SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

	Budget	Bureau	No.	42-R14	2
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UNITED STATES DEPARTMENT OF THE INTERIOR

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I	EASE	DESI	GNATION	AND	SERIAL	NO.
5 I	. O	780	97			

GEOLOGICAL SURVEY					SF 078097	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK DRI b. TYPE OF WELL	LL 🖺	DEEPEN	PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME	
OIL G. WELL. W	AS OTHER		SINGLE X MULTIP	LE	8. FARM OB LEASE NAME Heaton	
	tural Gas Comp	pany			9. WELL NO.	
	, Farmington,				10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde	
4. LOCATION OF WELL (R At surface	eport location clearly and 2300'N, 149		ly State requirements.*)		11. SEC., T., R., M., OR BLK.	
At proposed prod. zon	same				Sett. 25 기가 3발4N,R-11-W NMPM	
2.5 miles r	north of Azteo	c, NM			12. COUNTY OR PARISH 13. STATE San Juan NM	
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	1490'	No. of acres in lease 2475.61		of acres assigned his well 320.00	
					EY OR CABLE TOOLS	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5978 GL					22. APPROX. DATE WORK WILL START*	
23.	PI	ROPOSED CASING	AND CEMENTING PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	I	QUANTITY OF CEMENT	
13 3/4"	9 5/8"	32.3#	200	1	cu.ft. to circulate	
8 3/4"	7"	20.0#	2895		cu.ft.to cover Ojo Alamo	
6 1/4"	4 1/2"line	. T.O. 2#	2745-5260	439 0	cu.ft.to circ.liner	
Selectively	y perforate am	nd sandwate	er fracture the	e Mesa	a Verde formation.	
			for blow out p	revent	equipped with tion on this well.	
This gas is	dedicated.			ECE	1979 AUG 9 1879	
TheW/2 of S	Section 28 is	dedicated	to this well se	OLOGICA.	1979 Julya zone and broposed new productive Many top vertical depths. One blowout	
IN ABOVE SPACE DESCRIBE zone. If proposal is to	PROPOSED PROGRAM: If prodrill or deepen directional	oposal is to deepen o y, give pertinent dat	or plug back, give data on p ta on subsurface locations ar	resent produ	u Glys, zone and proposed new productive Was to vertical depths. Give blowout	

(This space for Federal or State office use)

APPROVAL DATE

CONDITIONS OF APPROVAL, IF ANY:

Drilling Clerk

*See Instructions On Reverse Side

DATE

preventer program, if any.

PERMIT NO.

APPROVED BY

24.

STATE OF NEW MEXICO EMERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

Form C-102 Revised 10-1-78

All distances must be from the cuter houndaries of the Section. Well No. Cperator Lease (SF-078097) EL PASO NATURAL GAS COMPANY HEATON Unit Letter Section 28 31N llW San Juan Actual Footage Location of Well: North 1490 feet from the West feet from the line and Ground Level Elev. Producing Formation Dedicated Acreage: Blanco Mesa Verde 320.00 5978 Mesa Verde 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? If answer is "yes," type of consolidation ___ Yes 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. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Drilling Clerk El Paso Natural Gas Co. Company July 26, 1979 14901 28 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or SF-078097 under my supervision, and that the same is true and correct to the best of my knowledge and belief. #5 Date Surveyed 0 June Registered Frojessional Enginees and/or Lanft Surveyor Fred B. Certificate No

3950



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

Heaton #5A

- 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.
- Location and Type of Water Supply Water for the proposed project will be obtained from Farmers Ditch at Aztec.
- 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 pinon, cedar and sagebrush 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 Heaton #5A

I. Location: 2300'N, 1490'W, Section 28, T-31-N, R-11-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 5978'GL

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Lewis	2695 '
			Ojo Alamo	875 '	Mesa Verde	4055'
			Kirtland	1010'	Menefee	4305'
			Fruitland	2110'	Point Lookout	4808'
			Pic.Cliffs	2510 '	Total Depth	5260 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4045', 4295', 4800' 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 2895'. Gas from intermediate casing to Total Depth.

IV. Materials:

A. Casing Pr	ogram: Hole Si:	ze Depth	Casing Size	e Wt.&Grade
_	13 3/4"	200'	9 5/8"	32.3# H-40
	8 3/4"	2895'	7"	20.0# K-55
	6 1/4"	2745-5260	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.

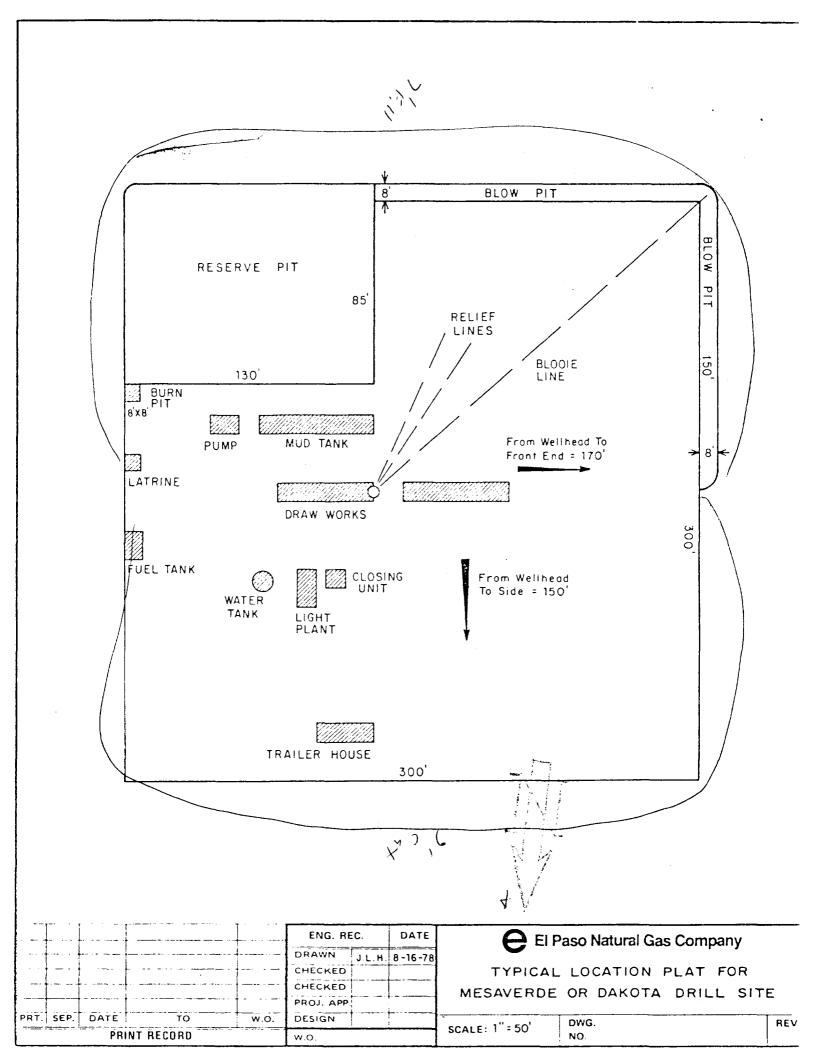
- 4 1/2" liner 4 1/2" liner hanger with neoprene packoff. Larkin geyser shoe (Fig. 222) and Larkin flapper type float collar(fig. 404 M&F).
- C. Tubing: 5260' of 2 3/8", 4.7#, J-55 8rd EUE tubing with a common pump seating nipple one joint above bottom. Tubing will be open ended.
- D. Wellhead Equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

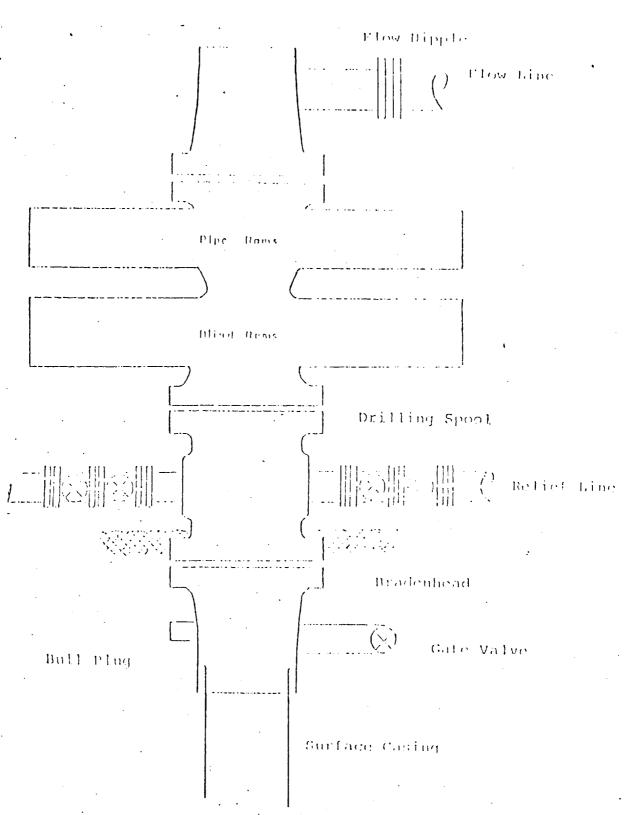
V. Cementing:

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 208 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 (455 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.

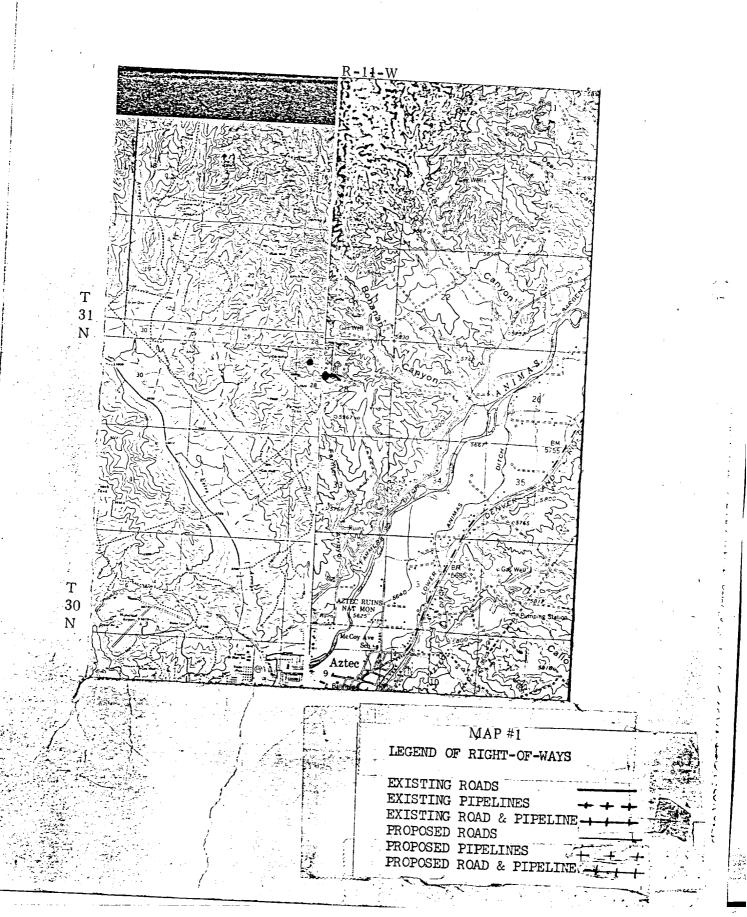
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 316 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (439 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



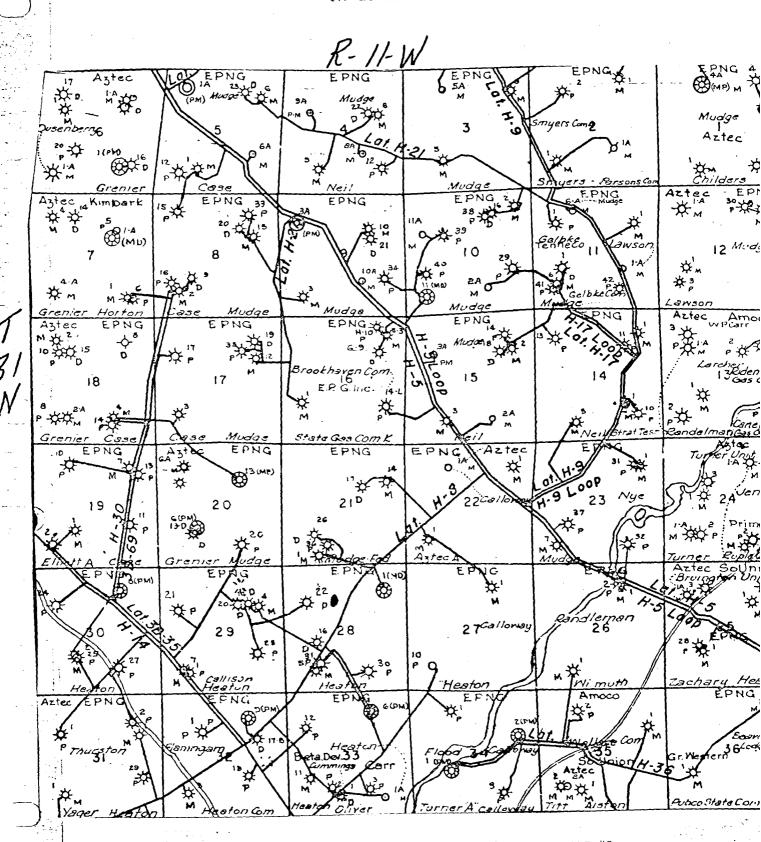


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

EL PASO NATURAL GAS COMPANY Heaton #5A NW 28-31-11



EL PASO NATURAL GAS COMPANY Heaton #5A NW 28-31-11



MAP #2
Proposed Location