

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instructions on
reverse side)30-015-23578
5. LEASE DESIGNATION AND SERIAL NO.
NM-063516 LC-C63543

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 ☒RECEIVED
ZONE ☐

2. NAME OF OPERATOR

Perry R. Bass

DEC 1 1980

3. ADDRESS OF OPERATOR

P.O. Box 2760, Midland, Texas 79702

O. C. D.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

ARTESIA OFFICE

1980' FWL & 660' FNL, Sec. 10, T-21S, R-28E

At proposed prod. zone

Same as above

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

12 miles northeast 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

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.

19. PROPOSED DEPTH

13000'

20. ROTARY OR CABLE TOOLS

Rotary

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

3319 GL

22. APPROX. DATE WORK WILL START*

Upon approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING LENGTH	QUANTITY OF CEMENT
15"	11 3/4"	42	500 ±	300 sx CIRCULATE
11"	8 5/8"	28 & 32	3115 ±	1050 sx CIRCULATE
7 7/8"	5 1/2"	17	TD	1100 sx

Drilling procedure, BOPE diagrams, formation tops and surface use plans are attached.

Gas is dedicated.

RECEIVED

NOV 24 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

Mike Waygood

TITLE Engineering Assistant

DATE

11-20-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY (Orig. Sgd.) PETER W. CHESTER

ACTING DISTRICT ENGINEER

DATE

DEC 8 1980

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
 WELL LOCATION AND ACREAGE DEDICATION PLAN

Form O-102
 Supersedes O-128
 Effective 1-1-85

Perry R. Bass

Oil Lease Unit

83

C

10

21 550 1

East

Body

660

North

East

West

3319

Morrow

Sand Point Morrow

320

Outline the acreage dedicated to the unit and the acreage which is not included in the unit.

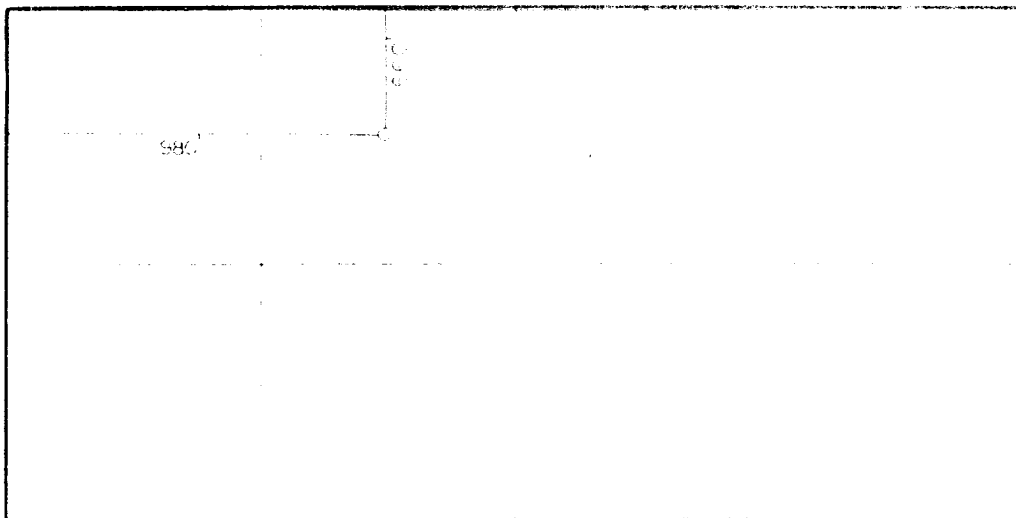
If more than one lease is included in the unit, the unit must be described as to working interests and royalties.

If more than one lease of different acreage is included in the unit, the unit must be described by commitment ratio, cultural ratio, or other basis.

☒ Yes ☐ No If answer is "No," list the unit

If answer is "No," list the name of the unit and the acreage of the unit on the reverse side of this form if necessary.

No allowable will be assigned to the unit if the unit is not described by commitment ratio, cultural ratio, forced-pooling, or (otherwise) in unit and on acreage which is not included in the unit as approved by the Commission.



DEDICATION

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

Mike Waygood

Mike Waygood

Engineering Assistant

Perry R. Bass

11-20-80

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U.S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO

10-20-80

Mike Waygood

DRILLING PROCEDURE

BIG EDDY UNIT # 83

Location: 660' FNL & 1980' FWL, Sec.10, 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 500' + (Rustler Anhydrite) and 11 3/4" casing run to total depth. The surface casing will be cemented with 400 sx Class "C" plus 2% CaCl₂. Cement must be circulated to the surface.

Total WOC time is 12 hours.

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

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

Intermediate hole: A 11" OH will then be drilled to 3115' (T/Delaware Mtn. Group) 8-5/8" casing will be run to total depth. A DV tool should be run at approximately 1450' (100' into Capitan Reef). An external casing packer may also be required if we lose circulation in the reef. The casing should be cemented in two stages as follows (1) cement the first stage with 350 sx Halliburton Lite tailed with 150 sx Class "C" plus 2% CaCl₂. After bumping the plug, open the DV tool and circulate for four hours. Cement the second stage with 450 sx Halliburton Lite tailed with 200 sx Class "C" plus 2% CaCl₂. Cement must be circulated to the surface.

Total WOC time for this casing string will be 12 hours.

Nippling up 8-5/8" Casing: After waiting 4 hours "Nippling up" procedures may begin. A 12" 3000# WP x 10" 5000# WP RJT casing spool with bit guide and seal assembly will be 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 hydro-statically 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 the USGS.

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

Production Hole: A 7 7/8" OH will then be drilled to TD (12,500'±). A PVT recorder, flow-show sensor and rotating head will be installed before drilling the Wolfcamp.

5 1/2" casing will then be run to TD. This casing string will be cemented with 1000 sx Class "H" plus 5# KCl per sack. 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.

BIG EDDY UNIT # 83
ANTICIPATED FORMATION TOPS

T/ Capitan Reef	1365'
T/Delaware Mountain Group	3115'
T/Indian Draw	3615'
T/Bone Springs	6265'
T/Wolfcamp	9550'
T/Strawn	10,865'
T/Atoka	11,250'
T/Middle Morrow	11,915'
T/Lower Morrow	12,215'
T/Barnett Shale	12,465'

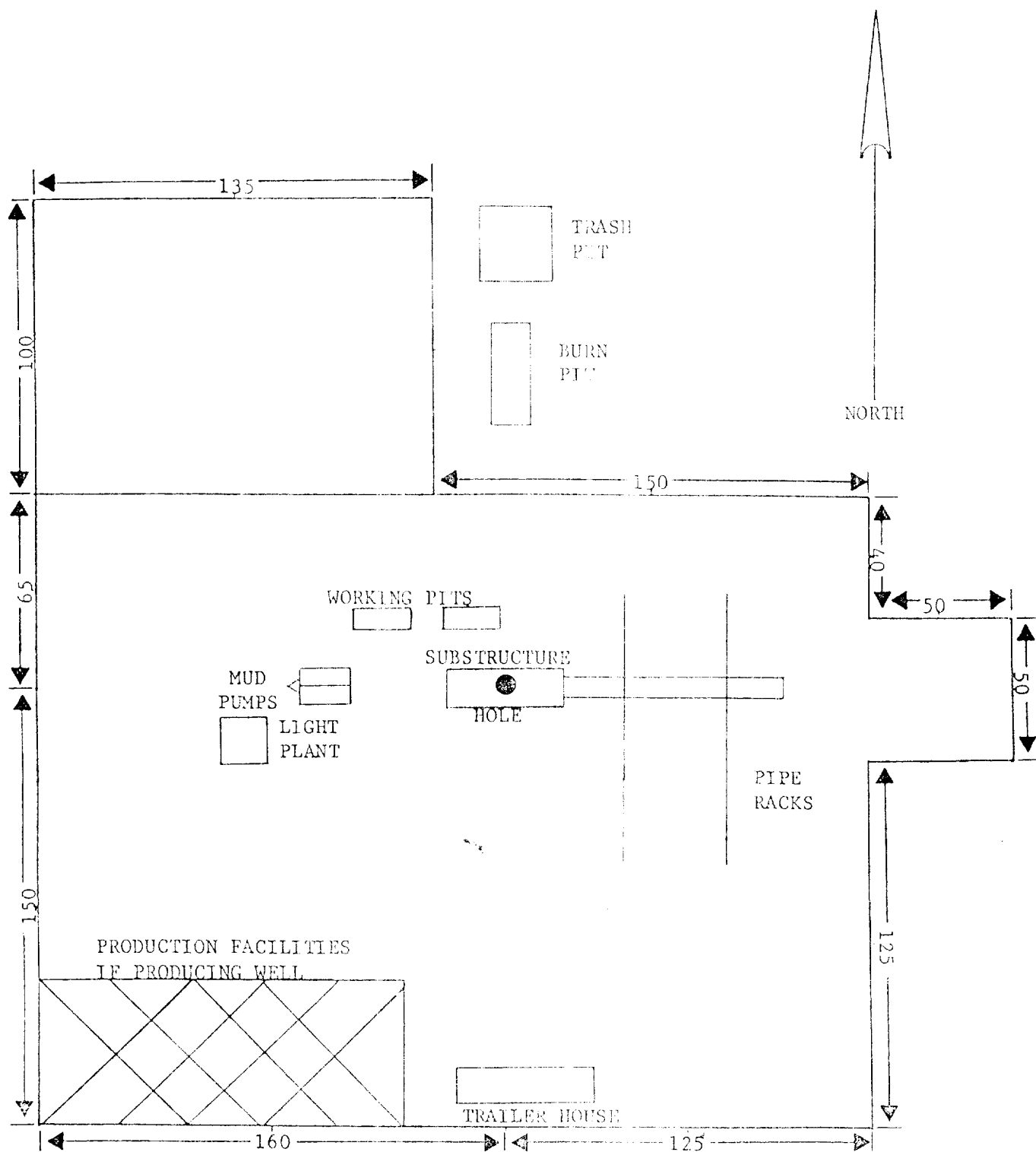
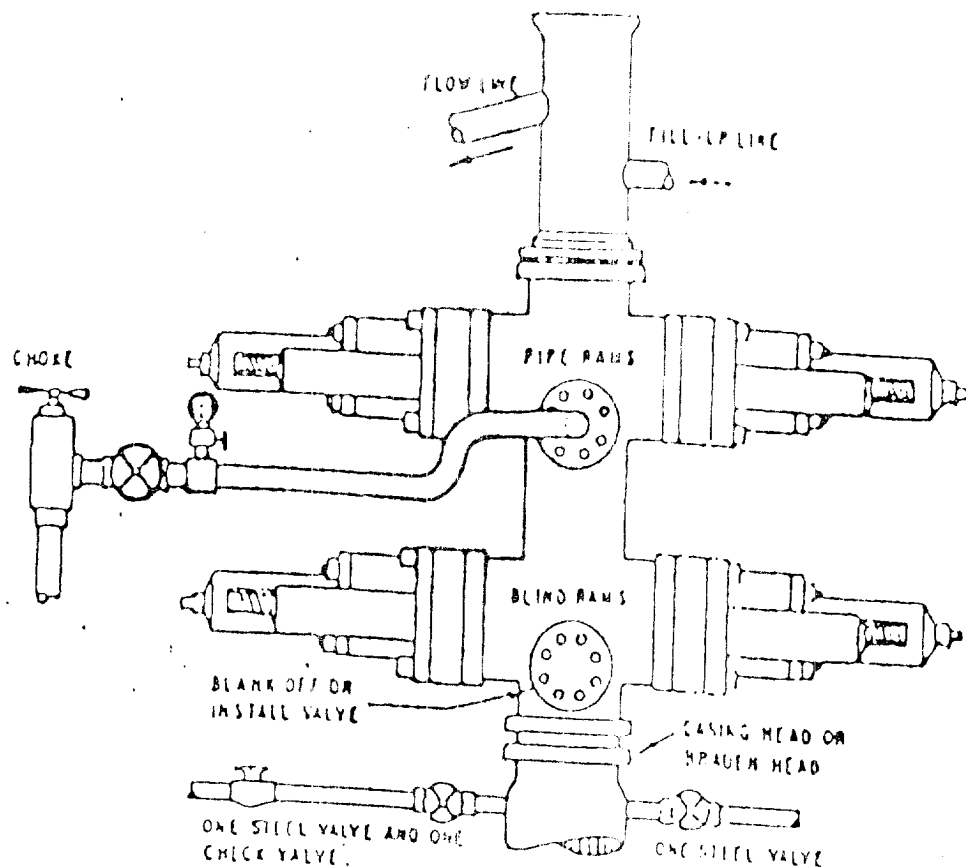


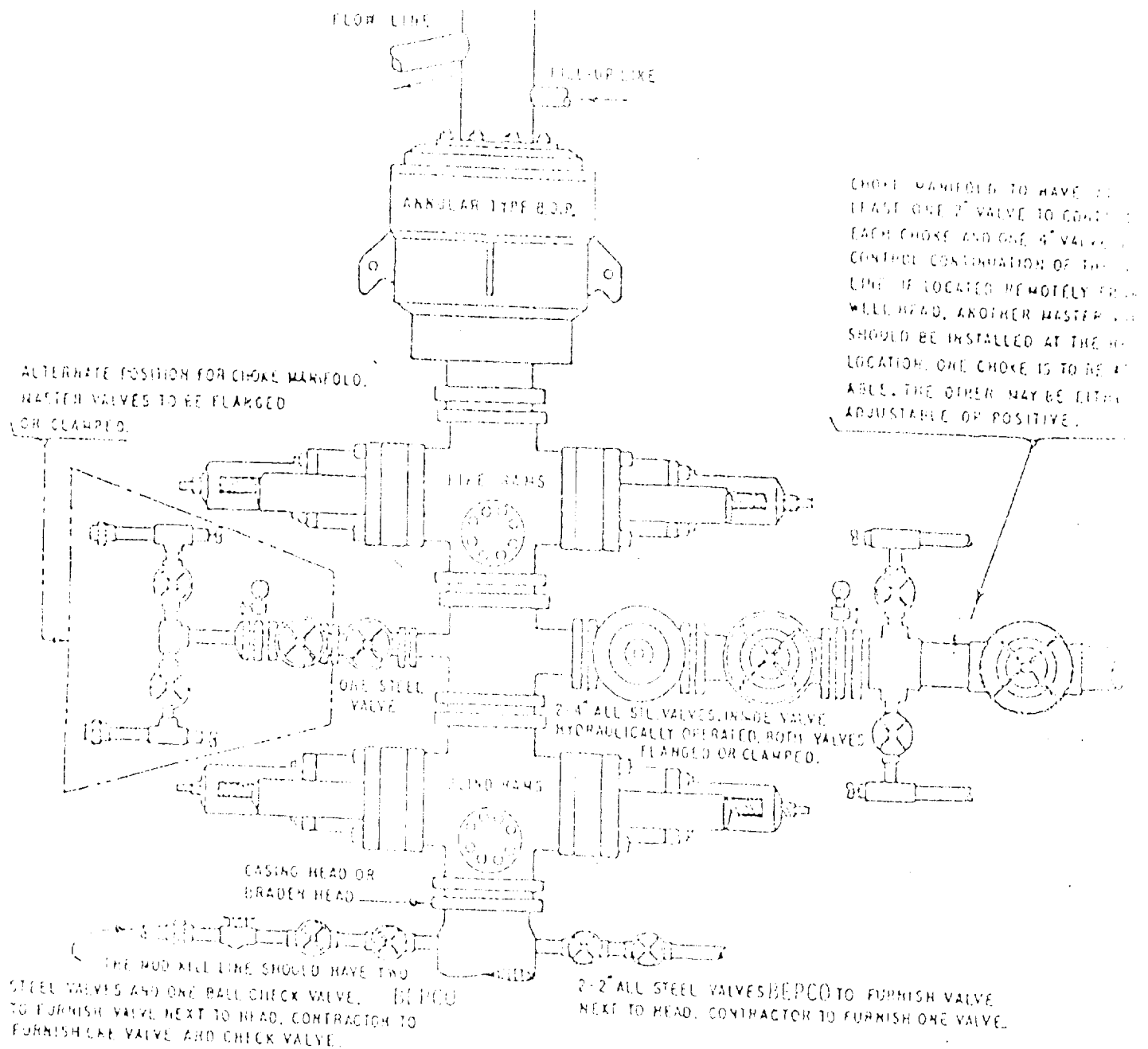
EXHIBIT "B"



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. ONE DOUBLE GATE BLOWOUT PREVENTER WITH LOWER RAMS BLIND AND UPPER RAMS FOR PIPE, ALL HYDRAULICALLY CONTROLLED, OPENING OR PREVENTERS BETWEEN RAMS.
- B. OPENING TO BE FLANGED, STUDDED OR CLAMPED AND AT LEAST TWO INCHES DIAMETER.
- C. ALL CONNECTIONS FROM OPERATING MANIFOLD 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 PREVENTERS.
- E. ALL CONNECTIONS TO AND FROM PREVENTERS TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.
- F. MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
- G. VALVE TO CONTROL FLOW THROUGH DRILL PIPE TO BE LOCATED ON RIG FLOOR.
- H. CHOKE MAY BE EITHER POSITIVE OR ADJUSTABLE. choke spool may be used between rams.

REPCO II
ONE HYDRAULIC DUAL BLOWOUT PREVENTER



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- 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.
- OPENING ON CHOKER SPOOL TO BE FLANGED, STUBBED OR CLAMPED.
- ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
- THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE PREVENTER.
- ALL CONNECTIONS TO AND FROM PREVENTER TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE BOP.
- MANUAL CONTROLS TO BE INSTALLED BEFORE CEMENTING WELL.
- KELLY COCK MUST BE INSTALLED ON KELLY.
- INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON WELL HEAD.
- DUAL OPERATING CONTROLS ONE LOCATED AT OPERATING POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE BOP.

BEPCO 14

THREE CLOSURE HYDRAULIC BLOWOUT PREVENTERS