

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYOTHER INSTRUCTIONS ON
REVERSE SIDE

ARTESIA, NM 88210

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

2. NAME OF OPERATOR

Harvey E. Yates Company

3. ADDRESS OF OPERATOR

P. O. Box 1933, Roswell, New Mexico 88201

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

At surface

2310' FNL & 653' FWL

At proposed prod. zone

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

8 miles south of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

653'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

NA

16. NO. OF ACRES IN LEASE

59

19. PROPOSED DEPTH

2500

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary 1215' to 2500'

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

3670 GL

22. APPROX. DATE WORK WILL START*

30 days after approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|---|
| 7 7/8 | 4 1/2 | 11.6 | 2500 | Suff to circulate 600' : above pay zone. |

Proposed Deepening Procedure:

1. Move in air drlg rig.
2. Clean out to 1215'.
3. Air drill from 1215' to 2500'
4. Run electric logs.
5. Run & cement 4 1/2" casing.
6. Perf, acidize, & test Loco Hills Sand.



JAN 3 1982

MINERAL SERVICES
ROSSELL, 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

TITLE

Engineer

DATE December 22, 1982

(This space for Federal signature)

(Orig. Sgd.) PETER W. CHESTER

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

FOR

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

APPLICATION FOR DRILLING

HARVEY E. YATES COMPANY
Penrod Federal #1
Eddy County, New Mexico

In conjunction with form 9-331C, Application for Permit to Drill subject well in Section 12, Township 18 South, Range 28 East, Eddy County, New Mexico, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with U.S.C.S. requirements:

1. The geologic surface formation is quaternary alluvium and dune deposits and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

| | | | |
|------------------|------|--------------|-------|
| Austin | 421' | Santa Rivers | 1239' |
| Cowden Anhydrite | 588' | Fowers | 1469' |
| Base of Salt | 735' | Queen | 1660' |
| Transtill | 750' | Penrose | 2096' |
| Yates | 913' | Grayburg | 2344' |
| Yates "A" | 966' | Loco Hills | 2432' |
3. We do not anticipate finding water but have listed the formations in which we anticipate finding oil or gas:

| | | | |
|----------|-------|------------|-------|
| Yates | 913' | Loco Hills | 2432' |
| Grayburg | 2344' | | |
4. Proposed casing program: See Form 9-331C
5. Mud program: Air Drill.
6. Auxiliary equipment: Blowout preventer.
7. Logging and Logging: Compensated Neutron Formation and Dual laterals to log possible DST's in the Yates, Grayburg, and Loco Hills.
8. No abnormal pressures or temperatures are anticipated.
9. Anticipated starting date: Thirty days after approval.

RECEIVED
JUN 3 1982

MINERAL SERVICE
ROSWELL, NEW MEXICO