SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY					NM 019405				
_ APPLICATION	Y FOR PERMIT	TO DRILL, D	EEP	EN, OR PI	LUG B	ACK	6. IF INDIAN, ALLOTTE	OR TRIBE NAME	
1a. TYPE OF WORK DR	ILL X	DEEPEN [PLU	JG BAC	CK 🗌	7. UNIT AGREEMENT N	AME	
OIL GAS SINGLE SINGLE SONE ZONE ZONE						LIE	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR							Bloomfield	_	
El Paso Na	tural Gas Cor	npany				·	9. WELL NO.		
	, Farmington,	NIM 9740	רו				1E 10. FIELD AND POOL, O	D WILDCAM	
4. LOCATION OF WELL (R	eport location clearly and			tate requiremen	its.*)		Basin Dako		
At surface 1650'S, 1660'E At proposed prod. zone							11. SEC., T., E., M., OB BLK. AND SURVEY OR AREA Sec. 17, T-29-N, R-11-		
14 prominos vy kry po	same						NMPM		
_	thwest of Ear						12. COUNTY OR PARISH		
15. DISTANCE FROM PROPO		iming con,	NM 16. NO	OF ACRES IN	LEASE	17. NO. C	San Juan	NM	
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drip	INE, FT.	980'		320.00			HIS WELL	32000	
18. DISTANCE FROM PROP	OSED LOCATION*		19. PR	OPOSED DEPTH		20. ROTA	ROTARY OR CABLE TOOLS		
TO NEAREST WELL, D OR APPLIED FOR, ON TH	IS LEASE, FT.	2800'		6505	5 '	Rota	ary		
21. ELEVATIONS (Show who 5605 GL	ether DF, RT, GR, etc.)						22. APPROX. DATE WO	RK WILL START*	
23.	I	PROPOSED CASIN	G ANI	CEMENTING	PROGRA	М			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT	SETTING DE	·		QUANTITY OF CEMENT		
12 1/4"	8 5/8"	24.0#		200			cu.ft.circ.		
7 7/8"	4 1/2"	10.5#		6505	·	1416	cu.ft 3 s	tages	
3rd stage Selectivel	<pre>- 496 cu.ft 596 cu.ft. y perforate a WP and 6000</pre>	to cover	Ojo ter	Alamo					
blind and	pipe rams wil					cevent		well.	
This gas is dedicated.					NOV 01 1979	: :			
·	Section 17					F	GEOLOGICAL SURV		
zone. If proposal is to	PROPOSED PROGRAM: If a drill or deepen directions								
preventer program, if any 24.		held TITI	Æ	Dril	lling	Clerk	C	29-79	
	ral or State office use)								
PERMIT NO.	Tal VI State omce usey		 -	APPROVAL DATE					
APPROVED BYCONDITIONS OF APPROV		TITI	.E				170V 619	79	
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*See Instructions On Reverse Side

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

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

Operator				Lease Well No.				
EL PASO NA	TURAL GAS COM	PANY	_	BLOOMFIELD	(N	M-019405)	1-E	
Jnit Letter	Section	Township		Range	County			
J	17	29N		llW	· ·	Juan	-	
Actual Footage Loc	l		!					
1650	_	uth 15-2 mg	1	1660		East _	14	
Ground Level Elev.	Producing For	Tine did	Poo	1ee:	t from the		line cated Acreage:	
5605	Dakota		"	Basin Dako	t.a	1	320 00 -	
netes								
1. Outline the	e acreage dedica	ted to the subject we	ell b	y colored pencil o	r hachure	marks on the pla	at 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?								
Yes No If answer is "yes," type of consolidation								
	necessary.)				,			
No allowab	ole will be assigne	ed to the well until all or until a non-standar						
						1 CE	TIFICATION	
	1	Kla		i		i Cer	RTIFICATION	
				 #1		tained herein is	that the information con- strue and complete to the stedge and belief.	
· — — —	 +	🗸	<u> </u>	#1 0 		Name (1993)	Dragfuld	
				,		Drilling Position		
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	i	X		i	A)	¥	0 1070	
	i	NØ.		1 '		October 2	9, 1979	
				1		Date		
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	 	17	1	IM-019405		shown on this p	fy that the well location plat was plotted from field I surveys made by me or	
	1	KØ		1660	脒	under my super	vision, and that the same	
	l	<i>V</i> Ø	0	TOOO.		is true and co	prrect to the best of my	
	!	[]		1	自由	knowledge and	belief.	
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	,	M	650			Date Surveyed		
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			13 3 30°			Certificate No. d	YERR. P.	
330	90 1320 1650 198	0 2310 7640 2000		1500 1000 5	00 0	3950	1.1.11	



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

Bloomfield #1E

- 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 top with annuals growing. Cattle 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.

T. A. Aimes

Project Drilling Engineer

Operations Plan - Bloomfield #1E

I. Location: 1650'S, 1660'E, Section 17, T-27-N, R-11-W, San Juan County, NM

Field: Basin Dakota Elevation: 5615'GR

II. Geology:

Α.	Formation T	ops:	Surface	San	Jose	Menefee	3470'
			Ojo Alamo		455	Point Lookout	4100'
			Kirtland		585 '	Gallup	5368'
			Fruitland		1440'	Greenhorn	6106'
			Pic.Cliffs	5	1760'	Graneros	6165'
			Lewis		189 0'	Dakota	62881
			Mesa Verde	3	3340'	Total Depth	6505'

- 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:	gram: Hole Size	Depth	Csg.Size	Wt.&Grade
	12 1/4"	200'	8 5/8"	24.0# K-55
	7 7/8"	6505'	4 1/2"	10.5# K-55

- B. Float Equipment: 8 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 4700' and tool for third stage at 2090'. 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: 6505' 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: 8.5/8" x 8" 2000 casing head, 8" 2000 x 6" 2000 xmas tree.

V. Cementing:

Surface casing (12 1/4" x 8 5/8") - use 140 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (165 cu.ft. of slurry, 100% excess to circulate). WOC 12 hours. Test to 600#/30 min.

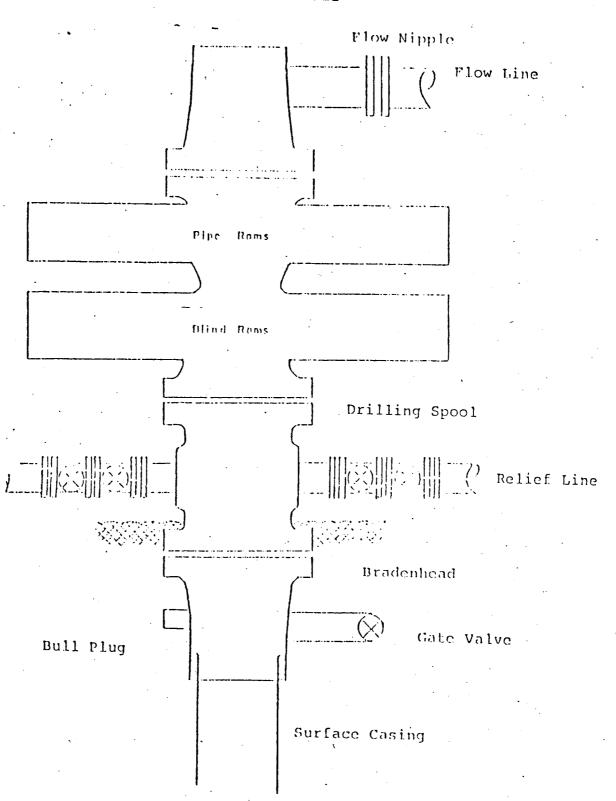
V. Cementing, cont'd.

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

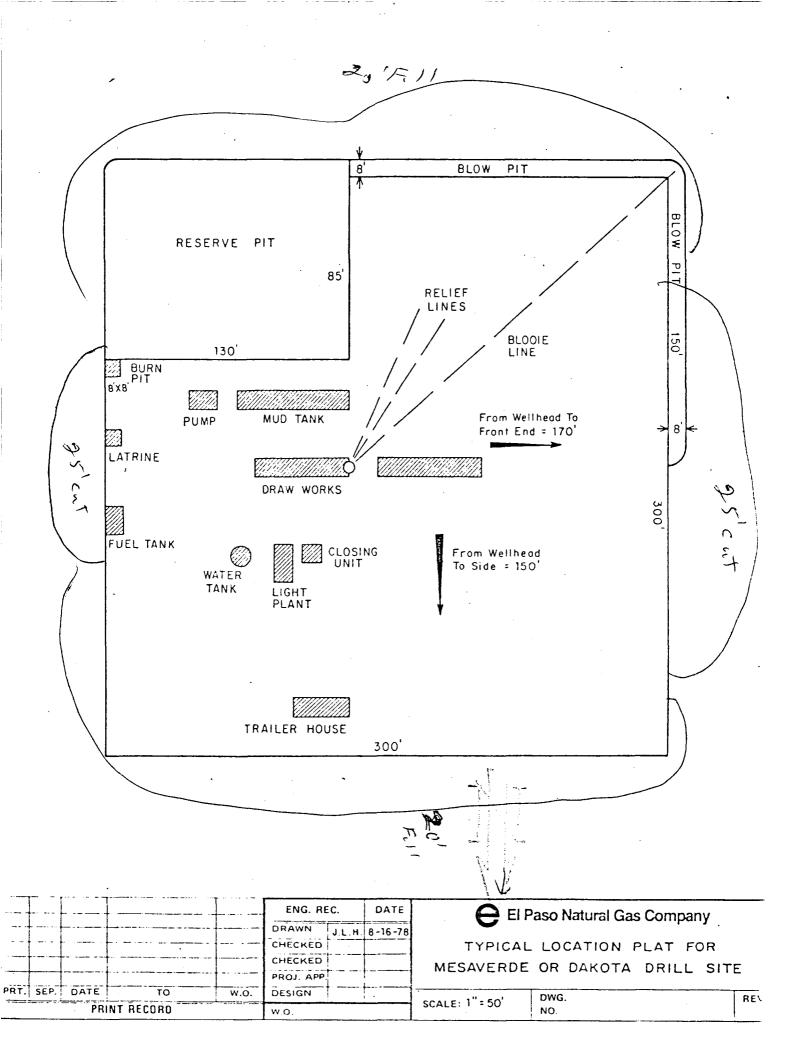
First stage - use 130 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 90 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (324 cu.ft. of slurry, 25% excess to cover the Gallup).

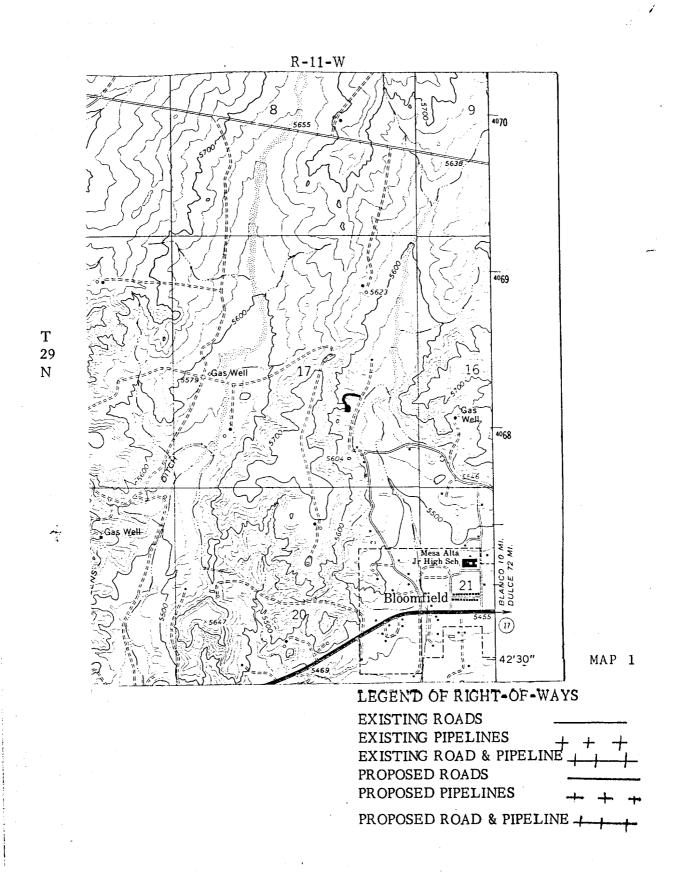
Second stage - circulate mud for 2 hours, then cement with 306 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (496 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

Third stage - circulate mud for 2 hours, then cement using 368 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (596 cu.ft. of slurry, 60% excess to fill to top 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 Gás Company Bloomfield #1E SE 17-29-11

Fifield EPNG Wolley Beta Dev. PaGloria Union Tex Pet. Amoco 178/00m Aztec Mc Dales "B NM'8CO So. Union So. Union Eaton Sounion 5 31 Moncrief Mesa Pet.

MAP 2