SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

• • • • • • • • • • • • • • • • • • • •	ED STATES OF THE INTER	reverse si	ide) (30-045	
GEOLO	5. FEASE DESIGNATION AND SERIAL NO. SF 077107				
APPLICATION FOR PERMIT		EN. OR PLUG B	ACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK DRILL b. TYPE OF WELL	DEEPEN	PLUG BA		7. UNIT AGREEMENT	NAME
OIL GAS WELL OTHER		NGLE X MULTIP	LE _	8. FARM OR LEASE N	_
2. NAME OF OPERATOR	222			Michener A	<u> </u>
El Paso Natural Gas Com 3. ADDRESS OF OPERATOR	.pany			9. WELL NO. 6E	
PO Box 289, Farmington,	NM 87401			10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (Report location clearly and At surface		state requirements.*)		Basin Dako	ota 🗸
At proposed prod. zone same	'W			11. SEC., T., R., M., OF SEC. 31, TE2 NMPM	
14. DISTANCE IN MILES AND DIRECTION FROM NEAR	REST TOWN OR POST OFFIC	E		12. COUNTY OR PARIS	н 13. STATE
10 miles Bloomfield, NM				San Juan	NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)	300 T 6. NO	783.22	17. NO. O TO TH	F ACRES ASSIGNED	//303.22
18. DISTANCE FROM PROPOSED LOCATION® TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	820 ¹ 19. PB	7075 '	20. ROTAE Rotar	Y OR CABLE TOOLS	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6340 GL				22. APPROX. DATE W	VORK WILL START*
23. F	ROPOSED CASING ANI	CEMENTING PROGRA	м		
SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
13 3/4" 9 5/8"	36.0#	200'	1	u.ft.circ.	
8 3/4"& 4 1/2" 7 7/8" 4 1/2"	10.5#&11.6#	7075'	17040	u.ft 3 s	stages
lst stage - 406 cu.ft. 2nd stage - 589 cu.ft. 3rd stage - 709 cu.ft.	to cover Mesa	a Verde	•	•	
Selectively perforate a	nd sandwater	fracture the	e Dako	ta formatio	on.
A 3000 psi WP and 6000 blind and pipe rams wil	psi test doul l be used fo	ble gate prev r blow out p	venter revent	equipped ion on this	CEIVED
This gas is dedicated. The N/2 of Section 31 in ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If)	s_dedicated	to this well	·		T 1 7 1979 CON. COM.
zone. If proposal is to drill or deepen directiona preventer program, if any.	proposal is to deepen or p lly, give pertinent data o	on subsurface locations ar	resent produ	and true vertical dep	ths. Give blockout
24. A Brian	<i>)</i>				
SIGNED . J. SHOOL	TITLE	Drilling	Clork	DATE	-11-79
(This space for Federal or State office use)					

NMOCC

NWU -4/3

CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO.

*See Instructions On Reverse Side

APPROVAL DATE _

DATE ___

O' CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088 THEREY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 kerised 10-1-78

all distances must be from the cuter houndaries of the Section.

		VI maintiff man in	Lease			Well No.
Operator		TOUR	MICHENER	иди (SF-077107)	6-E
	TURAL GAS CON	Township	MIUTENER Range	County		
Unit Letter		28N	9W	Sar	Juan	
D Actual Footage Loc	3L ation of Well:	2011				
820		ine and	905	feet from the		line
Ground Level Elev.	Producing Fo		Pool		1	Dedicated Acreage:
5340	Dakota		Basin Dal			303.22 - Acres
2. If more the	nan one lease is nd royalty).		l, outline each	and identify th	e ownership the	ereof (both as to working
dated by o	Communitization, No If a	unitization, force-pools	ing. etc? of consolidation			all owners been consoli-
this form i	if necessary.)	la di sallamilal	l interests have	been consolic	lated (by comm	nunitization, unitization, approved by the Commis-
905'	131.2	SF-077107		 A #6 ·⊙	toined her best of my Name Drilli	ertify that the information concein is true and complete to the knowledge and belief. A Clerk O Natural Gas
		31			shown on notes of	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same
			007 17 107 001 001 100 01 001 100	S	Septem Fred and dr La	yed of 1757979 Profidssignal Engineer and Surveyor
	90 1320 1650	_1 1 1	000 1500	1000 500	。 3950	
0 330 660	90 1320 1650					

Operations Plan - Michener A #6E

I. Location: 820'N, 905'W, Section 31, T-28-N, R-9-W, San Juan County, NM Field: Basin Dakota Elevation: 6340'GL

II. Geology:

A. Formation Tops:	Surface Sar Ojo Alamo Kirtland Fruitland Pic.Cliffs Lewis Mesa Verde	1 Jose 1440' 1550' 2865' 2414' 2520' 4000'	Menefee Point Lookout Gallup Greenhorn Graneros Dakota Total Depth	4150' 4700' 5885' 6668' 6724' 6845' 7075'
--------------------	--	--	--	---

- 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
8 3/4	13 3/4"	200 '	9 5/8"	36.0# K-55
	"&7 7/8"	7075 '	4 1/2"	10.5# 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 5200' and tool for third stage at 2620'. 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: 7075' 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 3000 casing head, 10" 3000 x 6" 3000 xmas tree.

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.

EIPEED NATURAL GAS // northodox USGS

Well Name Michiner A 16 E	
Location $N W 31 28-9$	•
Formation //	
	· · · · · · · · · · · · · · · · · · ·
We, the undersigned, have inspected this location	and road.
	-
U. S. Forest Service	Date
	0124/20
Archaeologist	Date
Bureau of Indian Affairs Representative	Date
Bureau of Land Hanagement Representative	27/71
	Date /
U. S. Geological Survey Representative - AGREES TO THE FOOTAGE LOCATION OF THIS WELL. REASON: 7/452 / CC of the Control of the	Date
TO THE FOOTAGE LOCATION OF THIS WELL. REASON: This location is ok, because of a cliff on the east - or Seed Mixture:	the west and steep bluff
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

Michener A :#6E

- 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 bench of a hill with pinon, sage, rabbit brush, billerbrush, and juniper 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 - Michener A #6E

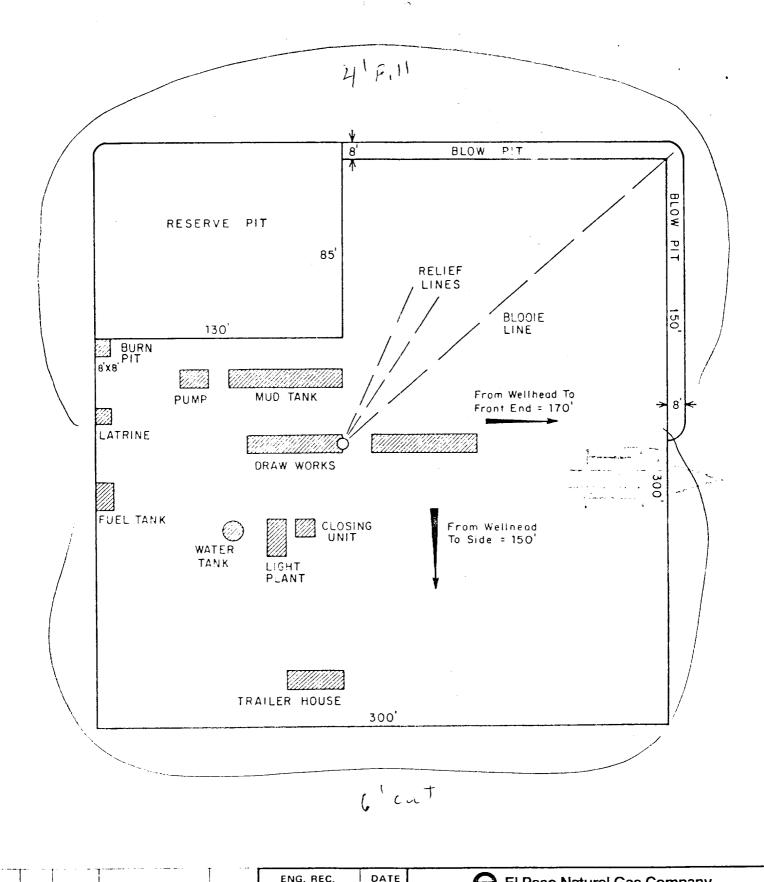
V. Cementing, cont'd.

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

First stage - use 165 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 110 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (406 cu.ft. of slurry, 50% excess to cover the Gallup).

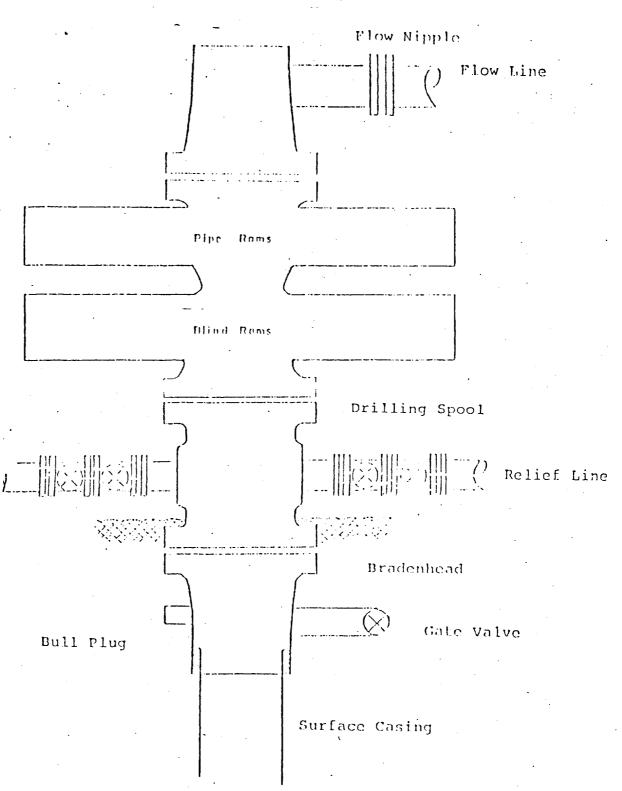
Second stage - circulate mud for 2 hours, then cement with 364 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (589 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

Third stage - circulate mud for 2 hours, then cement using 437 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (709 cu.ft. of slurry, 60% excess to fill to rop of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.

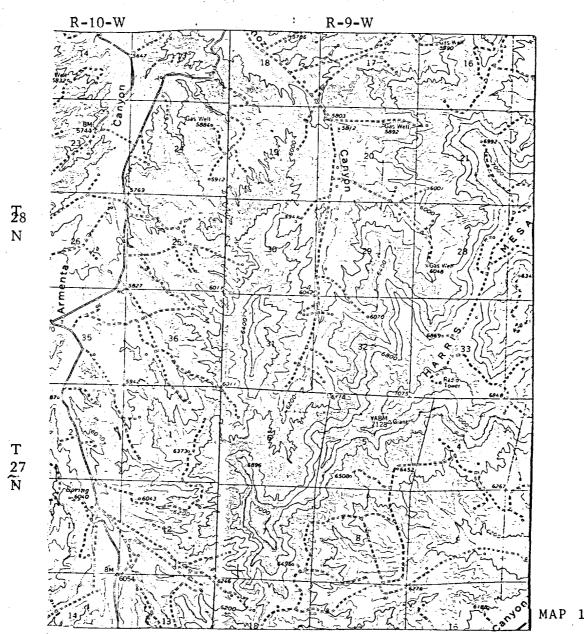


					ENG. RE	EC.	DATE	El Paso Natural Gas Company		γ :
					DRAWN	J.L.H.	8-16-78		•	
			 		CHECKED			TYPICAL	. LOCATION PLAT FO)R
					CHECKED			MESAVERDE	OR DAKOTA DRILL	SITE
					PROJ. APP.	1				
PRT.	SEP.	DATE	10	w.o.	DESIGN	1		SCALE: 1"=50	DWG.	REV
-	PRINT RECORD			W.O.		SCALE: 1 - 50	NO.			

Typical B.O.P. Installation for Dakota Well



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.



LEGEND OF RIGHT-OF-WAYS

EXISTING ROADS
EXISTING PIPELINES
EXISTING ROAD & PIPELINE
PROPOSED ROADS
PROPOSED PIPELINES

PROPOSED ROAD & PIPELINE

El Paso Natural Gas Company Michener A #6E NW 31-28-9

R-9-W Aztec ÉPNG Wright A Con EPNG 22 EPNG Tenneco Hancock Michenera 31 EPNG 32

MAP 2

Proposed Location