

Drawer DD

Artesia, NM 3210

SUBMIT 1 REPLICATE*

(Other instructions on
reverse side)Form approved,
Budget Bureau No. 42-R1425.UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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

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

1980' FEL, 1980' FNL, Sec 18, T21S, R29E

At proposed prod. zone

Same as above

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

12 miles ENE of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1980'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

13,000'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

GL 3308.3'

22. APPROX. DATE WORK WILL START*

Upon approval

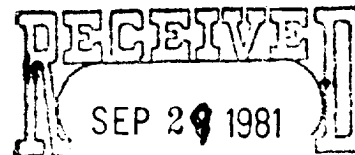
23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11-3/4"	42#	750'±	350 sx Circ to surface
11"	8-5/8"	32#	2800'±	950 sx Circ to surface
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.



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

Posted ID-1
API + NL Book
10-23-81

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

(This space for Federal or State office use)

PERMIT NO. (Orig. Sgd.)

GEORGE H. STEWART

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

JAMES A. GILLHAM
DISTRICT SUPERVISOR

TITLE

Engineering Assistant

DATE

September 18, 1981

APPROVAL DATE

OCT 9 1981

TITLE

DATE

*See Instructions On Reverse Side

1. *Phragmites* spp. (Poaceae)

320

- | Unit | Yes | No | Has not been asked |
|------|-------------------------------------|--------------------------|--------------------------|
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No allowable will be assigned to the cell and the cell will be subject to forced-pooling, or otherwise set, until a non-saturated cell is identified.

E. coli O157:H7 was isolated from ground beef samples collected from retail outlets in the United States during the outbreak period.

Stephen Smith

Stephen Smith

Engineering Assistant

Perry R. Bass

September 18, 1981

Ronald E. Ligon

DRILLING PROCEDURE

BIG EDDY UNIT NO. 84

Location:

1980' FEL, 1980' FNL, Sec. 18, T21S, R29E

Conductor Casing:

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

Surface Hole:

A 15" O.D. will be drilled to 750' $\pm$ and 11-3/4" 42#/ft H-40 casing run to total depth. The surface casing will be cemented with 350 sx Class "C" plus 2% 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 "nippling 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 II attached) and tested to 1000 psi with the rig pump.

The remainder of the well will be drilled and cased as follows:

CASING DESIGN

BIG EDDY UNIT NO. 84

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'±	750' ±	750' ±

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"	K-55	ST&C	32#	0'±	2800'±	2800'±

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#	9460'±	12650'±	3190'±
2	5-1/2"	N-80	LT&C	17#	0'±	9460'±	9460'±

Stephen Smith
Stephen Smith

BIG EDDY UNIT NO. 84

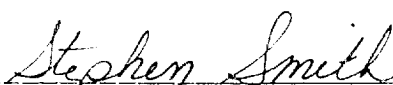
MUD PROGRAM

FROM	TO	TYPE FLUID	WEIGHT	VISCOSITY	% OIL	WATER LOSS
0'	750' ±	FW Gel	8.4 - 8.6	34 - 40	0	NC
750' ±	2800' ±	BW	10.0	28-34	0	NC
2800' ±	9900' ±	FW	8.4 - 8.6	28 - 34	0	NC
9900' ±	11200' ±	BW	10.0	28 - 34	0	NC
11200' ±	11600' ±	BW	10.3	28 - 34	0	NC
11600' ±	12900' ±	BW Polymer	11.5	34 - 40	0	15cc


 Stephen Smith

BIG EDDY UNIT #84
ANTICIPATED FORMATION TOPS (GL 3308')

T/Capitan	1600	(+7708)
T/Dela Sand	3300'	(+8)
T/Indian Flats	4100'	(-792)
T/Bone Springs	6800'	(-3492)
T/Wolfcamp	9900'	(-6592)
T/Strawn	11,200'	(-7892)
T/Atoka	11,600'	(-8592)
T/M. Morrow	12,000'	(-8692)
T/L. Morrow	12,600'	(-9292)
T/Barnett	12,900'	(-9592)



Stephen Smith

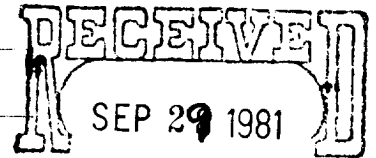
MULTI-POINT SURFACE USE AND OPERATIONS PLAN

BIG EDDY UNIT NO. 84

1980' FEL, 1980' FNL

Sec 18, T21S, R29E

Eddy County, New Mexico

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

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction, activities, and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to rehabilitate the surface after completion of operations so that an appraisal can be made on environmental effects.

1. Existing roads including location of exit from main highway. Exhibit "A" is a portion of a map showing existing road. Go northeast of Carlsbad on Highway 62-180 approximately 10 miles. Turn southeast onto caliche road. Continue southeast for 2-1/4 miles. Road then turns northeast 1/4 mile, due east 1/4 mile then back southeast 3/4 mile. Location is approximately 1800' due east.

2. Planned access road. Exhibit "A" is a drawing showing planned access road. This road will be 12' wide by approximately 2000' long. The road and pad will be constructed of water and compacted caliche. No gates, turnouts, cattleguards or culverts are anticipated.

3. Location of existing wells. Exhibit "A" shows surrounding existing wells.

4. Location of tank battery and flow lines. If a commercial well is obtained, production facilities will be located on the well pad. Refer to Exhibit "B".

5. Location and type of water supply Fresh water to be hauled from Carlsbad.
Brine water to be hauled from Champion Brine Sales 3-1/2 miles east and
2-1/2 miles south of Carlsbad.
6. Source of construction material Exhibit "A" shows approximate location of
caliche pit.
7. Methods of handling waste disposal:
- A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
 - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - E. Trash, paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind. Location of trash pit is shown in Exhibit "B".
 - F. Trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations. (Note: All trash left on well site to be removed or buried within 30 days must be contained to prevent scattering.)
8. Ancillary facilities none required
9. Well site layout Exhibit "B" shows the approximate dimensions of the
well pad and reserve pit as well as the relative location of major rig
components. Only minor levelling of the well site will be required. The
reserve pit will be lined with plastic. The pit and pad area have been
staked and flagged.

10. Plans for restoration of surface:

- A. Producing well - all pits will be cut, filled, and leveled as soon as practical to original conditions with rehabilitation to commence following removal of drilling and completion equipment.
- B. Dry hole - same as above with dry hole marker to be installed and surface reseeded if required. At the same time of final abandonment, USGS and BLM restoration stipulations will be complied with.

11. Other information:

- A. Terrain Relatively flat
- B. Soil Sandy
- C. Vegetation Sparse, primarily mesquite with very little grass.
- D. Surface Use Grazing
- E. Surface water None
- F. Water wells None
- G. Residences and buildings None within one mile.
- H. Surface ownership The wellsite and access road are on Federal land.
- I. Well signs posted at each drilling site.
- J. Open pits - all pits containing liquid or mud will be fenced.
- K. Archaeological resources None observed

12. Operator's representative
(Field personnel responsible for compliance with development plan for surface use)

DRILLING
Mike Cure
Box 2760
Midland, Texas 79702
915-684-5723

PRODUCTION
Al Gallas
Box 1043
Kermit, Texas 79745
915-563-0656
(or) Mike Cure
Box 2760
Midland, Texas 79702
915-684-5723

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 Bass Enterprises Production Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

September 18, 1981
(Date)

Stephen Smith
(Name) Stephen Smith

Engineering Assistant
(Title)

CEB:gp

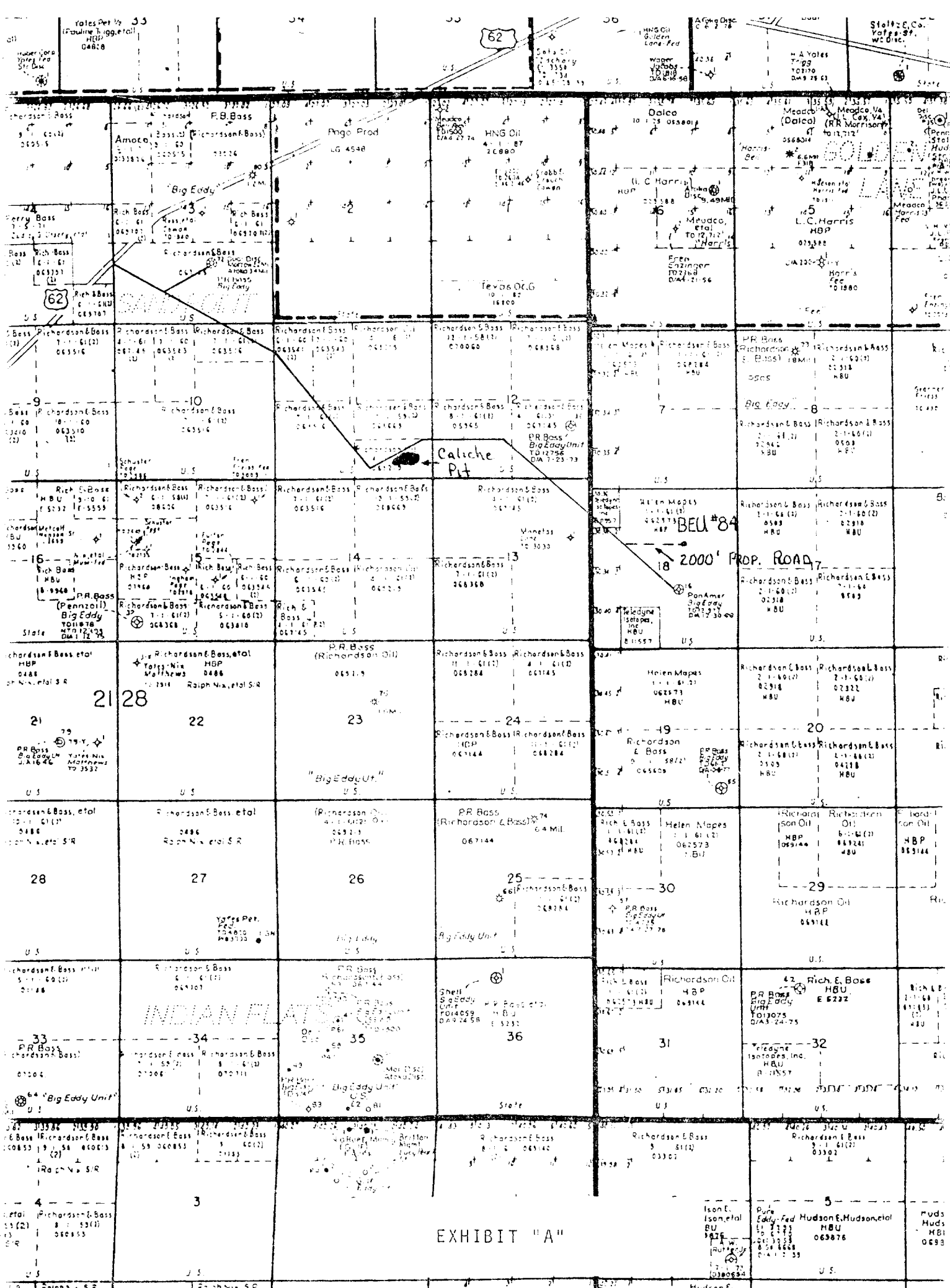


EXHIBIT "A"

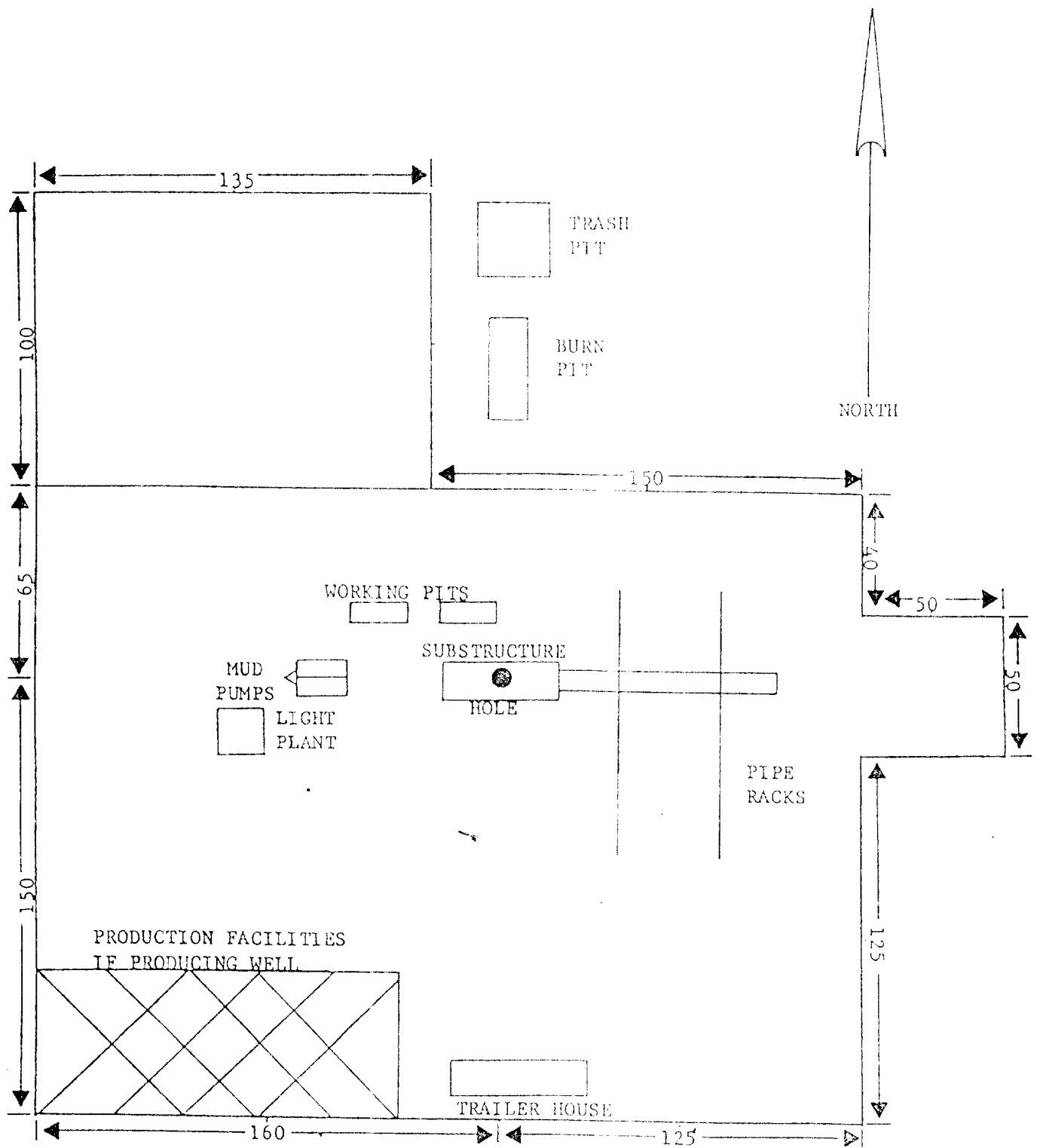
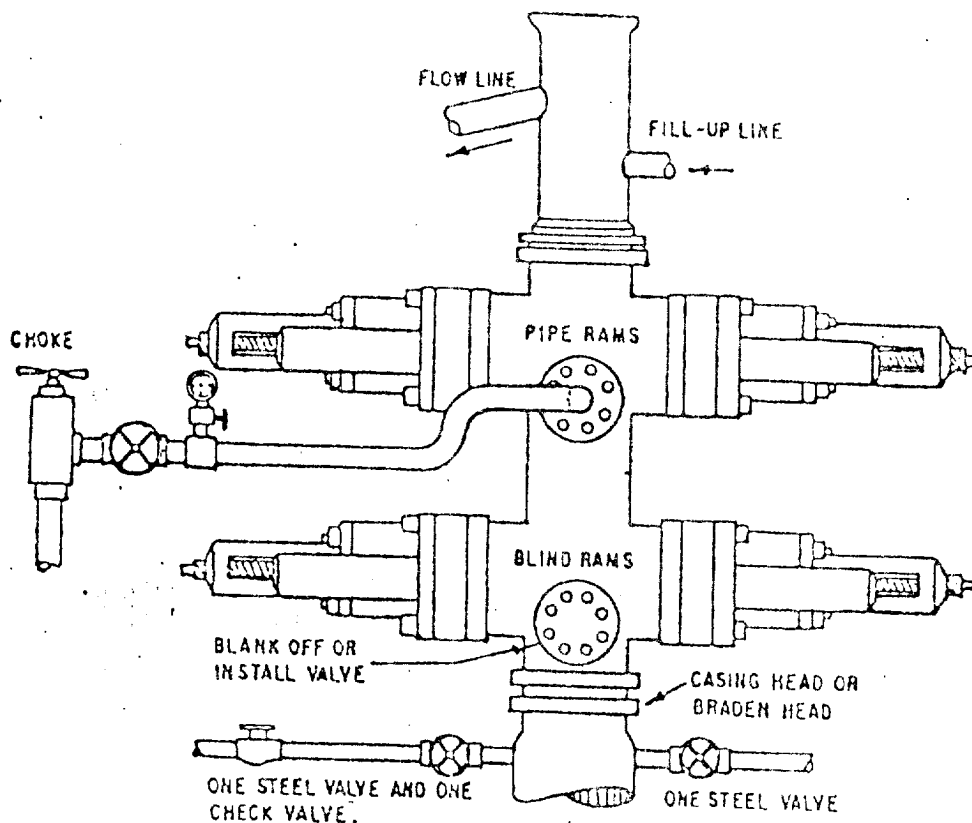
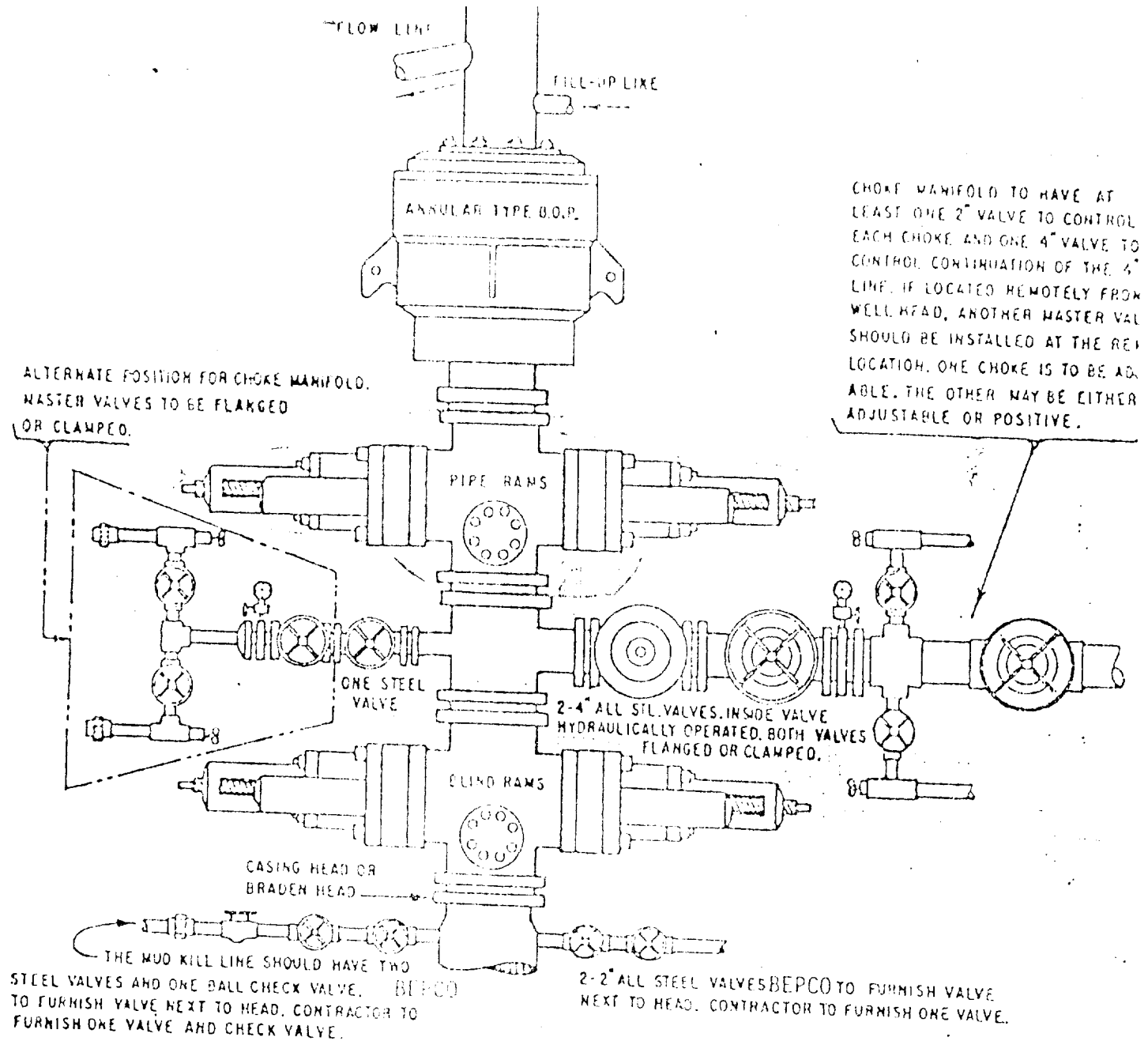


EXHIBIT "B"



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 ON 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.'s.
- 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.



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- CONDITIONS MAY BE MET BY AN ANNULAR TYPE BLOWOUT PREVENTER ON TOP AND A CHOKE 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 CHOKE SPOOL TO BE FLANGED, STUDDED 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 B.O.P.
- ALL CONNECTIONS TO AND FROM PREVENTER TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.
- MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
- KELLY COCK TO BE INSTALLED ON KELLY.
- INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR.
- 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