#### SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

**UNITED STATES** DEPARTMENT OF THE INTERIOR

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EL PASO Natural Gas Company  EL Paso Natural Gas Company  PO Box 990, Farmington, NM 87401  Location for well (Report location dearly and fa accordance with any State requirements.*)  At surface 1190'N, 790'E  At proposed Brod. 2006  At perface Is Milles and Defection from Year Milles and Defection From Year Milles Town on Ford Office.  At proposed Brod. 2006  At perface Is Milles and Defection From Year Milles Town on Ford Office.  At proposed Brod. 2006  At perface Is Milles and Defection From Year Milles Town on Ford Office.  At proposed Brod. 2006  At perface Is Milles and Defection From Year Milles Town on Ford Office.  At proposed Brod. 2006  At perface From February 1 16. No. or Acces In Lease 11. No. or Acces In Milles Acces 12. No. or Acces In Milles In Mille		\s □		SINGLE (**) MULTIPLE (**)					Unit	
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BIME OF HOLE SIZE OF CASING WEIGHT FER FOOT SETTING DEPTH QUANTITY OF CEMENT  13 3/4" 9 5/8" 32.3# 200' 224cu.ft.to circulate  8 3/4" 7" 20.0# 3160' 225cu.ft.to cover Ojo Alar  6 1/4" 4 1/2" 10.5#-11.6# 7770' 708cu.ft.to fill to 3160'  Selectively perforate and sandwater fracture the Dakota formation.  A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well.  This gas is dedicated.  The E/2 of Section 30 is dedicated to this well.  ABOVE SPACE DESCRIBE FROPOSED FROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive ne. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout eventer program, if any.  BIONED J.			BRODOED CASH	NC AND	CEMENTIN	C PROCE		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
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ne. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout eventer program, if any.  SIGNED J. J. L.C.C. TITLE Drilling Clerk DATE February 24, 19  (This space for Federal or State office use)  PERMIT NO	blind and p	oipe rams w	vill be used	d fo	r blow	out p	cevent			
APPROVED BY	ne. If proposal is to deventer program, if any	Irill or deepen direct	ionally, give pertinent	t data o	on subsurface	locations an	d measured	and true vertica	depths. Gi	ve blowout
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\*See Instructions On Reverse Side

# **NEW MEXICO OIL CONSERVATION COMMISSION**

Form C-102

こっつんかとこれ Fred B. Kerr Certificate No. 3950

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Supersedes Col WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-1-6 All distances must be from the outer boundaries of the Section. Operator Well No. El Paso Natural Gas Company (SF-078503) San Juan 29-7 Unit 109 Unit Letter Section Township Range County 30 29N 7V Rio Arriba Actual Footage Location of Well: 1190 North 790 feet from the East feet from the line and line Ground Level Elev: **Producing Formation** Pool Dedicated Acreage: 6L07 Basin Dakota Dakota 320,00 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? Unitization If answer is "yes;" type of consolidation X Yes No 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. 1165 CERTIFICATION I hereby certify that the information contained herein is true and complete to the of my knowledge and belief. Ñame 7901 Drilling Clerk Position El Paso Natural Gas Co. Company February 24, 1977 Date Sec 30 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or SF-078503 under my supervision, and that the same Is true and correct to the best of my knowledge and beilief. February B. Registered Firotessional Engineer Land Surveyor



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

#### Multi-Point Surface Use Plan San Juan 29-7 Unit #109

- 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 thirty feet (30') 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. 1
- 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 and proposed 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 SW/4 Section 9, T-29-N, R-8-W (Manzaneras Mesa Water Well)
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.

- Methods of Handling Waste Materials All garbage and trash 7. 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 #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 green.
- 11. Other Information The immediate area is rough and rocky. The only vegetation is some cedar and pinon trees growing. A few head of cattle and deer 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.

February 25, 1977

D. R. Read

Division Drilling Engineer

pb

#### Operations Plan San Juan 29-7 Unit #109

I. Location: 1190'N, 790'E, Section 30,T-29-N, R-7-W, Rio Arriba County, NM

Field: Basin Dakota <u>Elevation:</u> 6417'DF

### II. Geology:

A.	Formation Tops:	Ojo Alamo Kirtland Fruitland Pic.Cliffs Lewis	2158' 2233' 2783' 3071' 2961'	Point Lookout Gallup Greenhorn Graneros Dakota	5260' 6388' 7293' 7357' 7507'
		Mesa Verde	4722'	Total Depth	7770'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4722', 5260', 6388', 7350' and at Total Depth. Alsogauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

#### III. Drilling:

A. Mud Program: mud from surface to 3160'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

A. Casing Program	: Hole Size	Depth	Casing Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	32.3# H-40
	8 3/4"	3160'	7"	20.0# K-55
	6 1/4"	6500'	4 1/2"	10.5# K-55
	6 1/4"	7770'	4 1/2"	11.6# K-55

B. Float Equipment: 9 5/8" surface casing - Larkin guide shoe (fig.102)

7" intermediate casing - Dowell guide shoe (fig. 50101) and Dowell self-fill insert float valve (fig. 53003), 5 B&W stabilizers (Prod. No. 637085) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" production casing Larkin geyser shoe (fig. 222) and Larkin flapper type float collar (fig. 404 M&F)
- C. Tubing: 7770' of 1 1/2", 2.9#, J-55 10rd EUE tubing with a common pump seating nipple above perforated pup joint with bull plugged full joint for mud anchor on bottom.
- D. Wellhead Equipment: 3000 psi test tree. Wellhead representative to set all slips and cut off casing.

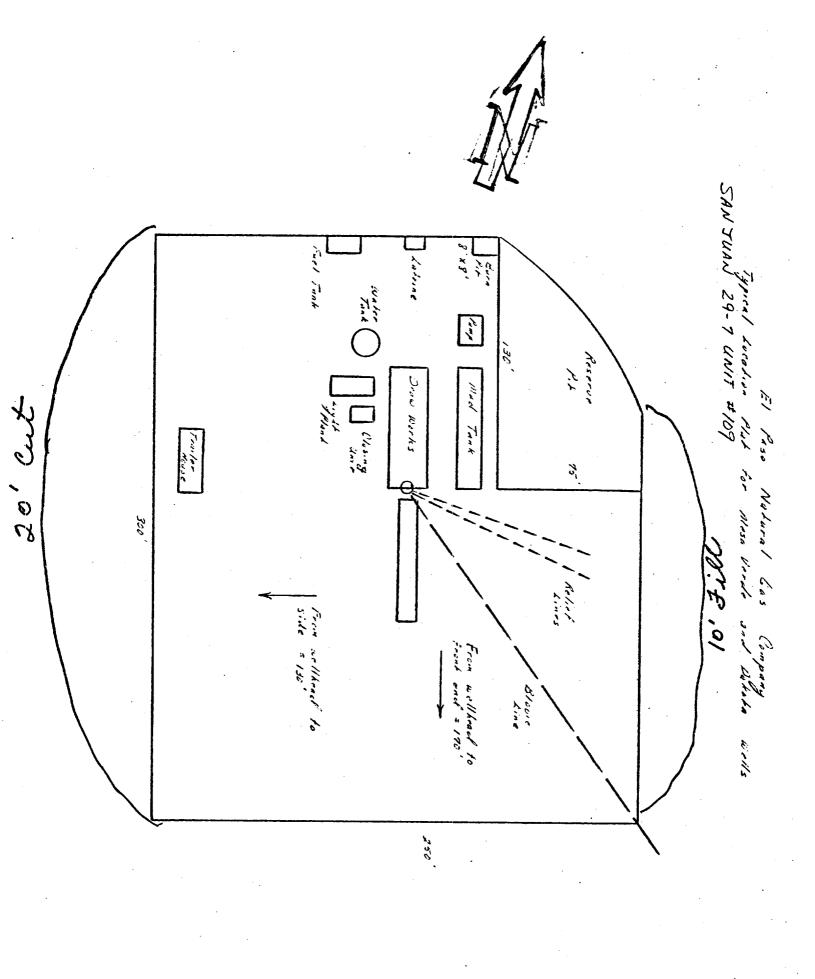
#### V. Cementing:

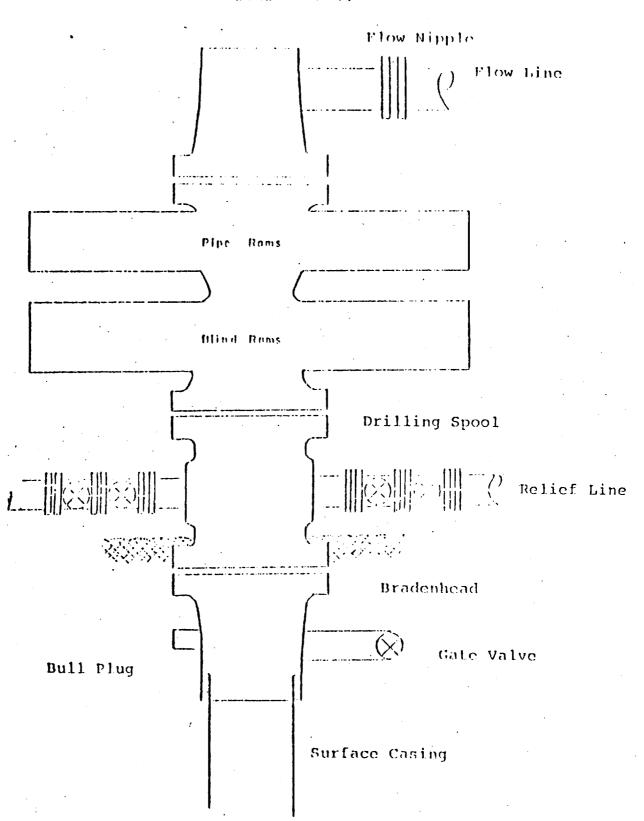
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 142 sks. of 65/35 Class "B" Poz with 12% gel (15.52 gallons of water per sack) followed by 70 sks. of Class "B" with 2% calcium chloride (225 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

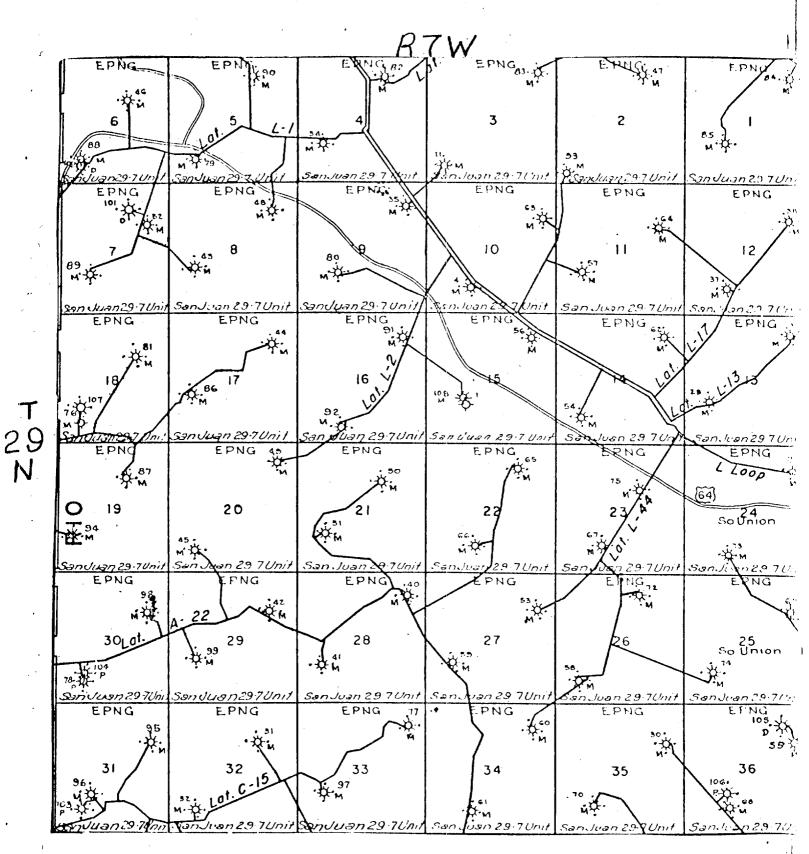
4 1/2" production casing - precede cement with 40 bbls. of gel water (4 sks. gel) cement with 273 sks. of Class "B" with 8% gel, 1/4 cu.ft. fine gilsonite per sack and 0.4% HR-7, followed by 100 sks. of Class "B" with 1/4# fine tuf-plug per sack and 0.4% HR-7 (708 cu.ft. of slurry, 50% excess to fill to intermediate casing). Run temperature survey at 8 hours. WOC 18 hours.

DRR:pb





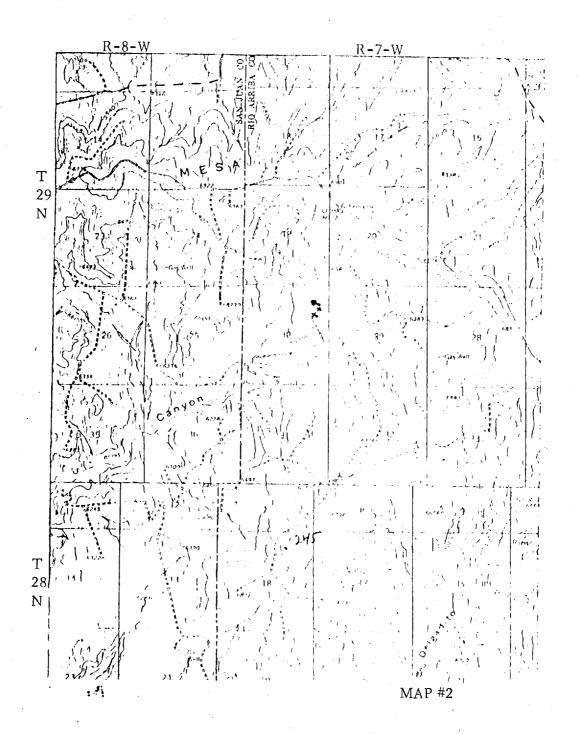
Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



MAP #1

Proposed Pipeline + + +

# EL PASO NATURAL GAS COMPANY SAN JUAN 29-7 UNIT #109 NE 30-29-7



## PROBED OF BLOKE-OF-DARG

RETURNING POADS	
EXICTERS PURPOSE	<del>+</del> + +
EDITORIES ROAD SITE	MITTED-444-
IROPOGED ROADG	
PROLOGED BUILDINGS	+++
$i.dea.o.2En/BOVP \lesssim 4.44$	MINIPI + + + +