

N. M. O. C. C. COPY  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE\*  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.

30-015-21656

## 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

Hanagan Petroleum Corporation

## 3. ADDRESS OF OPERATOR

P. O. Box 1737, Roswell, New Mexico 88201

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

At surface

~~1630' FSL~~ 2310' FSL + 1650' / 12

At proposed prod. zone

Same

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

Approx. 13 miles southwest of Carlsbad, New Mexico

## 15. DISTANCE FROM PROPOSED\*

330'

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

990'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

None

## 19. PROPOSED DEPTH

11700

## 16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3676' GR

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

10/20/75

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65#	*50 to 350	Circulated
14-3/4 & 12-1/4"	9-5/8"	36 & 40#	2300 to 2400	Circulated
8-1/2 & 7-7/8"	5-1/2"	17 & 20#	11700	400

Plan use 10" - 1500 Series BOP & Hydrill w/drlg. head. Flow sensor, pit leveller & gas separator will be installed @ top Wolfcamp, anticipated @ 8300', yellow jacket will also be run @ this point. Drill w/fresh water & native mud to 9200', from 9200' to TD low solids fresh water mud 8.9 to 9.5#, vis. 38-45.

\*16" conductor pipe determine what is encountered down to 350' if we don't lose circulation, boulder problems, etc., we will set only approx. 50' conductor casing.

RECEIVED

OCT 20 1975

O. C. C.

ARTESIA, OFFICE

RECEIVED

OCT - 7 1975

U. S. GEOLOGICAL SURVEY

ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on 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

*Hugh E. Hanagan*

TITLE

Vice President

DATE 9/29/75

(This space for Federal or State office use)

PERMIT NO.

SUBJECT TO ATTACHED DEEP WELL CONTROL

REQUIREMENTS DATED

JUN 22 1975

EXPIRATION DATE

TITLE

DATE

APPROVED

OCT 17 1975

K. L. BEEKMAN

ACTING DISTRICT ENGINEER

THIS APPROVAL  
IS NOT VALID  
UNLESS IT IS  
RENEWED WITHIN 3 MONTHS.

JAN 17 1976

\*See Instructions On Reverse Side

DECLARED WATER BASIN

16 7/8

C MUD MUST BE CIRCULATED

NOTICE: HRS IN SUFFICIENT TIME TO  
97%

CASING.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-73

All distances must be from the outer boundaries of the Section.

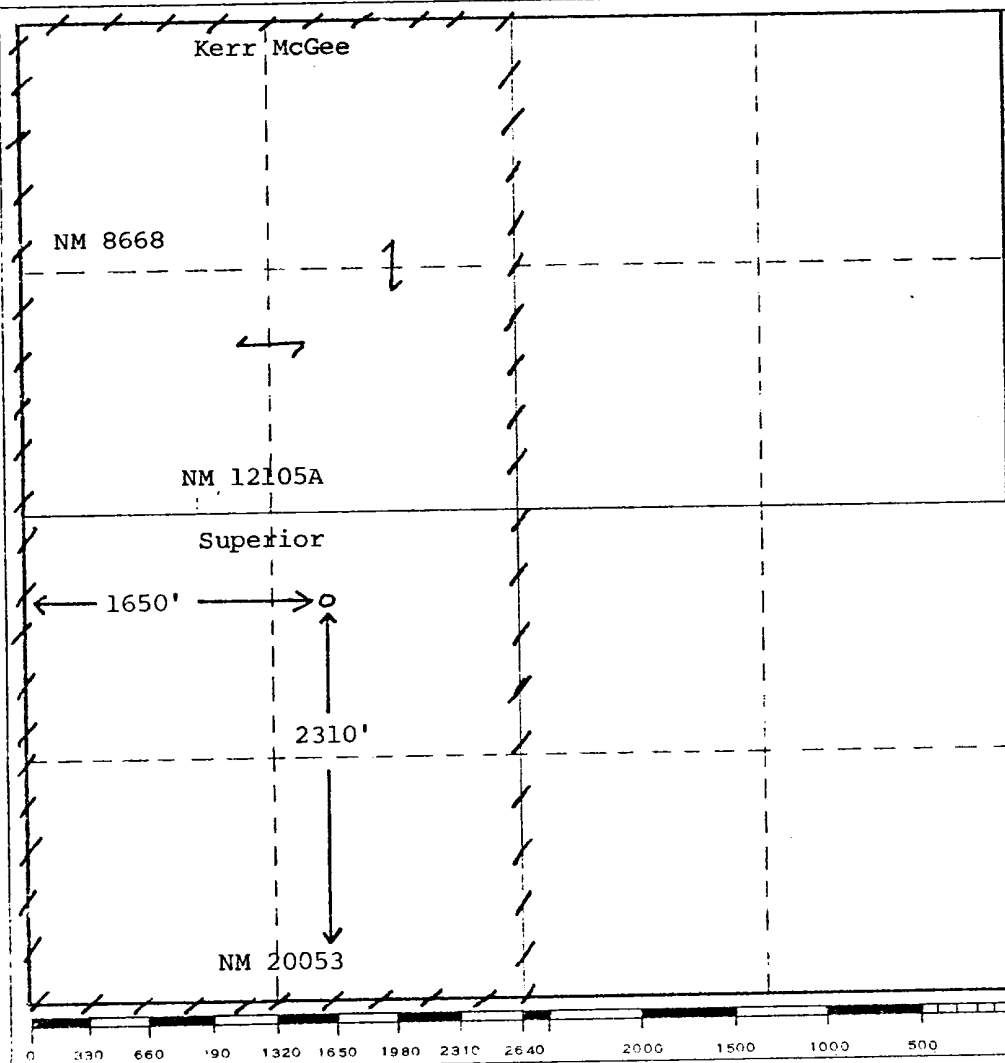
Operator <b>Hanagan Petroleum Corporation</b>		Lease <b>Horseshoe Bend</b>		Well No. <b>1</b>
Unit Letter <b>K</b>	Section <b>34</b>	Township <b>23 South</b>	Range <b>25 East</b>	County <b>Eddy</b>
Actual Postage Location of Well: <b>2310</b> feet from the <b>South</b> line and <b>1650</b> feet from the <b>West</b> line				
Ground Level Elev. <b>3676</b>	Producing Formation <b>Morrow</b>	Pool <b>Wildcat</b>	Dedicated Acreage: <b>320</b> 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 Will be communitized

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.

*Hugh E. Hanagan*  
Name  
Hugh E. Hanagan

Position  
Vice President

Company  
Hanagan Petroleum Corporation

Date  
9/29/75

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.

**RECEIVED**  
OCT - 7 1975  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO  
Sep 7 29 1975

Date Surveyed  
*[Signature]*  
Registered Professional Engineer  
and/or Land Surveyor

*N. M. 220*  
Certificate No.



PHONE 505 - 623-5053  
J. P. WHITE BUILDING  
POST OFFICE BOX 1737  
ROSWELL, NEW MEXICO

DEVELOPMENT PLAN SURFACE USE  
HANAGAN PETROLEUM CORPORATION - NO. 1 HORSESHOE BEND  
11,700' Morrow Test - Eddy County, New Mexico

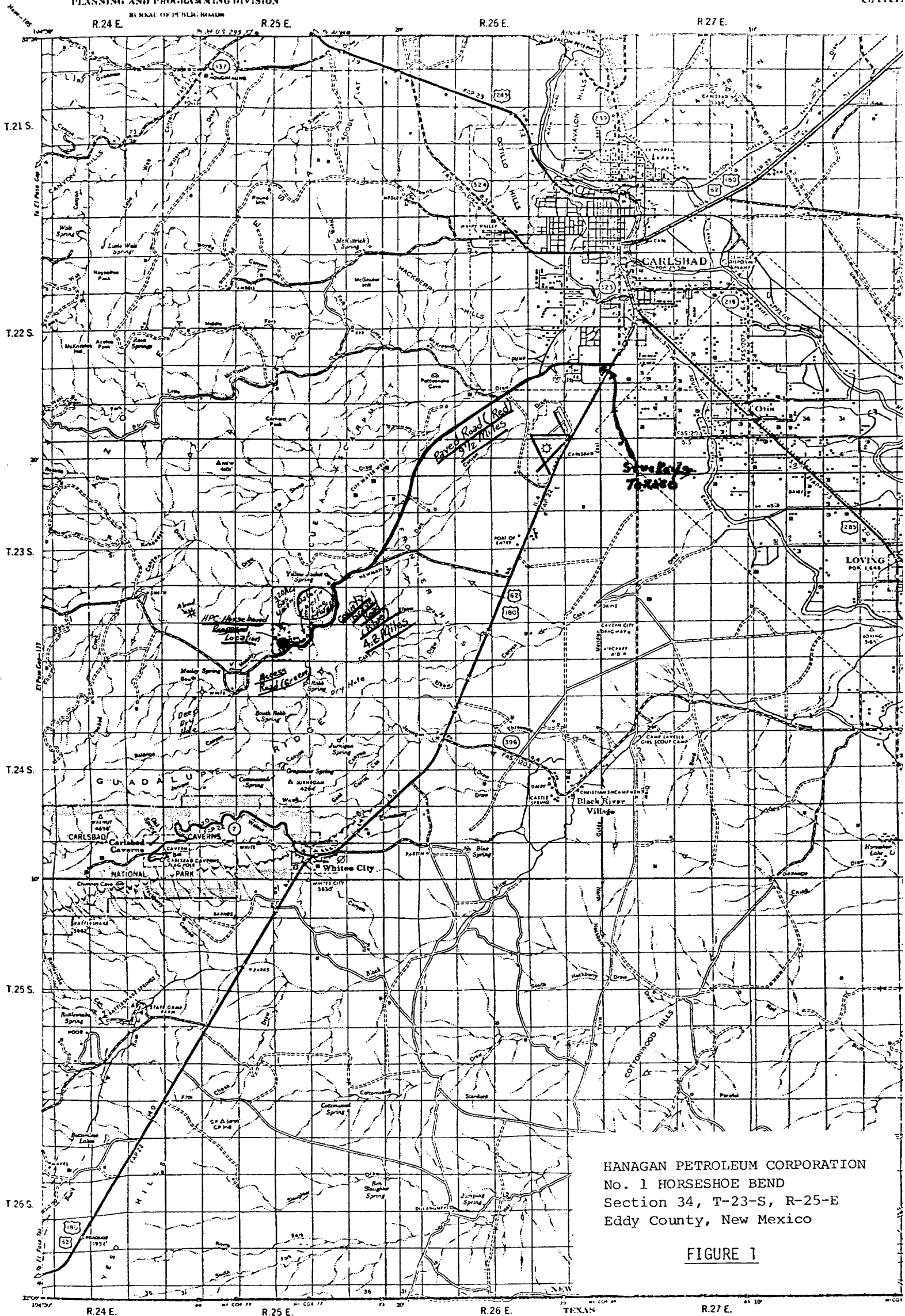
1. Existing Roads & Exits From Main Highway: As shown on attached figure 1, the proposed well is located about 13 miles southwest of Carlsbad, New Mexico. Go south out of Carlsbad on Highway 62/80 about 1 mile, turn west on paved road which is immediately north of Stuckey's Texaco Service Station. Follow red colored road in figure 1 which is a black top road for  $9\frac{1}{2}$  miles to the end of the pavement. At this point, follow the blue line (Fig. 1) which is a gravel county road for 4.2 miles where you turn right (north) on the access road (colored green) to the well location colored orange.
2. Planned Access Road: (See Fig. 1 & Fig. 2) New road to be caliche topped if necessary 10 feet wide and approximately 1600 feet in length.
3. Location of Existing Wells: Nearest deep well (dry hole) is about  $1\frac{3}{4}$  miles southeast, a couple of other wells west and southwest about 2 miles away, and one shallow dry hole about 1 mile in NW $\frac{1}{4}$ NW $\frac{1}{4}$  of sec. 35-23S-25E.
4. Lateral Roads to Well Location: See Fig. 1, go right off county road to location (approx. 1600').
5. Location of Tank Battery & Flow Lines: Shown on attached Figure 2.
6. Location & Type Water Supply: As <sup>marked on</sup> ~~much as~~ Figure 1 in purple, plan to use rancher's water well, (presently has a windmill on it) located in SE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 34. Mr. White presently has well. Water line to run along side of road (approx.  $\frac{3}{4}$  mile) to location.
7. Method Handling Waste: As shown Figure 2, a burn pit would be used for all trash and latter buried by covering pit with dirt. The reserve pit to be used for drilling fluid and cuttings. Both pits would be covered over and levelled after use and when dried out.
8. Location of Camps: None.
9. Location of Airstrips: None.
10. Diagram Equipment at Drillsite: See Figures 2&3.
11. Surface Restoration: Drillsite area will be levelled, cleaned of all trash and etc.
12. Description of Area to be Used: The general topography of the area is rather rugged with numerous hills and valleys. The well location falls on the east side of a low relief hill, very rocky covered with cactus, thorn bushes and some gramma grass. There are no deep gullies or drainage channels present to change the drainage in the area of the location. The nearest habitation is about  $1\frac{1}{2}$  to 2 miles southwest, which is the ranch house belonging to the rancher, Mr. John H. White. Mr. White was contacted and helped us find the location.
13. Company Representative: Hugh E. Hanagan, P.O. Box 1737, Roswell, New Mexico 88201, phone 623-5053

# NEW MEXICO STATE HIGHWAY DEPARTMENT

PLANNING AND PROGRAMMING DIVISION

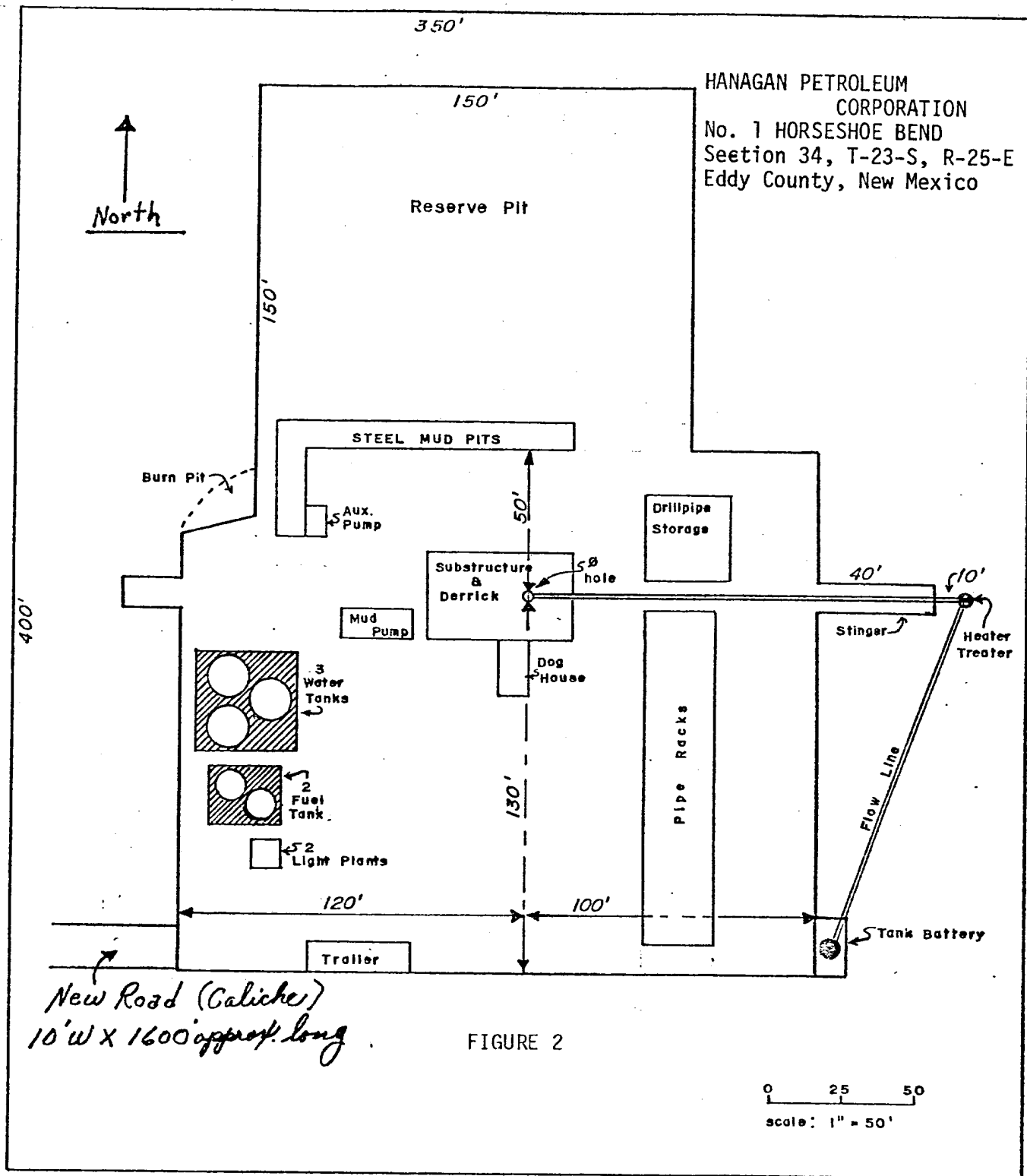
BUREAU OF PUBLIC ROADS

CARL



HANAGAN PETROLEUM CORPORATION  
No. 1 HORSESHOE BEND  
Section 34, T-23-S, R-25-E  
Eddy County, New Mexico

FIGURE 1



HANAGAN PETROLEUM  
CORPORATION  
No. 1 HORSESHOE BEND  
Section 34, T-23-S, R-25-E  
Eddy County, New Mexico

FIGURE 2

0 25 50  
scale: 1" = 50'

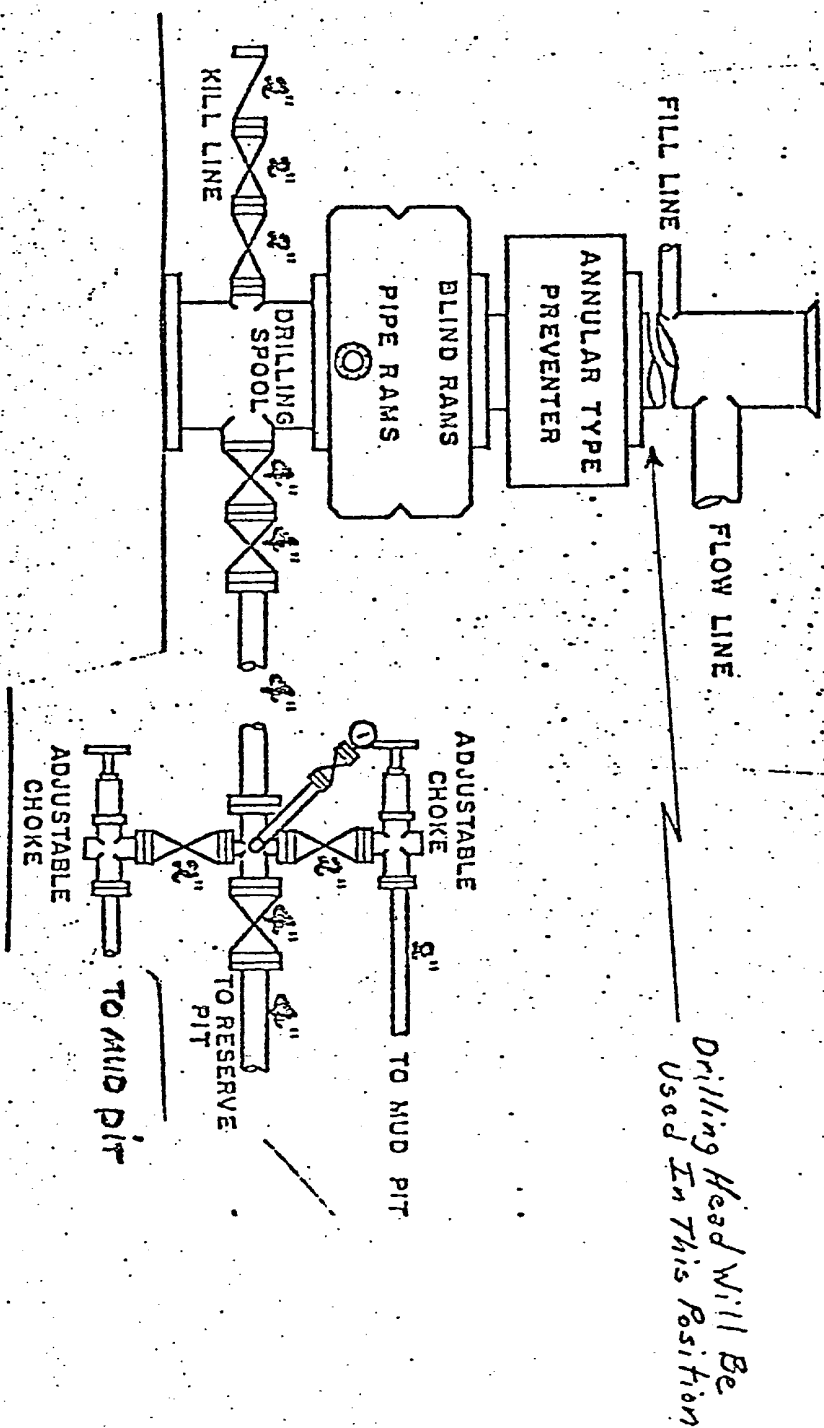


FIGURE 3

*Moore Standard BOP and Choke Assembly*

*For Pies 3, 7, & 8*

*12/19/73*

*Wm. Davis*

*1500 Series*