

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instructions on
reverse side)

30-015-23628

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' FW., 1980' FNL, Sec. 24, T21S, R28E

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'

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

13,000'

20. ROTARY OR CABLE TOOLS

Rotary

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

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#	500'	290 sx Circ to surface
11"	8-5/8"	28#	2800'	950 sx Circ to surface
7-7/8"	5-1/2"	17#	TD 40'	1100 sx CIRC

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

Gas is dedicated

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 Smith

TITLE

Engineering Assistant

DATE

12-18-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

(Orig. 154) GEORGE H. STEWART

TITLE

DATE

JAN 21 1981

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

12-29
11-30

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

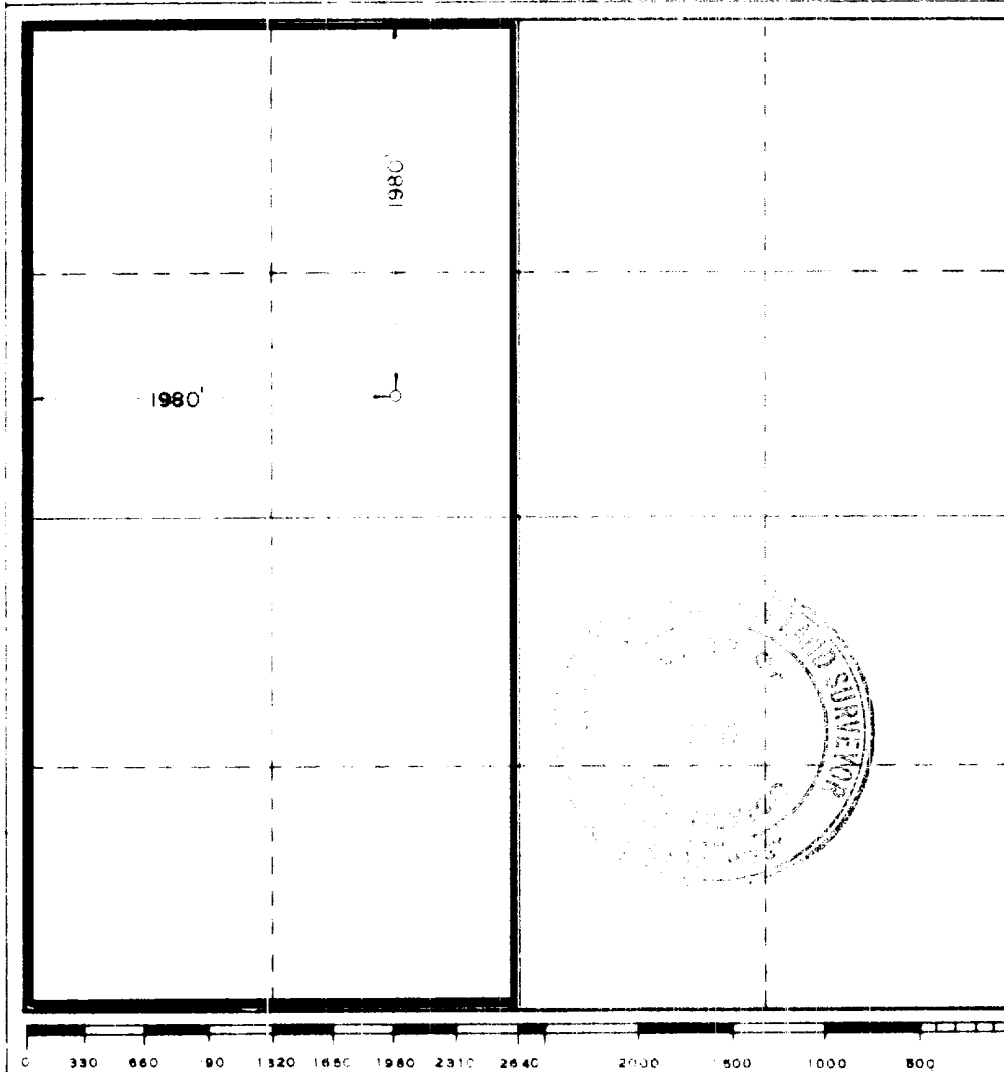
Operator Perry R. Bass Co.		Lease Big Eddy Unit		Well No. 84
Grid Letter F	Section 24	Township 21 South	Range 28 East	County Eddy
Actual Footage Location of Well: 1980 feet from the West line and 1980 feet from the north line				
Ground Level Elev. 3273.3	Producing Formation Morrow		Foot Indian Flats	Dedicated Acreage: 320 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 Unit

If answer is "no," list the owners and tract descriptions which have actually been consolidated 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.

Stephen Smith

Name

Stephen Smith

Position

Engineering Assistant

Company

Bass Enterprises Prod. Co.

Date

December 18, 1980

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

Oct. 22, 1980

Registered Professional Engineer and Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6865
Ronald J. Eidson 3239

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'+	500'+	500'+

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

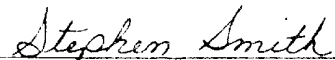
<u>Segment</u>	<u>Size</u>	<u>Grade</u>	<u>Thread</u>	<u>Weight</u>	<u>Top</u>	<u>Bottom</u>	<u>Length</u>
1	5-1/2"	S-95	LT&C	17#	9460'+	12650'+	3190'+
2	5-1/2"	N-80	LT&C	17#	0'+	9460'+	9460'+

Stephen Smith
Stephen Smith

BIG EDDY UNIT NO. 84

ANTICIPATED FORMATION TOPS

T/Salt	500'	(+2770')
T/Base Salt	2300'	(+ 970')
T/Dela Mtn Gp	2730'	(+ 540')
T/Dela Sand	2880'	(+ 390')
T/Indian Flats	3710'	(- 440')
T/Bone Springs	6340'	(-3070')
T/Wolfcamp	9670'	(-6400')
T/Strawn	10920'	(-7650')
T/Atoka	11345'	(-8075')
T/M. Morrow	12080'	(-8810')
T/L. Morrow	12380'	(-9110')
T/Barnett	12600'	(-9330')



Stephen Smith

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

068284

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER

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.*
(See also space 17 below.)
At surface

1980' FWL, 980 FNL, Sec. 24, T21S, R28E

14. PERMIT NO.

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

3273.3' GL

7. UNIT AGREEMENT NAME

Big Eddy Unit

8. FARM OR LEASE NAME

Big Eddy Unit

9. WELL NO.

84

10. FIELD AND POOL, OR WILDCAT

Us Indian Flats (Morrow)

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 24, T21S, R28E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Perry R. Bass hereby submits revised location for service road to Big Eddy Unit #84.
Please find attached an Exhibit "A" showing the existing roads and the proposed service road.

JAN 12 1981

U.S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED

Stephen Smith

TITLE

Engineering Assistant

DATE

January 8, 1981

(This space for Federal or State office use)

APPROVED BY

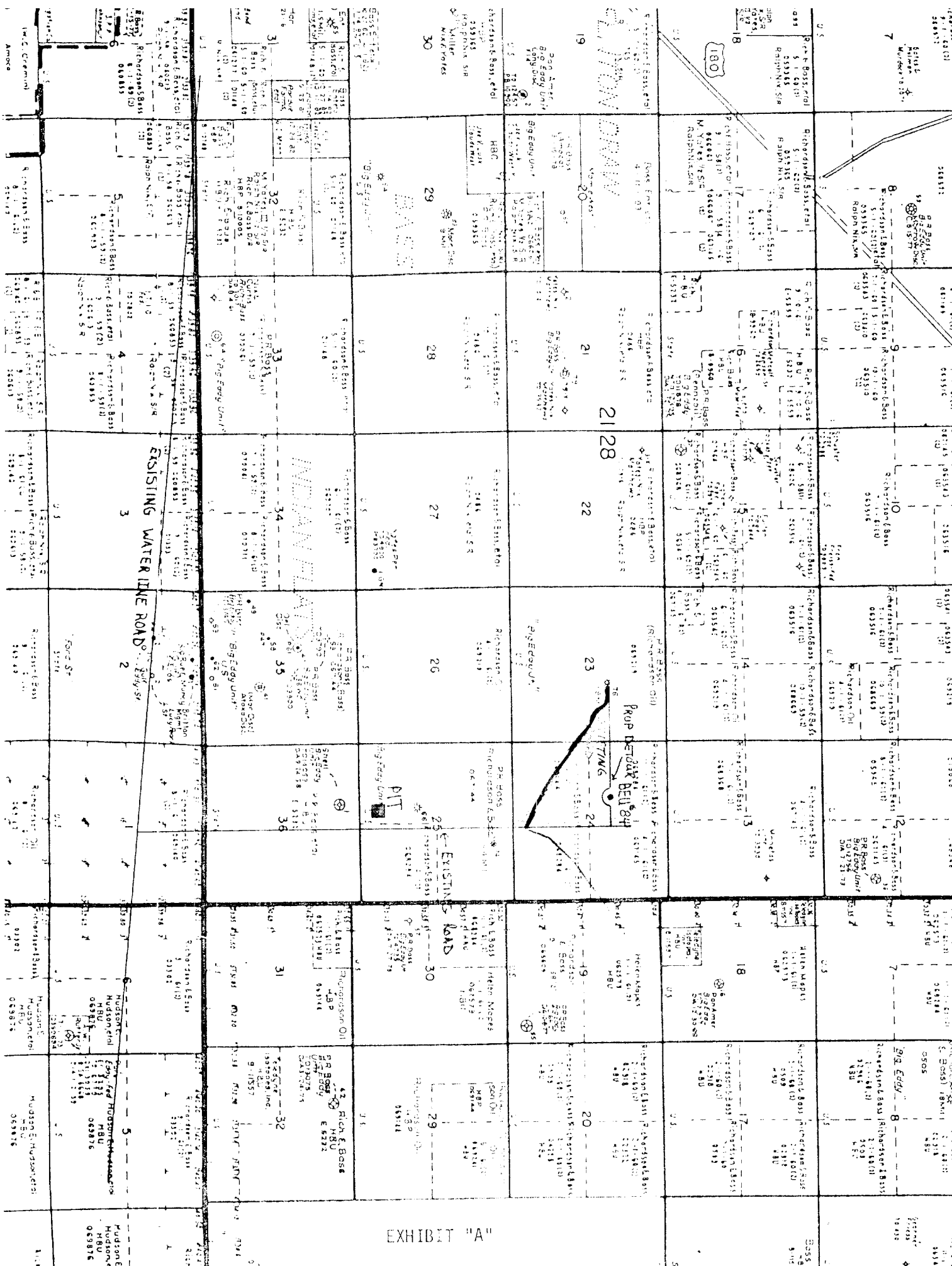
TITLE

ACTING DISTRICT ENGINEER

DATE

JAN 21 1981

JAN 21 1981



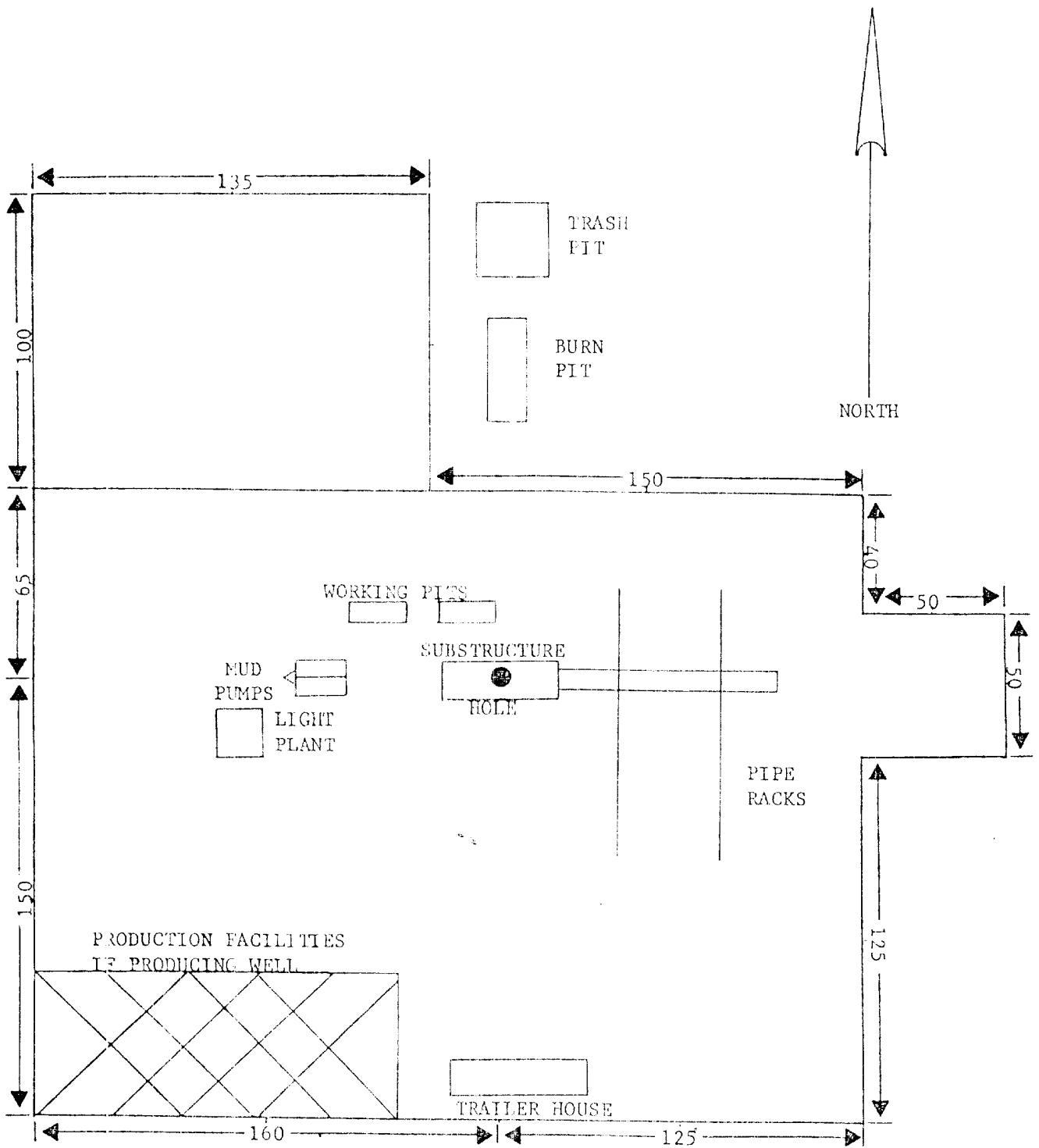
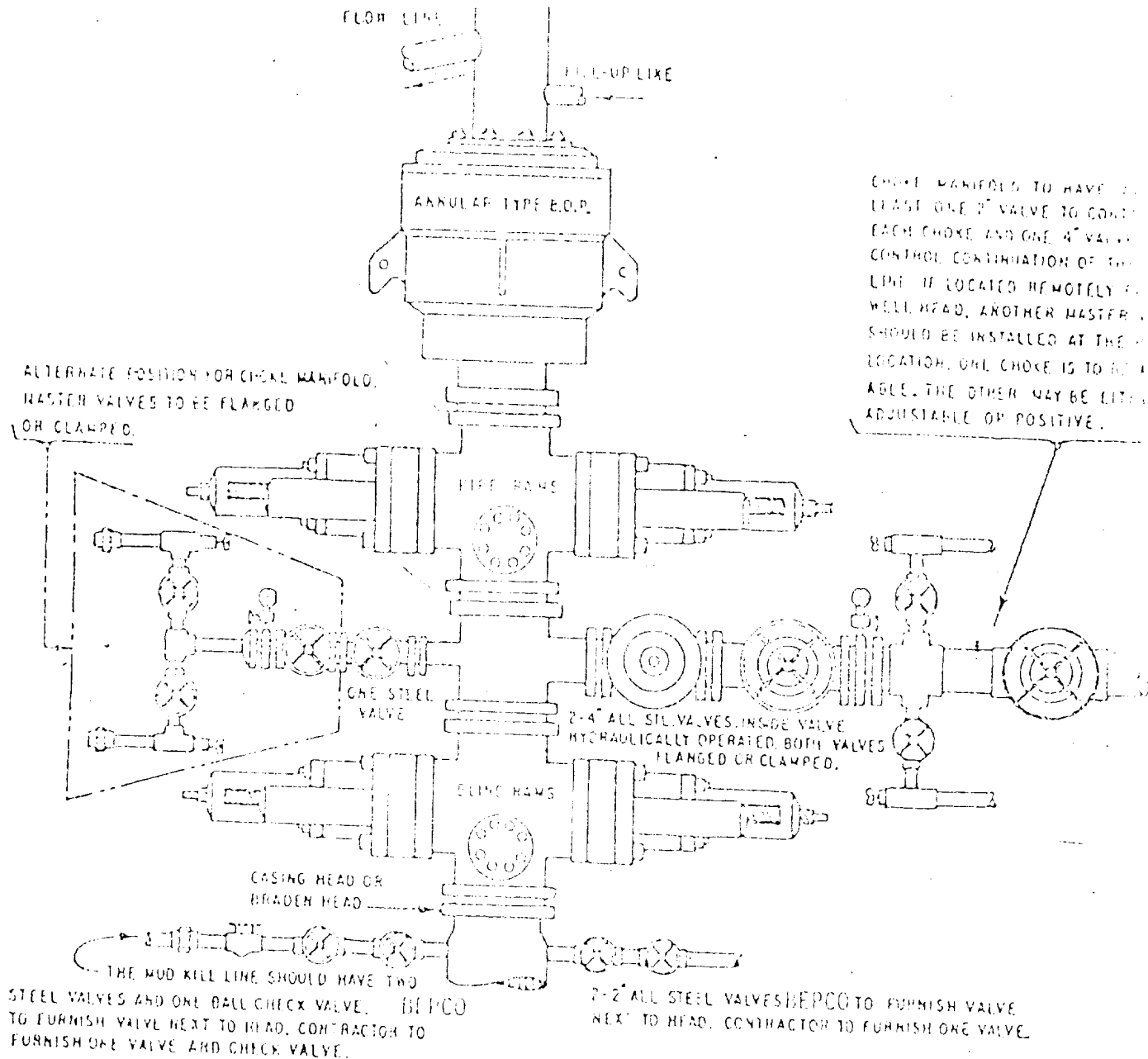


EXHIBIT "B"

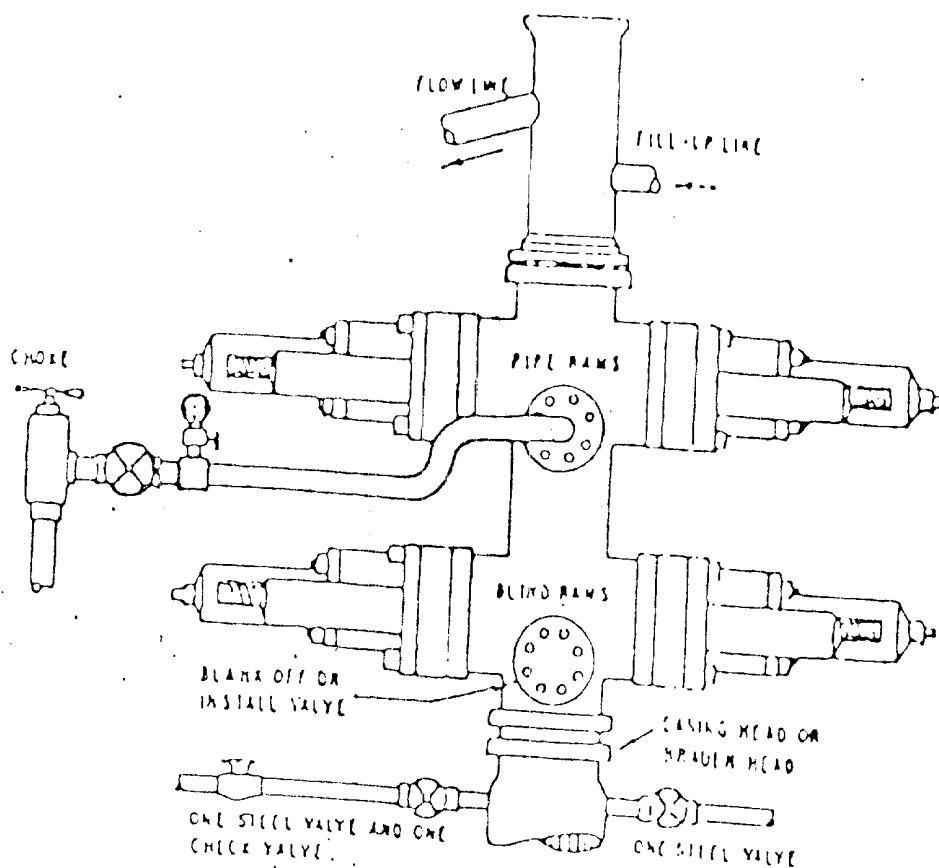


THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- 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.
- 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 DRILLING POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.

BEPCO IV

THREE CLOSURE HYDRAULIC BLOWOUT PREVENTERS



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, OPERATING 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.
- 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

DRILLING PROCEDURE

BIG EDDY UNIT NO. 84

Location:

1980' FWL, 1980' FNL, Sec. 24, T21S, R23E

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" O.D. will be drilled to 500'± (T/Rustler) and 11-3/4" 42#/ft H-40 casing run to total depth. The surface casing will be cemented with 290 sx Class "C" plus 2% CaCl₂. 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 results of this test must be reported in the daily driller's log.

Intermediate Hole:

An 11" O.H. will then be drilled to 2800'± (T/Delaware Mtn. Group) 8-5/8" casing will be run to total depth and cemented with approximately 1000 sxs Halliburton Lite plus 18# NaCl/sx plus 1/4#/sx floccel, plus 1% CaCl₂ "tailed-in" with 350 sx Class "C" with 2% CaCl₂ plus 1/4#/sx floccel. Cement will 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 "nippling 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:

A 7-7/8" O.H. will then be drilled to TD (12,650'±). A PVT recorder, flow-show sensor and rotating head will be installed before drilling the Wolfcamp.

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 45 days from spud to TD.



Gary Gerhard

/jjj