Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: SF 077092

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [X]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Lackey A

2. NAME OF OPERATOR: El Paso Natural Gas Company

9. WELL NO.: 1A

3. ADDRESS OF OPERATOR: PO Box 4289, Farmington, NM 87499

10. FIELD AND POOL, OR WILDCAT: Aztec Pic.Cliffs Blanco Mesa Verde

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1540'S, 895'E

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.12,T-29-N,R-10-W NMPM

At proposed prod. zone

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FEB 20 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 1.5 miles North of Blanco, NM

12. COUNTY OR PARISH: San Juan | 13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 895'

16. NO. OF ACRES IN LEASE: 2307.84

17. NO. OF ACRES ASSIGNED TO THIS WELL: 156.18 E/313.28

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 600'

19. PROPOSED DEPTH: 5080'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5876'GL

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

22. APPROX. DATE WORK WILL START*:

23. PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to administrative appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	9 5/8"	32.3#	200'	224 cu.ft.circ.surface
8 3/4"	7"	20.0#	2725'	450 cu.ft.cover Ojo Alamo
6 1/4"	4 1/2"	10.5#	2575-5080'	438 cu.ft.circ.liner

Selectively perforate and sandwater fracture the Pictured Cliffs and Mesa Verde formations.

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.

Archaeological clearance and BLM inspection was performed in July, 1979.

The E/2 of Section 12 is dedicated to this well.

IN ABOVE 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.

24.

SIGNED Peggy Cook TITLE Drilling Clerk DATE Feb.15, 1985

(This space for Federal or State office use)

RECEIVED
MAR 12 1985
OIL CON. DIV.
DIST. 3

APPROVED AS AMENDED
MAR 08 1985
/s/ J. Stan McKee
AREA MANAGER
FARMINGTON RESOURCE AREA

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

NMOCC

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

Form C-102
Revised 10-1-78

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

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	LACKEY "A" (SF-077092)	1A

Unit Letter	Section	Township	Range	County
I	12	29N	10W	San Juan

Actual Footage Location of Well:
1540 feet from the South line and 895 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5876	Pictured Cliffs-Mesa Verde	Aztec Pictured Cliffs Ext. Blanco Mesa Verde	~~157.10~~ & 313.28 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

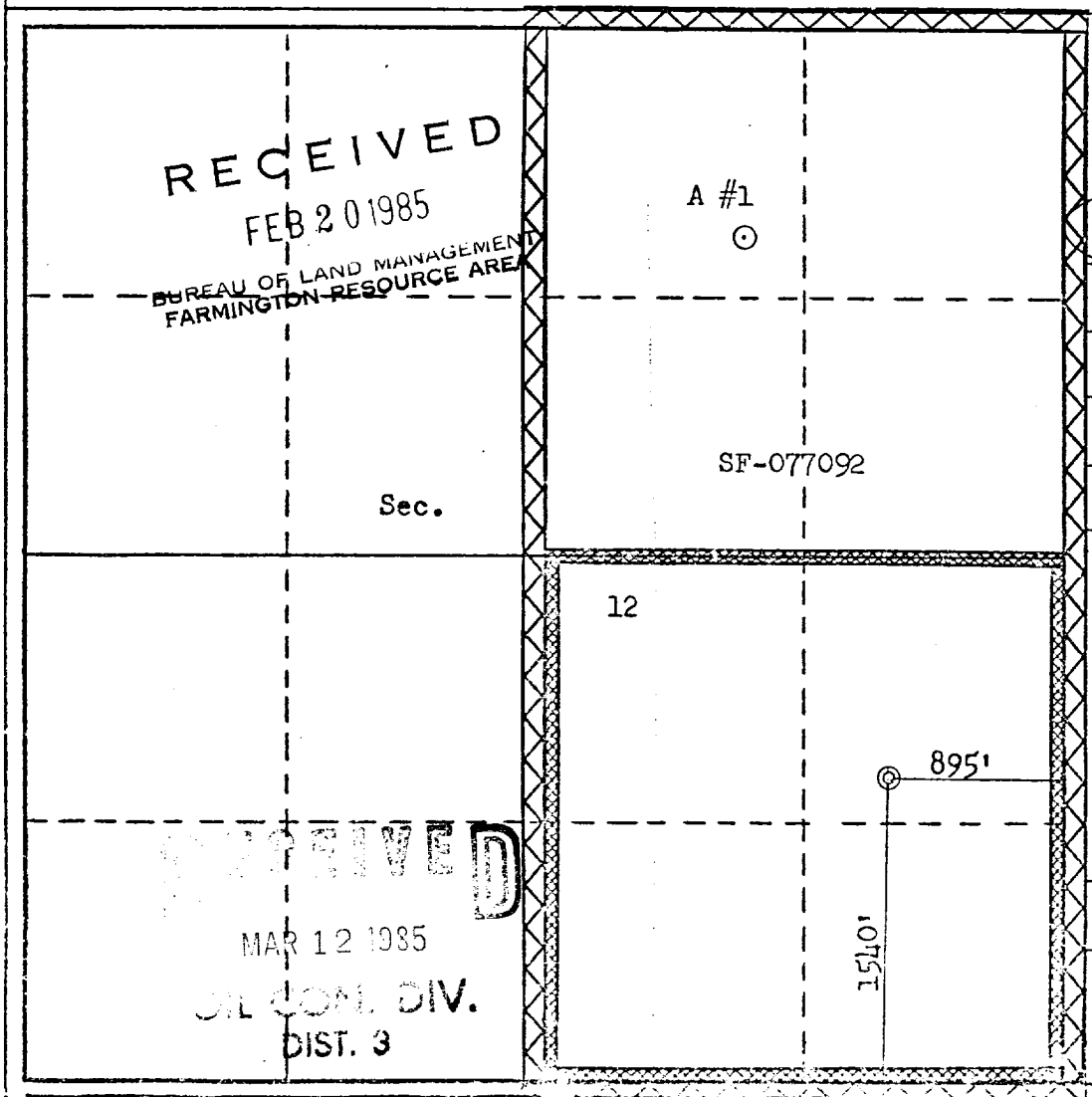
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 answer 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.



RECEIVED
FEB 20 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

RECEIVED
MAR 12 1985
OIL CON. DIV.
DIST. 3

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Peggy Cook
Name
Drilling Clerk
Position
El Paso Natural Gas Co.
Company
February 15, 1985
Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
June 13, 1979
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr, Jr.
Certificate No.
3950

Operations Plan
EPNG Lackey A #1A

I. Location: 1540'S, 895'E, Sec. 12, T-29-N, R-10-W, San Juan Co.,NM

Field: Aztec PC & Blanco MV Elevation: 5876'GL

II. Geology:

A. Formation Tops:

Surface	Nacimiento	Lewis	2524'
Ojo Alamo	1321'	Mesa Verde	3996'
Kirtland	1327'	Menefee	4131'
Fruitland	2049'	Point Lookout	4626'
Pic.Cliffs	2379'	Total Depth	5080'

B. Logging Program: GR-Ind. and GR-Density-Neutron at 2725' &TD.

C. Coring Program: none

D. Natural Gauges: 3990', 4120', 4615', and at TD. Also gauge any noticeable increase in gas. Record all gauges in daily drilling report and on morning report.

III. Drilling:

A. Mud Program: mud from surface to 2725'. Gas from intermediate casing to total depth.

IV. Materials:

A. Casing Program:

Hole Size	Depth	Csg.Size	Wt.&Grade
13 3/4"	200'	9 5/8"	32.3#K-55
8 3/4"	2725'	7"	20.0#K-55
6 1/4"	2575-5080'	4 1/2"	10.5#K-55

B. Float Equipment: 9 5/8" surface casing - Texas pattern guide shoe.

7" intermediate casing - cement guide shoe and self-fill insert float valve, 5 stabilizers every other joint above shoe. Run float two joints above shoe.

4 1/2" liner - 4 1/2" liner hanger with neoprene packoff. Geyser shoe and plug latch-in collar assembly.

C. Tubing: 5080' of 2 3/8", 4.7#, J-55 tubing, common pump seating nipple one joint above bottom. Tubing will be open ended.
2575' of 1 1/4", 2.33#, J-55 tubing with a common pump seating nipple above a perforated joint plugged on bottom. Isolate producing formations with a packer.

D. Wellhead equipment: 10" 900 x 9 5/8" casing head. 10" 900 x 6" 900 dual xmas tree.

Operations Plan -Lackey A #1A

V. Cementing:

9 5/8" surface casing- use 190 sks. Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (224 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test to 600#/30 minutes.

7" intermediate casing - use 205 sks. 65/35 Class "B" Poz with 6% gel and 2% calcium chloride (8.3 gallons of water per sack), followed by 100 sks. Class "B" with 2% calcium chloride (450 cu.ft. of slurry, 100% excess to cover Ojo Alamo). Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1200#/30 minutes.

4 1/2" liner - precede cement with 20 barrels gel water (2 sks. gel). Cement with 315 sks. 50/50 Class "B" Poz with 2% gel, 0.6% Halad-9, 6.25# gilsonite plus 1/4# Flocele per sack (438 cu.ft. of slurry, 70% excess to circulate liner). WOC 18 hours.

Multi-Point Surface Use Plan
Lackey A #1A

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 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 Blanco Ditch.

6. Source of Construction Materials - No additional materials will 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, will be provided for human waste.

7. cont'd. 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 drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

8. Ancillary Facilities - No camps or air strips 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 operations 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.

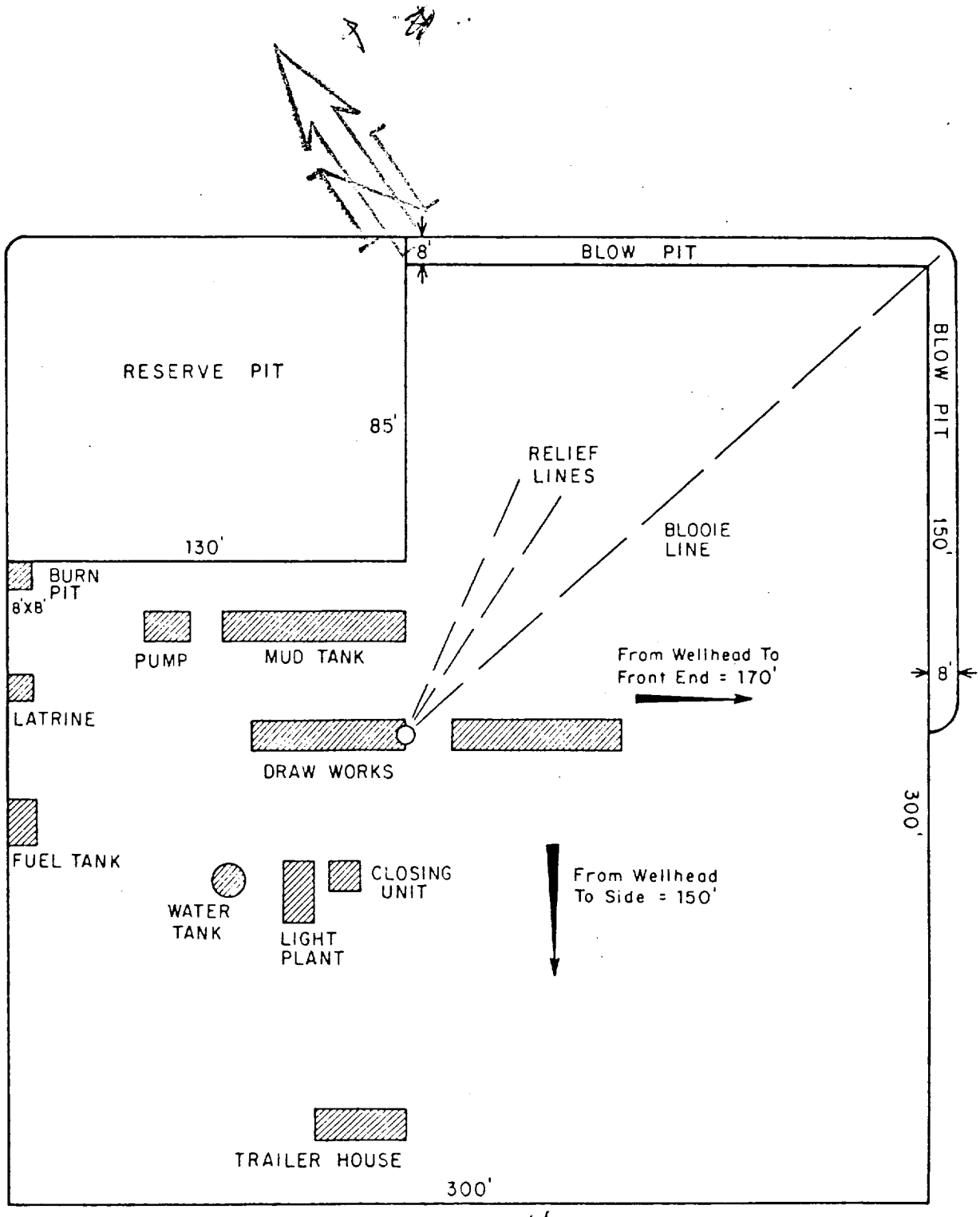
11. Other Information- Terrain is sage flat with grass and sage growing. Cattle and deer are occasionally seen on the proposed project site.

12. Operators Representative - D. C. Walker, Post Office Box 4289, Farmington, NM 87499.

13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Project Drilling Engineer

GWB:pb



No Cut No Fill

PRT.	SEP.	DATE	TO	W.O.

PRINT RECORD

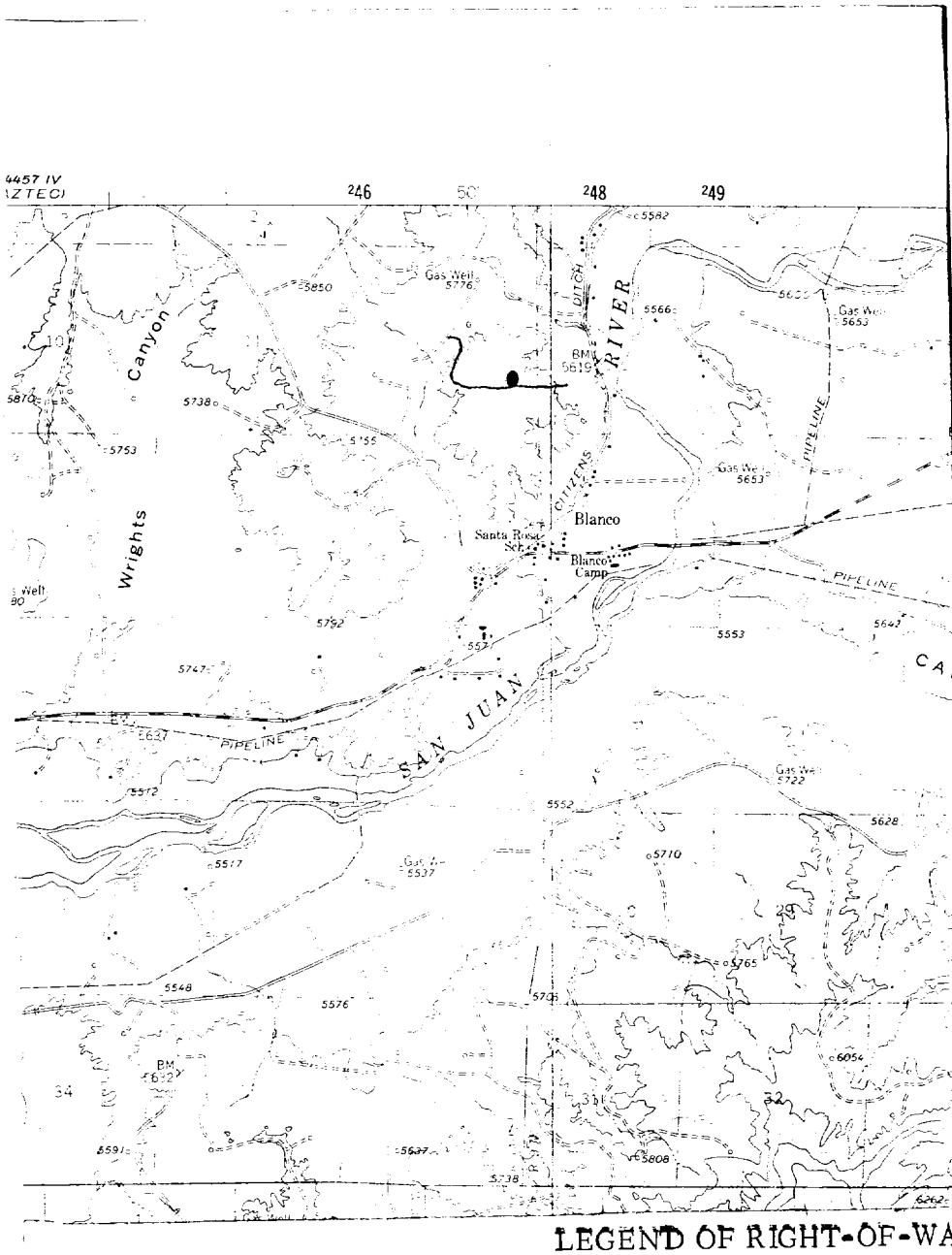
ENG. REC.		DATE
DRAWN	J.L.H.	8-16-78
CHECKED		
CHECKED		
PROJ. APP.		
DESIGN		

El Paso Natural Gas Company

TYPICAL LOCATION PLAT FOR MESAVERDE OR DAKOTA DRILL SITE

SCALE: 1" = 50' | DWG. NO. | REV.

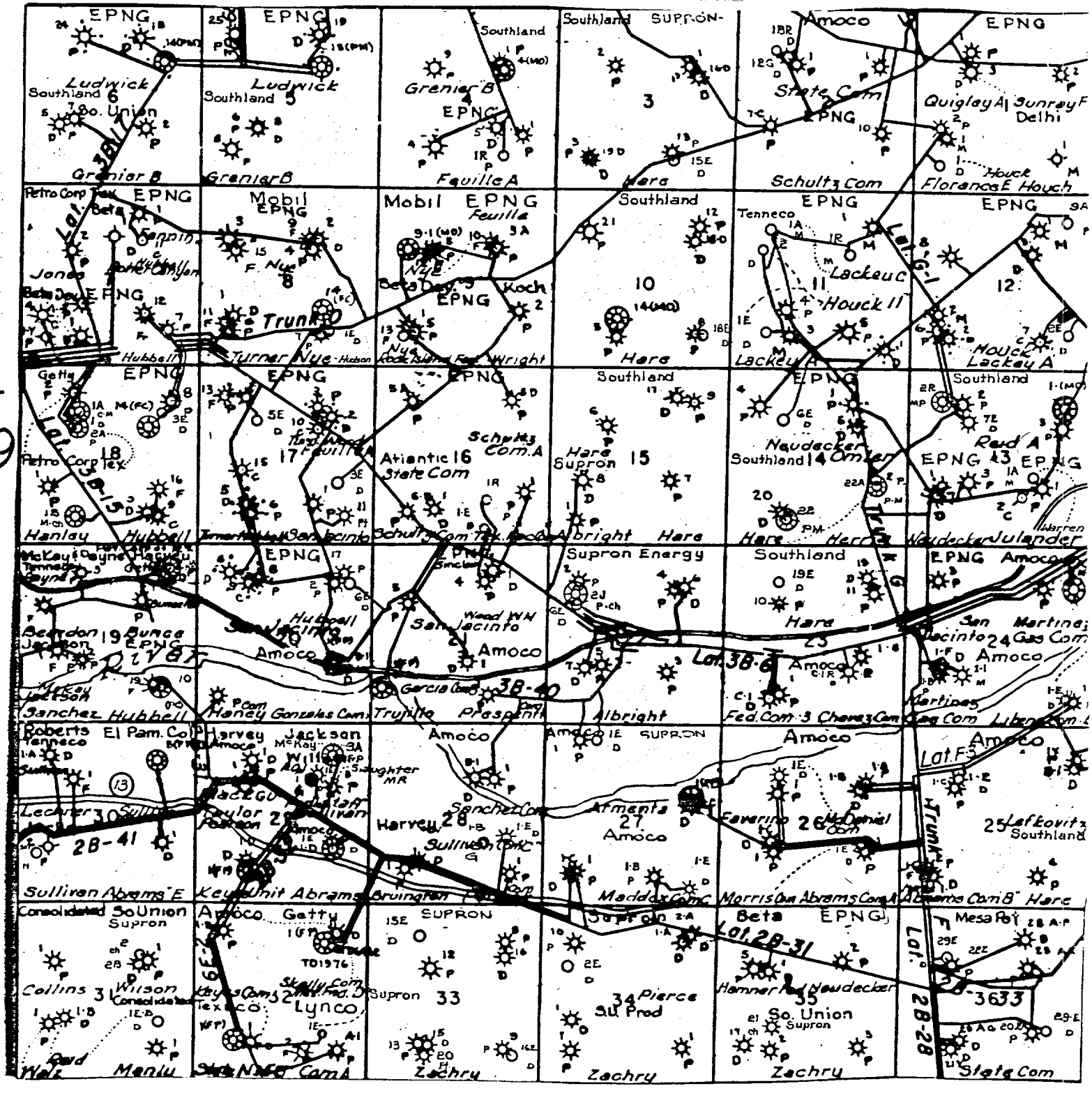
Lackey A #1A (PM)
SE 12-29-10



LEGEND OF RIGHT-OF-WAYS

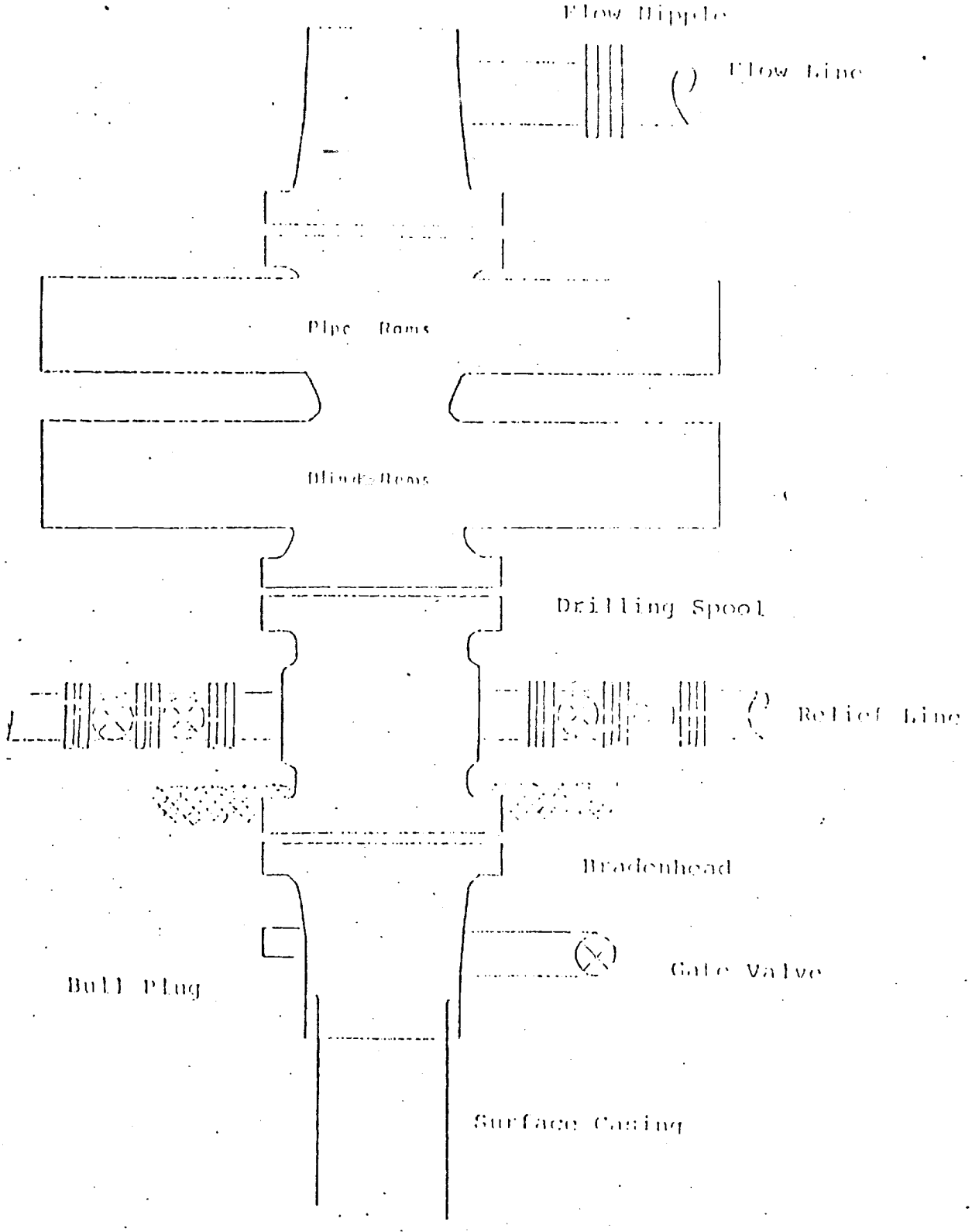
EXISTING ROADS
EXISTING PIPELINES
EXISTING ROAD & PIPELINE
PROPOSED ROADS
PROPOSED PIPELINES
PROPOSED ROAD & PIPELINE

Lackey A #1A (PM)
SE 12-29-10



Typical B.O.P. Installation
for Mesa Verde Well

LACKEY A 1A



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