

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED

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

Tenneco Oil Company

3. ADDRESS OF OPERATOR

7990 IH 10 West San Antonio, Texas 78230

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

At surface

1200' FNL & 1200' FWL

At proposed prod. zone

Same

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

4 mis. SE to Happy Valley, N.M.

O. C. D.

ARTESIA, OFFICE

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

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

1200'

16. NO. OF ACRES IN LEASE

1000

18. DISTANCE FROM PROPOSED LOCATION*

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

None

19. PROPOSED DEPTH

10653'

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

3361 KB, 3360' DF, 3345' GL

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

1. MIRU PU.

2. Kill well (if necessary) with 10# brine with anhib, clay stabilizer, and low surf - 259 surfactant.

3. Unseat packer. TOH with tubing and packer. LD all 2-7/8" tubing. Fill hole with completion-packer fluid.

4. RD PU.

5. TIH with CIBP and set at 10,653'.

6. Dump bail 35' cmt on CIBP. WOL 24 hours.

7. Pressure test cmt to 500 psi.

(OVER)

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

Robert A. Mattie

TITLE

Production Engineering Supv. DATE July 11, 1983

(This space for Federal Approval)

APPROVED

PERMIT NO.

(Orig. Sgd.) PETER W. CHESTER

APPROVAL DATE

APPROVED BY

AUG 15 1983

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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8. RU Schlumberger. Run CBL with and without pressure. If bonding is less than good from 2300-4100', run CET log with and without pressure.
9. Decision point.
 - a. If there is more than 50% cmt and good isolation over potential zone of interest, run CNL-NGT log to identify gas zones and run GST log with Boron sleeve to evaluate oil zones. RD mast truck and await log results (3-5 days).
 - b. If there is less than 20% cement over potential zone, abort rest of logging runs and perforate, 3084' - 3130'.
 - c. If there is significant long distance channeling on CET log, perform squeeze job after GST log is run.
10. RU electric line with 3000 psi lubricator. RIH with 4" csg gun, tie-in with GR log, and perforate Delaware interval as per recommendation from GE and RE departments.
11. TIH with tubing and packer. Set packer at 3,000'.
12. Swab well in.
13. Stimulate as per recommendation.
14. Run production test on well.
15. TIH with 5-1/2" tubing anchor on present 2-7/8" tubing and set tubing anchor at 3050' (bottom of tubing to be at 3150').
16. RIH with API 66 rod string and tubing pump. Seat and space out.
17. Move in 160 pumping unit and hang well on.
18. Return well to production.