

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

Conoco Inc.

## 3. ADDRESS OF OPERATOR

P.O. Box 460 Hobbs, N.M. 88240

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

At surface

1980' FSL &amp; 660' FEL

At proposed prod. zone

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

## 15. 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.)

3528' DF

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

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

It is proposed to recomplete subject well to the Blinbry interval as follows:

## RECOMMENDED PROCEDURE

1. Rig up. Kill well if necessary w/fresh water treated w/2% KCl and 1 gal./1000 gals. Adomall.
2. POOH w/6-5 rod string, 1 3/8" K-bars, and 2" x 1 1/4" pump and 1" x 8' dip tube, tag for fill w/2 3/8" tubing w/OPMA @ 6633'. POOH w/2 3/8" tubing, S.N., and OPMA.
3. If necessary, GIH w/3 1/2" tubing, drill collars and 6 1/8" bit, 7" casing scraper, and cleanout to PBTD (6770'). Note: Possibility that lower slip assembly to Baker Model "D" Packer will have to be knocked down to PBTD. POOH w/bit, drill collars, and tubing.
4. GIH w/RBP and 3 1/2" tubing. Set RBP @ +6200'. Spot 5' sand on RBP. Pressure test RBP to 1000 psi. Spot 378 gallons (9 bbls.) 15% HCl-NE-FE from 5882' to 5653'. Inhibit acid for 24 hours @ 95°F. POOH w/3 1/2" tubing.

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

Admin. Supervisor

DATE

11/12/79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

USGS-5  
NMFU-4  
FILE

TITLE

APPROVED

NOV 14 1979

ACTING DISTRICT ENGINEER

\*See Instructions On Reverse Side

## 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.

5. Rig up perforating service. GIH w/4" hollow carrier decentralized select fire casing gun, zero degree phase, 1 JSPF, EHD 0.44". Perforate Blinbry Formation @ 5667', 5676', 5680', 5693', 5700', 5713', 5720', 5729', 5743', 5746', 5751', 5756', 5767', 5772', 5779', 5800', 5808', 5811', 5814', 5826', 5829', 5835', 5848', 5872', 5879', 5882' (26 holes). Perforate from top to bottom of interval. Casing collars @ 5655', 5698'-, 5740'-, 5781'-, 5821', 5862'.
  6. GIH w/3 1/2" 9.3# N-80 tubing and retrievable treating packer. Set packer @ +5500'. Breakdown Blinbry Perforations @ 5667'-5882' w/5200 gallons (119 bbls.) 2% KCl water\* @ 12-13 BPM utilizing 52 - 7/8" RCN ballsealers. Release 2 ballsealers every 200 gallons (4.8 bbls.). Shut in for 15 minutes.  
 \*145 gals./ft. NEP x 36 ft. NEP = 5200 gallons or  
 200 gals./perf. x 26 perfs. = 5200 gallons.
  7. Run packer down through perforations to free ballsealers. Set packer @ +5500'. Swab Blinbry Perforations to recover acid load.
  8. Rig up fracturing service. Acid fracture Blinbry perforations from 5667' to 5882' w/the following treatment at 15 BPM through 3 1/2" tubing.  
 Maximum Surface Treating Pressure: 6000 psi  
 Anticipated Surface Treating Pressure: 5200 psi  
 A. Pump 6000 gallons (143 bbls.) gelled fluid pad (Halliburton Versagel 1400).  
 B. Pump 10,000 gallons (238 bbls.) 28% HCl NE,FE acid.\*  
 C. Pump 3,000 gallons (71 bbls.) 10 ppg gelled water.  
 D. Drop 9 - 7/8" RCN ballsealers.  
 E. Repeat Steps A-D for Stage Two.  
 F. Repeat Steps A-C for State Three.  
 G. Overflush to top perforation with tubing displacement plus 3000 gallons 2% KCl water containing 2 gals./1000 gals. FR-24.  
 Total Gelled Fluid Volume: 18,000 gals. (429 bbls.)  
 Total Acid Volume: 30,000 gals. (714 bbls.)  
 \*Inhibit Acid for 24 hours @ 105°F.
- Gelled Fluid Composition (Halliburton Versagel 1400)
1. 40 lbs./1000 gals. WC-6 in 2% KCl water
  2. 0.4 gal./1000 gals. CL-11 crosslinking agent
  3. 0.4 lbs./1000 gals. GBW-3 breaker
  4. 2.5 lbs./1000 gals. HYG-3 pH buffer
  5. 2.5 lbs./1000 gals. K-34 pH buffer
  6. 1 gal./1000 gals. "Fracflow" surfactant
- 28% HCl Composition
1. 5 gals./1000 gals. 14N
  2. FE sequesterants
  3. 2 1/2 gals./1000 gals. HAI-50 inhibitor
  4. 2 gals./1000 gals. FR-24 friction reducer
- 10 lb. Gelled Water Flushes
1. 10 lb./1000 gals. WC-6
  2. 1 gal./1000 gals. "Fracflow"
9. Record ISIP and @ 5 minute intervals for 15 minutes. SION. Swab well to test.
  10. Release packer @ +5500'. POOH w/3 1/2" tubing and packer. GIH w/tubing and S.N. Cleanout to PSTD (+6200').
  11. Run downhole pump and rod string. Place well on production.

NOV 19 1979

OIL CONSERVATION DIV.