

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instr. as on
reverse s.)

30-015-33301

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 Corporation3. ADDRESS OF OPERATOR
P. O. Box 1737, Roswell, NM 882014. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

1650' FSL & 1650' FEL

At proposed prod. zone

1650' FSL & 1650' FEL

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

Approx. 6 miles West of Carlsbad, NM

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

1650'

16. NO. OF ACRES IN LEASE
120 Ac.17. NO. OF ACRES ASSIGNED
TO THIS WELL
64018. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH
10,900'20. ROTARY OR CABLE TOOLS
Rotary

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

3533 GR

Surface formation

Tansil (Perm.)

22. APPROX. DATE WORK WILL START*
6/25/77

23. PROPOSED CASING AND CEMENTING PROGRAM

60 days operations

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8 New H-40	ST & C 48#	250	250 sx Class "C" 2%CaCl, Circ.
12 1/4 & 11"	8 5/8 New K55 24	& 32#	2200	750 sx Howco Light w/flocel, gilson 2%CaCl + 150 sx neat Class "C" w/2%CaCl
7 7/8	5 1/2 New N-80	17 & 20#	10,900	450 sx Class "H" 2/ holidie 9 & KCl

Est. Tops:

B/Capitan Rf. 1920 Use 10"-1500 Series BOP & Hydrill (see attachment), test pipe rams &
BS Lime 4280 hydrill daily, blind rams on trips. Install pit leveller, flow sensor, &
3rd BS Sd. 7550 gas separator (also yellow jacket) @ top Wolfcamp @ 7880: Drill w/fresh
Wolfcamp 7880 wtr. & native mud fr. surf. to 8500', fr. 8500# brine wtr. w/3 to 5% KCl
Strawn 9380 & wt. 9.2 to 9.5# (sufficient to control BHP). No abnormal high press. or
Atoka 9870 hydrogen sulphide gas anticipated. Pos. productive zones drillstem tested
Mor. Clastic 10,320 no coring, & electric logs run to TD. Pos. loss circ. fr. 0 to 200', reef
Base Morrow 10,750 wtr. pos. @ 500'. Anticipated gas zone in Morrow 10,320-10,750', no other
minerals expected.

Gas 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. Hugh E. Hanagan
SIGNED Hugh E. Hanagan TITLE Vice President

DATE 6/17/77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

JUN 28 1977

APPROVED BY

TITLE

ACTING DISTRICT ENGINEER

DATE

JUN 28 1977

CONDITIONS OF APPROVAL, IF ANY:

subject to attached stipulations!

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

EXPIRES SEP 28 1977

*See Instructions On Reverse Side

NOTIFY USGS IN SUFFICIENT TIME TO

WITNESS CEMENTING THE CASING

DECLARED WATER-BASIN
CEMENT BEHIND THE
CASING MUST BE CIRCULATED