SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

<u> 30</u>			-228/
5. LEA	se des	GNATION	AND SERIAL NO.
SF	079	729	

APPLICATION	N FOR PERMIT	TO DRILL, D	EEPEN, O	R PLUG	BACK	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
a. TYPE OF WORK	LL 🖺	DEEPEN []	PLUG BA		7. UNIT AGREEMENT	NAME
TYPE OF WELL							
WELL W	ELL OTHER		ZONE X	MULTI ZONE	IPLE	8. FARM OR LEASE	NAME
NAME OF OPERATOR						Valdez	- -
	cural Gas Cor	npany	·			9. WELL NO.	
ADDRESS OF OPERATOR		274 0740	-			4	= ""
	, Farmington,				<u>. </u>	10. FIELD AND POOL	
LOCATION OF WELL (R At surface	eport location clearly and		any State requ	rements.*)			a PC Ext.
	940'N, 790) · E				11. SEC., T., R., M., O AND SURVEY OR	R BLK. ARTA
At proposed prod. zon	e					Sec.21,T-	28-N,R-4-W
	same					NMPM	
	AND DIRECTION FROM NEA					12. COUNTY OR PARIS	1
	theast of Go	bernador,				Rio Arrib	a NM
DISTANCE FROM PROPO LOCATION TO NEAREST	•		16. NO. OF ACRI			F ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE I	INE, FT. . unit line, if any)	790'	2	560.0			160.00
DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION*	1	19. PROPOSED D		20. ROTAL	RY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	S LEASE, FT.	1000	4	560 '	Rotar	У	
	ether DF, RT, GR, etc.)					22. APPROX. DATE	WORK WILL START
7407 ' GL					1		- ,
]	PROPOSED CASING	G AND CEMEN	TING PROGR	RAM		
FIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT SETT	ING DEPTH		QUANTITY OF CEM	ENT
12 1/4"	8 5/8"	24.0#		120'	106 c	u.ft.circ.	to surfac
6 3/4"	2 7/8"	6.4#	4	560'		u.ft.to co	
	perforate a						
blind and p	oipe rams wil	l be used	for blo	w out p	revent	ion on this	s well.
This gas is	dedicated.						
						1019	1
			•		1	a 1 1 and	•
The NE/4 of	Section 21	is dedica	ted to t	his wel	1. \ .	MAX of CO.	.]
•	PROPOSED PROGRAM: If				\ .	W. CO. 3	1
. If proposal is to	irill or deepen directions	ally, give pertinent	data on subsurf	ice locations a	and measur	and true vertical des	sed new productive ths. Give blowout
enter program, if any	·.						
BIG VED N.	1. Buses	TITL	D	rilling	Clerk	рати5	18-79
(This space for Feder	al or State office use)					• 1 3 1	
PERMIT NO.			APPROVAL	DATE			
			ALLBOYAL	····-		2,2,00	.5 1670
APPROVED BY		TITL	E		:	DATE	· 기가 기
CONDITIONS OF APPROVA	AL, IF ANY:				, Can	EU & GELTS	of Egwayay
and Sauch						EUM D	

*See Instructions On Reverse Side

All distances must be from the

Operator								
_	TURAL GAS COM	DANTE	Lease	(S)	· - 079729)	Well No.		
Unit Letter	Section GAS COM	Township	VALDEZ.	· · · · · · · · · · · · · · · · · · ·	0171277			
A	21	28N		County				
	A 21 28N LW Rio Arriba Actual Footage Location of Well:							
940		rth line on	7 90	feet from the	East /	line		
Ground Level Elev. 7407	Producing Form		Pool		Dedice	ated Acreage:		
		t Cliffs	l	Pictured Cl	i	.60.00 Acres		
1. Outline the	e acreage dedicat	ted to the subject v	vell by colored	pencil or hachur	e marks on the plat	below.		
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolitated by the contract of the c								
dated by co	ommunitization, u	nitization, force-poo	ling. etc?					
Yes	No If an	swer is "yes," type	of consolidation			•		
								
If answer i	s "no," list the o	owners and tract des	criptions which	have actually b	een consolidated. (Use reverse side of		
	•	d to the well until a	ll interests have	haa1:1-	. 1 /1			
forcec-pool	ing, or otherwise)	or until a non-standa	rd unit. eliminat	ing such interes	ited (by communiti	zation, unitization,		
sion. NO	TE: THIS PLAT	r is reissued t	O SHOW MOVED	LOCATION.	5-4-79	ved by the Commis-		
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	1	Ø	SF-079729		El Paso Na	rural Gas		
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

Multi-Point Surface Use Plan

Valdez #4

- 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 Map 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 29-6 Water Well #1.
- 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. 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,

7. cont'd.

- 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 as designated by the responsible government agency 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 as designated by the responsible government agency.
- 11. Other Information The terrain is rolling hills with ponderosa, oak brush and bitterbrush growing. Deer and cattle are occasionally seen on the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 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.

L. A. Aimes

Project Drilling Engineer

Operations Plan - Valdez #4

I. Location: 940'N, 790'E, Section 21, T-28-N, R-4-W, Rio Arriba County, NM Field: Choza Mesa Pictured Cliffs Ext. Elevation: 7417'GL

II. Geology:

A. Surface Formation: San Jose

Sub-surface Formation Tops:
Ojo Alamo 3825' Pictured Cliffs 4320'
Kirtland 3970' Lewis 4520'
Fruitland 4120' Total Depth 4560'

- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Testing: none

III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1979 Drilling Program - approximately 4 days to complete.

B. Circulating Medium: Treated water and a low solids gel base mud will be used from surface to TD.

IV. Matterials:

Α.	Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
		12 1/4" 6 3/4"	120 ' 4560'	8 5/8 " 2 7/8"	24.0# J-55 6.4# J-55

B. Float Equipment: 8 5/8" surface casing - cement guide shoe.

2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.

- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)

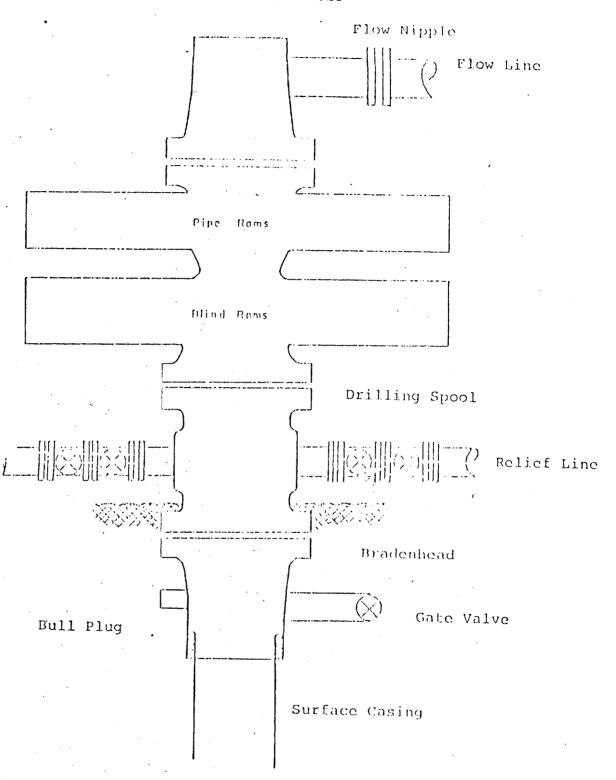
V. Cementing:

8 5/8" surface casing - 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/30 minutes.

2 7/8" production - 87 sks. 65/35 Class "B" Poz with 6% gel, 2% CaCl₂, and 8.3 gallons water per sack followed by 70 sks.Class "B" neat cement (224 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

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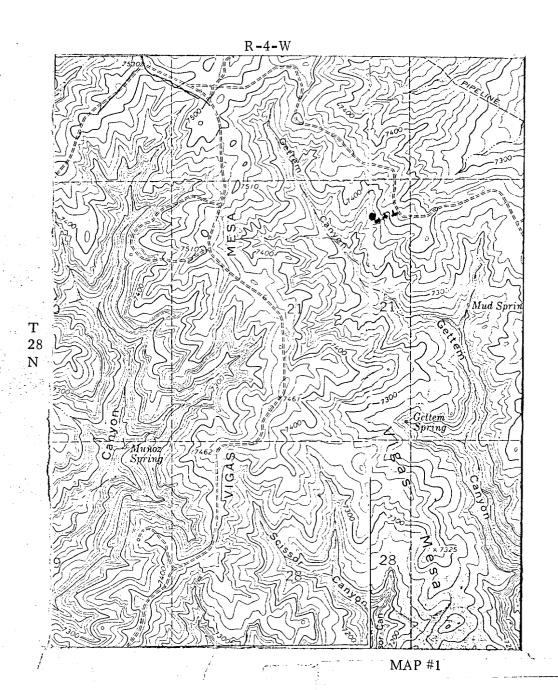


8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

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Location Pit for Pictured Cliffs Well Section of the second Dryke Dank 73 50000

EL PASO NATURAL GAS COMPANY Valdez #4 NE 21-28-4



LEGEND OF RIGHT-OF-WAYS

EXISTING	ROADS	
	PIPELINES	+++
EXISTING	ROAD & PIPELI	NE +++
PROPOSED	ROADS	-
	PIPELINES	+ +
PROPOSED	ROAD & PIPELI	NE + +

EL PASO NATURAL GAS COMPANY Valdez #4
NE 21-28-4

R-4-W

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Proposed Location