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SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNIII	ED S	SIAII	-5
DEPARTMENT	OF	THE	INTERIOR

DEL ARTIMERT OF THE INVESTOR					3. LEASE DESIGNATION	AND SERIAL NO.
GEOLOG	SF 077106					
APPLICATION FOR PERMIT T	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME				
1a. TYPE OF WORK DRILL X	7. UNIT AGREEMENT N	AME				
b. TYPE OF WELL OII GAS WELL WELL X OTHER		SINGLE ZONE	MULTIP ZONE	re 🗌	S. FARM OR LEASE NA	ME
2. NAME OF OPERATOR	mnanı				Lackey B	
El Paso Natural Gas Co	14E 10. FIELD AND POOL,	OR WILDGAM				
PO Box 289, Farmington 4. LO ATION OF WELL (Report location clearly and At surface 1120'N, 18	Basin Dakota 11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA					
At proposed prod. zone					Sec.30,T-28-N,R-9-W	
14. D. STANCE IN MILES AND DIRECTION FROM NEAR	12. COUNTY OR PARISE					
					San Juan OF ACRES ASSIGNED HIS WELL	/ _{302.62}
18. DISTANCE FROM PROPOSED LOCATION* T) NEAREST WELL, DRILLING, COMPLETED, OF APPLIED FOR, ON THIS LEASE, FT.	300'	19. PROPOSED DEPTI	1 LO'	20. ROTAL		
21. EIEVATIONS (Show whether DF, RT, GR, etc.) 6217 GL					22. APPROX. DATE W	ORK WILL START*

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	9 5/8"	36-0#	200'	224 cu.ft. to circulate
8 3/4" &	4 1/2"	10.5#&	7010'	1640 cu.ft 3 stages
7 7/8"	,	11.6#		

1st stage - 333 cu.ft. to cover Gallup

2nd stage - 646 cu.ft. to cover Mesa Verde

3rd stage - 661 cu.ft. to cover Ojo Alamo

Selectively perforate and sandwater fracture the Dakota formation.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

The N/2 of Section 30 is dedicated to this well.

IN AFOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any

 $\bar{24}$ TITLE Drilling Clerk (This space for Federal or State office use) APPROVAL DATE PERMIT NO. _ APPROVED BY CONDITIONS OF APPROVAL, IF ANY: NW4-412

*See Instructions On Reverse Side

STATE OF NEW MEXICO CHERGY AND MINERALS DEPARTMENT

OIL ONSERVATION DIVISIO 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

SL PASO NATURAL GAS ON-PAIN Section Section			All distances must h			37411111	•	
Unit Lates Section Toronably Perce Sart Juan Actual Fotige Lectures of wait 1120	Operator			I •	=	/~-		
Actual Poctoge Location at Wall 1120				LAC K	7X "B"	,	*-077106)	14-E -
Access Pectage Locations at wall; 1120	·	Section		Flooring	e	County		\smile
1850 1800	C	0ز	253		₽W .	San	Juan	
Description Production Production Production Description Des	Actual Footage Loc	ation of Well:						
Description Production Post Post Basin Dakota Data Data 302.65 Acres 30	1120	feet from the No	orth Hine	and 1850	O fee	t from the	™est	June 1
1. Outline the acreage dedicated to the subject well by colored peacil or hachure marks on the plat 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 If snewer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. **SOTE: THIS PLAT IS PLATIS PLASUED TO SHOW MOVED LOCATION.** 1850' SF-077106 SF-07	Ground Level Elev.				- Ice	t Hom the		
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat 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 If enswer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-atandard unit, eliminating such interests, has been approved by the Commission. SOTE: THIS PLAT IS EXISSED TO SHOW MOVED LOCATION. 1850' CERTIFICATION I hereby certify that the information constanded by movementage and belief. SP-077106 SP-077106 SP-077106 SP-077106 THIS PLAT IS REISSUED TO SHOW MOVED LOCATION. 10-18-79 November 27, 1979 Date was plateful from field. I hereby certify that the well location as above on this plat was plateful from field moves of move of the same is true and convex mode by me or work of the plateful from field. 10-18-79 Date Surveyord. Date S		1		1	n Dakota		/	
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P. O. BOX 990 FARMINGTON, NEW MEXICO 87401 PHONE: 505-325-2841

Multi-Point Surface Use Plan

Lackey B #14E

- 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 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

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.
- ll. Other Information The terrain is rolling hills with pinon, juniper, mormon team, bitter brush, rabbit brush growing.

 Deer are occasionally seen on the proposed project
- site. 12. Operator's Representative - W.D. Dawson, PO Bon 910 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 - Lackey B #14E

I. Location: 1120'N, 1850'W, Section 30, T-28-N, R-9-W, San Juan County, NM

Field: Basin Dakota Elevation: 6217'

II. Geology:

Α.	Formation Tops:		San Jose	Menefee	3980'
		Ojo Alamo	1200'	Point Lookout	4630'
		Kirtland	1425'	Gallup	5840 '
		Fruitland	2055	Greenhorn	6600 '
		Pic.Cliffs	2350'	Graneros	6654'
		Lewis	2445'	Dakota	6778'
		Mesa Verde	3915'	Total Depth	7010'

- 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:

Α.	Casing	Program:	Hole Siz	e Depth	Csg.Size	Wt.&Grade
			13 3/4" 8 3/4"	200' 5300'	9 5/8" 4 1/2"	36.0# H-40 10.5# K-55
			7 7/8"	65 00'	4 1/2"	10.5# K-55
			7 7/8"	6500-7010'	4 1/2"	11.6# 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 5230' and tool for third stage at 2545'. 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: 7010' 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 10" 3000 casing head with 4 1/2" casing hanger. 10" 3000 x 6" 3000 xmas tree with 2 3/8" tubing hanger. Wellhead representative to set all slips.

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.

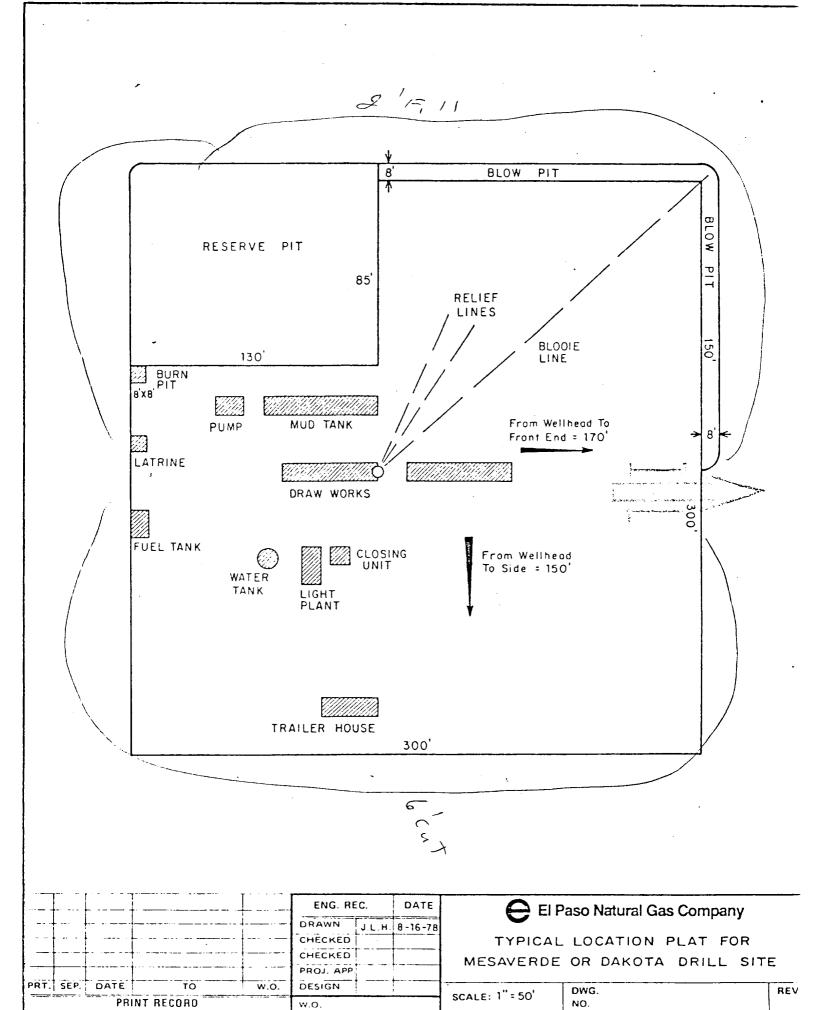
V. Cementing, cont'd.

Production casing - $(8 \ 3/4" \& 7 \ 7/8" \times 4 \ 1/2")$

First stage - use 143 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. (333 cu.ft. of slurry, 25% excess to cover the Gallup).

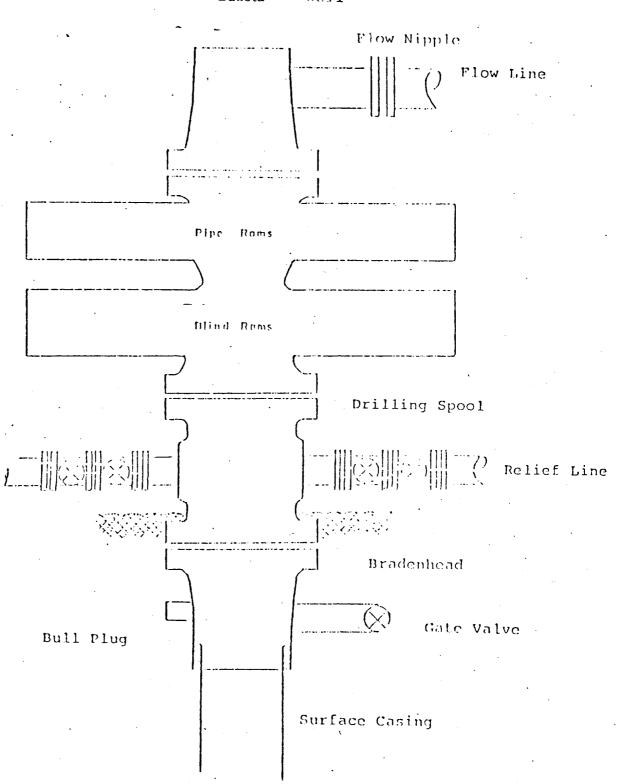
Second stage - circulate mud for 2 hours, then cement with 399 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (646 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

Third stage - circulate mud for 2 hours, then cement using 408 sks. Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (661 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.

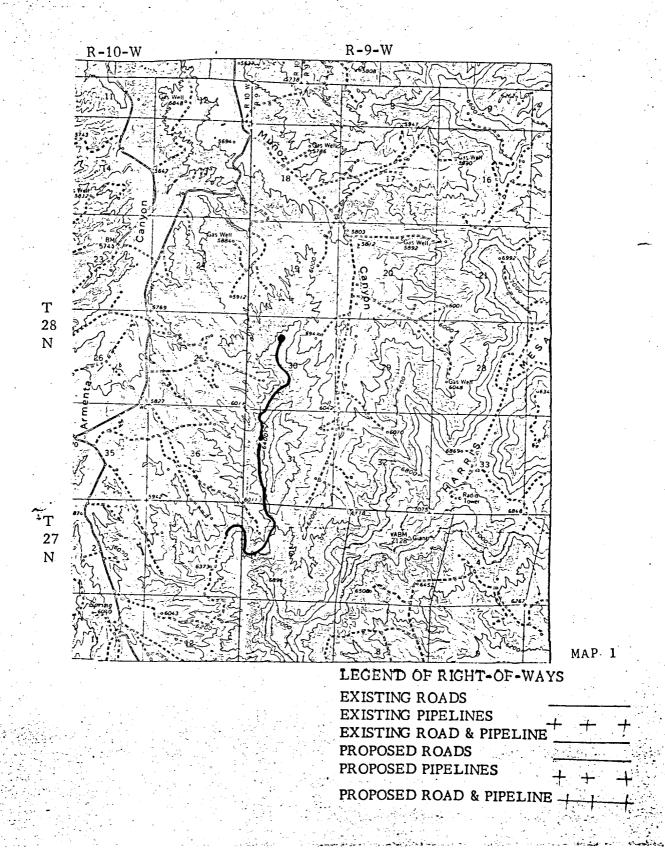


w.o.

NO.



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 Gas Company Lackey B #14 E NW 30-38-9

R-9-W A3tec 22 EPNG Tenneco Hancoc 32

MAP 2