SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side) UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30 - 645 - 340 78
5. LEASE DESIGNATION AND SERIAL NO.

	SF 077107A				
APPLICATION	FOR PERMIT T	O DRILL, DEE	PEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
DRI	LL X	DEEPEN [PLUG BAC		7. UNIT AGREEMENT NAME
O. TYPE OF WELL OIL GA	S X OTHER		SINGLE MULTIP	LE	S. FARM OR LEASE NAME
NAME OF OPERATOR	ELL X OTHER		DON'S COMP		Hancock B
El Paso Na	atural Gas Co	mpany			9. WELL NO.
ADDRESS OF OPERATOR					5E
PO Box 289	, Farmington	, NM 8740	<u> </u>		10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Re	eport location clearly and	in accordance with an	y State requirements.*)		Basin Dakota
At surface	1450'S, 11	.60 ' E	•		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	e				Sec.31,T-28-N,R-9-
	same		nvomå.		NMPM 12. COUNTY OR PARISH 13. STATE
	AND DIRECTION FROM NEAR		FICE		
11 miles s	southeast of		NO. OF ACRES IN LEASE	17. No.	San Juan NM OF ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE L		1160	1222.97		S/302.97 320.97
(Also to nearest drig 3. DISTANCE FROM PROP	; unit line, if any)		. PROPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS
TO NEAREST WELL, DO OR APPLIED FOR, ON THE	RILLING, COMPLETED,	300'	6800 '	Rota	ry
. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START
6094'GL		PROPOSED CASING	AND CEMENTING PROGR.	AM	
		,			QUANTITY OF CEMENT
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	224	
13 3/4"	9 5/8"	36.0# 10.5#&	200 '	F.	cu.ft. to circulate cu.ft 3 stages
<u>8 3/4"</u> 7 7/8"	4 1/2"	11.6#		1240	Cu.i.c. = J. stayes
lst stage 2nd stage 3rd stage A 3000 ps blind and This gas	- 337 cu.ft 645 cu.ft 364 cu.ft. i WP and 6000 pipe rams with is dedicated. f Section 31 E PROPOSED PROGRAM: If drill or deepen direction	to cover (to cover (to cover () psi test (ill be used	Gallup Mesa Verde Djo Alamo double gate pr for blow out	event preve	er equipped with ntion on this vell.
SIGNED .	J. Susce	TITLE	Drilling	Cler	k DATE 11-27-79
(This space for Fed	eral or State office use)				
PERMIT NO.			APPROVAL DATE		
					n.me
APPROVED BY		TITLE			DATE

NW4-458

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

All distances must be from the cuter boundaries of the Section.							
Cherator EL PASO NATURAL GAS COMPANY		Lease HANCO	OCK "B"	(s	F-077107-	A) Well No.	
Unit Letter S	ection To	vnshir 28N	Range	7 W	County San	Juan	
	on of Well: feet from the South	line and	1160	fee	t from the	East	line
Ground Level Elev. 6094	Producing Formation Dakot a	'n	P∞l Basin	n Dakota		-	Dedicated Acreage: 302.97
	acreage dedicated one lease is ded royalty).						e plat below. ereof (both as to working
dated by com	nmunitization, uniti	zation, force-pooli	ng. etc?		have the	interests of	all owners been consoli-
Yes		r is "yes," type o					
this form if n No allowable	will be assigned to	the well until all	interests	have been c	onsolidat	ted (by comm	nunitization, unitization, approved by the Commis-
							CERTIFICATION
			8 8 8 1			tained here	ertify that the information con- ein is true and complete to the knowledge and belief.
	- 	_	— — — - 			Norme Dril	lling Clerk
	1					T	Paso Natural Gas Co.
			The same of the sa			Company Nov	vember 27, 1979
	Sec.					J	
	 	-077107-A	16 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	© 1160)'	shown on to notes of a under my s is true an	certify that the well location his plat was plotted from field ctual surveys made by me or upervision, and that the same d correct to the best of my and belief.
B #5 ⊙		60	7 70	1450 max		Date Surveye Septin Heat Name I	ნლე 23, 1979 წელები ნიცნილი
					× K	Fred B	Refr r.

14505 1160E

EFFEED NATURAL GAS

Unortho Dox

4565

P. O. Georgiano F. Affanti-Green, M. Cross, victor (1730) PHOME (1800) Commons

Well Name Hancock BHJE	·
Location <u>SE31</u> 28-9	
Formation b/	
We, the undersigned, have inspected this location	and road
	and soud.
U. S. Forest Service	Date
Archaçologist FORO	9 25 7 9 · Date
Bureau of Indian Affairs Representative Bureau of Land Management Representative	Date 9/28/25
2 -1)	Date /
U. S. Geological Survey Representative Unorthodox location beause of loc well and rim rock topps raphy.	Date ation of existing
Seed Mixture:	(4)
Equipment Color: Brown	
Road and Row: (Same) or (Separate)	
Remarks:	



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

Multi-Point Surface Use Plan

Hancock B #5E

- 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. Pranned 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 canyon bottom with pinon, sage and juniper growing. Cattle, deer and horses 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 B #5E

I. Location: 1450'S, 1160'E, Section 31, T-25-N, R-9-W, San Juan County, NM

Field: Basin Dakota Elevation: 6094'GR

II. Geology:

A. 1	Formation Tops:	Surface	San Jose	Menefee	3815'
		Ojo Alamo	1185'	Point Lookout	4435'
		Kirtland	1310'	Gallup	5616 '
		Fruitland	1935'	Greenhorn	6381'
		Pic.Cliffs	2160'	Graneros	6439'
		Lewis	2235 '	Dakota	6555 '
		Mesa Verde	3725 '	Total Depth	6800'

- 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 Size	Depth	Csg.Size	Wt.&Grade
	13 3/4"	200'	9 5/8"	36.0# H-40
	8 3/4"	5135'	4 1/2"	10.5# K-55
	7 7/8"	6500'	4 1/2"	10.5# K-55
	7 7/8"	6500-6800'	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 5035' and tool for third stage at 2335'. 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: 6800' 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.

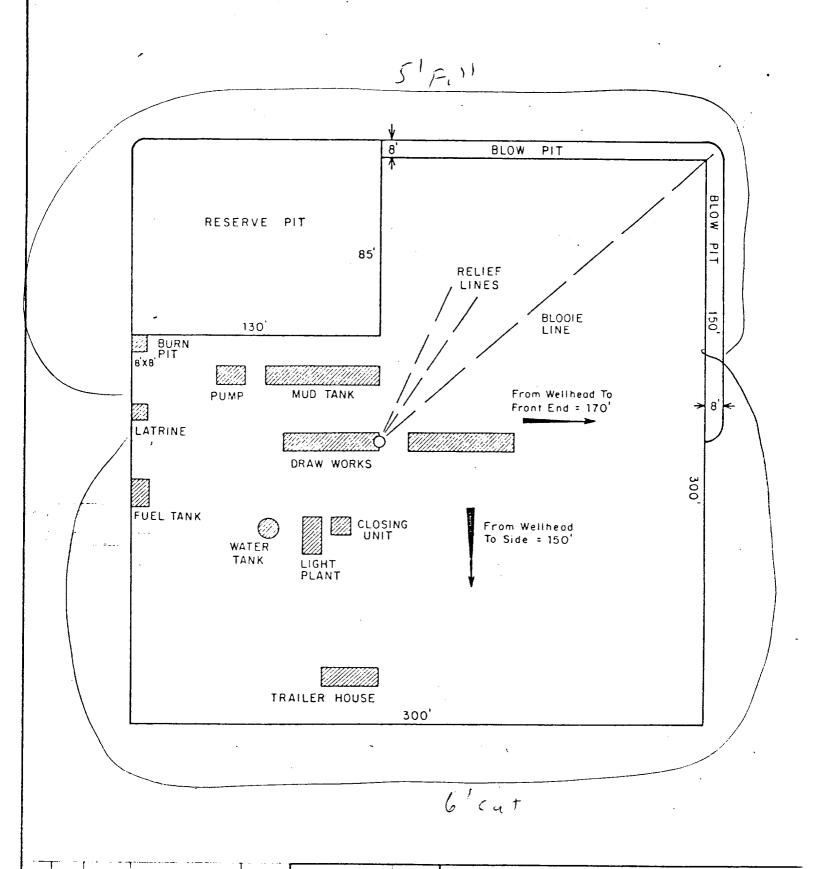
V. Cementing, cont'd.

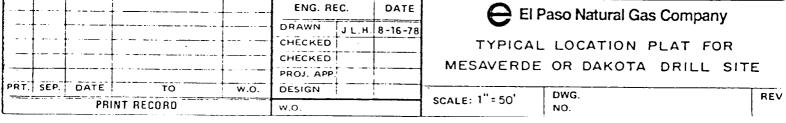
Production casing - (7 7/8" & 8 3/4" x 4 1/2")

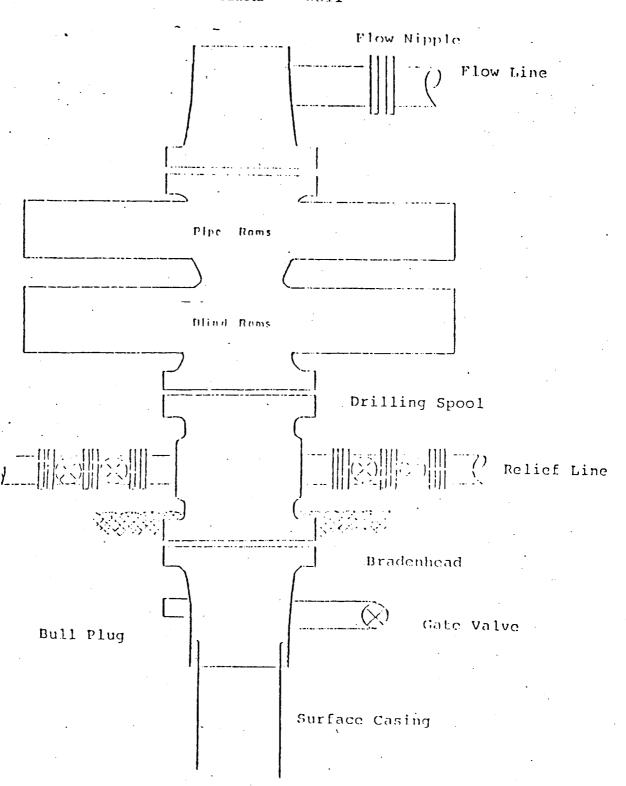
First stage - use 146 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 80 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (337 cu.ft. of slurry, 25% excess to cover the Gallup).

Second stage - circulate mud for 2 hours, then cement with 398 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (645 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

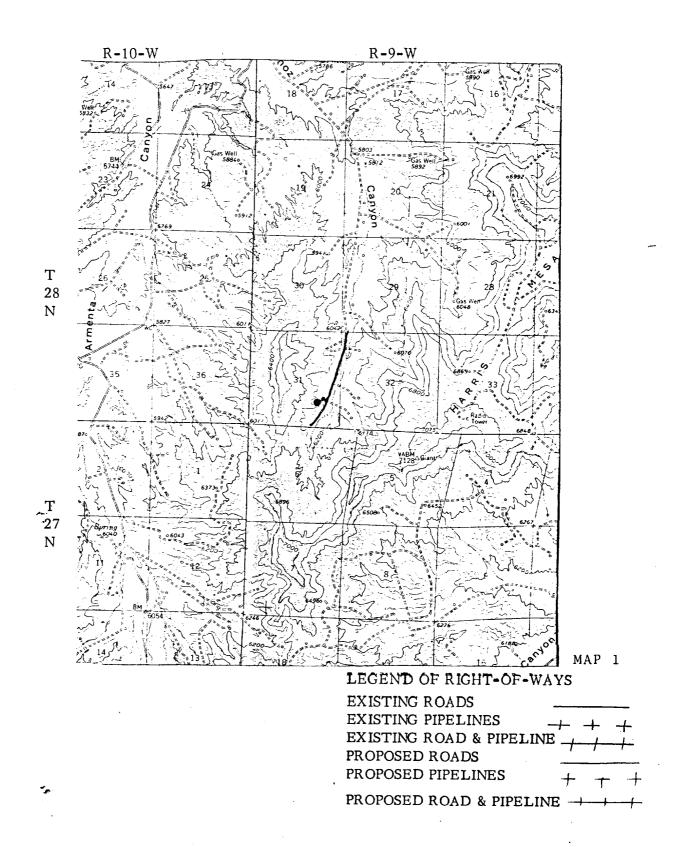
Third stage - circulate mud for 2 hours, then cement using 225 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (364 cu.ft. of slurry, 60% excess to fill to base of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.



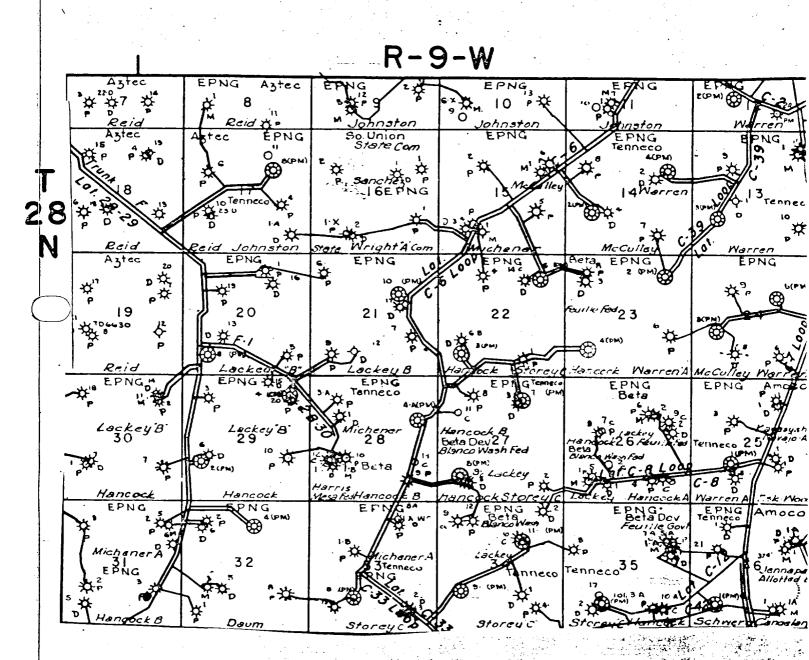




Scries 900 Double Gate BOP, rated at 3000 psi Working Pressure
When gas drilling operations begin a Shaffer type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.



El Paso Natural Gas Company Hancock B #5 E SE 31-28-9



MAP 2

Proposed Location