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

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

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

2. NAME OF OPERATOR: El Paso Natural Gas Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1450'N, 1100'W
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: NM 019413
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: McDurmitt
9. WELL NO.: 1E
10. FIELD AND POOL, OR WILDCAT: Basin Dakota
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 6, T-31-N, R-12-W NMPM
12. COUNTY OR PARISH: San Juan
13. STATE: NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 3 miles northeast of Aztec, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1100'
16. NO. OF ACRES IN LEASE: 397.62
17. NO. OF ACRES ASSIGNED TO THIS WELL: N 312.76
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 2000'
19. PROPOSED DEPTH: 7095'
20. ROTARY OR CABLE TOOLS: Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5881'GL
22. APPROX. DATE WORK WILL START*:

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

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

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36.0#	200'	130 cu.ft.circulated
7 7/8"	4 1/2"	10.5#	7095'	2009-cu.ft. 3 stages

1st stage - 372 cu.ft. to cover Gallup
2nd stage - 535 cu.ft. to cover Mesa Verde
3rd stage -1102 cu.ft. to cover Ojo Alamo

Selectively perforate and sand water 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 6 is dedicated to this well.

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

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 3/8/85

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

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

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

Form C-107
Revised 10-

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

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	McDURMITT (NM 019413)	1E

Unit Letter	Section	Township	Range	County
E	6	31N	12W	San Juan

Actual Footage Location of Well: 1450 feet from the North line and 1100 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5881	Dakota	Basin	312.76 Acres

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

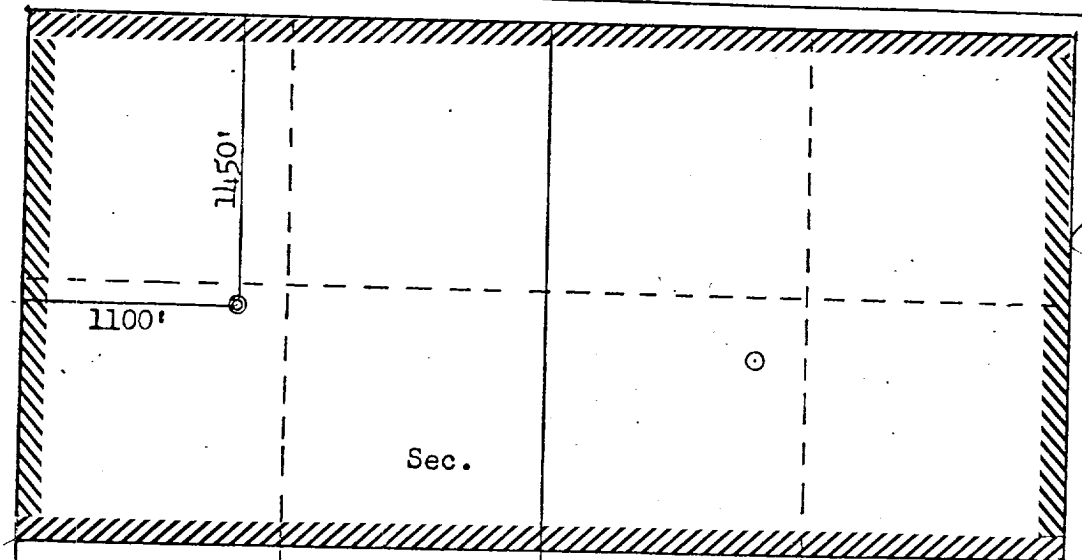
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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
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: March 1, 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: February 7, 1985

Registered Professional Engineer and Land Surveyor: Fred B. Kerr Jr.

REGISTERED LAND SURVEYOR

Operations Plan
McDurmitt #1E

I. Location: 1450'N, 1100'W, Sec. 6, T-31-N, R-12-W, San Juan Co.,NM

Field: Basin Dakota Elevation: 5881'GL

II. Geology:

A. Formation Tops:

Surface	Nacimiento	Menefee	4034'
Ojo Alamo		Point Lookout	4550'
Kirtland	428'	Gallup	5920'
Fruitland	1790'	Greenhorn	6649'
Pic.Cliffs	2200'	Graneros	6705'
Lewis	2323'	Dakota	6835'
Mesa Verde	3775'	Total Depth	7095'

B. Logging Program: GR-Ind. and GR-Density at Total Depth.

C. Coring Program: none

III. Drilling:

A. Mud Program: mud from surface to total depth.

IV. Materials:

A. Casing Program:

Hole Size	Depth	Csg.Size	Wt.&Grade
12 1/4"	200'	9 5/8"	36.0#K-55
7 7/8"	6500'	4 1/2"	10.5#K-55
7 7/8"	7095'	4 1/2"	11.6#K-55

B. Float Equipment: 9 5/8" surface casing - Texas pattern 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 5150' and tool for third stage at 2423'. 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: 7095' 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: 10" 3000 x 9 5/8" casing head with 10" x 4 1/2" casing hanger, 10" 3000 x 6" 3000 xmas tree.

V. Cementing:

Surface casing (12 1/4" x 9 5/8") - use 110 sks. Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (130 cu.ft. of slurry, 100% excess to circulate). WOC 12 hrs. Test to 600#/30 minutes.

Operations Plan -McDurmitt #1E

V. Cementing, cont'd.

Production casing (7 7/8" x 4 1/2") -

First stage - use 145 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack followed by 100 sks. 50/50 Class "B" Pozmix with 2% gel, 2% calcium chloride and 1/4# fine tuf-plug per cu.ft. (372 cu.ft. of slurry, 40% excess to cover the Gallup).

Second stage - circulate mud for 2.5 hours, then cement with 330 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride, and 8.3 gallons water per sack (535 cu.ft. of slurry, 70% excess to cover the Mesa Verde).

Third stage - circulate mud for 2.5 hours, then cement using 680 sks. 65/35 Class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack (1102 cu.ft. of slurry, 100% excess to circulate to surface). Run temperature survey on top stage only at 8 hours. WOC 18 hours.

Multi-Point Surface Use Plan
EPNG - McDurmitt #1E

1. Existing Road - Please refer to Map No. 1 which show 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 duraction 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 DAN-03 Farmers Ditch (Koogler).

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.

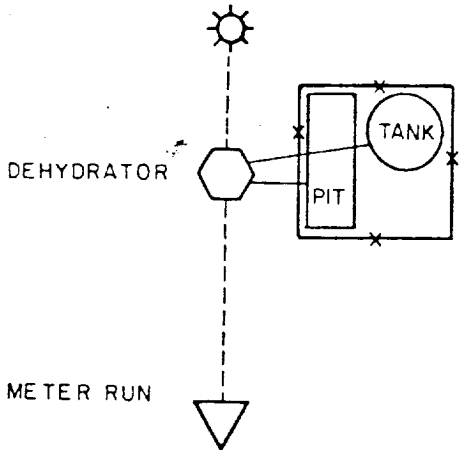
11. Other Information- Terrain is sageflats with sage and juniper growing. Cattle, sheep, deer and rabbitts are occasionally seen on the proposed project site.

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



					ENG. REC.	DATE
					DRAWN	
					CHECKED	
					CHECKED	
					PROJ. APP.	
PRT.	SEP.	DATE	TO	W.O.	DESIGN	

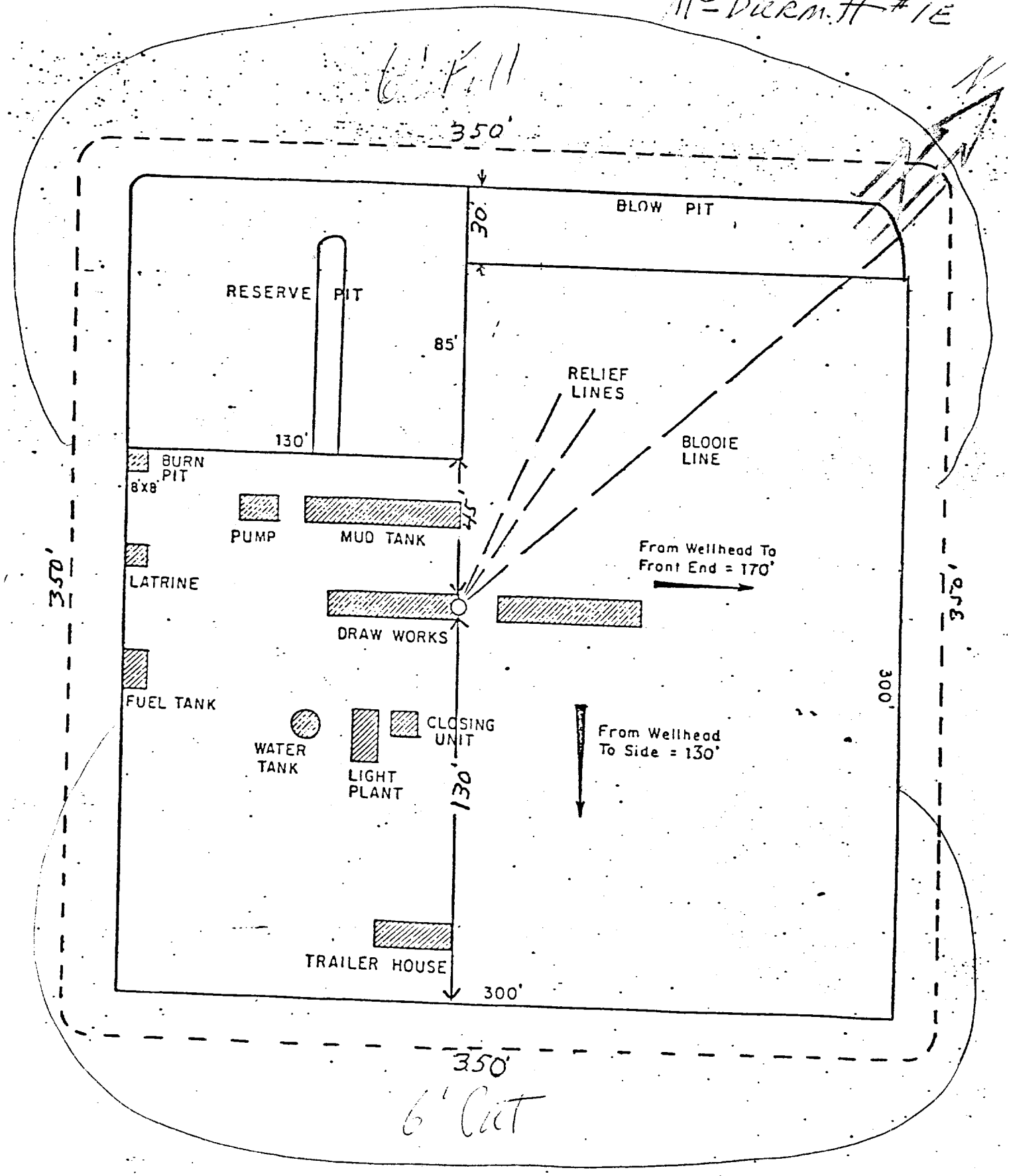
El Paso NATURAL GAS COMPANY

Anticipated Production Facilities For Mesaverde or Dakota Well

DWG

Mc-Durm. #1E

6' Fill



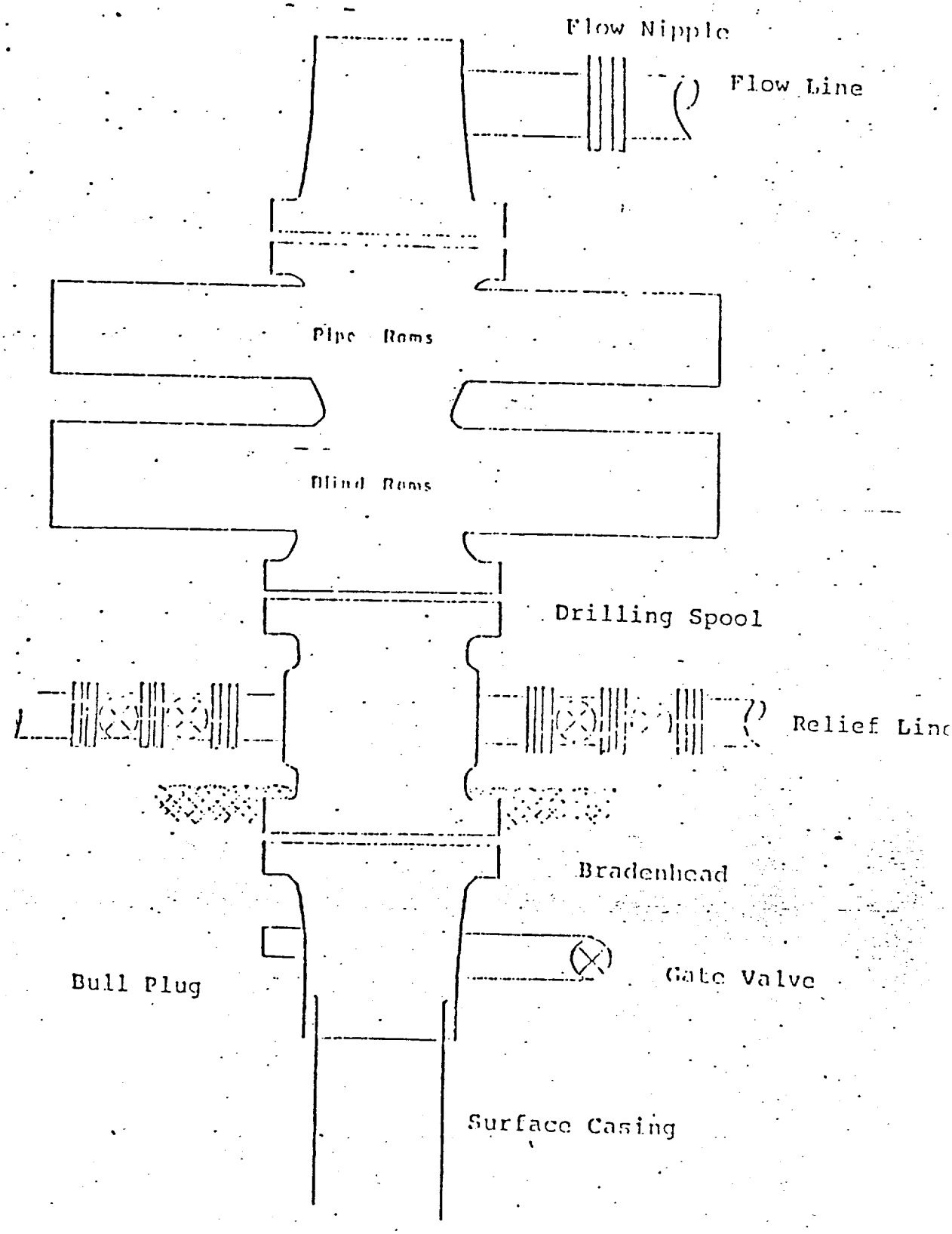
6' Cut

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

El Paso Natural Gas Company

TYPICAL LOCATION

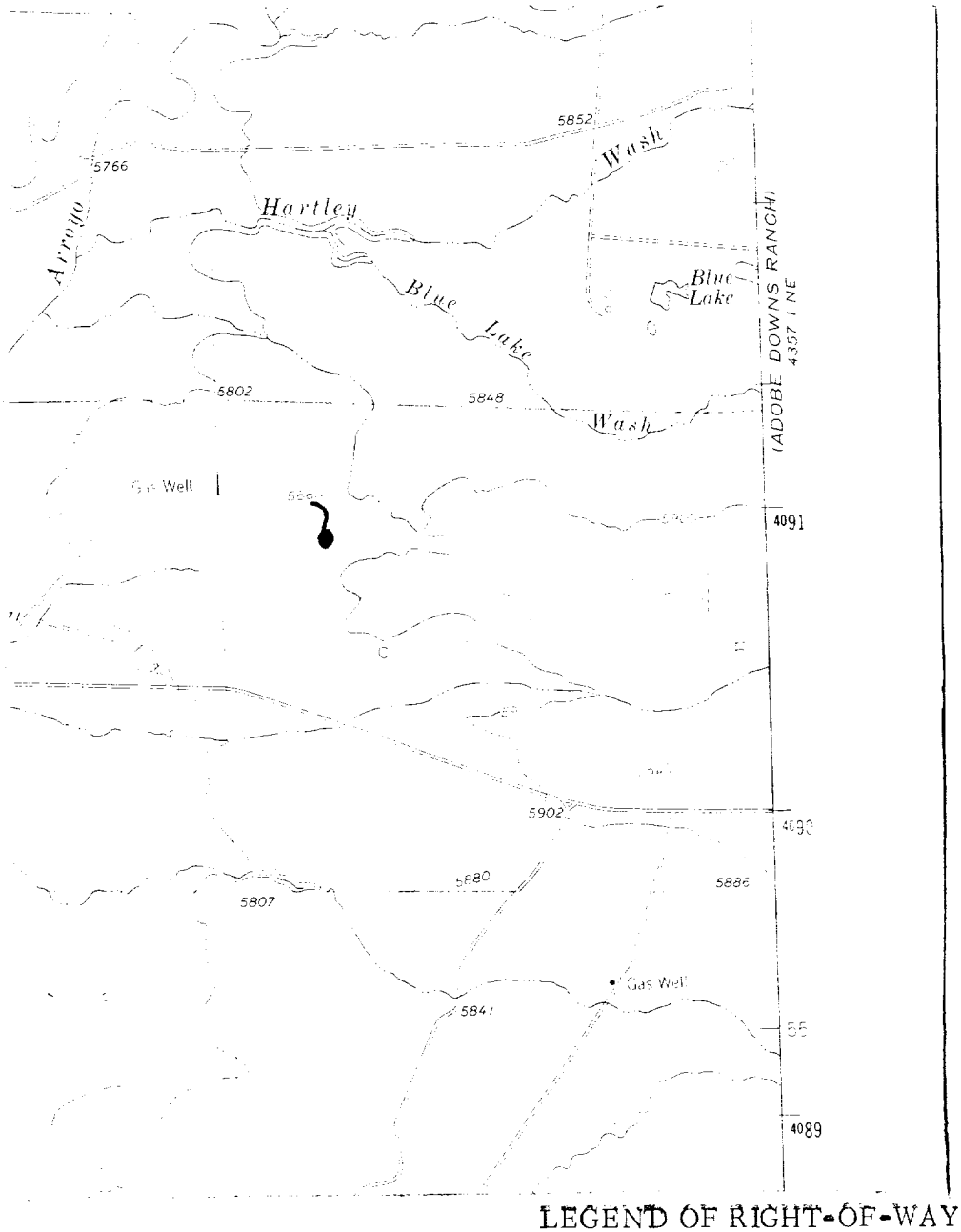
Typical B.O.P. Installation
for Dakota Well



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.

McDurmitt #1E (Dk)
NW 6-31-12



Map #1

LEGEND OF RIGHT-OF-WAYS

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

McDurmitt #1E (Dk)
NW 6-31-12