

M. A. C. COPY  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE\*  
(Other ins on reverse)Form approved.  
Budget Bureau No. 42-R1425.

30-015-20999

## 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

1980' FNL &amp; FWL

At proposed prod. zone

Same

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

8 miles southwest of Carlsbad

## 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

1440.84

## 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.

None

## 19. PROPOSED DEPTH

11,700'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3524' GR

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

10/23/73

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	22"	95	30 to 40	Circ.
20"	16"	65	400	Circ.
14-3/4 & 12-1/4	9-5/8"	36 & 47	5000	Circ. w/DV tool
8-1/2"	5-1/2"	17 & 20	11700	400 sx.

Est. 3 to 4 days build road & location, plan set 22" conductor 30 to 40', move in and spud with cable tools to possibly 400' or until rotary rig available, drill remainder of hole with rotary. Plan drill 20" hole to 400' and set 16" csg., cmt. circ.. Drill 14-3/4" hole to approx. 1000', reduce to 12-1/2" and drill to 5000', run 9-5/8" csg., circ. cmt. w/DV tool set @ 1650' (base reef), drill 8-1/2" hole to TD. Will use 10" - 1500 Series BOP & Hydrill; flow sensor, pit leveller & yellow jacket @ top Wolfcamp est. 8500'. Fresh water & native mud from surface to 9500', low solids fresh water mud 9.3 to 9.5# wt. to total depth.

RECEIVED  
OCT 18 1973  
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

Hugh E. Hanagan

TITLE

Vice President

DATE

10/17/73

(This space for Federal or State office use)

PERMIT NO.

SUBJECT TO ATTACHED DEEP WATER CONTROL REQUIREMENTS DATED

JUN 22 1973

DECLARED WATER BASIN

C. MENT BEHIND THE CASING MUST BE CIRCULATED

APPROVED  
OCT 25 1973  
R. L. BECKMAN  
ACTING DISTRICT ENGINEERTHIS APPROVAL IS VALIDATED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.  
See Instructions On Reverse Side  
JAN 25 1974

NOTIFY USGS IN SUFFICIENT TIME TO WITNESS CEMENTING THE CASING.