SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30-045 34053 5. Lease designation and serial no.

<u> </u>		OGICAL SURVEY			NM 03541		
	N FOR PERMIT	TO DRILL, DEEP	PEN, OR PLUG B	<u>ACK</u>	6. IF INDIAN, ALLOTTER	OR TRIBE NAME	
1a. TYPE OF WORK DR b. TYPE OF WELL	7. UNIT AGREEMENT NAME						
OIL G	AS OTHER		SINGLE MULTIP	re 🗌	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR		7			Hancock 9. WELL NO.		
EI PASO N 3. ADDRESS OF OPERATOR	Matural Gas (Company			7E		
PO Box 28 4. LOCATION OF WELL (R At surface	39, Farmingto	on, NM 87401 ad in accordance with any	State requirements.*)		10. FIELD AND POOL, O		
At proposed prod. 201	1720'S, I	1670'E			11. SEC., T., R., M., OR I AND SURVEY OR AS SEC. 30, T-2 NMPM	BLK. EA	
14. DISTANCE IN MILES		AREST TOWN OR POST OFFI	CE*		12. COUNTY OR PARISH	13. STATE	
9.5 miles	s southeast o	of Blanco, NM			San Juan	NM	
15. DISTANCE FROM PROP LOCATION TO NEARES	T	16. P	O. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	1	
(Also to nearest drl	g. unit line, if any)	1670	622.74	5/ 307.74			
	RILLING, COMPLETED,	1000	69.50 **		ARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH		1000	6526	Rota	RK WILL START		
6203'GL							
23.		PROPOSED CASING AN	D CEMENTING PROGRA	M	· · · · · · · · · · · · · · · · · · ·		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	<u> </u>	QUANTITY OF CEMENT		
13 3/4"	9.5/8"	36.0#	200'	224 cu.ft. to circulate			
8 3/4"&			6950'	1	1553 cu.ft 3 stages		
7 7/8"		11.6#					
Selective A 3000 ps blind and ADDITION GLASS U.S.G.S. HATTER The S/2 C	ely perforate i WP and 600 d pipe rams v is dedicated ATTOR DATA CARROLL of Section 30 E PROPOSED PROGRAM: I drill or deepen directio	00 psi test d vill be used 1 70 MSW MEXICO 0 0, 1870. 1 is dedicated proposal is to deepen or	er fracture to the state of the	event Prove 1079	er equipped ntion on thi	with s well.	
SIGNED	y. Busi	CO TITLE	Drilling	Cler	DATE	27-79	
(This space for Fed	eral or State office use)					1	
PERMIT NO.			APPROVAL DATE			` \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
APPROVED BY		TITLE			DAJE DEC		
CONDITIONS OF APPRO	in 1937 of the speed of	-			OIL	DIST- 3	
ee skut he oon MCCNERAL REQUI	DATIA ETIN 30 ALTAC	HED	s On Reverse Side				
NWU	-459	1888	A C CO				

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO CHERCY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-78

All distances must be from the cuter boundaries of the Section.

Cperator	·		Lease		-		Well No.
•	TURAL GAS CO	ΜΡΔΝΥ	HANC	OCK	(NM-	03541)	7-E
Unit Letter	Section	Township	Rang		County	<u> </u>	1 (-1)
J	30	28N		9W	San	Juan	_
Actual Footage Loc							
1720		outh line on		fee	t from the	East	line
Ground Level Elev. 6203	Producing Fo	rmation	Pool	Basin Dako	ta		Dedicated Acreage: 302.74 Acres
2. If more th		ated to the subject		-			plat below.
	ommunitization,	different ownership i unitization, force-po- unswer is "yes;" type	oling.etc?				all owners been consoli-
this form i No allowat	f necessary.) ble will be assign	ned to the well until	all interests	s have been c	onsolidate	ed (by comm	unitization, unitization, approved by the Commis-
	1					tained here	rtify that the information con- in is true and complete to the knowledge and belief.
	· +						ling Clerk
·		Se c.	OF	1 (1016) 1 (1016) 1 (1016)			ember 27, 1979
#	7	30 NM-03541		1670'		shown on the notes of ac- under my se	ertify that the well location his plat was plotted from field trual surveys made by me or upervision, and that the same discorrect to the best of my and belief.
	 		1720'			Registered Frankfor Land	oer 14, 1979 clessional Equineer privately to the control of the c
			200 1500	1000 50		Certificate No.	7/2/0/ /



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

Multi-Point Surface Use Plan

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Hancock #7E

- 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 San Juan River.
- 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, juniper, sage and bitter brush growing. 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

Operations Plan - Hancock #7E

I. Location: 1720'S, 1670'E, Section 30, T-28-N, R-9-W, San Juan County, NM

Field: Basin Dakota <u>Elevation:</u> 6203'GR

II. Geology:

- A. Formation Tops: Surface San Jose Menefee 3988' Ojo Alamo 1300' Point Lookout 4590' Kirtland 1415' Gallup 5**7**93' Fruitland 2085 Greenhorn 6557' Pic.Cliffs 2320' Graneros 6614' Lewis 2385' Dakota 67351 Mesa Verde 3886' Total Depth 6950'
- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none

III. Drilling:

A. Mud Program: mud from surface to Total Depth.

IV. Materials:

A. Casing Program:	Hole Siz	e <u>Depth</u>	Csg.Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	36.0# H-40
	8 3/4"	5290'	4 1/2"	10.5# K-55
	7 7/8"	6500'	4 1/2"	10.5# K-55
	7 7/8"	6500-6950'	4 1/2"	11.6# K-55

- B. Float Equipment: 9 5/8" surface casing cement guide shoe
 - 4 1/2" production casing guide shoe and self-fill insert valve Two multiple stage cementers equipped for three stage cementing. Set tool for second stage at 5190' and tool for third stage at 2485'. Run 20 centralizers spaced as follows: one on each of the bottom 8 joints, one below each stage tool, and five above each stage tool spaced every other joint.
- C. Tubing: 6950'of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple and Baker expendable check valve with drill type guide.
- D. Wellhead Equipment: 9.5/8" x 10" 2000 casing head with 4.1/2" casing hanger, 10" 2000 x 6" 2000 xmas tree with 2.3/8" tubing hanger. Wellhead representative to set all slips and cut off casing.

V. Cementing:

Surface casing (13 3/4" x 9 5/8") - 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). WOC 12 hours. Test to 600#/30 min.

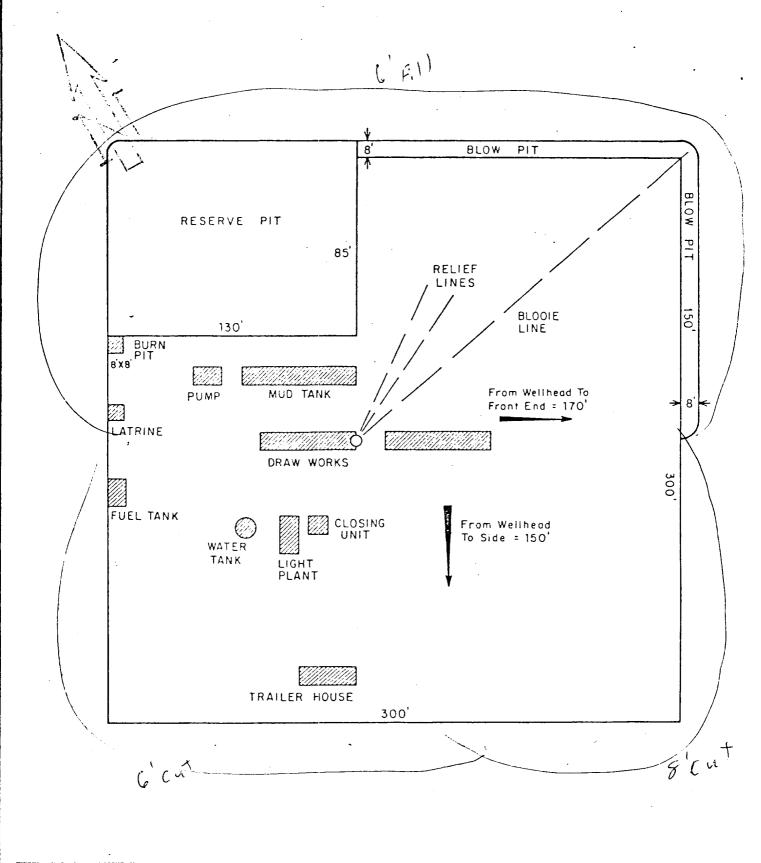
V. Cementing, cont'd.

Production casing - $(8 \ 3/4" \& 7 \ 7/8" \times 4 \ 1/2")$

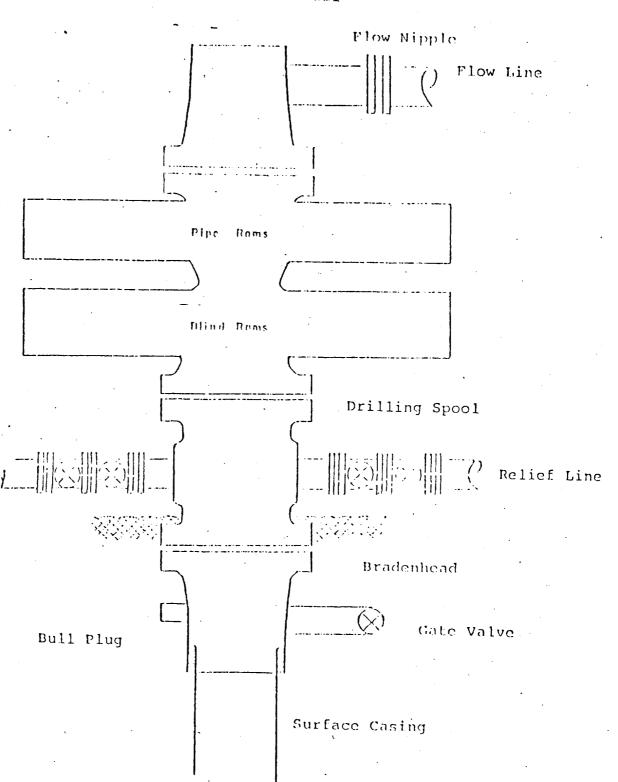
First stage - use 145 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 75 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (329 cu.ft. of slurry, 25% excess to cover the Gallup).

Second stage - circulate mud for 2 hours, then cement with 396 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (641 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

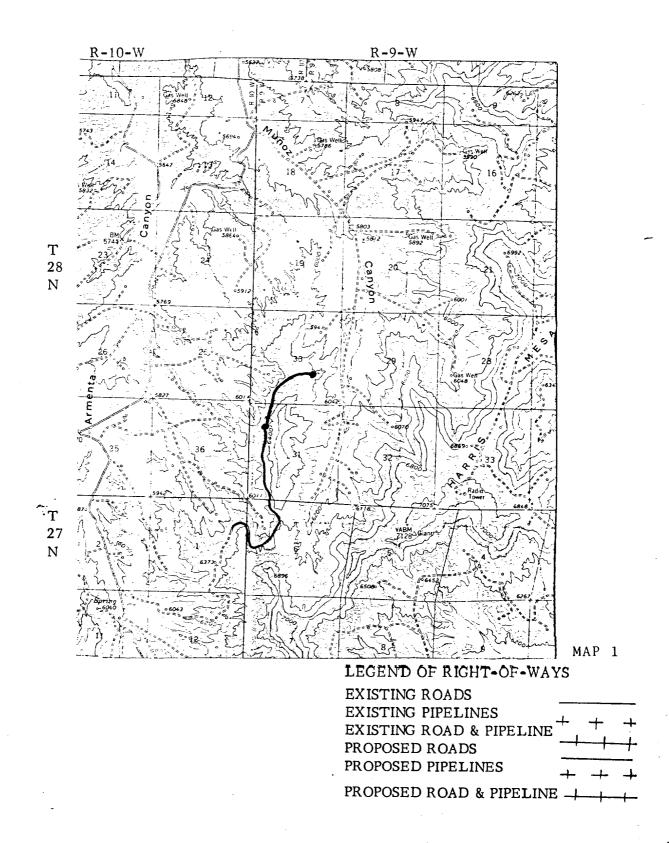
Third stage - circulate mud for 2 hours, then cement using 360 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (583 cu.ft. of slurry, 60% excess to fill to base of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.



					ENG. REC. DATE		El Paso Natural Gas Company	
 PRT.	SEP.	DATE	10	w.o.	DRAWN J.L.H CHECKED CHECKED PROJ. APP	8-16-78	TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE	
7		<u></u>	T RECORD		W.O.	<u>'</u>	SCALE: 1" = 50' DWG. NO.	REV

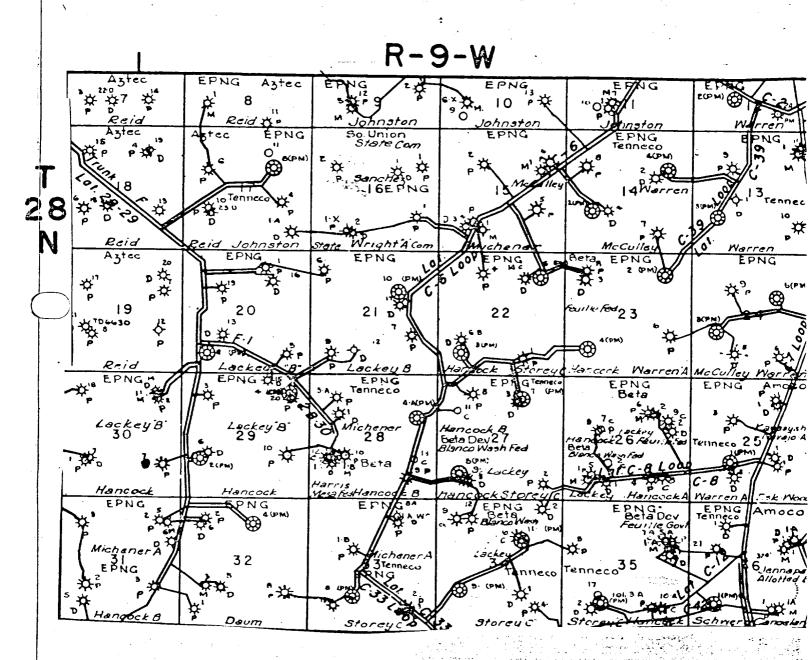


Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type
50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.





El Paso Natural Gas Company Hancock #7E SE 30-28-9



MAP 2

Proposed Location