(This space for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO. _

APPROVED BY ___

SUBMIT IN TRIPLICATE*

(Other Instructions on reverse side)

Form approved, Budget Bureau No. 42 R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR					30-039-2/37/ 5. LEASE DESIGNATION AND SERIAL NO.		
	GEOL	DGICAL SURV	EY	-1		SF 078925	
APPLICATIO	IN FOR PERMIT	TO DRILL,	DEEPE	N, OR PLUG E	BACK	6. IF INDIAN, ALLOTTER OR TRIBE NAME	
D. TYPE OF WELL	RILL X	DEEPEN		PLUG BA	ск 🗌	7. UNIT AGREEMENT NAME Canyon Largo Unit	
	GAS WELL OTHER			NGLE X MUCTIF	1.10	8. FARM OR LEASE NAME	
2. NAME OF OPERATOR				Artical aller alarmoner or alexandric apparagates as as an expens		Canyon Largo Unit	
El Paso Natu	ıral Gas Company	7				9. WELL NO.	
3. ADDRESS OF OPERATO	R					_ 6	
Box 990, Fa	rmington, New I	Mexico 8740 d in accordance wi	th any S	tate requirements.*)		10. FIELD AND POOL, OR WILDCAT Basin Dakota	
965	'N, 1160'E					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. z	one					Sec. 25, T-24-N. R-6-W	
14. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFICE	; •		N. M. P. M. 12. COUNTY OR PARISH 13. STATE	
						Rio Arriba N. M.	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)			16. NO. OF ACRES IN LEASE			7. NO. OF ACRES ANSIGNED TO THIS WELL. 320.0	
18. DISTANCE FROM PR			19. PROPUSED DEPTH		20. ROTA	20. ROTARY OR CABLE TOOLS	
OR APPLIED FOR, ON	THIS LEASE, FT.		6780'			Rotary	
•	vhether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*	
6646' GL							
		PROPOSED CASI	NG AND	CEMENTING PROGRA	AM .		
SIZE OF HOLE	SIZE OF CASING			SETTING DEPTH	QUANTITY OF CEMENT		
13 3/4"	9 5/8"	32.3#		200'	224 c	u. ft. to circulate	
<u>8 3/4''</u> 7 7/8''	4 1/2"	10.5 & 11	6#	5095' 6780'	1056	ou ft 2 Stagos	
7 7/0	4 1/2	10.5 & 11	• 0#	0780	1 1000	cu. ft 2 Stages	
Selectively pe	erforate and sand	water fracti	ire th	e Mesa Verde fo	rmatio	n	
	and 6000 psi tes v out prevention o		prev	entor equipped	with bli	nd and pipe rams will be	
The gas is dedicated				A Company of the Comp	ŀ	RECEIVED	
						APR 5 1977	
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	and the second s	ij.	6. ŒOLOGICAL SURVEY	
The $E/2$ o	f Sec. 25 is de	edicated to th	iis we	11.		- - -	
	o dril <mark>l or deepen directi</mark> o					netive zone and proposed new productive d and true vertical depths. Give blowout	
24.	4 6.						

*See Instructions On Reverse Side



WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer houndaries of the Section Canadar Lease Well No. EL PASO NATURAL GAS COMPANY CANYON LARGO UNIT (SF-078925) 6 Unit Letter Township Section County Α 25 24-N 6-W RIO ARRIBA Actual Footage Location of Well: 965 1160 EAST teet from the line and feet from the line Ground Level Elev. Producing Formation Foel Dedicated Acreage: 6646 DAKOTA BASIN DAKOTA 320.0 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? Unitization X Yes 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, climinating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the 1160' best of my knowledge and belief. Name Drilling Clerk El Paso Natural Gas Company Company April 5. 1977 SECTION 25 I hereby certify that the well location SF-078925 shown on this plat was platted from field notes of actual surveys mude by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed MARCH 24, 1977 Redistered Professional Engineer and/or Dand Surveyo Certificate No. 1760 1320 1650 1980 2310 1500



P. O. BOX 990 FARMINGTON, NEW MEXICO, 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Canyon Largo Unit #6

- 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 a water hole located at Lindrith Station Water Hole
- 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 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 earther 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. With seed mixture #1.

 The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted Green Federal Standard 595 34127
- 11. Other Information The terrain is sand stone ledges and steep bluffs covered with sage brush and cedar trees. Deer and sheep graze the proposed project site.

- 12. Operator's Representative W. D. Dawson, Post Office Box 990, Farmington, New Mexico 87401
- 13. Certification -

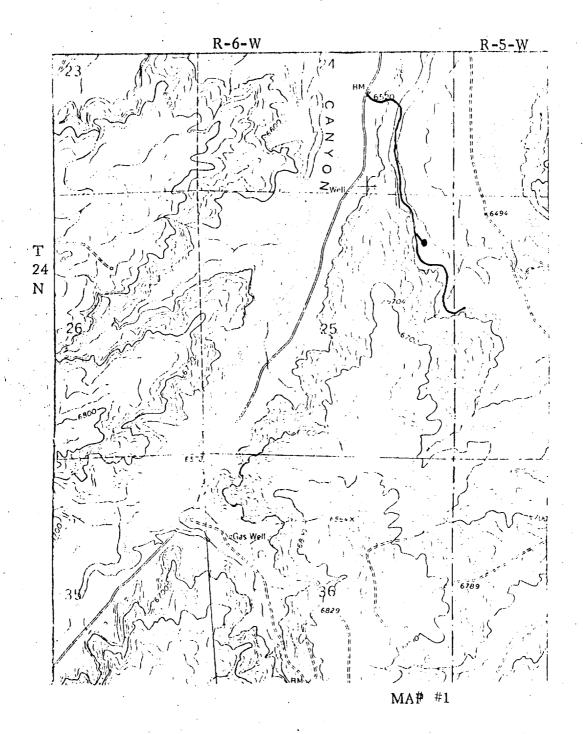
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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.

D. R. Read

Division Drilling Engineer

April 5, 1977

EL PASO NATURAL GAS COMPANY CANYON LARGO UNIT #6 NE 25-24-6



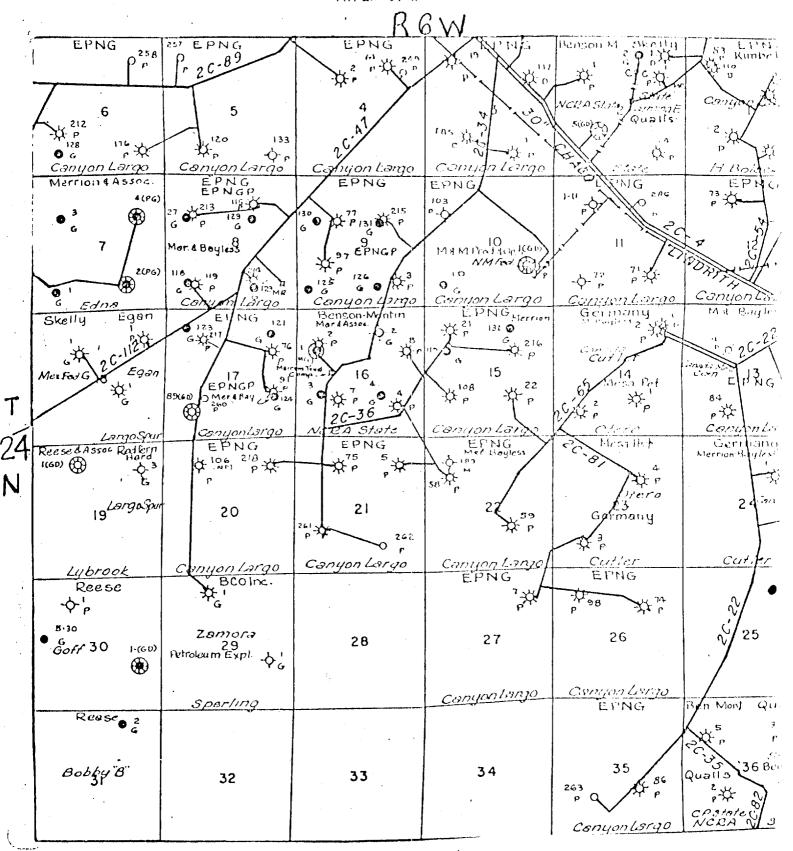
LEGEND OF RIGHT-OF-WAYS

ROADS	-
PIPELINES	and and and
ROAD A PIPELI	10-1-1
ROADS	
PIPELIMES	+++
BOVD & LILEPIN	NE -
	PIPELINES ROAD A PIPELII ROADS

EL PASO NATURAL GAS COMPANY. CANYON LARGO UNIT #6 NE 25-24-6

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MA'P #2

Proposed Location

Operations Plan - Canyon Largo Unit #6

I. Location: 965'N, 1100'E, Section 25, T-24-N, R-6-W, Rio Arriba County, New Mexico

Field: Basin Dakota Elevation: 6646' GL

II. Geology:

Α.	Formation Tops:	San Jose	Surface	Mancos	4895
		Ojo Alamo	1785'	Gallup	5450'
		Kirtland	1830'	Greenhorn	6355'
		Fruitland	2015'	Graneros	64301
		Pictured Cliffs	2190'	Dakota	6605'
		Lewis	2270'	Total Depth	6780'
		Mesa Verde	3690'		
		Point Lookout	4395'		

B. Logging Program: Induction Electric and Gamma Ray Density at T. D.

C. Coring Program: None

III. Drilling:

A. Mud Program: Mud from surfact to total depth.

IV. Materials

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
		13 3/4''	200'	9 5/8"	32.3# H-40
		8 3/4"	5095'		
		7 7/8''	6500'	4 1/2''	10.5# J - 55
		7 7/8"	6780'	4 1/2"	11.6# J - 55

- B. Float Equipment: 9 5/8" Surface Casing B-W guide shoe (Prod. #FC06)
 - 4 1/2" Production Casing Baker guide shoe (Prod. #102-01) and self-fill insert valve (Prod. #177-13). One Baker multiple stage cementer (Prod. #200-03) equipped for two stage cementing. Set tool for second stage at 4995'. Run 14 Baker Model "M" centralizers (Prod. 244-53) placed as follows: One on each of the bottom 8 joints, one below and five above stage tool spaced every other joint.
- C. Tubing: 6780' of 2 3/8", 4.7#, J-55 tubing with a common pump seating nipple and a Baker expendable check valve with drill type guide.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 Xmas Tree

Operations Plan - Canyon Largo Unit #6 (Cont'd.)

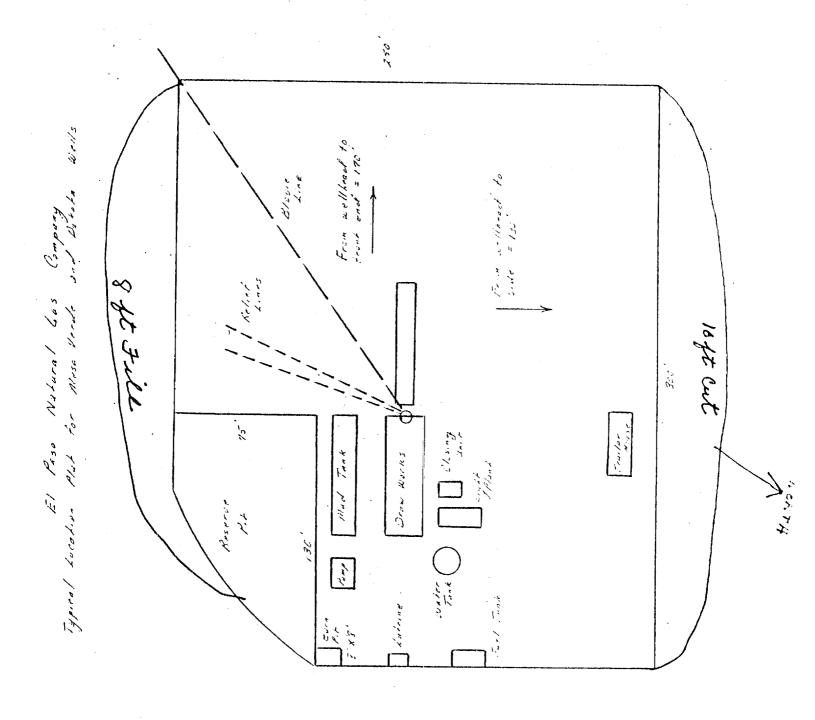
V. Cementing:

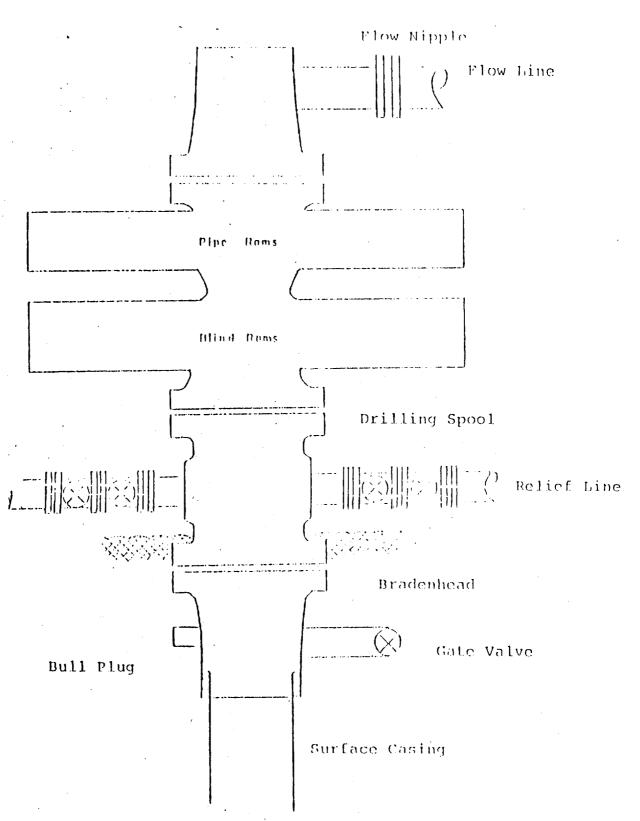
Surface casing (13 3/4" x 9 5/8") - Use 190 sacks of Class "A" cement with 1/4# gel flake per sack and 3% calcium chloride (224 cu. ft. of slurry, 100% excess to circulate to surface). W.O.C. 12 hours. Test casing to 600#/30 Minutes.

Production Casing -

First Stage (4 1/2" x 7 7/8") = Use 96 sks. of 65/35 Class "B" Pozmix and 12% gel mixed with 15.52 gallons of water per sack for a slurry weight of 11.3 pounds per gallon, followed by 100 sacks of 50/50 Class "B" Pozmix, 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu. ft. (378 cu. ft. of slurry, 25% excess to cover Gallup).

Second Stage (4 1/2" x 8 3/4") - W.O.C. and circulate two hours. Cement with 564 sacks 65/35 Class "B" Pozmix and 12% gel, mixed with 15.52 gallons of water per sack for a slurry weight of 11.3# per gallon (1478 cu. ft. of slurry, 50% excess to cover Ojo Alamo). W.O.C. 18 hours. Run temperature survey after 8 hours.





Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling 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.