SUBMIT IN TRIPLICATE*

Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES	(Oth
DEPARTMENT OF THE INTERIOR	

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		OGICAL SURVEY	NON.		5. LEASE DESIGNATION AND SERIAL NO.
APPLICATION		TO DRILL, DEEPI	N OR PING	B A CK	NM 02361 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK	OK TEMPIN	TO DIVILL, DELL'I	IN, ON FLOG	DACK	
DRILL b. Type of Well	X	DEEPEN [PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME
OIL GAS WELL WELL	OTHER		NGLE X MULTI	PLE	S. FARM OR LEASE NAME
2. NAME OF OPERATOR		.			Lodewick -
El Paso Nat	urai Gas C	ompany			10E
PO Box 289,	Farmingto	on, NM 87401			10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report At surface	rt location clearly ar	d in accordance with any S	tate requirements.*)		Basin Dakota —
	1675 's, 3	L595 ' W			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone	same			1	Sec.30,T-27-N,R-9-W
14. DISTANCE IN MILES AND					12. COUNTY OR PARISH 13. STATE
10 miles so			.CO	1 17 vo	San Juan NM
LOCATION TO NEAREST PROPERTY OR LEASE LINE	, FT.	965'	1283.46		HIS WELL 321.86
(Also to nearest drlg. u 18. DISTANCE FROM PROPOSE	LOCATION*		OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
OR APPLIED FOR, ON THIS L	LING, COMPLETED, EASE, FT.	2000'	6975 '	Rota	
21. ELEVATIONS (Show whether 6479 GL	r DF, RT, GR, etc.)	· <u>·····</u>		•	22. APPROX. DATE WORK WILL START*
23.		PROPOSED CASING ANI	CEMENTING PROGR	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER POOT	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	200'	165	cu.ft.circ. to surface
7 7/8"	4 1/2"	10.5#&11.6#	6975'	1413	cu.ft 3 stages
2nd stage - 3rd stage -	- 253 cu.ft - 465 cu.ft	to cover Ga to to cover Me to cover Oj e and sandwate	esa Verde o Alamo	the Dai	kota formation.
A 3000 psi blind and p This gas is	WP and 600 Dipe rams was dedicated	00 psi test do vill be used f	ouble gate profor blow out	1.	er equipped with nRECEIVED OCT 041979
The W/2 of	Section 30) is dedicated	l to this we	11	I. S. GEOLOGICAL SURVEY FARMINGTON, N. M.
					ductive zone and proposed new paductive d and true vertical depths. Give blowout
SIGNED . J.	Dusco	TITLE	Drilline	g Cler	k
(This space for Federal	or State office use)				por contra de la contra del la contra del la contra del la contra de la contra del la contra de la contra de la contra del la contra d
PERMIT NO.	-		APPROVAL DATE		$\frac{1}{1-\frac{1}{2}}\frac{1}{2}\frac{1}{2}$
APPROVED BY					
CONDITIONS OF APPROVAL.	IF ANY:				

*See Instructions On Reverse Side

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. HOX 2088

SANTA FE, NEW MEXICO 87501

All distances must be from the cuter boundaries of the Section

Operator E1	L PASO NATURA	L GAS COMPANY	Lease LODEWICK	(NM-02861)	Well No.					
Unit Letter K	Section 30	Township 27-N	Range 9-W	County SAN JUAN						
Actual Footage Lo 1675	cation of Well:	SOUTH line and	1595	et from the WEST	line					
Ground Level Elev 6479	1		Pool BASIN I	Ded	icated Acrecge: 321.86 Acres					
1. Outline t	he acreage dedic	ated to the subject v	vell by colored pencil o	or hachure marks on the pl						
2. If more to interest a	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 the	nan one lease of communitization,	different ownership is unitization, force-pool	dedicated to the well, ling. etc?	have the interests of all	owners been consoli-					
Yes Yes	No If a	answer is "yes," type	of consolidation							
this form No allowa	if necessary.) ble will be assign	ned to the well until a	Il interests have been	ctually been consolidated consolidated (by communich interests, has been app	itization, unitization.					
sion.	XXXXXXXXX			en interests, has been app	roved by the Commis-					
#1			: 	t hereby certify	RTIFICATION y that the information con- s true and complete to the wledge and belief. Juliacu					
				Position C Position El Paso Na	lerk tural Gas Co.					
	 s	ec.	 	October 1,	1979					
1595'	NM-02861	30		shown on this notes of actua under my super	fy that the well location plat was plotted from field I surveys made by me or vision, and that the same prect to the best of my belief.					
	16751		 	Date Surveyed	c 13, 1979 ssichai Engineer					
0 330 660	90 1320 1650 19		0 1500 1000	Certificate No.	TRAP.					



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

Multi-Point Surface Use Plan

Lodewick #10E

- 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 #1.
- 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 sagebrush flats with sagebrush and juniper growing. Cattle, horses and sheep 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 #10E

I. Location: 1675'S, 1595'W, Section 30, T-27-N, R-9-W, San Juan County, NM Field: Basin Dakota Elevation: 6479'GL

II. Geology:

Α.	Formation	Tops:	Surface	Nacimiento	Menefee	3938 '
			Ojo Alamo	1325'	Point Lookout	4650'
			Kirtland	1497'	Gallup	5776 '
			Fruitland	2032'	Greenhorn	6606 '
			Pic.Cliffs	2290'	Graneros	6660 '
			Lewis	2400'	Dakota	6780 '
			Mesa Verde	3827 '	Total Depth	6975 '

- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Samples: 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"	6975'	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 5250' and tool for third stage at 2600'. 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: 6975' 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.

V. Cementing:

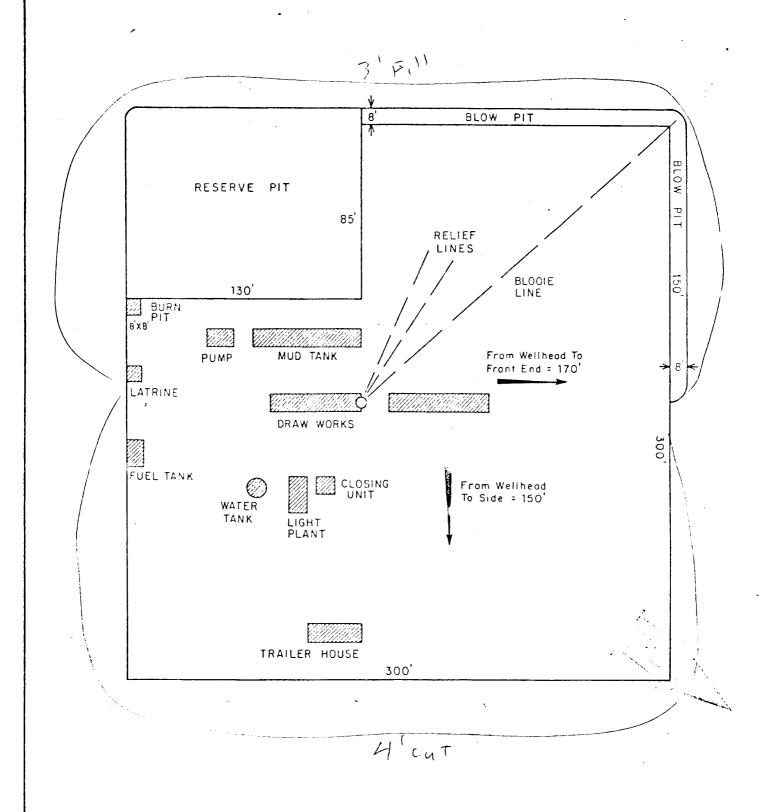
Surface casing (12 1/4" x 8 5/8") - use 140 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (165 cu.ft. of slurry, 100% excess to circulate). WOC 12 hours. Test to 600#/30 min.

Production casing -

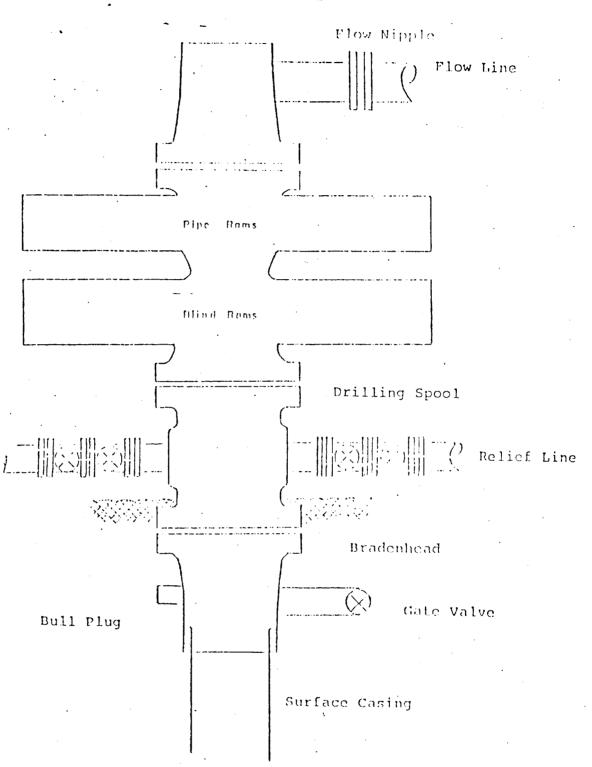
First stage (4 1/2" x 7 7/8") - use 246 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 80 sks. 50/50 Class "B" Poz mix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (410 cu.ft. of slurry, 50% excess to cover the Gallup).

Second stage (4 1/2" x 7 7/8") - circulate mud for 2 hours, then cement with 331 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (537 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

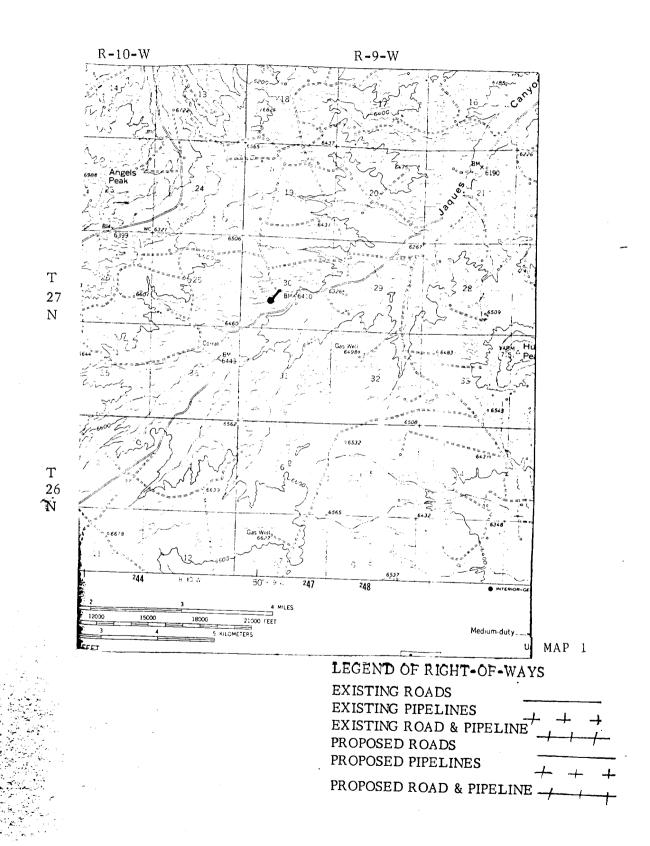
Third stage (4 1/2" x 7 7/8") - circulate mud for 2 hours, then cement using 369 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (465 cu.ft. of slurry, 60% excess to cover the Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.



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PRINT RECORD			W.O.		SCALE: 1" = 50'	10.			



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.



R-9-W

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MAP 2

Proposed Location