SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

	DELTANCE	. •				Tribal	r=22	, 5-2125 110,
		OGICAL SURVE				Ind-2772		TOTUE NAME
APPLICATION	I FOR PERMIT	TO DRILL, [DEEPE	N, OR PLUG I	BACK		_	TRIBE NAME
= : :	LL &	DEEPEN [PLUG BA	ск 🗆	Ute Mour Barker	Yeek"	
	S OTHER	Gas Stora	ge zo	NGLE MULTII	PLE _	Storage _Barker (Yeek 1	Dome Ga
, NAME OF OPERATOR						Storage 9. WELL NO.	Proje	<u>ct</u>
EL PASO NA	tural Gas Co	эшрану				wi #6 ^		
PO BOX 990	, Farmington	n, NM 874	01			10. FIELD AND	·	
LOCATION OF WELL (R)	eport location clearly an	d in accordance wit	h any S	tate requirements.*)		Barker (Creek	Dakota
	880'N, 15	55'W				Sec. 21	PY OR AREA	. p11_v
At proposed prod. zon	e					NMPM	1-22-14	, K-14-4
4. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POS	r offici	;•		12. COUNTY OF	R PARISH 1	3. STATE
						San Juan		<u>M</u>
15. DISTANCE FROM PROPO LOCATION TO NEAREST			¹fro`t	al project	17. No.	OF ACRES ASSIGNATION OF THE WELL	NED	
PROPERTY OR LEASE I. (Also to nearest drig	PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)			es-14,728	N/A			
8. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,					OTARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH			<u> </u>	2541'	Rota		DATE WORK	WILL START
6376 GL	emer Dr. Ki, Gia, ecc.)					July 15	, 1977	
3.		PROPOSED CASI	NG ANI	CEMENTING PROGR	AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	00Т	SETTING DEPTH	1	QUANTITY	OF CEMENT	
12 1/4"	9 5/8"	32.3# H-4	0	596'	373	cu.ft.to	circu	late
8 3/4"	7"	20.0# K-5	5	2443'	_90_c	u.ft.to	fill_4	00' abo
Dakota for	ended to dri mation. The seat to the	e well wil	.1 be	e completed	casin open	g depth hole fro	into t m the	he
Dome Gas S	will be used Storage Proje east of Cal	ect. The	ıral sto	gas storage cage gas wil	in t	he Barke dedicate		11 CON 1979
IN ABOVE SPACE DESCRIB- none. If proposal is to preventer program, if an 24.	drill or deepen directio	f proposal is to dee nally, give pertinen	pen or t data (on subsurface locations	and measu	red and true vert		
SIGNED DEGG	y Srady	feeld TI	TI.E	Drilling	Clerk	DATE _		10, 19
(This space for Fede	eral or State office use)							
PERMIT NO.				APPROVAL DATE		<u> </u>		
APPROVED BY		T ī	TLE			DATE_		

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

	All distances thus		ne outer boundaries of			
· · · · · · · · · · · · · · · · · · ·	COMPANY					Well No. WI-6
Section 21	Township 32-N		Range 14-W	County	SAN JUAN	
guon of Well:	NORTH line	and	1555 fec	t from the	WEST	line
		Poo	N/A		Dedi	cated Acreage: N/A
an one lease is ad royalty).	dedicated to the	well, ou	tline each and ide	ntify the c	ownership therec	at below. If (both as to working
ommunitization, u No If an is "no;" list the of necessary.) le will be assigne ling, or otherwise)	swer is "yes," ty owners and tract of ed to the well until or until a non-star	pe of co descripti lall intended	etc? Insolidation ons which have accerests have been continued it, eliminating suc-	etually bee consolidate h interest:	en consolidated. ed (by communi s, has been appi	(Use reverse side of tization,
,0880,					I hereby certify toined herein is best of my know UNITAL S LARRY A. A Name Sr. Dri Position El Pase	rthat the information construe and complete to the wledge and belief. MAFS Lling Engineer Natural Gas (0), 1977
			24 2 4 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		shown on this protes of actual under my super is true and continued to the surveyed APRIL 2 Registered Protes	22, 1977
	Section 21 Ction of Well: feet from the Producing Form D. e acreage dedicate an one lease is and royalty). In one lease of disommunitization, using the section of the section of the control of the	21 32-N cition of Well: feet from the NORTH line Producing Formation DAKOTA e acreage dedicated to the subject an one lease is dedicated to the ad royalty). In one lease of different ownership ommunitization, unitization, force-produced in the subject and the subjec	Section 21 Township 32-N Sign of Well: feet from the NORTH hine and Producing Formation DAKOTA e acreage dedicated to the subject well be an one lease is dedicated to the well, ou and royalty). In one lease of different ownership is dedicommunitization, unitization, force-pooling, or is "no," list the owners and tract descripting forcessary.) In one of the well until all interest in the control of the well until all interest in	Section 21 Township 32-N Section of Well: feet from the NORTH line and 1555 feet producing Formation DAKOTA e acreage dedicated to the subject well by colored pencil of an one lease is dedicated to the well, outline each and ide and royalty). In one lease of different ownership is dedicated to the well, ommunitization, unitization, force-pooling, etc? No If answer is "yes," type of consolidation is "no," list the owners and tract descriptions which have and forcessary. Ide will be assigned to the well until all interests have been colling, or otherwise) or until a non-standard unit, eliminating such its THIS PLAT IS REISSUED TO REFLECT CORRECTED SECTION 21	Section 21 Section 21 Township 32-N 14-W County	Section 21 Township 32-N Ronge 14-W SAN JUAN Ronge 14-W SAN JUAN SAN JUAN



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

Multi-Point Surface Use Plan Barker Creek Dome Gas Storage Project WI #6

- 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 an old well location covered with rabbit brush. Cattle 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 #6

I. Location: 880'N, 1555'W, Section 21, T-32-N, R-14-W, San Juan County, NM

Field: Barker Creek Dakota <u>Elevation:</u> 6376'GL

II. Geology:

- A. Formation Tops: Mesa Verde --- Greenhorn 2311'
 Menefee surface Graneros 2371'
 Point Lookout 196' Dakota 2441'
 Mancos 556' Total Depth 2541'
- B. Logging Program: GR-I, FDC, SNP at 7" casing seat GR-I, FDC, SNP, GR-N at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: gauge well every connection past 2401' 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"	596' 2443'	9 5/8" 7"	32.3# H-40 20.0# K-55
	6 1/4"	2443-2541'		

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

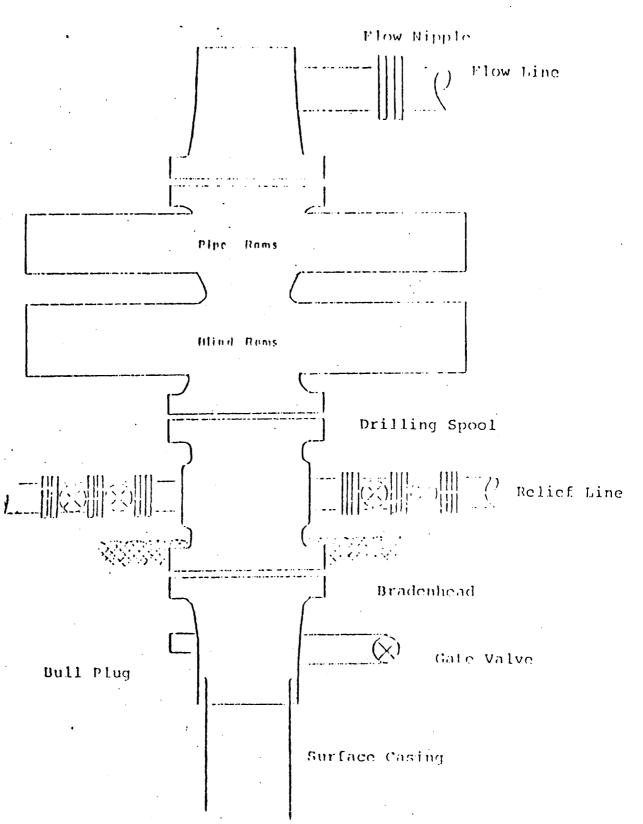
7" intermediate casing - cement guide shoe and self-fill insert float valve. Run float two joints above shoe.

- C. Tubing: 2526' 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 316 sks. of Class "B" cement with 3% calcium chloride (373 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 nours. 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 bas Company Typical Location Plit for Pitured Chits Well

