

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

KOCH EXPLORATION COMPANY

## 3. ADDRESS OF OPERATOR

P. O. Box 2256, Wichita, KS 67201

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

At surface

1300' FNL &amp; 555' FEL

NE NE

At proposed prod. zone

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

15 miles South &amp; East of Bloomfield, FARMINGTON RESOURCE AREA

## 15. DISTANCE FROM PROPOSED\*

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

555'

## 16. NO. OF ACRES IN LEASE

N/A

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160 N/320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

480'

## 19. PROPOSED DEPTH

7050'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

GR 6255'

## 22. APPROX. DATE WORK WILL START\*

May 15, 1984

## 23.

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"  
PROPOSED CASING AND CEMENTING PROGRAM.This action is subject to administrative  
appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	10-3/4"	40.5#	200'	250 sx.
9-7/8"	7-5/8"	26.4#	2865'	350 sx lite & 150 sx Class "B"
6-3/4"	5-1/2"	15.5#	7050'	200 sx lite, 125 sx Poz "A", 125 sx Class "B"

- Set 10-3/4" 40.5# K-55 ST&C casing @ 200'. Pressure test to 1,000 PSI, cmt w/250 sx, circ. cmt. to surface. Wait on cement 24 hours.
- Drill w/native mud to 1800'. Mud up w/Gel-Benex type mud and drill through the Picture Cliff formation (2558-2865'). Set 7-5/8" 26.4# K-55 ST&C csg @ 2865'. Cement w/enough cement to cover the Ojo Alamo and Picture Cliff formations. Wait on cement 12 hours. Run temp. survey for cmt top and pressure test 7-5/8" csg to 3000 PSI before drilling out.
- A double pipe and blind ram B.O.P. will be used. B.O.P. will be checked each tower & blind rams every trip.
- Drill 6-3/4" hole w/gas to total depth. Set and cmt 5-1/2" K-55 15.5# casing from T.D. to surface. Enough cmt will be used to reach intermediate casing (2865').
- A Bond Log will be run before perforating well.
- Wellhead equipment will consist of 3000 PSI working pressure.
- Anticipated bottom hole pressure @ total depth max. 2500 PSI. No abnormal pressures anticipated.

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. 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

Orville L. Schmidt  
O. L. Schmidt

TITLE VP Prod./Operations

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS

OIL CON. DIV.  
DIST. 3

NMOCC

APPROVED 1984

AS AMENDED

JUN 12 1984

AREA MANAGER  
FARMINGTON RESOURCE AREA

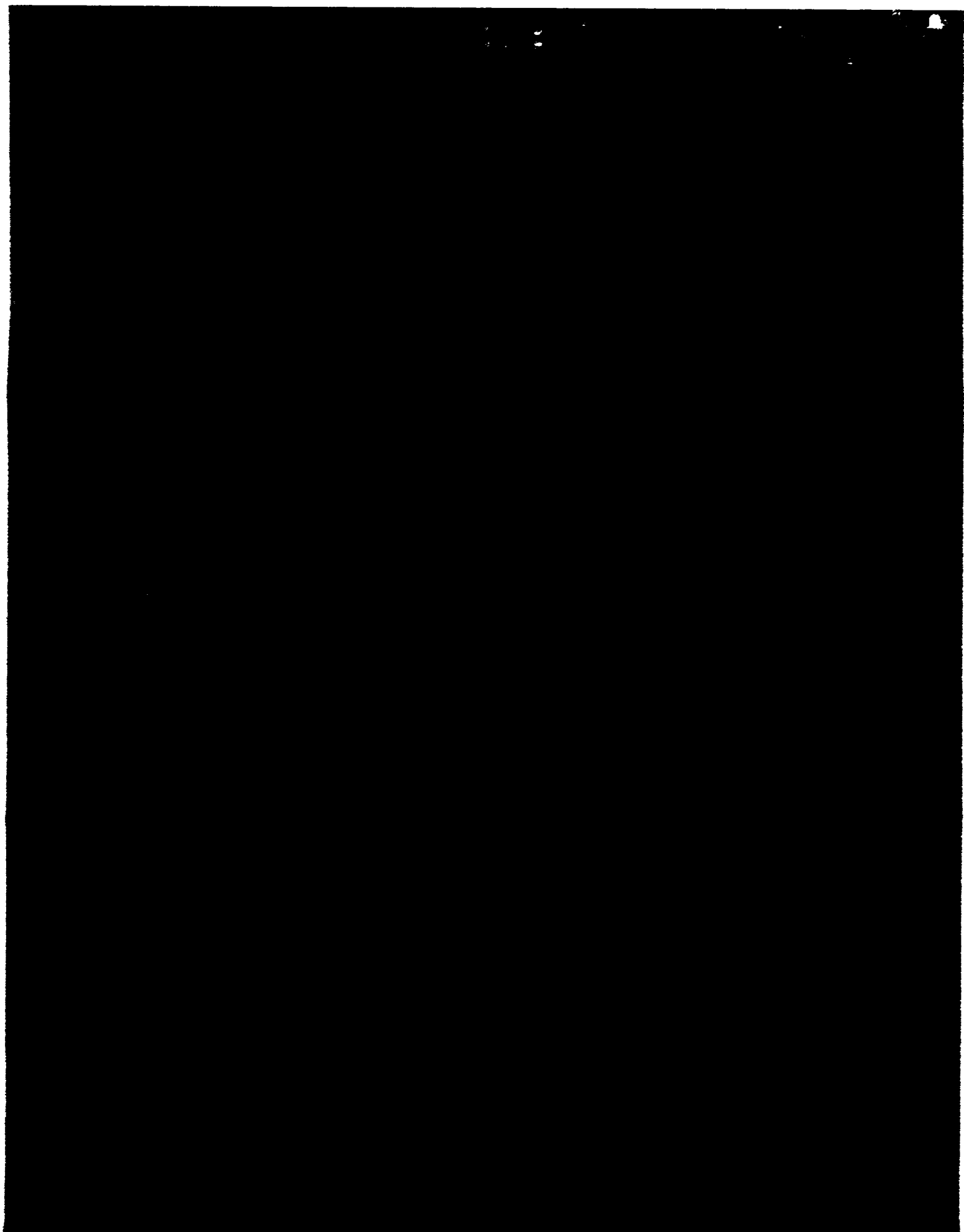


EXHIBIT "E" & "F"

DRYDEN #1-E

