

**NM OIL CONS. COMMISSION**  
**Artesia, NEW MEXICO**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN THE DATE  
(Other Instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R11

30-015-24108

C/SF

**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**

Perry R. Bass

RECEIVED

**3. ADDRESS OF OPERATOR**

P.O. Box 2760 Midland, Texas 79702

**4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)**  
 At surface 660 FSL & 1980' FEL Sec. 19, T21S, R28E

At proposed prod. zone  
Same As Above

MAR 3 1982

O. C. D.

ARTESIA OFFICE

**14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\***

5 miles NE of Carlsbad, New Mexico

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

660'

**16. NO. OF ACRES IN LEASE**

320

**17. NO. OF ACRES ASSIGNED TO THIS WELL**

320

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

None

**19. PROPOSED DEPTH**

12,300

**20. ROTARY OR CABLE TOOLS**

Rotary

**21. ELEVATIONS (Show whether DF, RT, GR, etc.)**

GL 3182.6'

**22. APPROX. DATE WORK WILL START\***

Upon Approval

**23. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11-3/4"	42	900'	750 sx Circ. to Surface
11"	8-5/8"	24	2300' ±	3700 sx Circ. to Surface
7-7/8"	5-1/2"	17	TD	900 sx Est. TOC @ 8200'

Drilling Procedure, BOP Diagrams, formation tops and surface use plans are attached.

Gas is Dedicated.

RECEIVED  
FEB 16 1982

OIL & GAS  
U.S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

Posted ID-1  
API + NL Book  
3-12-82

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

Stephen D. Smith

TITLE

Engineering Assistant

DATE

February 8, 1982

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

MAR 4 1982

JAMES A. GILLHAM  
DISTRICT SUPERVISOR

TITLE

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

DATE

\*See Instructions On Reverse Side

NEW MEXICO CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 10-1  
Superseded  
Effective 10/1/81

All distances must be from the outer boundaries of the Section

Perry R. Bass		Lessee		BIG EDDY UNIT		Well No. 91	
0	19	11 South	Range	28 East	County	EDDY	
MORROW		1980		East		Dedicated Acreage	
		FENTON-DRAW		220 3/7/16			

Acres of land dedicated to the subject well by colored pencil or hatchure marks on the plat below.

If the well is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and leasehold).

If the well is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, or otherwise?

X If the well is dedicated to the well, type of consolidation UNIT

If the well is dedicated to the well, list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this plat for additional space.)

If the well is dedicated to the well, will be assigned to the well until all interests have been consolidated (by communitization, unitization, or otherwise) or until a non-stanford 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.

*Stephen D. Smith*

Stephen Smith

Engineering Assistant

Perry R. Bass

February 4, 1982

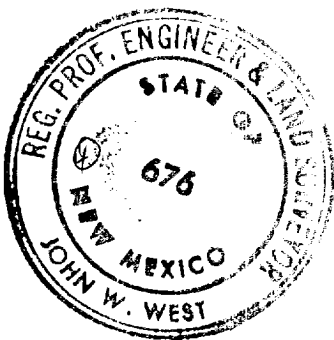
I hereby certify that the well location shown on this plat was plotted from the notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

01/27/82

For purposes of the New Mexico Conservation Commission

*John W. West*

Certificate No. JOHN W. WEST 873  
PATRICK A. ROMERO 8653  
Ronald J. Edison 3242



38.67

38.49

## DRILLING PROCEDURE

### BIG EDDY UNIT NO. 91

#### Location:

660' FSL, 1930' FEL, Sec. 19, T21S, R28E

#### Conductor Casing:

40' + of 16" conductor casing will be set with a rathole machine and cemented to the surface with ready mix.

#### Surface Hole:

A 15" OH will be drilled to 900'+ and 11-3/4" 42#/ft H-40 casing run to total depth. The surface casing will be cemented with a 550 sx Pacesetter Lite, tailed with 200 sx Class "C" with 2%  $\text{CaCl}_2$ . Cement must be circulated to the surface.

Total WOC time is 24 hours.

#### Nippling Up 11-3/4" Casing:

After waiting 4 hours "nipping up" procedures may begin. An 11-3/4" SW 3000# WP x 12" 3000# WP casinghead will be welded in place. A set of hydraulic operated pipe and blind rams will then be installed (See BEPCO III attached) and tested to 1000 psi with the rig pump.

The results of this test must be reported in the daily driller's log.

#### Intermediate Hole:

An 11" OH will then be drilled to 2300'+ (T/Delaware Mtn. Group) 8-5/8" 24#/ft S-80 casing will be run to total depth and cemented with approximately 3500 sxs Pacesetter Lite plus 8#  $\text{NaCl/sx}$  plus 1/4#sx Celloseal, "tailed-in" with 200 sx Class "C" with 2%  $\text{CaCl}_2$ , plus 1/4#sx Celloseal. Cement must be circulated to the surface.

Total WOC time for this casing string will be 24 hours.

#### Nippling Up 8-5/8" Casing:

After waiting 4 hours "nipping up" procedures may begin. The 11-3/4" casinghead will be removed and a 8-5/8" SW 5000# x 10" 5000# WP casinghead installed.

A BOP stack consisting of hydril, pipe rams and blind rams will be installed as per BEPCO Drawing IV (attached). This BOP stack will be hydrostatically tested to 5000 psi (Hydril 1500#) by Yellow Jacket. The USGS will be notified in sufficient time to witness the testing of the 8-5/8" BOP stack. A copy of the test results will also be furnished to the USGS.

The results of this test will be recorded in the daily driller's log.

#### Production Hole:

5-1/2" casing will be run to TD. This casing string will be cemented with approximately 900 sx Class "H" plus 5# KCl/sx plus 0.3% CFR-2, plus 0.6% Halad 22. The cement volume should be sufficient to bring the cement top 1000' above the Wolfcamp.

Time:

This well is estimated to take 48 days from spud to TD.

SDS/1b

Stephen Smith

*Stephen R. Smith* 2/5/82

BIG EDDY UNIT #91

Anticipated Formation Tops (KB 3193' est)

T/Capitan	1,400'±	(+1793'±)
T/Dela. Sd.	2,500'±	(+ 693'±)
T/Indian Draw	3,255'±	(- 62'±)
T/Bone Springs	5,693'±	(-2500'±)
T/Wolfcamp	9,203'±	(-6010'±)
T/Strawn	10,473'±	(-7280'±)
T/Atoka	10,821'±	(-7628'±)
T/U. Morrow	11,316'±	(-8123'±)
T/M. Morrow	11,643'±	(-8450'±)
T/L. Morrow	11,893'±	(-8700'±)
TD	12,150'±	(-8957'±)

 2/5/82  
Stephen Smith

CASING DESIGN

BIG EDDY UNIT NO. 91

SURFACE CASING

<u>Segment</u>	<u>Size</u>	<u>Grade</u>	<u>Thread</u>	<u>Weight</u>	<u>Top</u>	<u>Bottom</u>	<u>Length</u>
1	11-3/4"	H-40	ST&C	42#	0'±	900'±	900'±

INTERMEDIATE CASING

<u>Segment</u>	<u>Size</u>	<u>Grade</u>	<u>Thread</u>	<u>Weight</u>	<u>Top</u>	<u>Bottom</u>	<u>Length</u>
1	8-5/8"	S-80	ST&C	24#	0'±	2300'±	2300'±

PRODUCTION CASING

<u>Segment</u>	<u>Size</u>	<u>Grade</u>	<u>Thread</u>	<u>Weight</u>	<u>Top</u>	<u>Bottom</u>	<u>Length</u>
1	5-1/2"	S-95	LT&C	17#	9980'±	12,150'±	2170'±
2	5-1/2"	N-80	LT&C	17#	0'±	9980'±	9980'±

Stephen D. Smith 2-8-82  
Stephen Smith

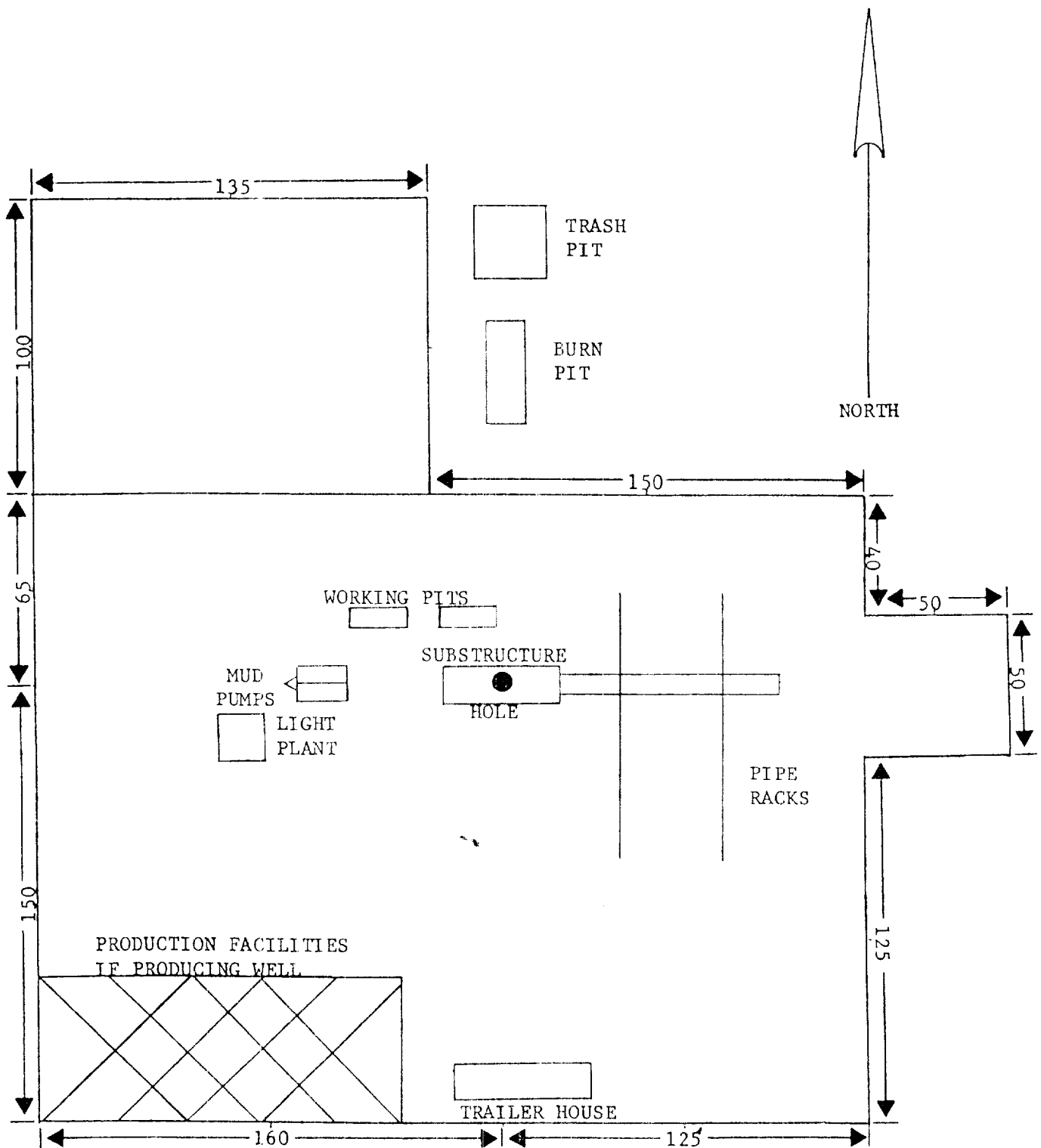
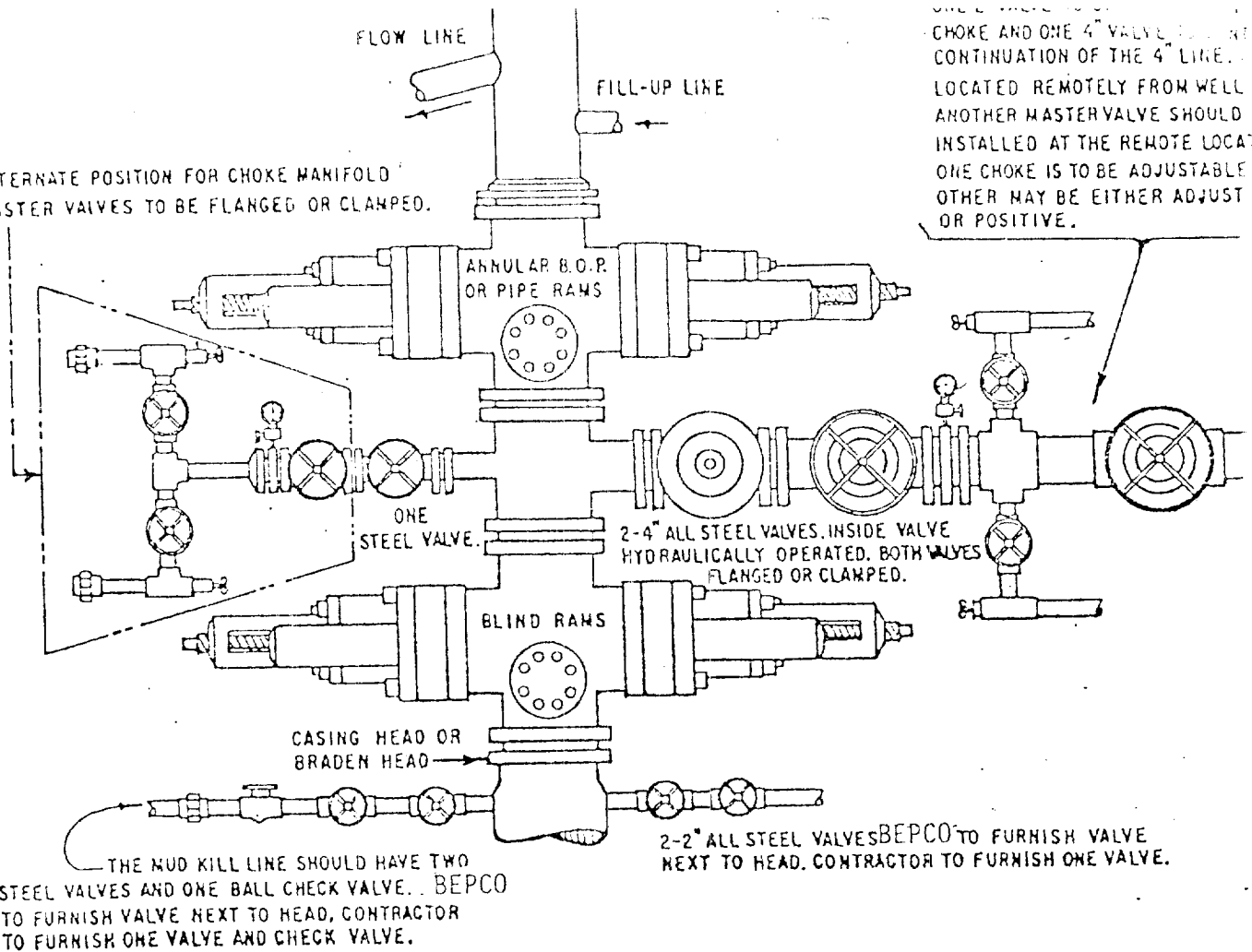


EXHIBIT "B"

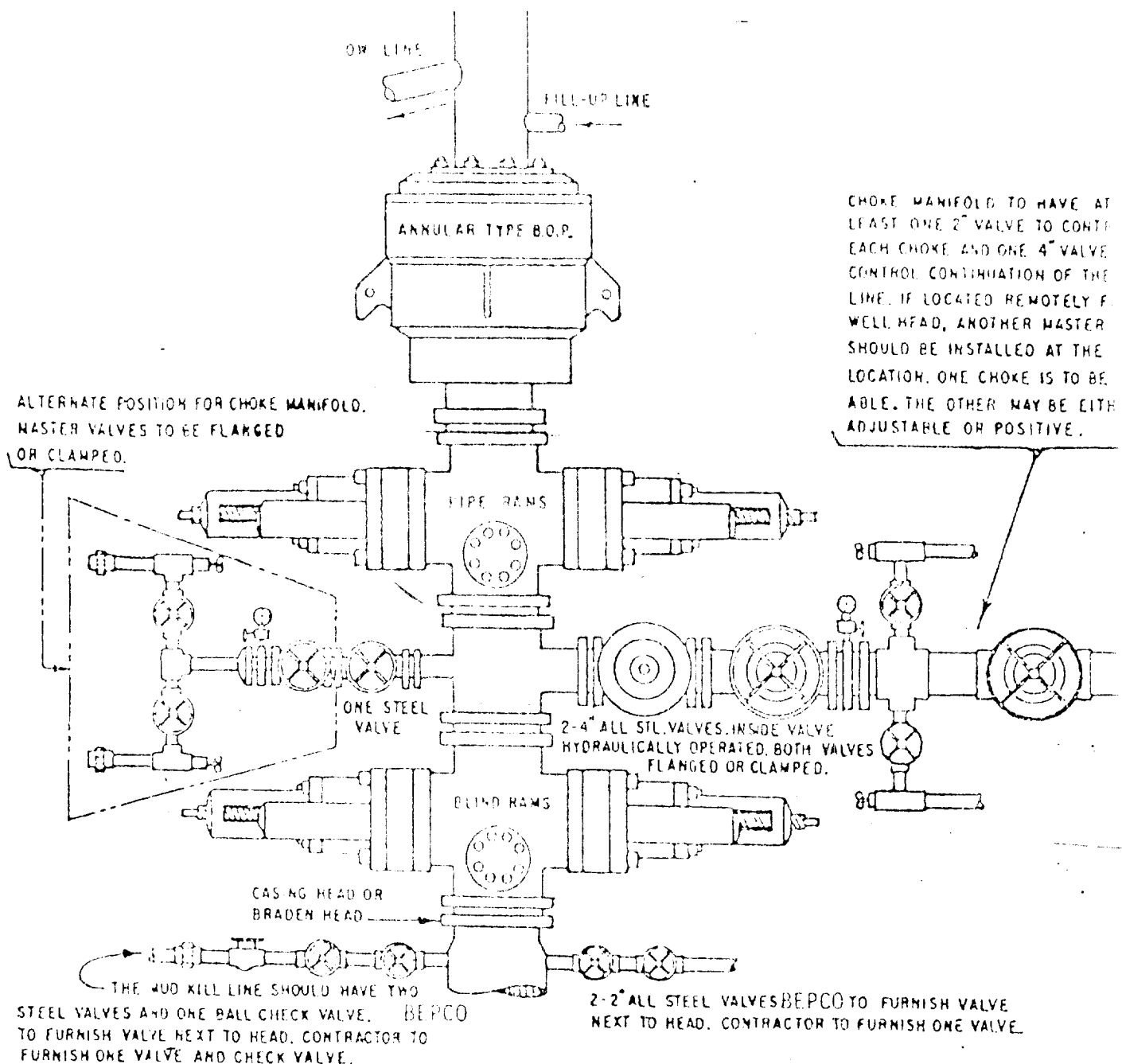
ALTERNATE POSITION FOR CHOKE MANIFOLD  
MASTER VALVES TO BE FLANGED OR CLAMPED.



## THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. CONDITIONS MAY BE MET BY EITHER
  - (1) AN ANNULAR BLOWOUT PREVENTER ON TOP AND BLIND RAMS BELOW WITH A CHOKE SPOOL BETWEEN THEM.
  - (2) PIPE RAMS ON TOP AND BLIND RAMS BELOW WITH A CHOKE SPOOL BETWEEN THEM.
  - (3) A DUAL BLOWOUT PREVENTER WITH PIPE RAMS ON TOP AND BLIND RAMS BELOW WITH A SIDE OUTLET BETWEEN THE RAMS. LEAST FOUR INCHES DIAMETER.
- B. OPENINGS BETWEEN RAMS TO BE FLANGED, STUDDED OR CLAMPED.
- C. ALL CONNECTIONS FROM OPERATING MANIFOLD TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIA.
- D. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE B.O.P.'s.
- E. ALL CONNECTIONS TO AND FROM PREVENTERS TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.'s.
- F. MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
- G. KELLY COCK TO BE INSTALLED ON KELLY.
- H. INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR.





## THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. CONDITIONS MAY BE MET BY AN ANNULAR TYPE BLOWOUT PREVENTER ON TOP AND A CHOKER SPOOL BELOW AND EITHER
  - (1) TWO RAM TYPE BLOWOUT PREVENTERS BELOW THE SPOOL, THE LOWER UNIT CONTAINING BLIND RAMS AND THE UPPER UNIT CONTAINING PIPE RAMS, OR
  - (2) A DUAL BLOWOUT PREVENTER BELOW THE SPOOL WITH BLIND RAMS ON BOTTOM AND PIPE RAMS ON TOP.
- B. OPENING ON CHOKER SPOOL TO BE FLANGED, STUDDED OR CLAMPED.
- C. ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
- D. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE
- E. ALL CONNECTIONS TO AND FROM PREVENTER TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.'S.
- F. MANUAL CONTROLS—TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
- G. KELLY COCK TO BE INSTALLED ON KELLY
- H. INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR
- I. DUAL OPERATING CONTROLS ONE LOCATED BY DRILLERS POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.

BEPCO IV

THREE CLOSURE HYDRAULIC BLOWOUT PREVENTERS

30-015-23628

