SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES ' DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

		045-2357	
5.	LEASE	DESIGNATION AND SERIAL NO).
	CTI	070040	

i.	LEASE	DESIGNATION	AND	SERIA	
	SF	078049			

. TYPE OF WORK		O DRILL, D		, OK I LUC	DAY				
DRI	ILL 🖺	DEEPEN []	PLUG E	BACK		7. UNIT AGREEMENT NAME		
. TYPE OF WELL OIL C	AS K OTHER		SINGLI	K X MU	LTIPLE	п	S. FARM OR LEASE NAME		
NAME OF OPERATOR	ELL OTHER		ZONE	-1	4 K		Hughes A		
	tural Gas Com	pany				ŀ	9. WELL NO.		
ADDRESS OF OPERATOR	carar das com	Pari					4A		
	, Farmington,	NM 8740	1			ŀ	10. FIELD AND POOL, OR WILDCAT		
LOCATION OF WELL (B	teport location clearly and			requirements.*)			Blanco Mesa Verde		
At surface	1700'S, 97		•	•		-	11. SEC., T., R., M., OR BLK.		
At proposed prod. zon	Sec. 34, T-29-N, R-8-								
DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POST	OFFICE*				12. COUNTY OR PARISH 13. STATE		
	st of Blanco,						San Juan NM		
DISTANCE FROM PROP			16. NO. OF	ACRES IN LEASE	s 17	7. NO. O	F ACRES ASSIGNED		
PROPERTY OR LEASE I	T LINE, FT. g. unit line, if any)	970'	10 - 2222	1920'			320.00		
. DISTANCE FROM PROF TO NUAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	3000'					TARY OR CABLE TOOLS		
6483 GR	ether DF, RT, GR, etc.)				,		22. APPROX. DATE WORK WILL START*		
	I	PROPOSED CASING	G AND CI	EMENTING PRO	GRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH			QUANTITY OF CEMENT		
	9 5/8"	32.3#		200'	<u> </u>	24 C	u.ft. to circulate		
	7"	20.0#		3400'					
8 3/4" 6 1/4"	4 1/2"line	I					cu.ft.to cover Ojo Al		
Selectively	 y perforate a			50-57 05' racture 1	l		u.ft.to fill to 3400 Verde formation.		
A 3000 psi blind and p This gas is The E/2 of	WP and 6000 pipe rams wil s dedicated. Section 34 i	nd sandwar psi test o l be used	ter for double for 19 0N 00 0N	racture for the gate problem out	the M	Mesa nter vent	equipped with ion on this well.		
A 3000 psi blind and put this gas is The E/2 of ABOVE SPACE DESCRIBENCE. If proposal is to eventer program, if an	WP and 6000 pipe rams wil s dedicated. Section 34 is proposed program: If drill or deepen directions	nd sandwar psi test o l be used	ter for double for 19 0N 00 0N	racture for the gate problem out	the M	Mesa nter vent	Verde formation. equipped with ion on this well.		
A 3000 psi blind and particle a	WP and 6000 pipe rams wil s dedicated. Section 34 is proposed program: If drill or deepen directions	psi test of the used of the us	ter for double for 19 0N 00 0N	racture for the gate problem out	the M	Mesa nter vent	Verde formation. equipped with ion on this well.		
A 3000 psi blind and part of the E/2 of above space describe. If proposal is to eventer program, if an analysis of the space of the spa	WP and 6000 pipe rams wil s dedicated. Section 34 is proposed program: If drill or deepen directions	psi test of the used of the us	double for 1	this we	the M	Mesa nter vent	Verde formation. equipped with ion on this well.		
A 3000 psi blind and publind and publind and publind and published and p	WP and 6000 pipe rams wills dedicated. Section 34 is proposed program: If drill or deepen directions are supposed.	psi test of te	double for 19	this we	the Mrever prevented the preve	Mesa nter yent	Verde formation. equipped with ion on this well. uctive zone and proposed new productive and true vertical depths. Give blowout		

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-123 Effective 1-1-65

All distances must be from the outer boundaries of the Section. Operator Well No. EL PASO NATURAL GAS COMPANY (SF-078049) HUGHES "A" Township I 34 29N San Juan Actual Footage Location of Well; feet from the South 970 line and East Ground Level Elev. Producing Formation Pool 6h83 Mesa Verde Blanco Mesa Verde 320.00 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 ____ 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. A #4 Lead Drilling Clerk ElsiPaso Natural Gas Co. Jary20, 1978 Sec 34 I hereby certify that the well location shown on this plat was platted from field SF-078049 notes of actual surveys made by me or 9701 under my supervision, and that the same is true and correct to the best of my knowledge and belief. OIL CON. COM DIST. 3 Fre Certificate

3950



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan Hughes A #4A

- 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 Manzaneras 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,

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 high sandstone ledges and timbered ledges with pinon and cedar growing. Deer graze 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.



D. C. Walker

Project Drilling Engineer

Operations Plan Hughes A #4A

I. Location: 1700'S, 970'E, Section 34, T-29-N, R-8-W, San Juan County, NM

Field: Blanco Mesa Verde Elevation: 6483'GR

II. Geology:

Α.	Formation Tops:	Surface	San Jose	Lewis	3200 '
	-	Ojo Alamo	2100'	Mesa Verde	4648'
		Kirtland	2213'	Menefee	4805 '
		Fruitland	2783 '	Point Lookout	5255 '
		Pic.Cliffs	3053 '	Total Depth	5705 '

- B. Logging Program: GR-Ind. and GR-Density at Total Depth.
- C. Coring Program: none
- D. Natural Gauges: 4638', 4795', 5245' 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 3400'. Gas from intermediate casing to Total Depth.

IV. Materials:

Α.	Casing	Program:	Hol	e Size	De	pth	Casing	Size	Wt.&G	rade
	_	-	13	3/4"	2	00'	9 5/8"		32.3#	H-40
			8	3/4"	34	00'	7"		20.0#	K-55
			6	1/4"	3250-	·5705 '	4 1/2"		10.5#	K-55

7" intermediate casing - Pathfinder guide shoe (Part #1003-1-007) and Pathfinder self-fill insert float valve (Part #2010-6-007), 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. Pathfinder geyser shoe (Part #2017-1-050) and Larkin flapper type float collar (fig. 404 M&F).
- C. Tubing: 5705' 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:

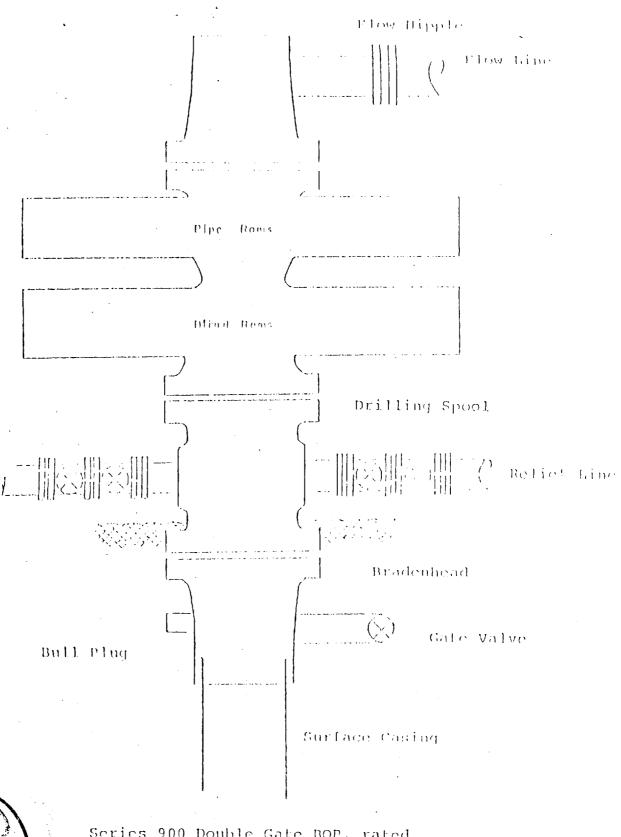
9 5/8" surface casing - use 190 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600#/30 minutes.

7" intermediate casing - use 108 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 (293 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 308 sks. of 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (428 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.



Typical N.O.E. Fastallation for Mega Verde Well.

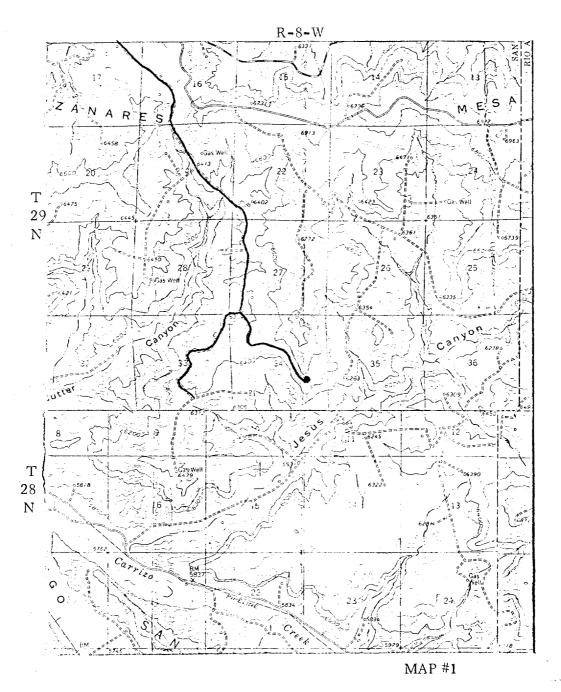


JUL 2.5 1978 OIL COM. COM. DIST. 3

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

from a ellhoof to 717 Well Name: Thughest A#4A Fill 4xt Nerwool 643 Cut 6 ft Drow Rocks Mad Tonk 1361

EL PASO NATURAL GAS COMPANY Hughes A #4A SE 34-29-8





LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS

EXISTING PIPELINES + + +

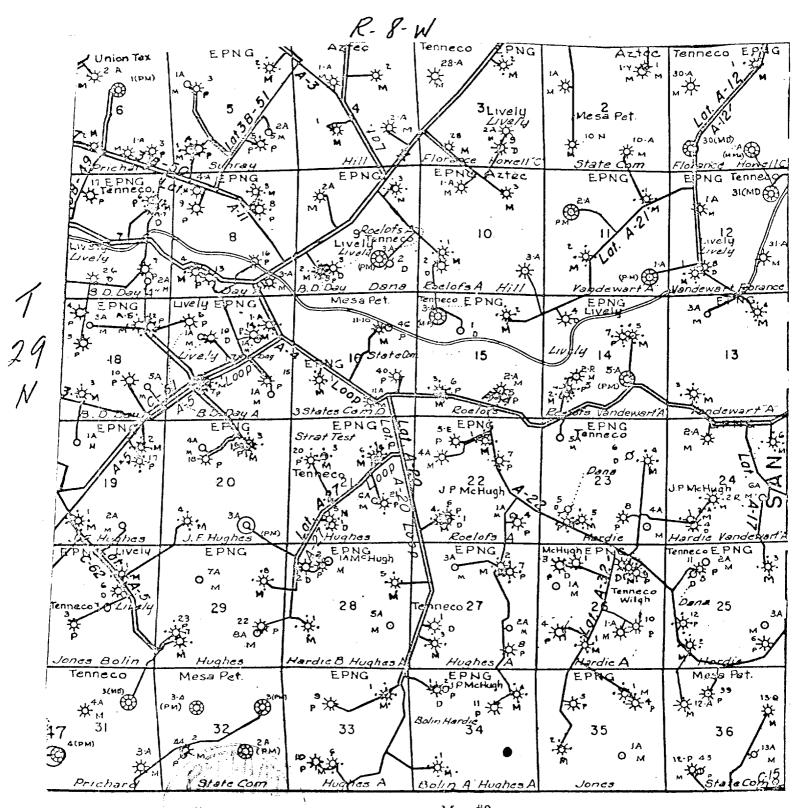
EXISTING ROAD & PIFELINE + +

PROPOSED ROADS

PROPOSED PIPELINES + + +

PROPOSED ROAD & PIPELINE + +

EL PASO NATURAL CAS COMPANY Hughes A #4A SE 34-29-8



Map #2 Proposed Location ●