C15F

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
DEC 23 1991
OCD
ARTESIA, OFFICE

Form C-101
Revised 1-1-89

API NO. (assigned by OCD on New Wells)
30-015-21497

5. Indicate Type of Lease STATE [XX] FEE [ ]

6. State Oil & Gas Lease No. K-5017

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:
DRILL [ ] RE-ENTER [XX] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well:
OIL WELL [ ] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. Lease Name or Unit Agreement Name: Todd 2 State

2. Name of Operator: Texaco Exploration and Production Inc.

8. Well No. 1

3. Address of Operator: P.O. Box 730 Hobbs, New Mexico 88240

9. Pool name or Wildcat: Ingle Wells Delaware

4. Well Location
Unit Letter F : 1980 Feet From The North Line and 1980 Feet From The West Line

Section 2 Township 24-S Range 31-E NMPM Eddy County

10. Proposed Depth	11. Formation	12. Rotary or C.T.
10,765' PBTD	Delaware	Pulling Unit

13. Elevations (Show whether DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contractor	16. Approx. Date Work will start
3475' GR	Blanket		January 15, 1992

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48#	635'	700	Circulated
12-1/2"	10-3/4"	51#, 45.5#, 40.5#	4430'	2200	Circulated
9-1/2"	7-5/8"	38#, 33.7#, 39#	12,534'	3400	Surf. (Calc)
6-1/2"	5"	23.6#	12,096-14,966'	600	T.O.L. (Calc)

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 7/3/92
UNLESS DRILLING UNDERWAY

Well is currently completed in the Undesignated Delaware

1. MIRU pulling unit. TOH w/rods and pump. Install BOP. TOH w/tbg.

2. TIH w/7-5/8" cmt retainer on tbg. Set retainer at 7100'. Squeeze Delaware perfs 7210'-7217' w/50 sacks Class 'C' cement w/4/10% Halad 322 (fluid loss and dispersant) followed by 50 sacks Class 'C' neat cement. Sting out of retainer. Reverse out excess cmt. TOH w/tbg. WOC.

3. TIH w/6-1/2" bit, 6 4-1/4" DC on tbg. Drill out cmt and cmt retainer. Shut BOP and pressure test squeeze to 1000 psi surface pressure.

(CONTINUED ON BACK)

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE M.C. Duncan TITLE Engineer's Assistant DATE 12-19-91

TYPE OR PRINT NAME M.C. Duncan TELEPHONE NO. 393-7191

(This space for State Use)
ORIGINAL SIGNED BY
MIKE WILLIAMS
SUPERVISOR, DISTRICT II

APPROVED BY _____ TITLE _____ DATE DEC 30 1991

CONDITIONS OF APPROVAL, IF ANY:

4. After squeeze tests, drill out cmt at 8000' and CIBP at 8035'. Run bit down to 8500' to make sure csg is clear. TOH w/tbg, DC's, and bit.

5. RU wireline. TIH w/GR-CCL and log from 8500'-7900'. TOH w/log.

6. Rig up packoff and TIH w/4" casing gun w/120 deg pasing and perforate the following Brushy Canyon interval w/2 JSPF: 8208'-8228' (41 holes). TOH w/gun. RD wireline.

7. TIH w/7-5/8" treating pkr on 2-7/8" 6.5# J-55 tbg. Test tbg in hole to 6000#. Set pkr below perfs 8208'-8228' and test CIBP @ 10,795' to 2500# surface pressure. Release pkr.

8. Circulate brine. Spot 100 gallons 10% acetic acid across perforation interval (approx. 8235'-8185'). Set pkr at 8100'.

10. Acidize perforations 8208'-8228' w/2000 gallons 15% NEFE and 60 ball sealers at an average injection rate of 5 BPM. Swab back load and check for shows.

11. Fracture stimulate perforations 8208'-8228' w/25,000 gallons 30# borate X-linked 2% KCL gel carrying 74,000# 20/40 Ottowa sand and 20,000# 20/40 curable resin coated sand at an average injection rate of 20 BPM and a average treating pressure of 2300# w/max not to exceed 6000# using the following pump schedule:

    A. 10,000 gallons pad
    B. 500 gallons w/2 ppg sand
    C. 1000 gallons w/3 ppg sand
    D. 1000 gallons w/4 ppg sand
    E. 2000 gallons w/5 ppg sand
    F. 2500 gallons w/6 ppg sand
    G. 3000 gallons w/7 ppg sand
    H. 2500 gallons w/8 ppg sand
    I. 2500 gallons w/8 ppg curable resin coated sand
    J. Flush short of top perf (approx. 51 bbls)

12. Flow/swab back.

13. Release pkr. Check for fill. TOH w/tbg and pkr.

14. TIH w/bit on tbg. Clean out any fill. TOH w/tbg and bit

15. TIH w/production equipment. Place on production.