

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-24203

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK
 b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 El Paso Natural Gas Company

3. ADDRESS OF OPERATOR
 PO Box 289, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 860'N, 1680'E
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 5 miles East of Aztec, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 860'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 700'

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6286'GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	200'	165 cu.ft.circ. to surface
6 3/4"	4 1/2"	10.5#	3185'	555 cu.ft.to cover Ojo Alamo

5. LEASE DESIGNATION AND SERIAL NO.
 SF 080917
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
 Atlantic B
 9. WELL NO.
 16
 10. FIELD AND POOL, OR WILDCAT
 Aztec Pic.Cliffs
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 4, T-30-N, R-10-W
 NMPM
 12. COUNTY OR PARISH
 San Juan
 13. STATE
 NM
 17. NO. OF ACRES ASSIGNED TO THIS WELL 159.70
 20. ROTARY OR CABLE TOOLS
 Rotary
 22. APPROX. DATE WORK WILL START*

Selectively perforate and sandwater fracture the Pictured Cliffs 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 NE/4 of Section 4 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 N. G. Busco TITLE Drilling Clerk DATE _____

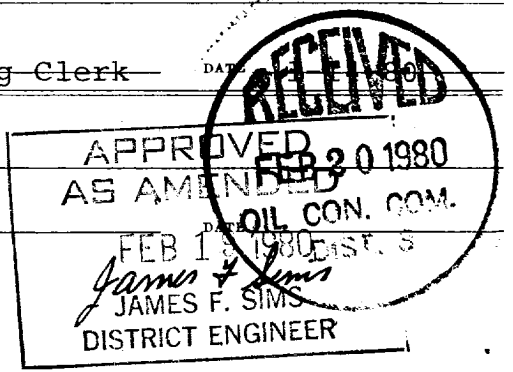
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

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

*See Instructions On Reverse Side
 NMCC



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

Operator EL PASO NATURAL GAS COMPANY		Lease ATLANTIC B (SF-080917)		Well No. 16
Unit Letter B	Section 4	Township 30-N	Range 10-W	County SAN JUAN

Actual Footage Location of Well:
860 feet from the NORTH line and 1680 feet from the EAST line

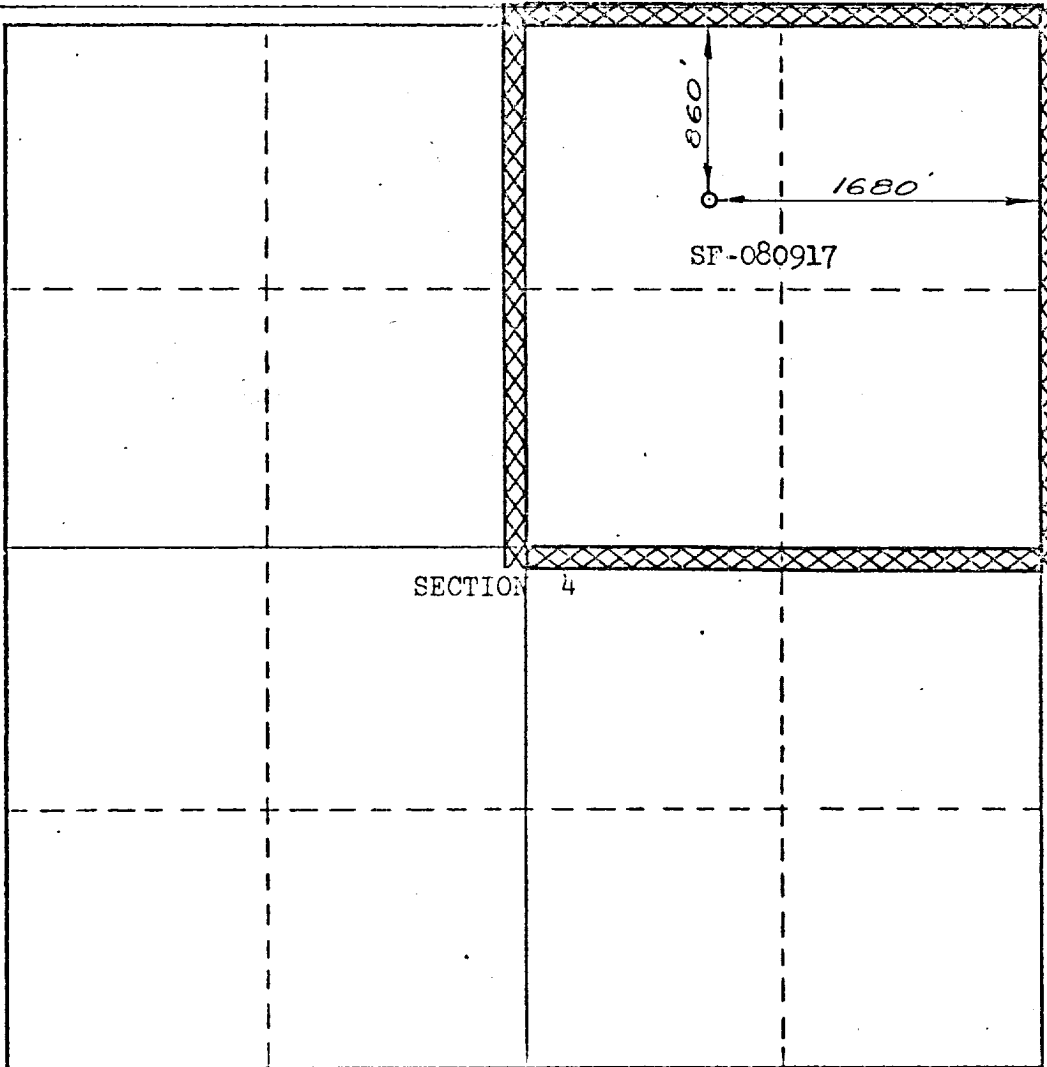
Ground Level Elev. 6286	Producing Formation PICTURED CLIFFS	Pool Blanco AZTEC PICTURED CLIFFS	Dedicated Acreage: 159.70 Acres
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1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than 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.



CERTIFICATION

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

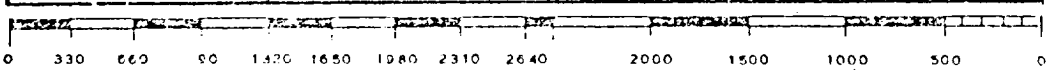
D. J. Busco

Name
Drilling Clerk
Position
El Paso Natural Gas
Company
January 14, 1980
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
FEB 20 1980
GUSTON, CUMS
DIST. 3
Registered Professional Engineer
and/or Land Surveyor

[Signature]
Certificate No. 1760



Well Name Atlantic B#16
Location NE 4 30-10
Formation PC

We, the undersigned, have inspected this location and road.

U. S. Forest Service
Dobson, Ford
Archaeologist

Date
10/4/79
Date

Bureau of Indian Affairs Representative
Bob Mad
Bureau of Land Management Representative

Date
10/4/79
Date

Andy Stump
U. S. Geological Survey Representative - AGREES
TO THE FOOTAGE LOCATION OF THIS WELL.

Date
10/4/79
Date

REASON:
Seed Mixture: IF

Equipment Color: Brown

Road and Row: (Same) or (Separate)

Remarks:

Multi-Point Surface Use Plan
Atlantic B #16

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 Hart Canyon Water Well.
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 slopes with sagebrush and juniper growing. Cattle and deer are seen occasionally 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

L. A. Aimes
Project Drilling Engineer

Operations Plan - Atlantic B #16

I. Location: 860'N, 1680'E, Section 4, T-30-N, R-10-W, San Juan County, NM

Field: Aztec Pictured Cliffs

Elevation: 6286'GR

II. Geology:

A. Formation Tops:	Surface	Nacimiento	Pictured Cliffs	2960'
	Ojo Alamo	1560'	Lewis	3145'
	Kirtland	1705'	Total Depth	3185'
	Fruitland	2605'		

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

C. Coring: none

III. Drilling:

A. Mud Program: mud from surface to TD.

IV. Materials:

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Csg.Size</u>	<u>Wt.&Grade</u>
	12 1/4"	200'	8 5/8"	24.0# J-55
	7 7/8"	3185'	4 1/2"	10.5# K-55

B. Float Equipment: 8 5/8" surface casing - Pathfinder Texas Pattern guide shoe (Prod.No. 2006-1-012)

4 1/2" production casing - run Pathfinder guide shoe (Part#2003-1-000) on bottom of a 15' shoe joint. Run a Howco self fill insert float valve (Price Ref.36A & 37) on top of the shoe joint. Run 8 Baker 4 1/2" x 7 7/8" (Type 244-65-2401) centralizers, one on each joint beginning with the shoe joint.

C. Tubing: 3185' of 1 1/4" EUE, 2.4#, K-55 tubing

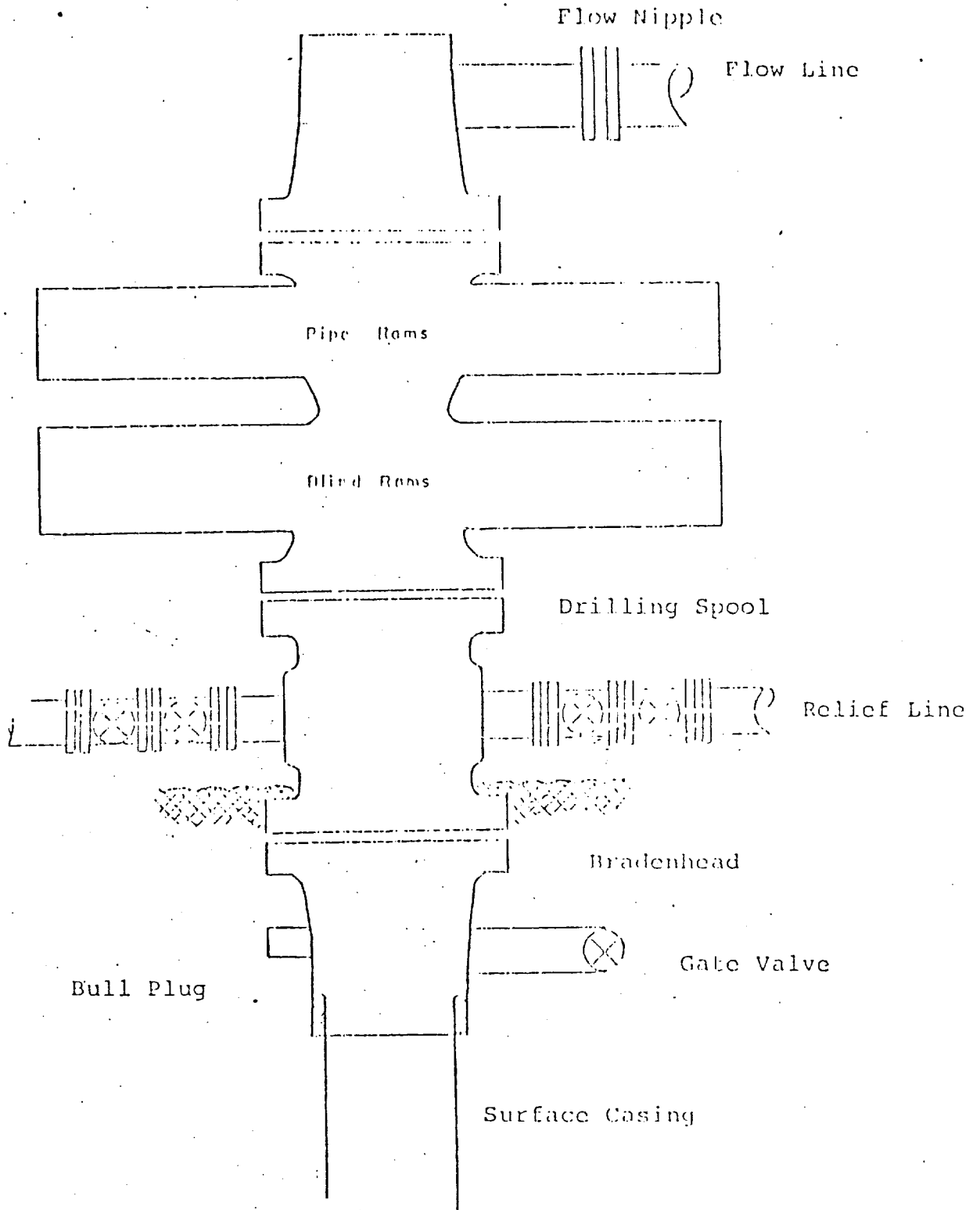
D. Wellhead Equipment: 8 5/8" x 4 1/2" 2000 psi WOG wellhead with a 4 1/2" x 2 3/8" 2000 psi WOG tubing head. Wellhead representative to set 4 1/2" casing slips. 4 1/2" casing to be cut off 24" above casing slips.

V. Cementing:

8 5/8" surface casing - 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 to surface). WOC 12 hours. Test casing, wellhead, and BOP to 600#/30 minutes.

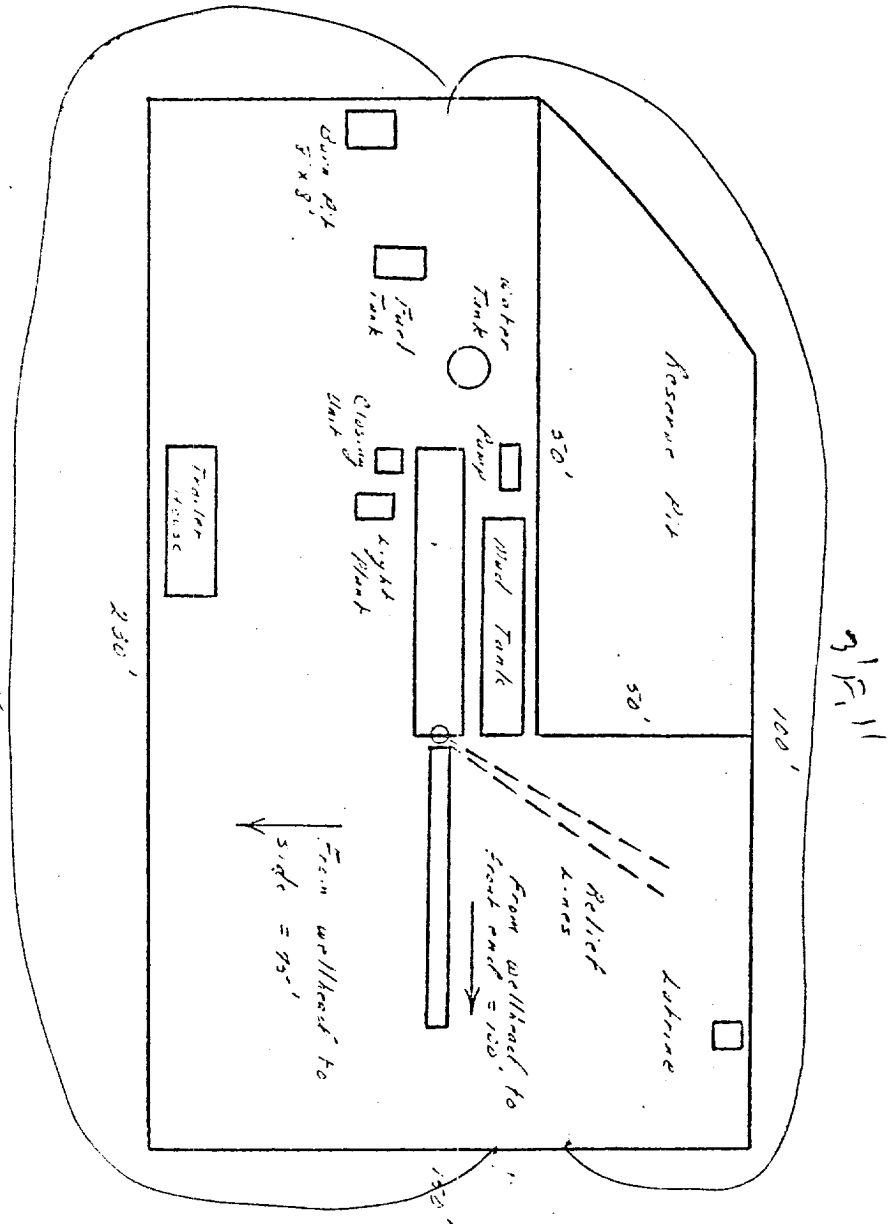
4 1/2" production casing - precede cement with 5 bbls. water. Cement with 300 sks. 65/35 Class "B" Poz with 6% gel and 8.3 gal. water/sk. followed by 75 sks. 50/50 Class "B" Poz w/2% gel (555 cu.ft. of slurry, 50% excess to cover Ojo Alamo). Spot 135 gal. 7 1/2% acetic acid on top of plugs. Run temperature survey after 12 hours.

Typical Mud Drilled B.O.P. Installation
for Pictured Cliffs Well



8" Series 900 Double Gate BOP, rated
at 3000 psi Working Pressure

El Paso Natural Gas Company
 Typical location Plat for Richard Child's Well



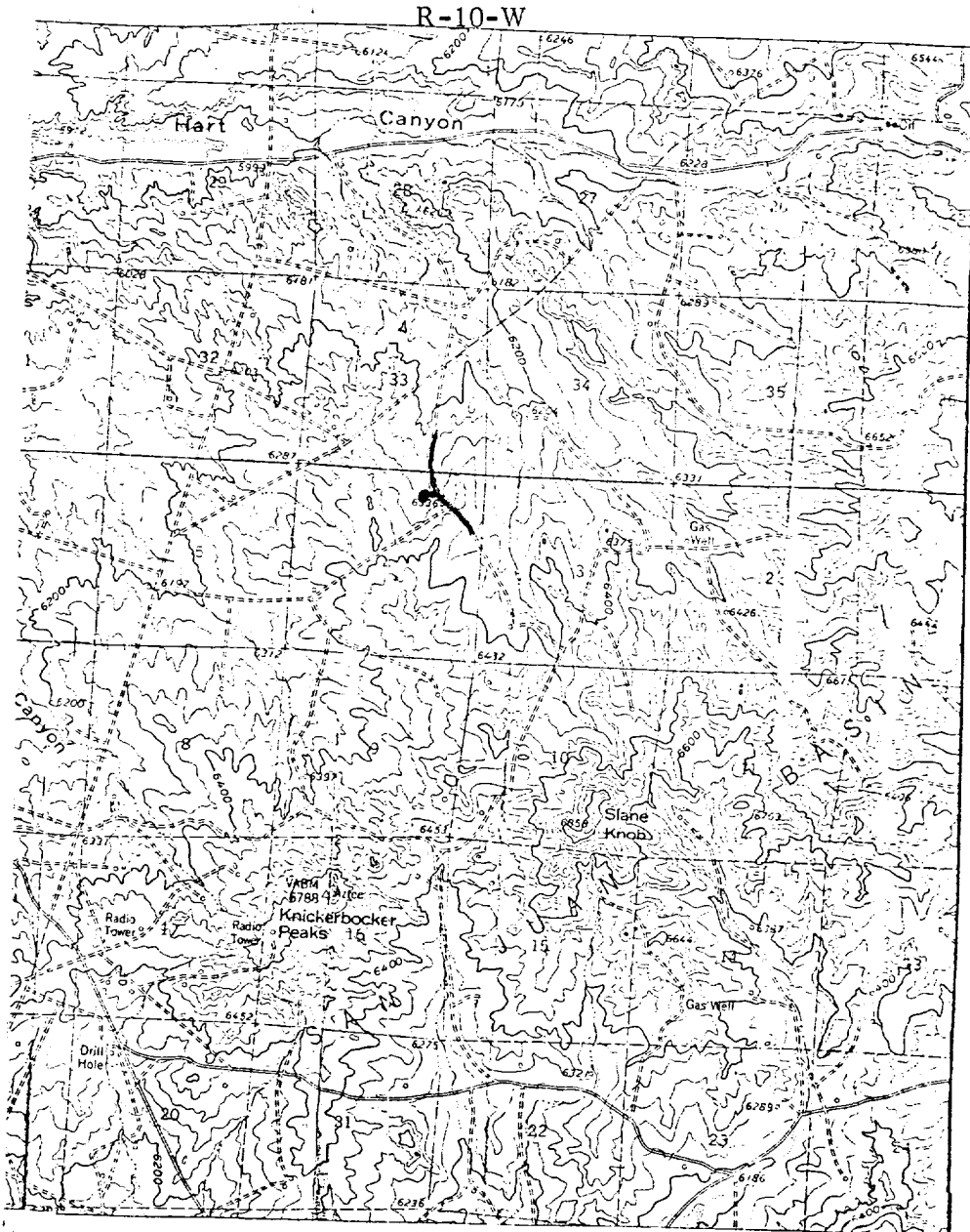
3' C.W.X

Scale: 1/8" = 26'

El Paso Natural Gas Company
 Atlantic B # 16
 NE 4-30-10



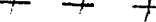

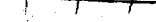
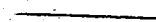
T
31
N

T
30
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MAP 1

LEGEND OF RIGHT-OF-WAYS

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

El Paso Natural Gas Company
Atlantic B #16
NE 4-30-10

R-10-W

T
30
N

