

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.

NM 10895

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

North Horseshoe Bend

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat *Morrow*11. SEC., T., R., M., OR BLM.
AND SURVEY OR AREA

22-23S-25E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

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

O. C. C.
ARTESIA, OFFICE

3. ADDRESS OF OPERATOR

P.O. Box 1737 - Roswell, N.M. 88201

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

At surface

660' FNL & 1980' FEL

At proposed prod. zone

660' FNL & 1980' FEL

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

Approx. 11 miles Southwest of Carlsbad, N.M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

280

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

11,600'

20. ROTARY OR CABLE TOOLS

Rotary

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

3857GR - 3873KB

Surface Formation - Tansil (Permian)

22. APPROX. DATE WORK WILL START*

8/1/77

23.

PROPOSED CASING AND CEMENTING PROGRAM

60 days operations

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	New 16"H-40 65#	@ 100' w/	125 sx.	Class "C" 2% CaCl
14 3/4 & 12 1/2"	New 9 5/8 K55 35#	@ 2400 w/	800 sx	Class "C" 5#gil 1/2# flocl & 2%Ca + 150 sx class "C" Neat w/2% CaCl
8 1/2"	New 5 1/2 N-80 17 & 20#	@ 11,600' w/	450 sx	Class "H" w/Halide 9 & KCL

Est. Tops:

B/Capitan RF. 1725' BOP & Hydrill 10" - 1500 Series (see attachment), test pipe rams &
BS Lime 5100' hydril daily blind rams on trips. Install pit leveller, flow sensor,
3rd BS Sd. 8025' & gas separator (also yellow jacket) @ top Wolfcamp @ 8400' - Drill
Wolfcamp 8400' w/ fresh wtr. & native mud fr. surf. to 9100', from 9100 to T.D.
Strawn 9820' w/ brine wtr. 3 to 5% KCl & wt. 9.2 to 9.5 (sufficient to control
Atoka 10350' BHP). No abnormal high press. or hydrogen sulphide gas anticipated.
Mor. Clastic 10900' Pos. productive zones drillstem tested, no coring, electric logs
Base Morrow 10375' run to T.D. Reef water 400 to 500; Morrow gas zone 10,900 to
11,400, no other minerals expected.

Basis not 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

Hugh C. Hanagan

TITLE Vice President

DATE 7/12/77

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVAL DATE

DECLARED WATER BASIN

CEMENT BEHIND THE
DATE CASING MUST BE CIRCULATED

NOTIFY USGS IN SUFFICIENT TIME TO

WITHNESS CEMENTING THE CASING.

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
OCT 18 1977

See Instructions On Reverse Side