

XEROX COPY

SUBMIT 1 REPLICATE*

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

30-015-23758

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 ✓

APR 23 1981

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' FWL, Sec. 26 T21S, R28E

At proposed prod. zone

Same as above

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

10 miles east of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

660'

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.)

3190' GL

22. APPROX. DATE WORK WILL START*

Upon Approval

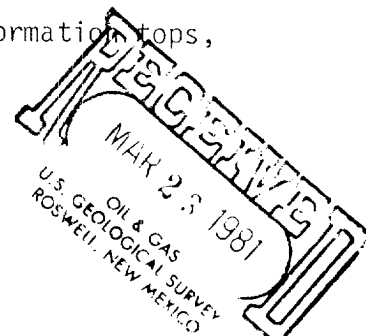
23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11-3/4"	42#	500'	290 sx circ. to surface
11"	8-5/8"	24 & 28#	2625'	925 sx circ. to surface
7-7/8"	5-1/2"	17#	TD	1100 sx

Drilling Procedure, BOPE diagrams, anticipated 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.

(Orig. & 1) GEORGE H. STEWART

APPROVAL DATE

APPROVED BY

APR 21 1981

TITLE

DATE

CONDITIONS OF APPROVAL IF ANY

FOR

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

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

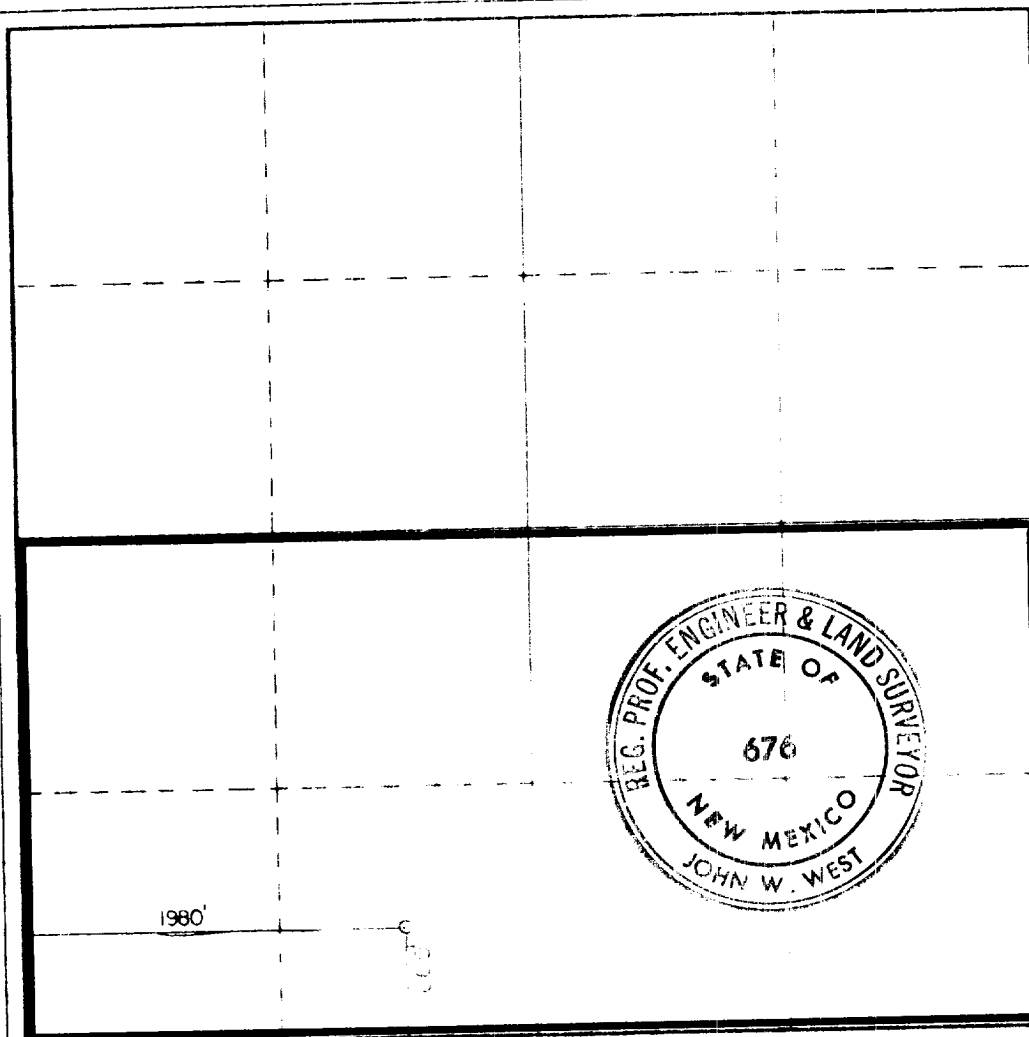
Operator Perry R. Bass		Lease Big Eddy Unit		Well No. 87
Unit Letter N	Section 26	Township 21 South	Range 28 East	County Eddy
Actual Footage Location of Well: 660 feet from the South line and 1980 feet from the West line				
Ground Level Elev. 3190	Producing Formation Morrow	Foot Indian Flats (Morrow)		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. (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.



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 Production Co

Date

December 17, 1980

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

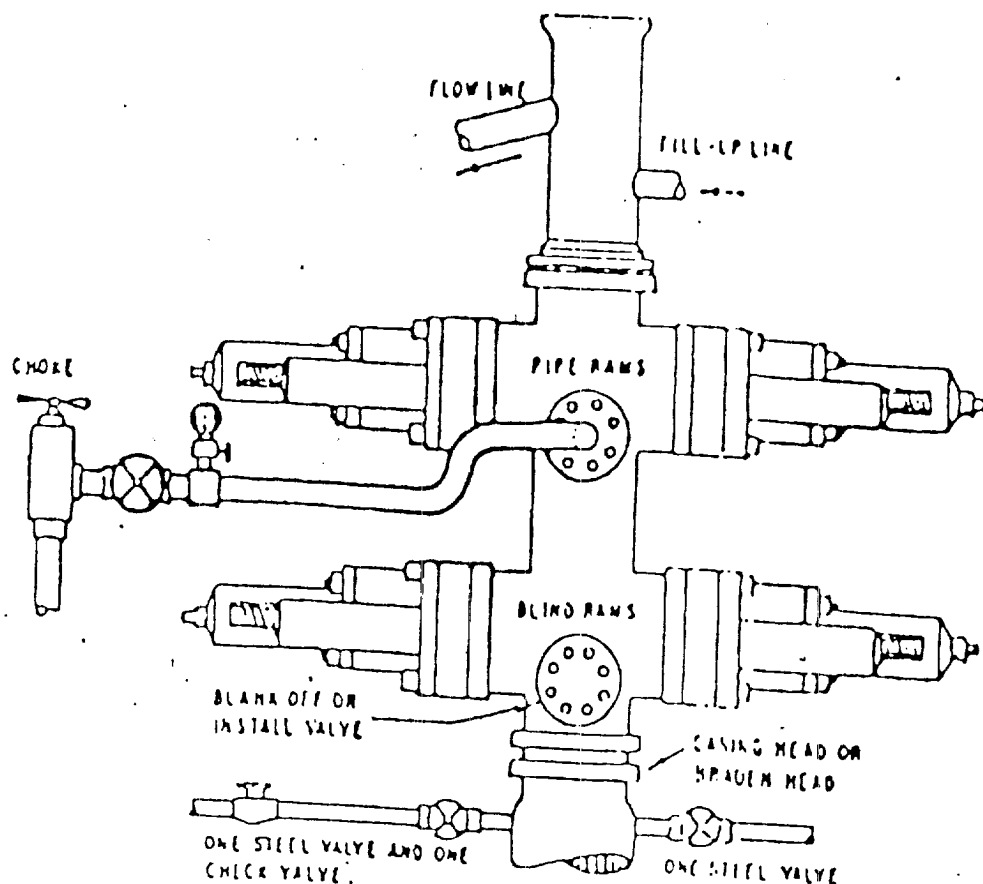
10-31-80

Date Surveyed

Registered Professional Engineer
John W. West

John W. West

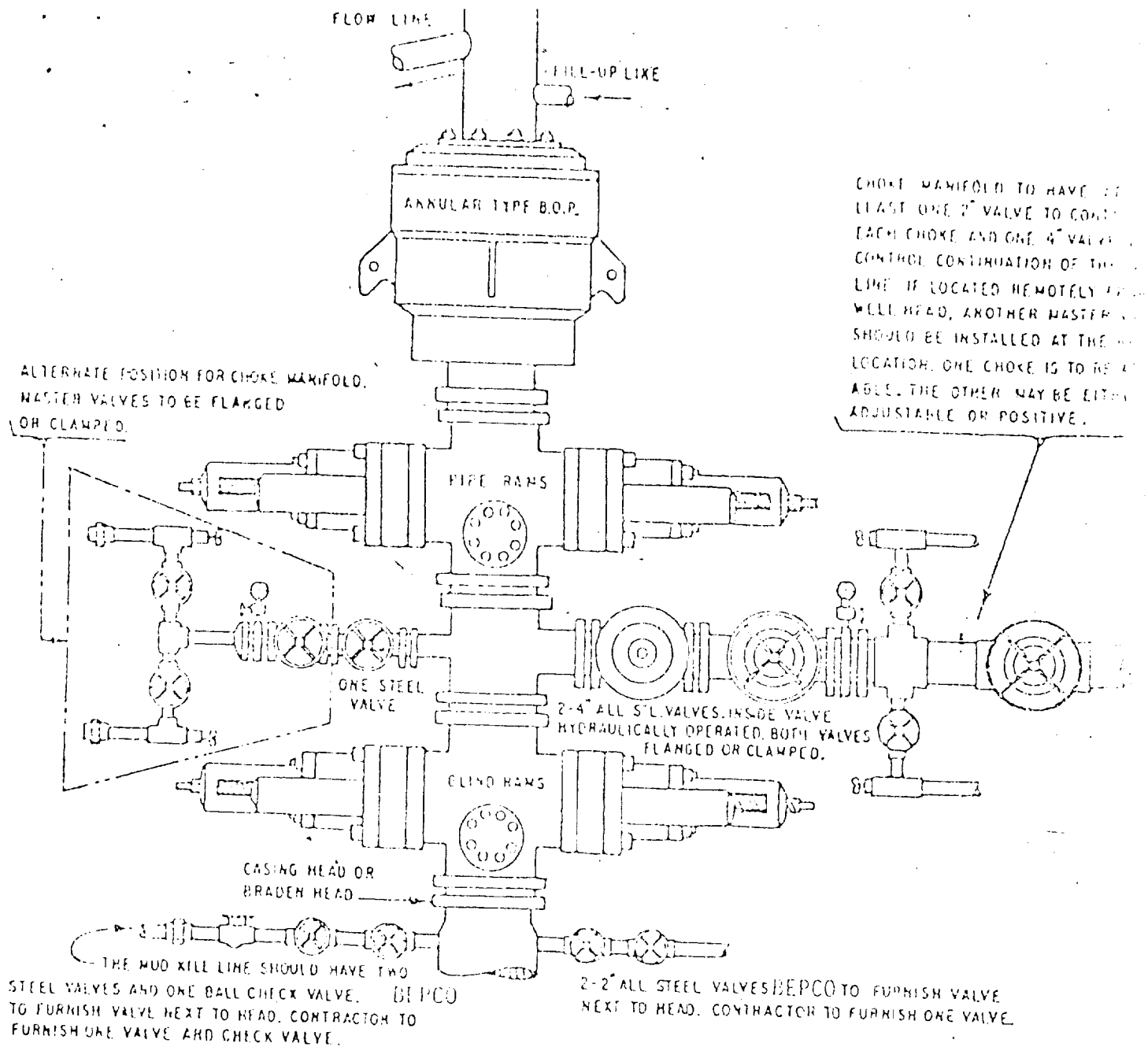
Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239



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.

REPCO II
ONE HYDRAULIC DUAL BLOWOUT PREVENTER



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

1. 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.
2. OPENING ON CHOKER SPOOL TO BE FLANGED, STUDDED OR CLAMPED.
3. ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
4. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE PREVENTER.
5. ALL CONNECTIONS TO AND FROM PREVENTER TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.'S.
6. MANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT PLUG.
7. KELLY COCK TO BE INSTALLED ON KELLY.
8. INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR.
9. DUAL OPERATING CONTROLS ONE LOCATED BY DRILLERS POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.

BLPCO IV

THREE CLOSURE HYDRAULIC BLOWOUT PREVENTERS

CASING DESIGN

BIG EDDY UNIT #87

<u>Segment</u>	<u>Size</u>	<u>Grade</u>	<u>SURFACE CASING</u>		<u>Top</u>	<u>Bottom</u>	<u>Length</u>
			<u>Thread</u>	<u>Weight</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"	S-80	ST&C	28#	775' ₊	2625' ₊	1850' ₊
2	8-5/8"	K-55	ST&C	24#		775' ₊	775' ₊

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#	9830' ₊	12,600' ₊	2770' ₊
2	5-1/2"	N-80	LT&C	17#	0' ₊	9,830' ₊	9830' ₊



Stephen Smith

SS/mr

BIG EDDY UNIT #87
ANTICIPATED FORMATION TOPS

T/Salt	500'	(+2718')
T/Base Salt	2,300'	(+ 918')
T/Dela. Mtn. Grp.	2,600'	(+ 618')
T/Dela. Sand	2,700'	(+ 518')
T/Indian Flats	3,600'	(- 382')
T/Bone Springs	6,300'	(-3082')
T/Wolfcamp	9,700'	(-6482')
T/Strawn	10,800'	(-7582')
T/Atoka	11,250'	(-8032')
T/Middle Morrow	12,000'	(-8782')
T/Lower Morrow	12,350'	(-9132')
T/BARNETT	12,550'	(-9332')

Stephen Smith



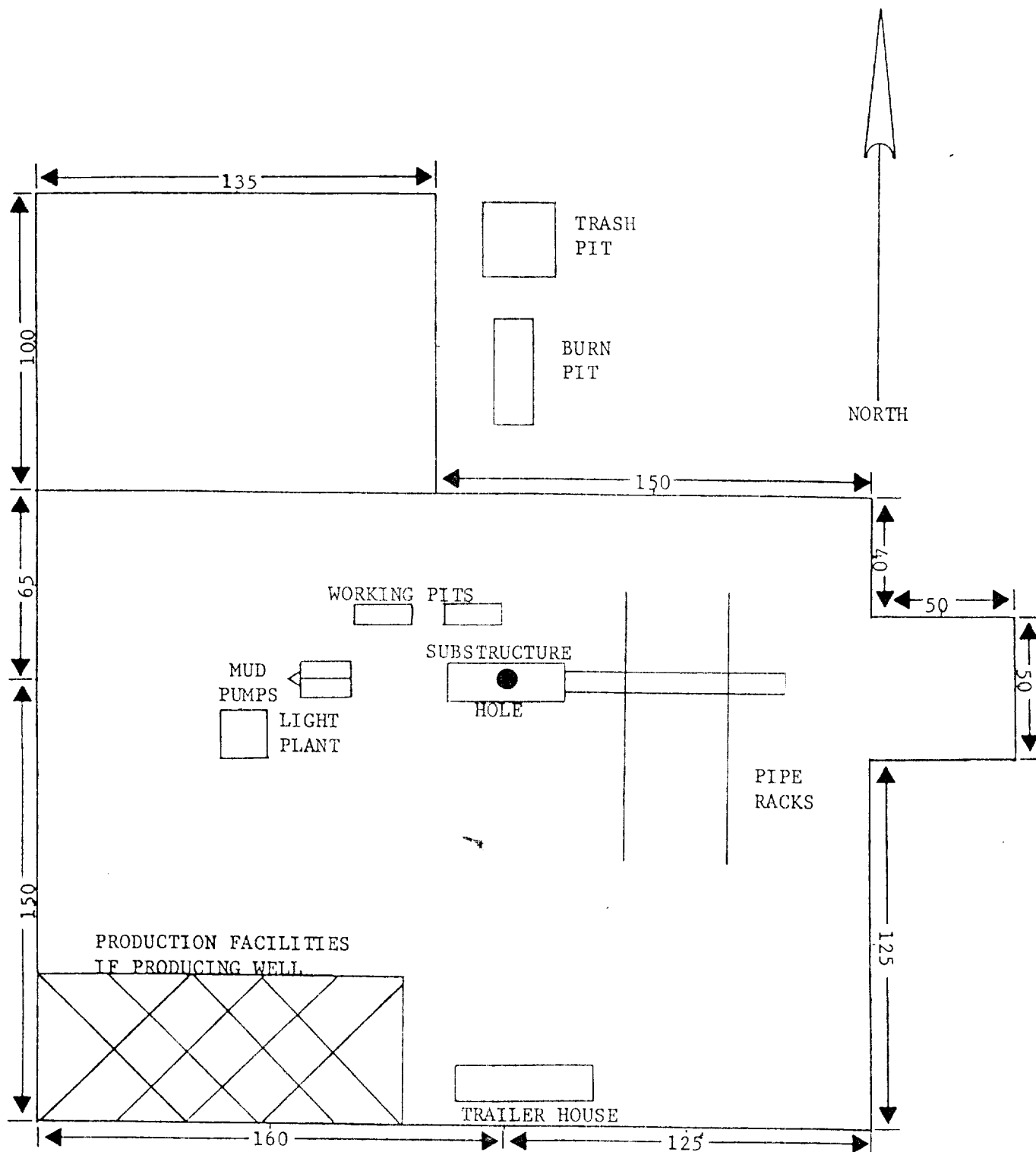


EXHIBIT "B"

DRILLING PROCEDURE

Big Eddy Unit # 87

Location:

660' FSL & 1980' FWL, Sec. 26, T21S, R28E

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.H. will be drilled to 500' $\pm$ (T/Rustler) 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 12 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 2600' (T/Delaware Mtn. Group) 8-5/8" casing will be run to total depth and cemented with approximately 1000 sks Halliburton Lite plus 18# NaCl/sx plus 1/4#/sx flocl, plus 1% CaCl_2 "tailed-in" with 250 sx Class "C" with 2% CaCl_2 plus 1/4#/sx flocl. Cement will be circulated to the surface.

Approximately 2144' (2600' - 456' = 2144')

BIG EDDY UNIT #87

Mud Program

<u>Interval</u>	<u>Type</u>	<u>Wt. (Approx.)</u>	<u>Vis.</u>	<u>Wtr. Loss</u>
0' - 500'±	Fresh wtr.	8.5#	40 - 50	NC
500'± - 2,600'±	Brine Wtr.	10.0#	28 - 30	NC
2,600'± - 9,700'±	Fresh Wtr.	8.4 - 8.8#	28 - 30	NC
9,700'± - 10,800'±	Brine Wtr.	10.0#	28 - 30	NC
10,800'± - 11,250'±	Brine Wtr.	10.3#	28 - 30	NC
11,250'± - TD	Brine Wtr.	11.5#	34 - 36	10 cc or Less

Stephen Smith

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