SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved.

UNITED STATES DEPARTMENT OF THE INTERIOR

В	udget	Bureau	No.	42-R14	25.
30.	- O.	39.	· 2	20	79
5. LEASE	DESIG	NATION	AND S	ERIAL N	0.

GEOLO	SF 079729			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				6. IF INDIAN, ALLOTTEE OR TRIBE NAME
IA. TYPE OF WORK DRILL B. TYPE OF WELL	DEEPEN	PLUG BA	CK 🗆	7. UNIT AGREEMENT NAME
OIL GAS T		SINGLE X MULT	IPLE []	8. FARM OR LEASE NAME
WELL WELL OTHER 2. NAME OF OPERATOR	····-	zone LA zone		Valdez
El Paso Natural Gas Com	ıpany			9. WELL NO.
3. ADDRESS OF OPERATOR				2
PO Box 289, Farmington,			`	10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and At surface		th any State requirements.*)		Choza Mesa PC Ext.
1640'N, 1140'E At proposed prod. zone same				11. SEC., T., B., M., OR BLK. AND SUBYEY OR AREA SEC. 16, T-28-N, R-4-W NMPM
4. DISTANCE IN MILES AND DIRECTION FROM NEAR	REST TOWN OR POS	T OFFICE*		12. COUNTY OR PARISH 13. STATE
8 miles East of Goberna	dor, NM			Rio Arriba NM
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST		16. NO. OF ACRES IN LEASE	17. No. o	OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	1140'	2560.0		160.00
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,	1/2	19. PROPOSED DEPTH		RY OR CABLE TOOLS
OR APPLIED FOR, ON THIS LEASE, FT.	1/2 m:	4575	Rotar	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7429 GL				22. APPROX. DATE WORK WILL START*
23.	ROPOSED CASI	NG AND CEMENTING PROGE	RAM	
SIZE OF HOLE SIZE OF CASING	WEIGHT PER F			QUANTITY OF CEMENT
12 1/4" 8 5/8" 6 3/4" 2 7/8"	24.0#	120'		cu.ft.circ.to surface
6 3/4" 2 7/8"	6.4#	4575 '	223 c	cu.ft.to cover Ojo Al
A 3000 psi WP and 6000 blind and pipe rams wil				
This gas is dedicated.				OFFINED OF
		,		1 1 13
The NE/4 of Section 16	is dedica	ted to this wel	1.	MAY ON
				netive was and proposed few productive
N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If pone. If proposal is to drill or deepen directional reventer program, if any.	lly, give pertinent	data on subsurface locations a	ind measured	and true ertical depths. Give lowout
A. BIGNED M. D. Susice	; TIT	Drilling	r Cleck	DATE 5-29-79
(This space for Federal or State office use)				DATE
PERMIT NO.		APPROVAL DATE	- <u>'</u> -	
APPROVED BY	тіт	LE	U	DATE
CONDITIONS OF APPROVAL, IF ANY:				16-17-6-17-79
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o ic yidaare	*Soo Instru	ctions On Reverse Side	ij.	P. C. C. C. L. S.L. S.L. S.Y
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STATE OF NEW MEXICO LINERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter houndaries of the Section Operator Lease Well No. EL PASO NATURAL GAS COMPANY VALDEZ (SF-079729) Unit Letter Section Township Range Η 16 28N LW Rio Arriba Actual Footage Location of Well: 1640 feet from the North 11/10 line and feet from the East Ground Level Elev. line Producing Formation 7429 Dedicated Acreage: Pictured Cliffs Choza Mesa Pictured Cliffs Ext. 160.00 Acres 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? Yes ☐ No 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, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Pashing Clerk 111101 El Paso Natural Gas Co. Company May 29, 1979 SF-079729 Sec. 16 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Register # P 330 3950 2000 1500





Multi-Point Surface Use Plan Valdez #2

- 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 ridges of hills with pine, cedar, oakbrush, and bitterbrush growing. Deer, elk, cattle and horses are sometimes 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.

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L. A. Aimes

Project Drilling Engineer

Operations Plan - Valdez #2

I. Location: 1640'N, 1140'E, Section 16, T-28-N, R-4-W, Rio Arriba County, NM Field: Choza Mesa Pictured Cliffs Ext. Elevation: 7239'GL

II. Geology:

A. Surface Formation: San Jose

Sub-surface Formation Tops:

Ojo Alamo 3845' Pictured Cliffs 4325'
Kirtland 3990' Lewis 4535'
Fruitland 4140' Total Depth 4575'

- 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. Materials:

A. Casing Program:	Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4"	120'	8 5/8"	24.0# J-55
	6 3/4"	4575'	2 7/8"	6.4# J-55

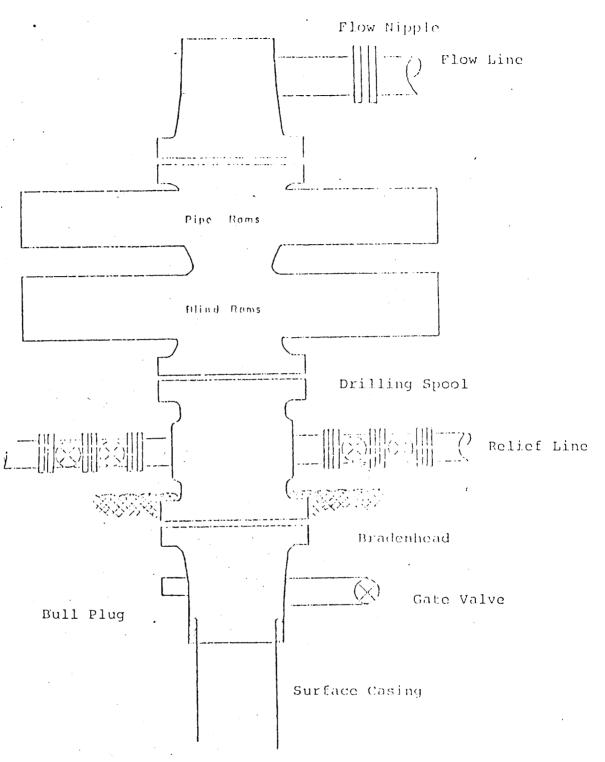
- B. Float Equipment: 8 5/8" surface casing cement guide shoe.
 - 2 7/8" production casing 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.
- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)

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 (223 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

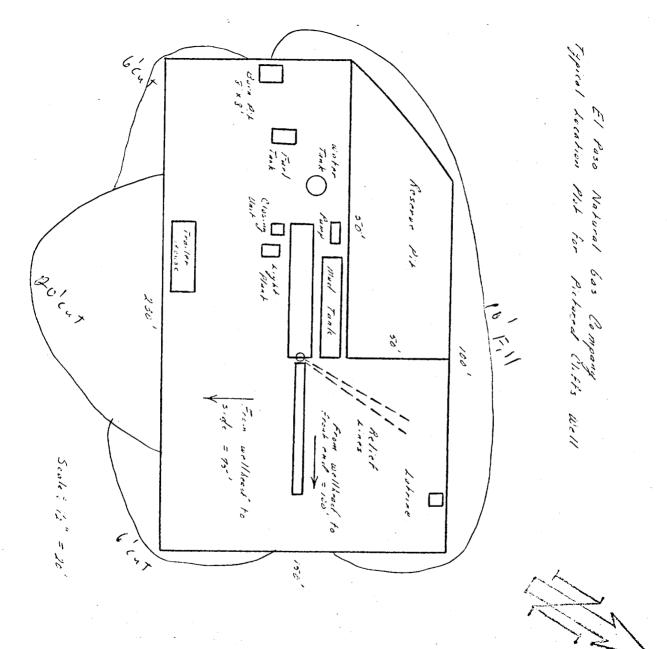
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Typical Mud Drilled B.O.P. Installation for Pictured Cliffs Well

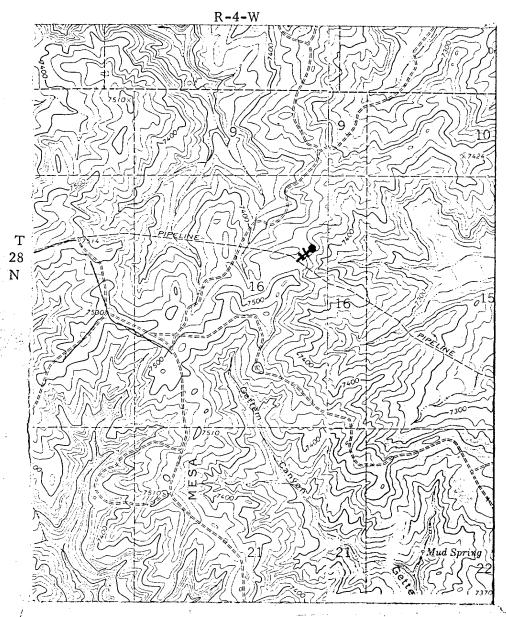


8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

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EL PASO NATURAL GAS COMPANY Valdez #2 NE 16-28-4



MAP #1

LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS

EXISTING PIPELINES + + +

EXISTING ROAD & PIPELINE + +

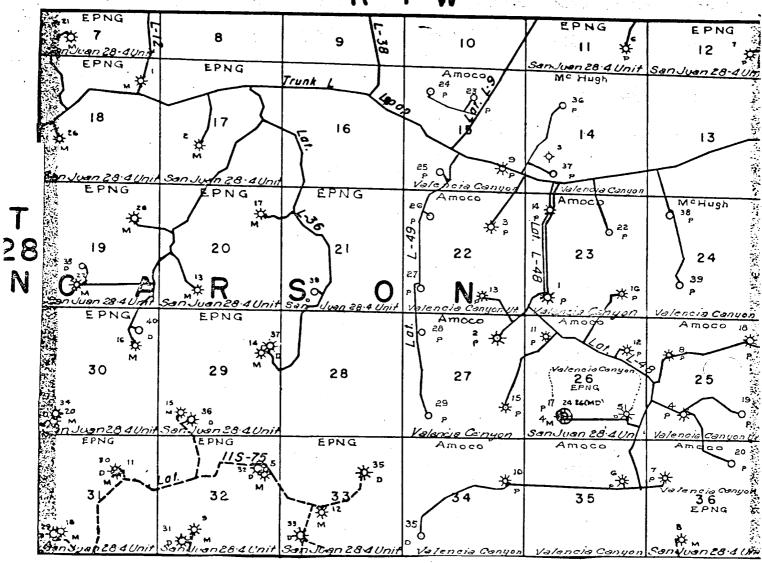
PROPOSED ROADS

PROPOSED PIPELINES + +

PROPOSED ROAD & PIPELINE + +

EL PASO NATURAL GAS COMPANY Valdez #2 NE 16-28-4

R-4-W



MAP #2
Proposed Location •