SUBMIT IN TRIPLICATE*

(Other Instruction: on reverse side)

Form approved, Budget Bureau No. 42 R1425.

HINITED STATES

DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION AND SERIAL NO.	
	G EOLO		SF 078046			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. Type of work DRI	LL XJ	DEEPEN []	PLUG BA	ск 🗀	7. UNIT AGREEMENT NAME	
b. Type of Well OIL WELL GW W 2. NAME OF OPERATOR	other		SINGLE X MULTIP	r.e	8. FARM OR LEASE NAME Hughes	
El Paso Na 3. ADDRESS OF OPERATOR	itural Gas Co	mpany			9. WELL NO.	
) Farmington	. NM 87401			10. FIELD AND POOL, OR WILDCAT	
PO Box 990, Farmington, NM 87401 4. Location of will (Report location clearly and in accordance with any State requirements.*) At surface 1520'S, 1075'E At proposed prod. zote					Blanco Mesa Verde 11. SEC., T., R., M., OR BLIC. AND SERVEY OR AREA Sec. 29, T-29-N, R-8-W NMPM	
14. DISTANCE IN MILES	AND DESECTION FROM SEAS	CEST TOWN OR POST OF	·1('E*		12. COUNTY OR PARISH 12. STATE	
10 miles East of Blanco					San Juan NM	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST FROPERTY OR LEASE LINE, CT. (Also to nearest drip, unit line, if any)			NO. OF ACRES IN LEASE 2538.24		17. NO. OF ACRES ASSIGNED TO THIS WELL 2320	
18. DISTANCE FROM PROJUSED LOCATION* TO NEARCHT WELL, BUILDING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 200			19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 5635 ROTARY			
21. ELEVATIONS (Show who 6409 GL	ther DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*	
23.		PROPOSED CASING A	ND CEMENTING PROGR.	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEMENT	
13 3/4" 8 3/4"	9 5/8" 7"	32.3#	200' 3290'	224 cu.ft. to circulate 311 cu.ft.to cover Ojo Alam		
6 1/4"	4 1/2"lin€		3140-5635'	435 cu.ft.to fill to 3140'		
Selective	ly perforate	and sandwat	er fracture t	he Mes	sa 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 E/2 of Section 29 is dedicated to this well.

IN ABOVE SPACE DESCRIB: PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if at y.

signer M. J. Bucco	Drilling_Clerk	DATE 12=14=77
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY	TITLE	DATE

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section Operator Lease Well No. (SF-078046) El Paso Natural Gas Company 84 Hughes Unit Letter Hange County 8W San Juan Actual Footage Location of Well: feet from the South feet from the East Ground Level Elev. Producing Formation Dedicated Acreage; 6409 Mesa Verde Blanco Mesa Verde 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? T 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 Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the of my knowledge and belief. Nome POTTlling Clerk ^CŒ4™Paso Natural Gas Co 12-14-77 Sec 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. Date Surveyed November red B. Certificate No.

330

660

1320 1650

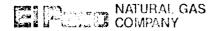
1980 2310

2000

1000

500

3950



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

Multi-Point Surface Use Plan

Hughes #8A

- 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 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.

- 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 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 sage gray.
- 11. Other Information The terrain is sandstone ledges and rolling hills covered with pinon and cedar trees.

 Cattle 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.

December 8, 1977

D. R. Read

Division Drilling Engineer

DRR:pb

Operations Plan Hughes #8A

I. <u>Location</u>: 1520'S, 1075'E, Section 29, T-29-N, R-8-W, San Juan County, NM Field: Blanco Mesa Verde Elevation: 6409'GL

II. Geology:

Α.	Formation	Tops:	Surface	San Jose	Lewis	3090'
			Ojo Alamo	1910'	Mesa Verde	4505'
			Kirtland	2060'	Menefee	4705'
			Fruitland	2670'	Point Lookout	5184'
			Pic.Cliffs	2950 '	Total Depth	5635'

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4495', 4695', 5175' 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 3290'. 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"	32.3 # H-40
		8 3/4"	3290'	7"	20.0# K-55
		6 1/4"	3140-5635'	4 1/2"	10.5# 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" 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: 5635' of 2 3/8", 4.7#, J-55 8rd 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: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 xmas tree.

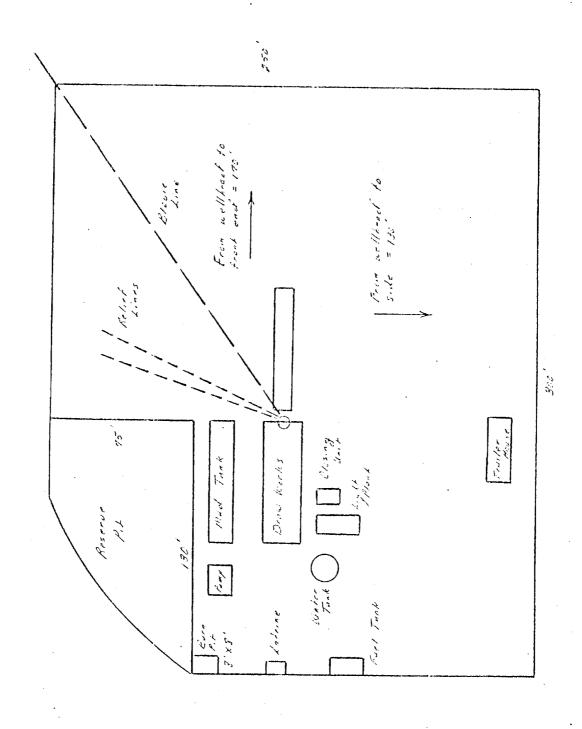
Operations Plan - Hughes #8A, cont'd.

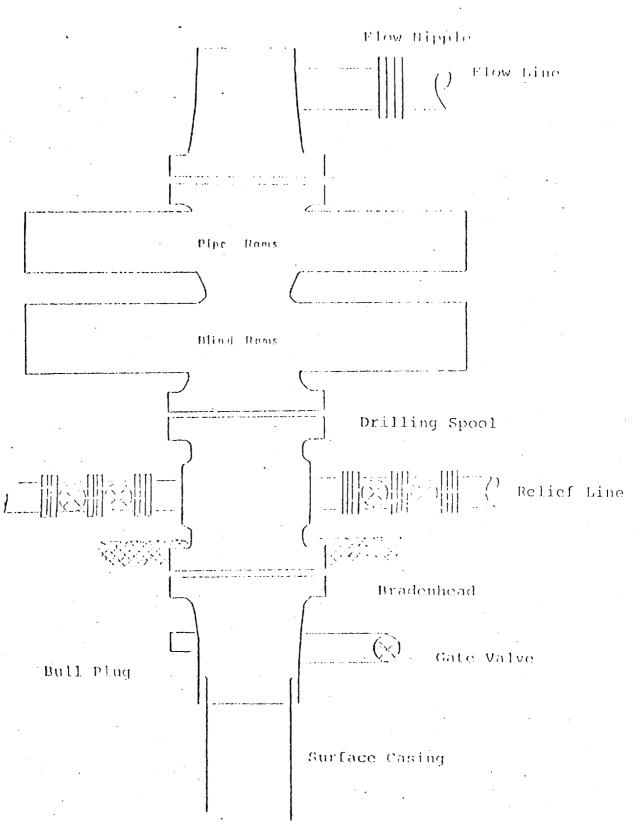
V. Cementing:

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 119 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 (311 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.

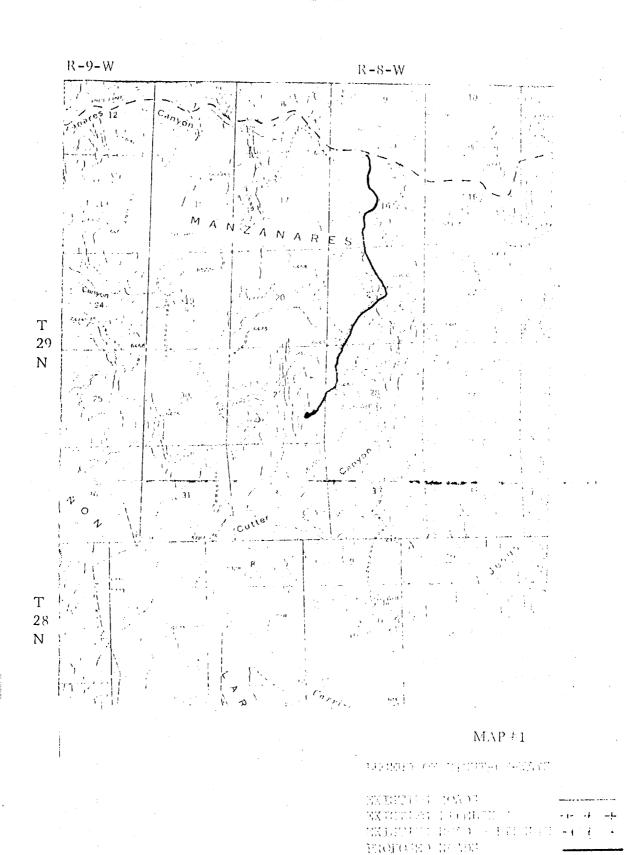
4 1/2" liner - precede cement with 20 barrels of gel water (2 sks. gel) Cement with 24l sks. of Class "B" cement with 4% gel, 1/4 cu.ft. of fine gilsonite per sack and 0.6% Halad-9 (435 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



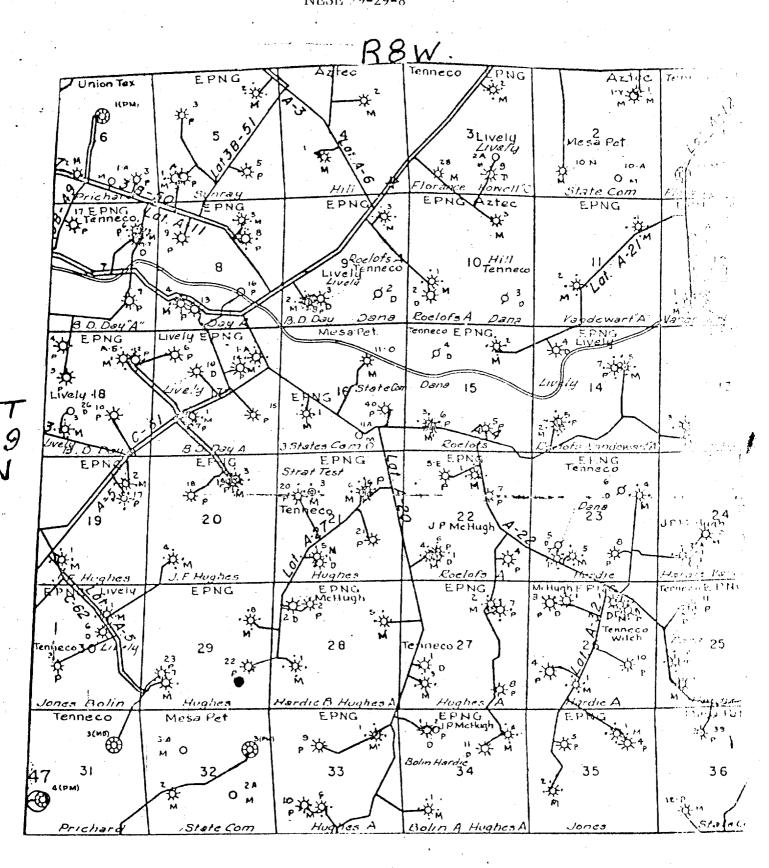


Series 900 Double Gate BOP, rated at 3000 psi Working Pressure When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line

EL PASO NATERAL GAS COMPANY Highes #8A NECE 29-29-8



PROPERTO FARISA PROPERTO PLANT



MAP #2
Proposed Location