

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-23083

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 010910
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR El Paso Natural Gas Company			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR PO Box 990, Farmington, NM 87401			8. FARM OR LEASE NAME Hubbard
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 800'N, 1180'E At proposed prod. zone			9. WELL NO. 6
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6 miles East of LaPlata, NM			10. FIELD AND POOL, OR WILDCAT Blanco Pic.Cliffs Ext
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 800'		16. NO. OF ACRES IN LEASE 600	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec.30,T-32-N,R-11-W NMPM
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3000		19. PROPOSED DEPTH 3350'	12. COUNTY OR PARISH 13. STATE San Juan NM
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6584'GR			20. ROTARY OR CABLE TOOLS Rotary
22. APPROX. DATE WORK WILL START*			

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#	120'	106 cu.ft.circ.to surface
6 3/4"	2 7/8"	6.4#	3350'	600 cu.ft.to top of Ojo Al

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 30 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 A. G. Duice TITLE Drilling Clerk DATE May 24, 1978
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ok Frank

*See Instructions On Reverse Side

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.

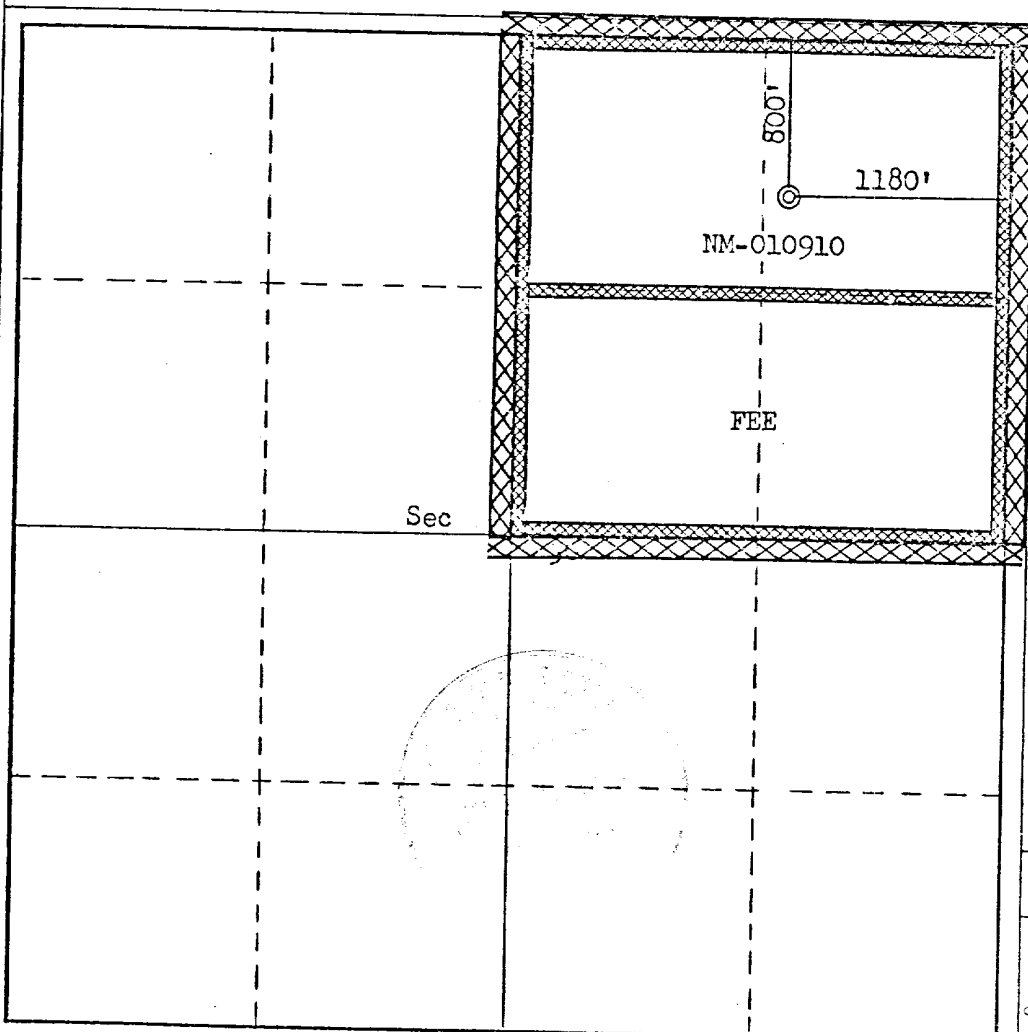
Operator EL PASO NATURAL GAS COMPANY			Lease HUBBARD (NM-010910)		Well No. 6
Unit Letter A	Section 30	Township 32N	Range 11W	County San Juan	
Actual Footage Location of Well: 800 feet from the North line and 1180 feet from the East line					
Ground Level Elev. 6584	Producing Formation Pictured Cliffs		Pool Blanco Pictured Cliffs Ext.		Dedicated Acreage: 160.00 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 Communitization

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.



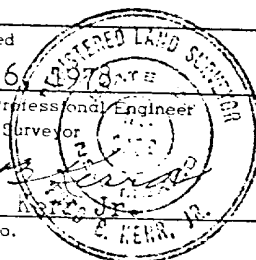
CERTIFICATION

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

A. G. Lucas
Name
Drilling Clerk
Position
El Paso Natural Gas Co.
Company
May 24, 1978
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
April 26, 1978
Registered Professional Engineer and/or Land Surveyor
Fred B. [Signature]
Fred B. [Signature]
Certificate No.
2050



Multi-Point Surface Use Plan
Hubbard #6

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 a water hole located at Aztec Ditch.
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 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 #2 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 green (Federal Standard #595-34127)
11. Other Information - The terrain is rolling hills and sagebrush flats with pinon and cedar growing. Cattle graze the proposed project site.

12. Operator's Representative - W. D. Dawson, Post Office Box 990,
Farmington, New Mexico 87401
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.

May 25, 1978

D.C. Walker
D. C. Walker DR
Project Drilling Engineer

DCW:pb

REHABILITATION AGREEMENT

Lease No.: NM-010910; Well Name & No.: Hubbard #6
Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 30, T. 32 N., R. 11 W.

El Paso Natural Gas Company intends to drill a well on surface owned by Robb Brothers. The lessee/operator agrees to complete the following rehabilitation work if the well is a producer:

- ☒ Yes ☐ No Maintain access roads and provide adequate drainage to road
- ☒ Yes ☐ No Reshape and reseed any area in excess of the pump and support facilities.

Other requirements: _____

The following work will be completed when the well is abandoned:

- ☐ Yes ☒ No Site will require reshaping to conform to existing topography.
- ☒ Yes ☐ No Pit will be fenced until dry, then filled to conform to topography.
- ☒ Yes ☐ No Entire disturbed area will be reseeded. If yes, the following seed mixture will be used:

RECOMMENDED PROCEDURE AT TIME OF ABANDONMENT

- ☒ Yes ☐ No Access road will be rehabilitated and reseeded using the same seed mixture as above.
- ☐ Yes ☐ No Access road will remain for landowner's use.

Other requirements: _____

Landowner

Name: Robb Brothers %Arlo Robb
Address: Route #1, Box 95
City: Aztec
State: New Mexico
Telephone: 505-334-6729
Date: _____

Operator/Lessee

Name: EL PASO NATURAL GAS COMPANY
Address: P. O. Box 990
City: Farmington
State: New Mexico 87401
Telephone: (505) 325-2841
Date: _____

☒ Yes ☐ No I certify rehabilitation has been discussed with the surface owner. John A. Allen -Regional Land Manager

This agreement covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.

Operations Plan - Hubbard #6

I. Location: 800'N, 1180'E, Section 30, T-32-N, R-11-W, San Juan County, NM
Field: Blanco Pictured Cliffs Elevation: 6584'GR

II. Geology:

A. Surface Formation: Nacimiento

Sub-surface Formation Tops:

Ojo Alamo	1385'	Pictured Cliffs	3200'
Kirtland	1435'	Lewis	3310'
Fruitland	2750'	Total Depth	3350'

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

C. Coring: none

D. Testing: none

III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1978 Drilling Program - approximately 4 days to complete.

B. Circulating Medium: Treated water and a low solids gel base mud will be used 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"	120'	8 5/8"	24.0# J-55
	6 3/4"	3350'	2 7/8"	6.4# J-55

B. Float Equipment: 8 5/8" surface casing - cement guide shoe.

2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.

C. Tubing: none

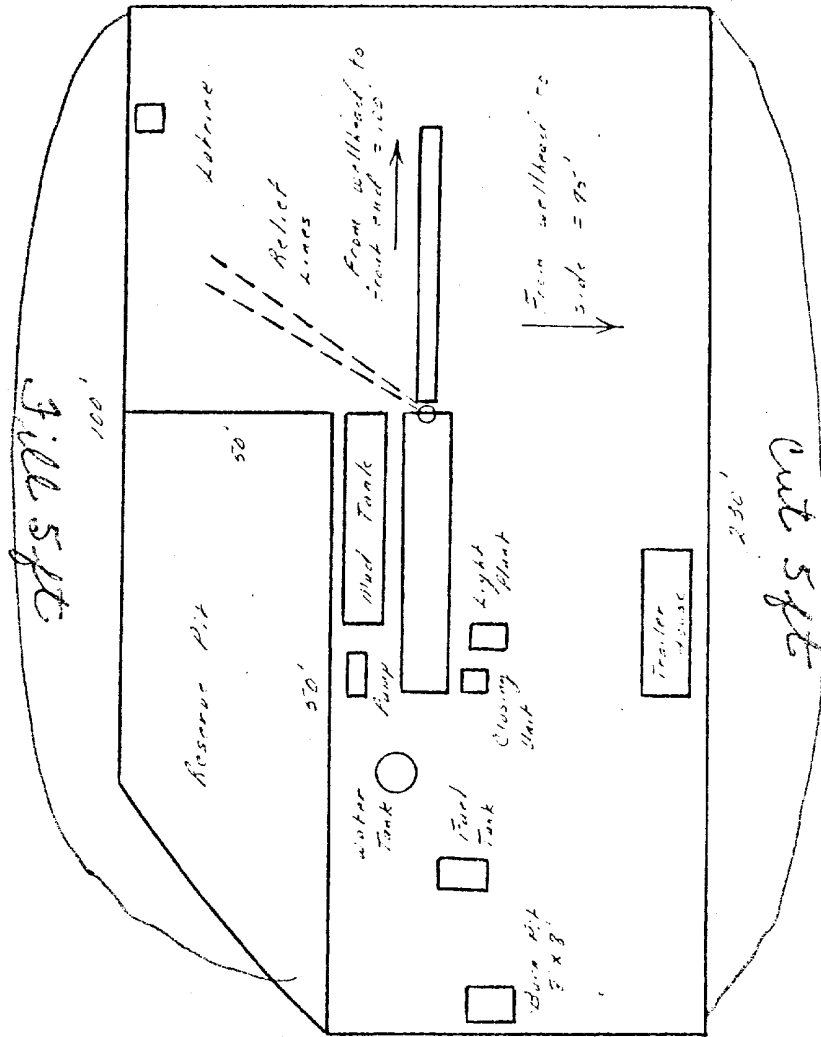
D. Wellhead Equipment: Larkin wellhead (fig. 75)

V. Cementing:

8 5/8" surface casing - 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/30 minutes.

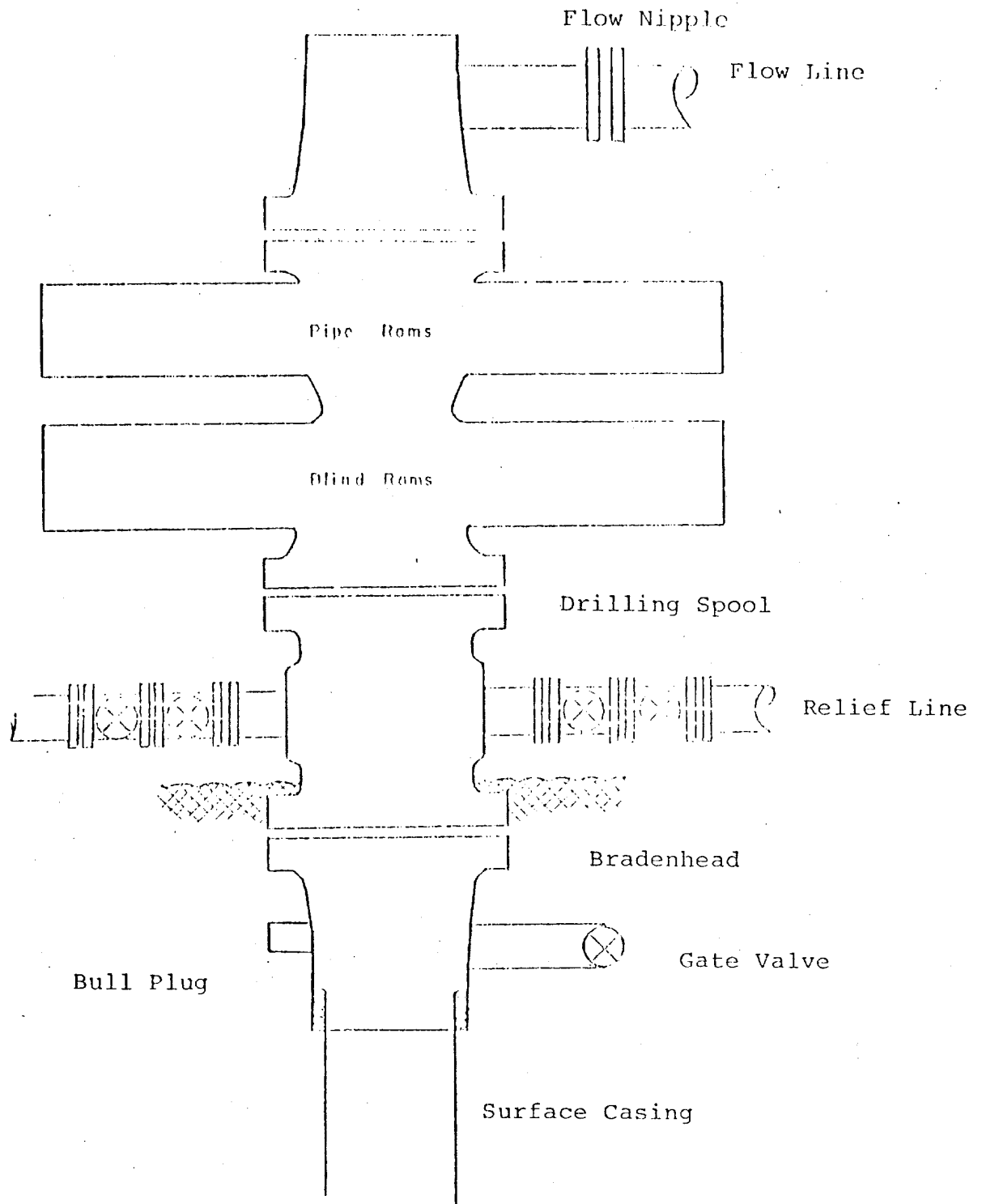
2 7/8" production - 296 sks. 65/35 Class "B" Poz with 6% gel, 2% CaCl₂, and 8.3 gallons water per sack followed by 100 sks. Class "B" neat cement (600 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

El Paso Natural Gas Company
 Typical Location Plot for Pictured Chits Well



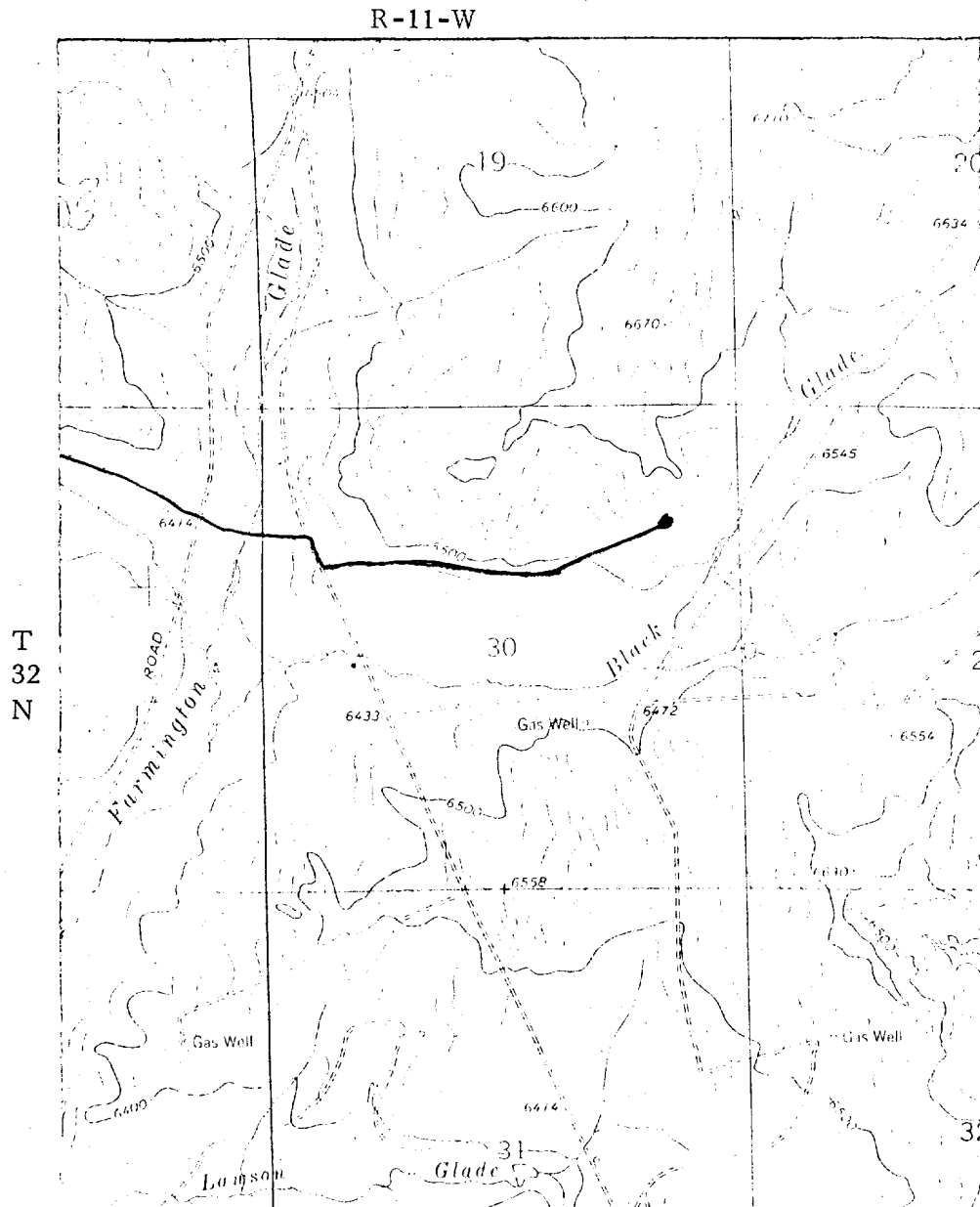
Scale 1/4" = 20'

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



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

EL PASO NATURAL GAS COMPANY
Hubbard #6
NE 30-32-11



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

Hubbard #6
NE 30-32-11

