

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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

3. ADDRESS OF OPERATOR

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

At surface

1,650' FSL & 1,650' FEL of Sec. 2

At proposed prod. zone

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

10. DISTANCE FROM PROPOSED*

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

18. DISTANCE FROM PROPOSED LOCATION*

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

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

3260' GR (Est.)

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	350'	Circ. - 293 Sks.
12 1/2"	9 5/8"	32.3# & 36.0#	2,840'	921 Sks. or Circ.
* 8 3/4"	7"	26#	9,500'	1,000 Sks.
7 7/8"	5 1/2"	17#	10,400'	663 Sks.

It is proposed to drill a straight hole to a TD of 10,400' and complete as a Morrow E Sand Gas Well.

Mud program 0'-350' (8.5-9.5 Spud mud) 350'-2840' (Brine water trth with HYSEAL) 2840'-8,100' (Brine water trth. with lime gel) 8,100'-9550' (Salt Water trth. with HYSEAL & MICH) Mud weight 350'-9550' to be 9#, 9550'-10,000' (Salt water, 9.3# central water loss to 12 CL) 10,000'-10,400' (Salt water, add 3% KCl, central water loss to 5 CL)

Blow out Preventer Specifications are attached.

Big lay out will be submitted when contractor has been secured.

*To be run if lost circulation is a problem.

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

TITLE

DATE

(This space for Federal or State office use)

APPROVED

REMARKS

APPROVED BY

K. L. BECKMAN

ACTING DISTRICT ENGINEER

USGS-6

File

Words

DEC 20 1973

TITLE

DATE

DECLARED WATER BASIN

CEMENT BEHIND THE
CASING MUST BE CIRCULATED

NOTIFY USGS IN SUFFICIENT TIME TO

WITNESS CEMENTING THE CASING.