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#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

### **UNITED STATES**

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY  APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  1. THE OF WALL  DRILL E. OFFIER  DEEPEN DEEPEN DEEPEN, OR PLUG BACK  1. THE OF WALL  OFFIER DEEPEN DEEPEN, OR PLUG BACK  1. THE OF WALL  OFFIER DEEPEN DEEPEN, OR PLUG BACK  1. THE OF WALL  OFFIER DEEPEN DEEPEN, OR PLUG BACK  1. THE OF WALL  OFFIER DEEPEN DEEPEN, OR PLUG BACK  1. THE OF WALL  OFFIER DEEPEN DEEPEN, OR PLUG BACK  OFFIER DEEPEN DEEPEN, OR PLUG BACK  INTERIOR OF WALL  OFFIER DEEPEN D	(May 1903)		TED STATES	r	r instructions on everse side)	Budget Bureau No. 42-R1425.
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Heaton  PARON Natural Gas Company  ANDRESS OF OFFEATOR  PO Box 289, Trainington, NM 87401  Locardons or will (Report location clearly and in secondance with any State requirements.)  At proposed prod. sone  Same  Same  Same  Some  Som		: <b>: -:</b> -:	DEEL CIA			
El Paso Natural Gas Company  **SPEL NO.** **PRO BOX 289, Farmington, NM 87401  **Location of Wall. (Report location clearly and in accordance with any State requirements.*)  **Location of Wall. (Report location clearly and in accordance with any State requirements.*)  **At proposed prod. some  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **State In Miles And Dissection From Nearest rows on rost office.**  **PROPOSED CASING AND CEMENTING PROGRAM**  **ATTER OF ROST ROST ROST ROST ROST ROST ROST ROST	OIL G	VELL K OTHER		SINGLE X		8. FARM OR LEASE NAME
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Same   NMPM   12. COUNT OR FARIEST TOWN OR FORT OFFICE*   3 miles north of Aztec, NM   10. NO. OF ACRES IN LEASE   12. COUNT OR FARIEST   13. STATE   2475.61   17. NO. OF ACRES AND JUAN   NM   NM   NM   NM   NM   NM   NM	At proposed prod. zoi	•			_	Sec. 29, T-31-N, R-11-
3 miles north of Aztec, NM  DEFENCE FROM PROPOSED  DEFENCE FROM PROPOSED  TO THE MALL MANY  TO 5'  2475.61  17. NO. OF ACRES IN LEASE  TO THIS WALL W  320.00  DEFENCE FROM PROPOSED LOCATION*  (Albo to nearest drig, until line, if any)  DEFENCE FROM PROPOSED LOCATION*  (Albo to nearest drig, until line, if any)  DEFENCE FROM PROPOSED LOCATION*  TO THIS WALL W  320.00  ROCATY  ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  BIER OF HOLE  BIER OF ROLE  PROPOSED CASING AND CEMENTING PROGRAM  BIER OF HOLE  BIER OF ASING  WEIGHT PROPOSED  SETTING DEFTH  QUANTITY OF CEMENT  33.34"  7"  20.0#  2815'  468 cu.ft.to corculate  468 cu.ft.to corculate  A665-5200'  443 cu.ft.to circ.liner  Selectively perforate and sandwater fracture the Mesa Verde 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 W/2 of Section 29 is dedicated to this well, corporate and substrace locations and measured and tree vertice sprayed experiment data on substrace locations and measured and tree vertice sprayed experiment data on substrace locations and measured and tree vertice sprayed experiment. The Drilling Clerk  DATE 7-26-79  THIS MALL W  APPROVAL DATE  APPROV	are proposed prod. 201					
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ELEVATIONS (Show whether DF, RT, GR, etc.)  PROPOSED CASING AND CEMENTING PROGRAM  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT  13 3/4" 9 5/8" 32.3# 200' 224 cu.ft. to circulate  8 3/4" 7" 20.0# 2815' 468 cu.ft. to cover 0jo Al  6 1/4" 4 1/2"liner 10.5# 2665-5200' 443 cu.ft. to circ.liner  Selectively perforate and sandwater fracture the Mesa Verde 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 W/2 of Section 29 is dedicated to this well. Secondary and Coll. Coll.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposery perforantive enter programmal and.  BIGNARD MARK WILL START*  Drilling Clerk  DATE 7-26-79  PREMIT NO.  APPROVAL DATE  PARTO FED BY  TITLE DATE  DATE	TO NEAREST WELL, D	RILLING, COMPLETED,	400'			
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APPROVED BY DATE	(This space for Fede	eral or State office use)	*******			
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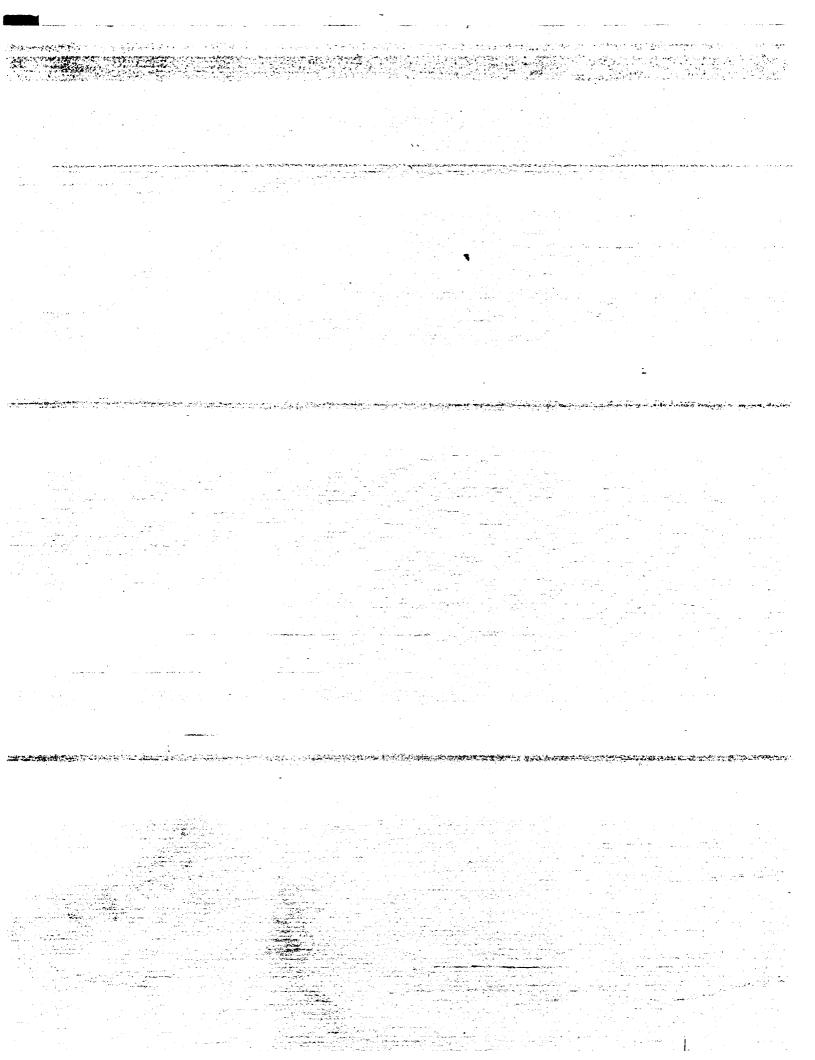
\*See Instructions On Reverse Side

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

#### P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 kevised 10-1-78

Section   Sect	All distances must be from the cuter boundaries of the Section.								
Until Letter   Section   Township   Respect   Page   Page	[ ]			1		(an eage eag)			
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Second Services   Second Se									
1. Outline the acreage dedicated to the subject well by colored pencil or hacture 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 accessary.)  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.  CERTIFICATION  I hereby certify that the intermetion contained brain its true and complete to the best of my knowledge and belief.  Processory  July 26, 1979  Date  29  I hereby certify that the well facation ashown at this plant was platted from feel most of access of actual part was platted from feel not contain the same is true and convision, and that the same is true and convision to the best of my knowledge and belief.  Processory			mie wit	<del></del>	feet fro	om the West	<u> </u>		
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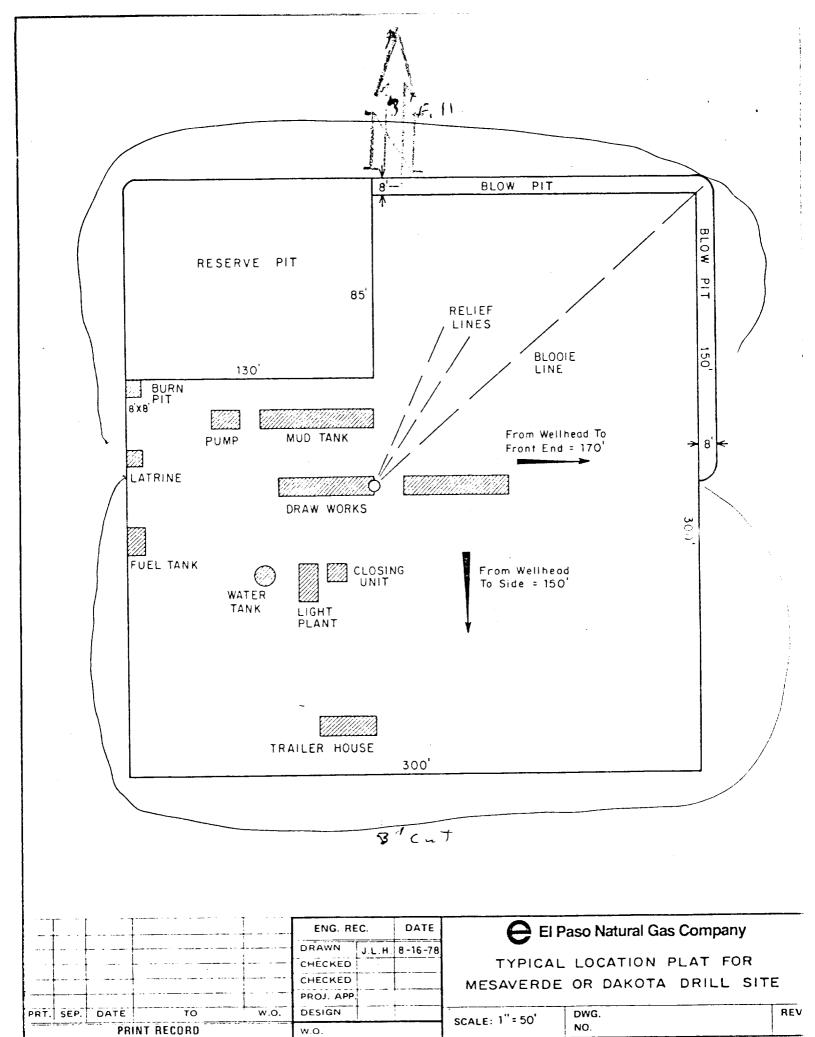
will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over 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 sagebrush flats with sagebrush and cedar growing. Cattle and deer are occasionally seen on the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 13. Certification -

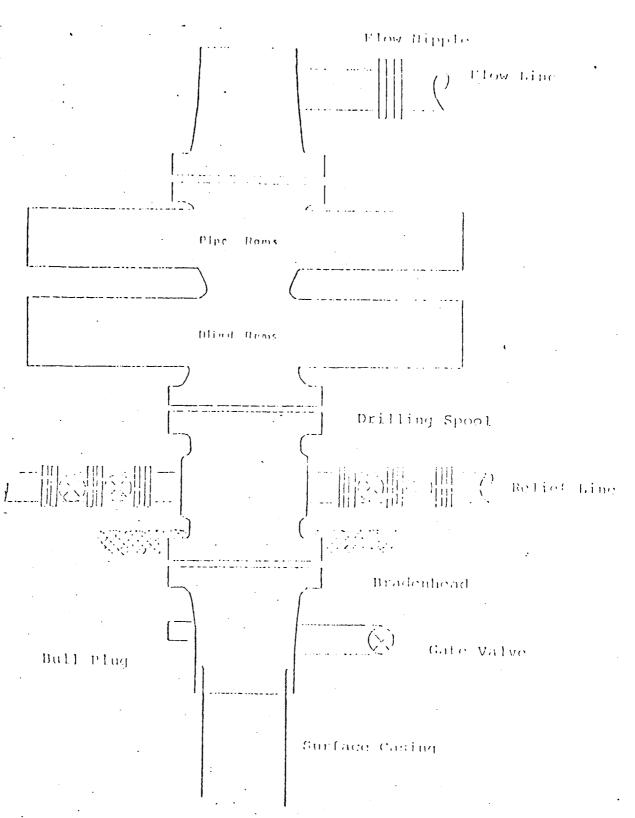
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated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



## Typical B.O.E. Installation for Mena Verde Well



Series 900 Double Gate BOF, 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

#### Operations Plan Heaton #7A

I. Location: 1450'N, 795'W, Section 29, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 5951'GL

#### II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	2615'
			Ojo Alamo	740'	Mesa Verde	3995 <b>'</b>
			Kirtland	875 <b>'</b>	Menefee	4235'
			Fruitland	2085'	Point Lookout	4751 <b>'</b>
			Pic.Cliffs	2455 <b>'</b>	Total Depth	5200 <b>'</b>

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 3985', 4225', 4740' and at Total Depth.
  Also gauge 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 2815'. Gas from intermediate casing to Total Depth.

#### IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt.&Grade
		13 3/4"	200'	9 5/8"	$\overline{32.3}$ # H-40
		8 3/4"	2815'	7"	20.0# K-55
		6 1/4"	2665 <b>-</b> 5200'	4 1/2"	10.5# K-55

B. Float Equipment: 9 5/8" surface casing - B & W guide shoe
 (Prod. No. FC 06-09611-0200)

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Howco self-fill insert float valve (Price Ref.36A&37), 5 Pathfinder stabilizers (Part #107-10) every other joint above shoe. Run float two joints above shoe.

- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar(fig. 404 M&F).
- C. Tubing: 5200' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

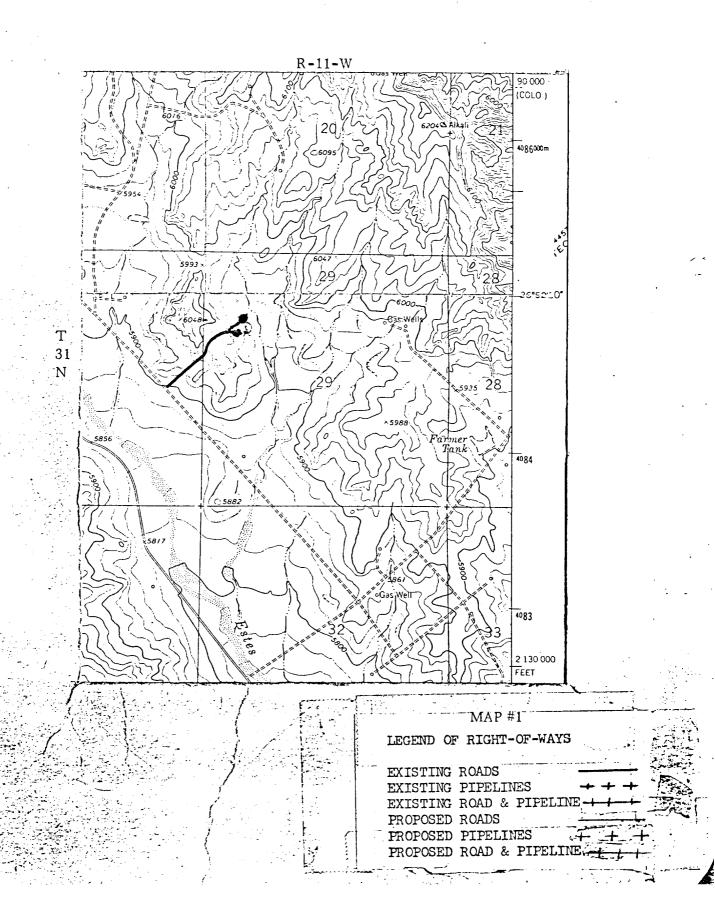
#### V. Cementing:

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 216 sks. of 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack) followed by 100 sks. of Class "B" with 2% calcium chloride (468 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" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 319 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (443 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

# EL PASO NATURAL GAS COMPANY Heaton #7A NW 29-31-11



#### EL PASO NATURAL GAS COMPANY Heaton #7A NW 29-31-11

