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

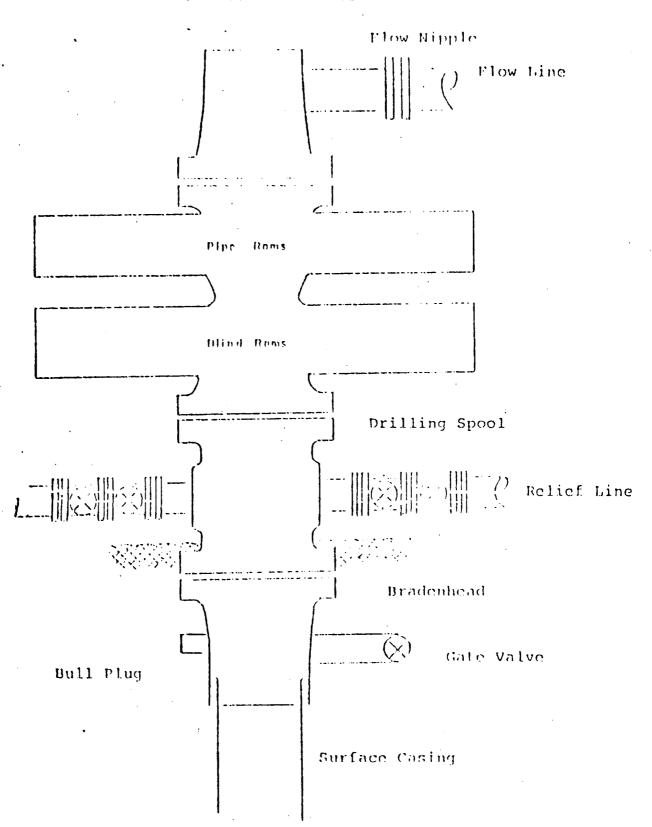
7" intermediate casing - cement guide shoe and self-fill insert float valve. Run float two joints above shoe.

- C. Tubing: 3190' 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 669 sks. of Class "B" cement with 3% calcium chloride (789 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

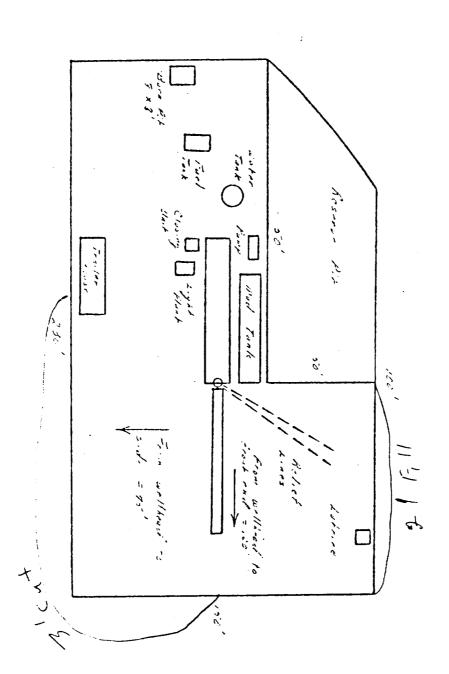
7" intermediate casing - use 76 sks. of Class "B" cement with 2% calcium chloride (90 cu.ft. of slurry, 50% excess to fill 400' above the casing shoe). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.



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

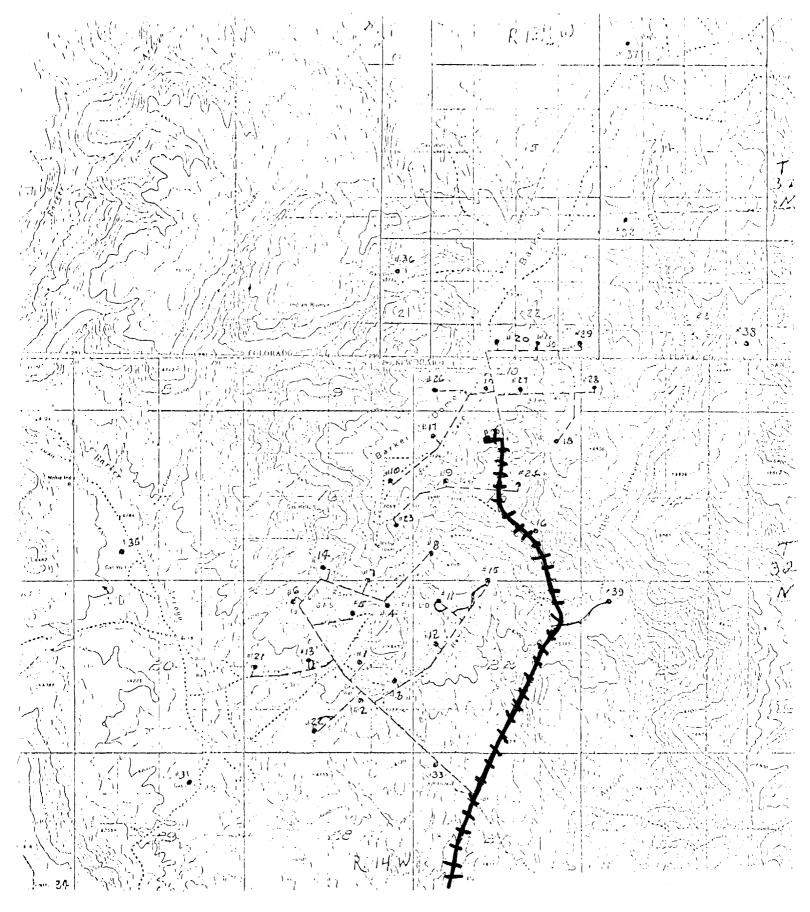
the flow nipple and the flow line is converted into a blowie line.

Typical Lucation Plat for Pertural Chief's Well



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Santo Com to



El Paso Natural Gas Company

Well Name: WI #25
Location: 892'N, 2228'W, Section 15
T-32-N,R-14-W, San Juan County, NM

Map #1

Proposed pipeline & road

