SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

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

3	0-045	-0388
5. LEA	SE DESIGNATION	AND SERIAL NO.
SE	0787164	

	GEOLO	OGICAL SURV	ΈΥ				SF 078716A
APPLICATION	Y FOR PERMIT	TO DRILL,	DEEPEN	OR PL	UG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK DR b. TYPE OF WELL	ILL 🖺	DEEPEN		PLUC	G BAC	K 🗌	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	AS OTHER		SINGLI	×	MULTIPI ZONE	re 🗌	8. FARM OR LEASE NAME Hubbell
EL Paso Nat	tural Gas Con	npany					9. WELL NO.
	, Farmington,	, NM 8740	0.1				3E
	eport location clearly and	d in accordance wi		requirements	s.*)		Basin Dakota
At proposed prod. zon	1540'N, 10)20 ' E			_		11. SEC., T., B., M., OR BLK. Sec. 18, Te 254N, R-10
	same						NMPM
3.5 miles e	and direction from NEA East of Bloom		4				12. COUNTY OR PARISH 13. STATE San Juan NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	r INE, FT. 7. unit line, if any)	1020	16. NO. OF	1263.		17. NO. C	OF ACRES ASSIGNED 320.85
 DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH. 	RILLING, COMPLETED,	1000	19. PROPOS	6640'		20. ROTA Rotar	BY OR CABLE TOOLS
21. ELEVATIONS (Show who 5619 GL	ether DF, RT, GR, etc.)		-				22. APPROX. DATE WORK WILL START*
23.	I	PROPOSED CASH	NG AND CE	MENTING P	ROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DEP	гн		QUANTITY OF CEMENT
12 1/4" 7 7/8"	8 5/8" 4 1/2"	24.0		200		165 c	u.ft.circ. to surfa
2nd stage -	450 cu.ft. 450 cu.ft. 492 cu.ft.	to cover	Mesa V	erde			
A 3000 psi	W3 and 6000	psi tert	double	gata	prev	enter	ta formation. equipped with ion on this well.
This gas is	dedicated.					·	SETENED
The $E/2$ of	Section 18 i	s dedicat	ed to	this w	ell.		/ MLUL 1079
N ABOVE SPACE DESCRIBE one. If proposal is to (reventer program, if any	PROPOSED PROGRAM: If partial or deepen directions	proposal is to deep lly, give pertinent	en or plug b data on sub	ack, give dat surface locat	a on pre ions and	sent produ I measured	and true vertical depther Give blowou
4. SIGNED	y. Buisco	/ 	LE	Drill	ing	Clerk	OIL DIST. 3
4.	11 0.	, TIT	LE	Drill	ing	Clerk	0151
4.	J. Buisco	/ TIT		Drill	ing	Clerk	DIS 1.
SIGNED (This space for Feder	J. Buisco				ing	Clerk	DIS 1.

OIL CONSERVATION DIVISION

. STATE OF NEW MEXICO ENERGY AND MINERALS DEFARTMENT

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

1980 Form C-102 Revised 10-1-78

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

Operator			Lease		Well No.			
EL PASO NATURAL GAS COMPANY			HUBBELL	(SF-078716-A)	3-E			
Unit Letter	Section	Township	Range	County				
H	18	29N	10W	San Juan				
Actual Footage Loc		orth line on	a 1020	eet from the East	line			
Ground Level Elev.	Producing For		Pool	Dec	licated Acreage:			
5619	D _i	AKOTA	BASIN	DAKOTA	320.85 Acres			
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 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 If answer if this form if No allowab	No If an eccessary.)	nitization, force-poonswer is "yes," type owners and tract des	of consolidation criptions which have	consolidated (by communich interests, has been app	. (Use reverse side of			
	 	18	off51 10 10 SF-078716-A	I hereby certify tained herein is best of my known and this partial in the partia	RTIFICATION If that the information construe and complete to the wledge and belief. LUSCU ing Clerk SO Natural Gas er 11, 1979 fy that the well location to the well was plotted from field			
			#3	under my super	ILAND S/1979 Foliated Engineer			



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

Multi-Point Surface Use Plan

Hubbell #3E

- 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.
- 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 Bloomfield Ditch.
- 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 grassy bottom land with sagebrush and cheat grass growing. Deer and 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 test 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- Hubbell #3E

I. Location: 1540'N, 1020'E, Section 18, T-29-N, R-10-W, San Juan County, NM

Field: Basin Dakota Elevation: 5619'GL

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Menefee	3690'
		_	Ojo Alamo	825 '	Point Lookout	4370 '
			Kirtland	940'	Gallup	5498 '
			Fruitland	1705 '	Greenhorn	6245 '
			Pic.Cliffs	s 1990'	Graneros	6304 '
			Lewis	2075'	Dakota	6420 '
			Mesa Verde	e 3553 t	Total Depth	6640'

- 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
	12 1/4"	200	8 5/8"	24.0# K-55
	7 7/8"	6640'	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 4870' and tool for third stage at 2175'. 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: 6640' 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" 2000 casing head with 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.

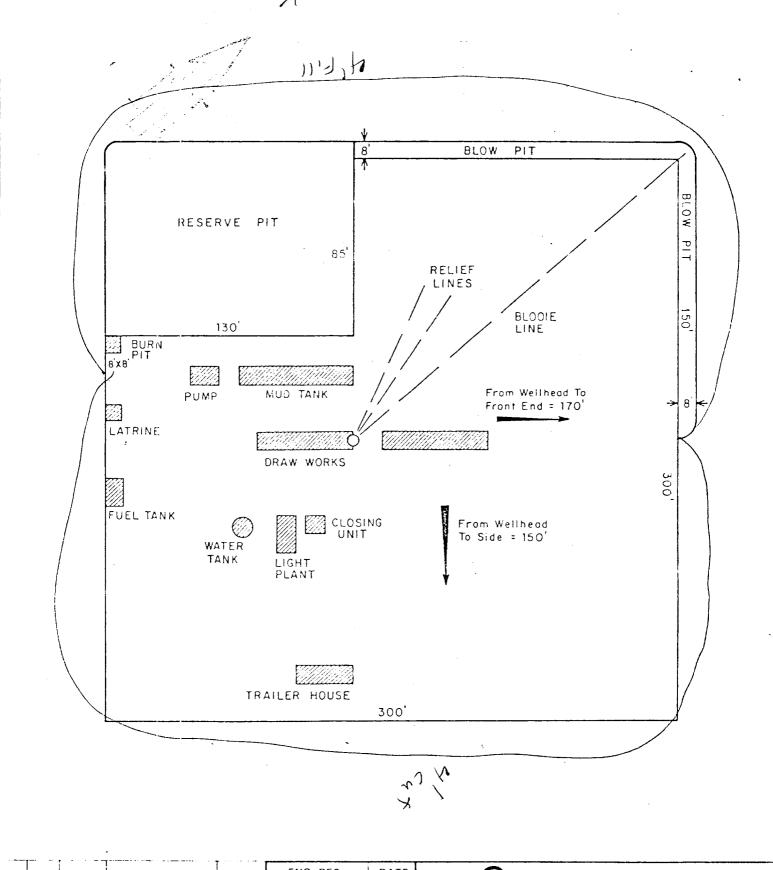
V. Cementing, cont'd.

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

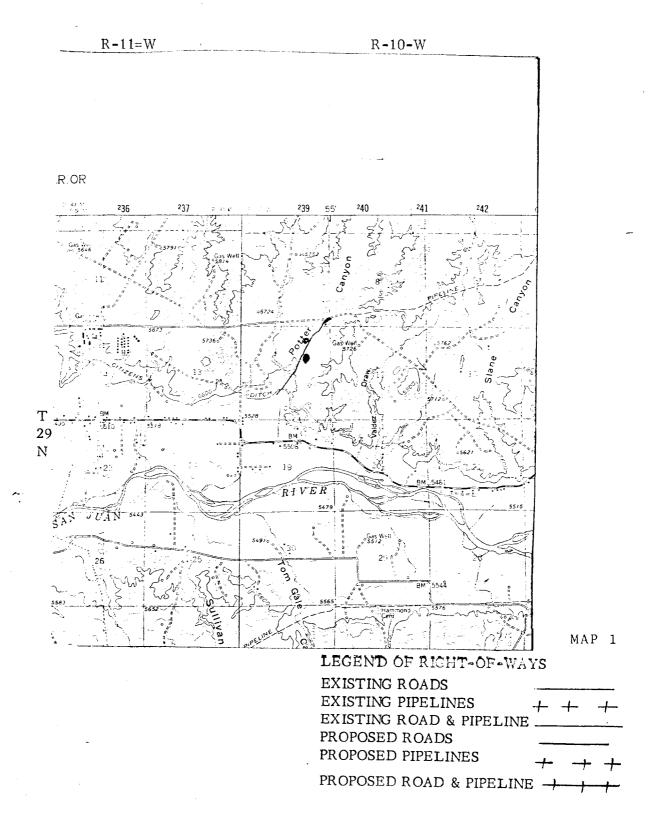
First stage - use 130 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 90 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (325 cu.ft. of slurry, 25% excess to cover the Gallup).

Second stage - circulate mud for 2 hours, then cement with 278 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (450 cu.ft. of slurry, 50% excess to cover the Mesa Verde).

Third stage - circulate mud for 2 hours, then cement using 304 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (492 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.



				·	ENG. REC.	DATE	El Paso Natural Gas Company	
					DRAWN JL.H. CHECKED CHECKED PROJ. APP	8-16-78	TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE	Ε
PRT.		DATE	го	w.o.	DESIGN	 	SCALE: 1" = 50' DWG.	RE
PRINT RECORD			w.o.		NO.			



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