Sel A

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30-095-23843

5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY						NM 02861	NM 02861		
APPLICATIO	N FOR PERMIT	TO DRILL,	DEEP	EN, OR P	LUG B	ACK	6. IF INDIAN, ALLOTTI	E OR TRIBE NAME	
1a. TYPE OF WORK b. TYPE OF WELL	RILL 🗵	DEEPEN		PLI	UG BA	CK 🗆	7. UNIT AGREEMENT	NAME	
—	GAS X OTHER			NGLE X	MULTIP ZONE	LE [8. FARM OR LEASE NA Lodewick	ME	
El Paso Nat	ural Gas Compa	ıy .					9. WELL NO.	<u> </u>	
3. ADDRESS OF OPERATOR	B					***	9E	_	
Box 289, Fa	rmington, New I	Mexico 8740	1	tata magninama	nto \$\		10. FIELD AND POOL,		
At surface	S, 850'W	na in accordance wi	шанус	tate requireme	nts /		Basin Dako	R7.K	
At proposed prod. zo	•						AND SURVEY OR A Sec. 19, T	-27-N, R-9-	
	and direction from Ni outh of Bloomf			I*			12. COUNTY OR PARISE		
10 IIII1ES 3		Leid, New Me		. OF ACRES IN	TEAGE	1 17 NO 6	San Juan	New Mexic	
LOCATION TO NEARE PROPERTY OR LEASE	ST Line, FT.	0051	ļ		DEADE	TO TI	HIS WELL	-	
(Also to nearest dr 18. DISTANCE FROM PRO	rlg. unit line, if any) POSED LOCATION*	805'		07.46		- 1 32	20. ROTARY OR CABLE TOOLS		
	DRILLING, COMPLETED,	700'	710			1	Roatry		
21. ELEVATIONS (Show w	hether DF, RT, GR, etc.)	7.00	1 / 20			1	22. APPROX. DATE W	ORK WILL START*	
23.	.Ξ.·	PROPOSED CASI	NG ANI	CEMENTING	PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00T	SETTING D	ЕРТН	1	QUANTITY OF CEME	NT	
124"	8 5/8''	24#		200'			cu. ft. 100% e		
7 7/8"	4½"	10.5 & 11	.6#	7100'			4 cf.50% exces	ss to cover	
	I	1				Mesa V	5 cf. 60% exce erde. 94 cf. 60% exc		
3000 psi WP and used for blown is gas is dedi	forate and sold 6000 psi test out prevention cated. on 19 is dedicated.	double gate n on this we	prev 11.	ventor eq	Dako uipped	with h	RECEIVE OCT 041979 GEOLOGICAL SURV ARMINGTON, N. M.	D	
IN ABOVE SPACE DESCRIB zone. If proposal is to preventer program, if an 24.	BE PROPOSED PROGRAM: If drill or deepen direction my. J. Buce	nally, give pertinent	data o	lug back, give on subsurface lo	cations an	esent produ	uctive zone and proper I and true vertical dept	d new productive hs. Give blowout	
	eral or State office use)	III					DAIR		
PERMIT NO.				APPROVAL DATE	 	-/	100		
APPROVED BY		тіт	LE				TO COMPANY OF THE STATE OF THE	÷ į	
CONDITIONS OF APPRO	VAL, IF ANY:					1	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	To the second se	
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*See Instructions On Reverse Side

MMOCC.

STATE OF NEW MEXICO LINEAGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION P. O. BOX 2088

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

1980 Form C-102 key1sed 10-1-78

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

Operator			Lease Well No.					
EL PASO NATURAL GAS COMPANY		LODEWICK	(NM-02861)	9 - E				
			Range	County				
	L 19 27N		9W	San Juan				
Actual Footage Location	on of Well:							
	feet from the Sou	th line and	850 _{fee}	et from the West	line			
Ground Level Elev.	Producing Form		Pool		Dedicated Acreage:			
6498	Dak	ota	Basin Dakota		321.61 Acres			
1. Outline the	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.							
2. If more than interest and	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).							
If more than dated by com	one lease of di munitization, u	fferent ownership is o nitization, force-pooli	dedicated to the well, ng. etc?	have the interests of	all owners been consoli-			
Yes [No If an	swer is "yes;" type o	f consolidation					
If answer is this form if n	"no," list the o	wners and tract desc	riptions which have a	ctually been consolid	ated. (Use reverse side of			
	-	d to the well until all	interacte have been	1:31./1	munitization, unitization,			
forced-pooling	g, or otherwise)	or until a non-standard	l unit, eliminating suc	consolidated (by comeh interests, has been	munitization, unitization, approved by the Commis-			
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

Lodewick #9E

- 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 Huerfano Water Well #I
- 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 sagebrush, pinon and juniper trees growing. Deer, cattle 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

LODEWICK #9E

I. Location: 1835'S, 850'W, Section 19, T-27-N, R-9-W, San Juan County, New Mexico

Field: Basin Dakota

Elevation 6498' GL

II. Geology:

A.	Formation Tops:	Surface Nac	imiento	Menefee	3990'
		Ojo Alamo	1315'	Point Lookout	4720'
		Kirtland	1580'	Gallup	5860'
		Fruitland	2130'	Greenhorn	6670'
	•	Pic. Cliffs	2370'	Graneros	67251
		Lewis	2470'	Dakota	6845'
		Mesa Verde	3880'	Total Depth	7100'

B. Logging Program: Induction Electric and Gamma Ray Density at TD.

C. Coring: none

D. Samples: none

III. <u>Drilling:</u>

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

IV. Materials:

Α.	Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
		12 1/4"	200 1	8 5/8"	24.0# K-55
		7 7/8''	7100'	4 1/2"	10.5# J-55

B. Float Equipment: 8 5/8" surface casing - Cement guide shoe.

4 1/2" production casing-Cement guide shoe and self-fill insert valve. Two multiple stage cementers equipped for three stage cementing. Set tool for second stage at 5320' and tool for third stage at 2670'. Run 20 Howco 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: 7100' of 2 3/8", 4.7#, J-55 tubing with a common pump seating nipple and an expendable check valve with drill type guide.
- D. Wellhead Equipment: 8" 2000 X 8 5/8" casing head with 8" X 4 1/2" casing hanger, 8" 2000 x 6" 2000 xmas tree. Wellhead representative to set all slips.

Operations Plan- Lodewick #9E

V. <u>Cementing</u>:

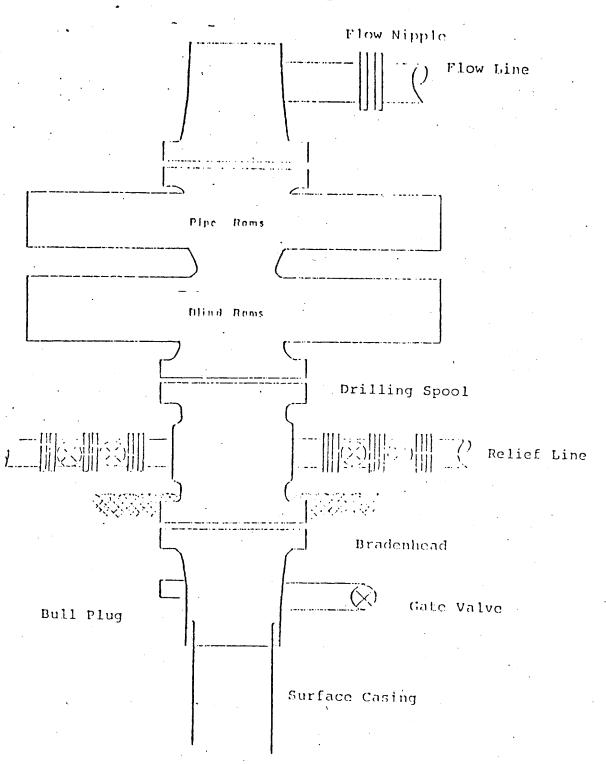
Surface casing (12 1/4" x 8 5/8") - use 140 sks. of Class "B" cement with 1/4# gelflake per sack and 3% calcium chloride (165 cu. ft. of slurry, 100% excess to circulate). WOC 12 hours. Test to 600#/30 minutes.

Production casing-

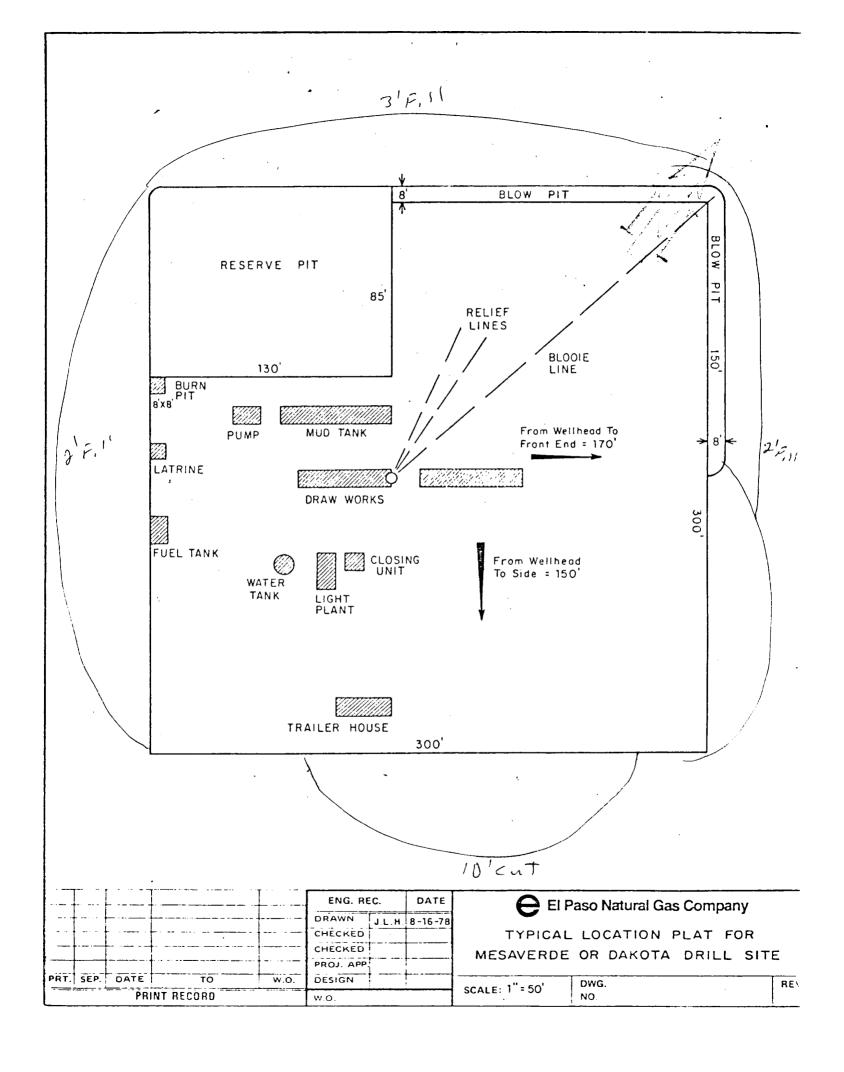
First stage ($4\ 1/2" \times 7\ 7/8"$) - use 200 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 80 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu. ft. 424 cu. ft. of slurry, 50% excess to cover the Gallup).

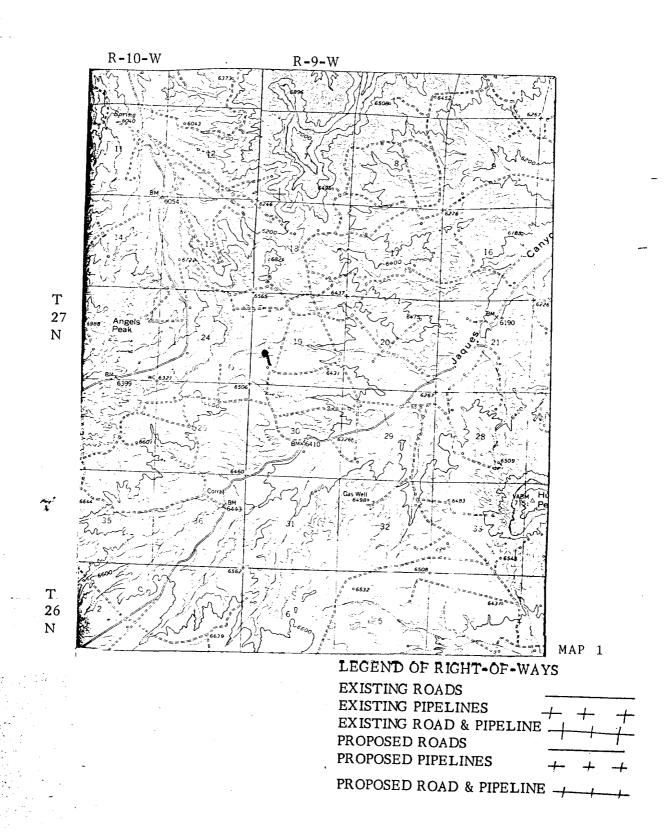
Second stage (4 1/2" x 7 7/8") - circulate mud for 2 hours, then cement with 324 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (525 cu. ft. of slurry, 60% excess to cover the Mesa Verde).

Third stage $(4\ 1/2"\ x\ 7\ 7/8")$ - circulate mud for 2 hours, then cement using 305 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack 494 cu. ft. of slurry, 60% excess to cover the Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.



Series 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
Lodewick #9E
SW 19-27-9
R-9-W

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