oh Fruk

SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

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

	DEI AIT I MEIT	I OI THE IN	Litton		5. LEASE DESIGNATION AND SERIAL NO.
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				SF 077106 6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
	ILL 🖾	DEEPEN [PLUG B	ACK 📙	THE TAXABLE PARTY
b. TYPE OF WELL OIL G.	AS OTHER		SINGLE MULT	TIPLE	8. FARM OR LEASE NAME
. NAME OF OPERATOR	TELL OTHER		ZONE LZ9 ZONK		Lackey B
El Paso Na	tural Gas Cor	npany			9. WELL NO.
. ADDRESS OF OPERATOR					13E -
	, Farmington,				10. FIELD AND POOL, OR WILDCAT
. LOCATION OF WELL (R At surface			any State requirements.*)		Basin Dakota
	1025'N, 16	555'W			11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA Sec. 20, T-28-N, R-9-V
At proposed prod. zon					Sec.20,T-28-N,R-9-V NMPM
4 DISTANCE IN MILES	Same	REST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH 13. STATE
-	uth Blanco, N				San Juan NM
5. DISTANCE FROM PROPO	OSED*		16. No. of acres in lease		DF ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE I	r Line, ft.	1025	1862.62		WELL 320.00
(Also to nearest drig 8. DISTANCE FROM PROP	OSED LOCATION*		19. PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
TO NEAREST WELL, D OR APPLIED FOR, ON TH		700'	6700 '	Rotar	FY .
1. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
5835 ' GL					
3.		PROPOSED CASING	AND CEMENTING PROG	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH		QUANTITY OF CEMENT
13 3/4"	9 5/8"	36.0#	200'	224 c	cu.ft.circ. to surface
8 3/4" &	4 1/2"	10.5#&11.	6700'	1585	cu.ft 3 stages
7 7/8"					
	1		, , ,	1	
Ist stage	- 404 cu.ft.	to cover (allup		
	- 590 cu.ft. - 591 cu.ft.				
ard stage -	- 591 Cu.It.	to cover (JO ATAMO		
Selectively	v perforate a	and sandwat	er fracture t	he Dako	ota formation.
	, politorado d	and banawa			
A 3000 psi	WP and 6000	psi test d	double gate pr	eventer	equipped with
blind and p	pipe rams wil	ll be used	for blow out	prevent	tion on this well.
-1.	7 7 1 . 7				
This gas is	s dedicated.				
The $W/2$ of	Section 20	is dedicate	ed to this wel	1.	
·					uctive zone and proposed new productive
one. If proposal is to	drill or deepen direction				d and true vertical depths. Give blowout
ereventer program, if an	11 1				
al 1	J. Duses		p : 11 '	- 01 1	
SIGNED .	- Jane	TITLE	Drillin	g Clerk	DATE 179
(This space for Fede	ral or State office use)				
DEDICIM NO			ADDDAVIT DAME		
PERMIT NO.			APPROVAL DATE		1979
APPROVED BY			:		DATE - 18 - OW.
ALLINOTED DI					

*See Instructions On Reverse Side

OIL

STATE OF NEW MEXICO

LHERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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.
ET. PASO NAT	TURAL GAS COM	PANY	LACKEY "B"	(SF-077106	
Unit Letter	Section	Township	Ronge	County	5/_ 1_5/-2
С	20	28N	9W	San Juan	
Actual Footage Loca					
1025	feet from the No	orth un	_{e and} 1655	feet from the West	line
Ground Level Elev.	Producing Fo		Pool		Dedicated Acreage:
5935	Dakota		Basin Dakota		320.00 - Acres
2. If more the interest an	an one lease is d royalty).	dedicated to the		dentify the ownership	the plat below. thereof (both as to working of all owners been consoli-
dated by co Yes If answer i this form if No allowab	No If a s "no," list the necessary.)	unitization, force- nswer is "yes," t owners and tract ed to the well unt	pooling. etc? ype of consolidation descriptions which have il all interests have been	actually been consolic	
sion.					
**************************************					CERTIFICATION
1655'	1025		 	toined h	certify that the information concerning is true and complete to the my knowledge and belief.
}		👸		Name Dri	lling Clerk
	!		 	Position E1	Paso Natural Gas
SI	 F - 07 7 106			Company	cober 11, 1979
	 	ec.	 	Date	
	# · · #	13		shown or notes of under my is true	certify that the well location in this plat was plotted from field octual surveys made by me or supervision, and that the same and correct to the best of my ge and belief.
Å	i	×		/	ember=11, 1979
			The second of th	Regintered and/or j.an. Fred	Uminasimal Engineer a curveyor A. Kerr Inc.
The state of the s				Gertificora	
0 330 660 -9	0 1320 1650 198	0 2310 2640	2000 1500 1000	800 0 3950	1 /



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

Multi-Point Surface Use Plan

Lackey B #13E

- 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 To idilitional 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 rabbit brush growing. Cattle, horses and deer 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 - Lackey B #13E

I. Location: 1025'N, 1655'W, Section 20, T-28-N, R-9-W, San Juan County, NM

Field: Basin Dakota Elevation: 5835'

II. Geology:

Α.	Formation Tops:	Surface San	Jose	Menefee	3720 '
	·	Ojo Alamo	1015'	Point Lookout	4360'
		Kirtland	1140'	Gallup	5520 '
		Fruitland	1650 '	Greenhorn	6295'
		Pic.Cliffs	2040'	Graneros	6360 '
		Lewis	2120'	Dakota	6480 '
		Mesa Verde	3660 '	Total Depth	6700 '

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 Size	Depth	Csg.Size	Wt.&Grade
	0.274	13 3/4"	200'	9 5/8"	36.0# K-55
	8 3/4	."&7 7/8"	6700 '	4 1/2"	10.5# 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 4860' and tool for third stage at 2220'. 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: 6700' of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple and Baker expendable check valve with drill type quide.
- D. Wellhead Equipment: 9 5/8" x 3000 casing head, 10" 3000 x 6" 3000 xmas tree.

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.

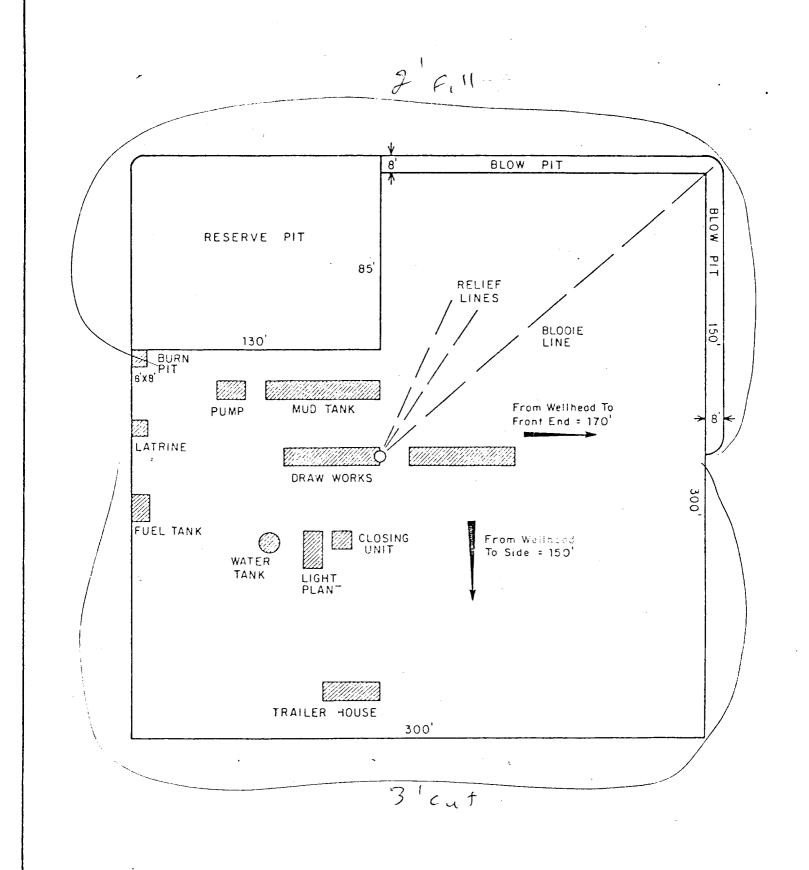
V. Cementing, cont'd.

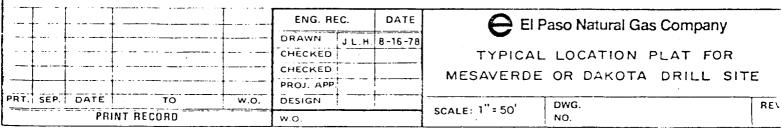
Production casing - $(7 7/8" \times 4 1/2")$

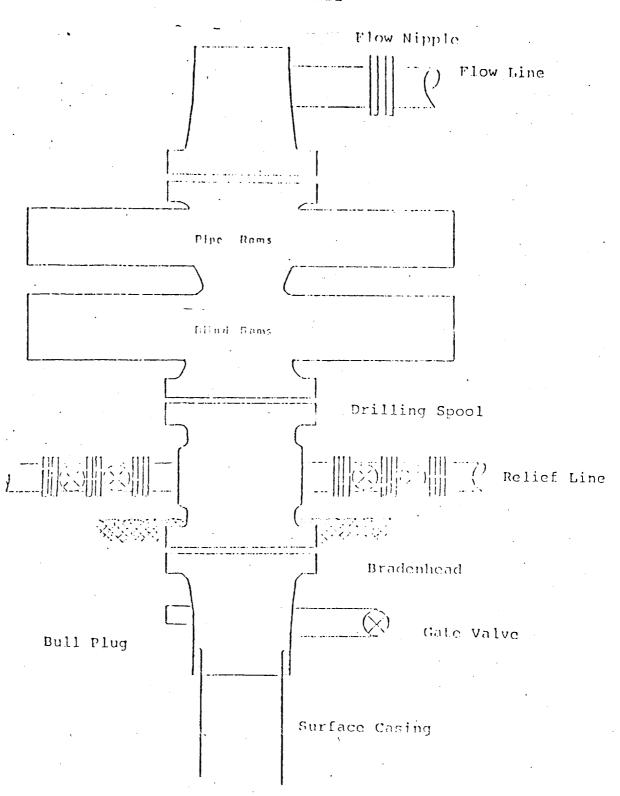
First stage - use 187 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 80 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (404 cu.ft. of slurry, 50% excess to cover the Gallup).

Second stage - circulate mud for 2 hours, then cement with 364 sks. of 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride and 8.3 gallons of water per sack (590 cu.ft. of slurry, 60% excess to cover the Mesa Verde).

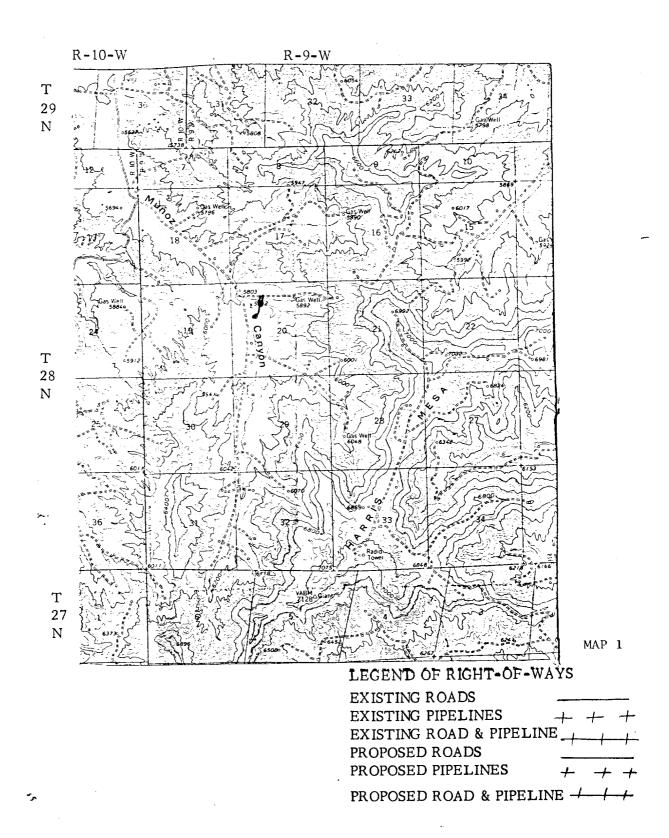
Third stage - circulate mud for 2 hours, then cement using 365 sks. Class "7" Poznix with 6% gel and 2% celcium chloride mixed with 8.3 gallons water per sack (591 cu.ft. of slurry, 60% excess to fill to base of Ojo Alamo). Run temperature survey on top stage only at 8 hours. WOC 18 hours.







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 Gas Company Lackey B #13 E NW 20-28-9

MAP 2

Proposed Location 🍎