

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 Industries, Inc.

3. ADDRESS OF OPERATOR

P. O. Box 2256, Wichita, Kansas 67201

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

At surface

835' FSL 1120' FW (NE/4, SW/4 SW/4)

At proposed prod. zone

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

Approx. 20 miles NE of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED*

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

835'

18. DISTANCE FROM PROPOSED LOCATION*

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

5280'

16. NO. OF ACRES OF LEASE

2264.01

320

19. PROPOSED DEPTH

8100

17. NO. OF ACRES ASSIGNED

TO THIS WELL

5/220 322.24

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

GR 6570

Sec. 26-T32N-R9W

12. COUNTY OR PARISH

San Juan

13. STATE

N. Mexico

23.

PROPOSED CASING AND CEMENTING PROGRAM

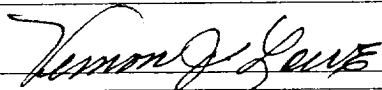
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4	10-3/4"	40.50#	200	250 sx.
8-3/4"	7"	20#	3,480	500 sx.
6-1/4"	4-1/2"	10.50#	6,100	275

1. Set new 10-3/4" 40.50# K-55 ST&C casing at 200'. Pressure test casing to 1000#. Cement with enough cement to circulate it to the surface. Wait on cement 24 hours.
2. Drill with water and native mud to approx. 1800'. Mud up with Gel-Benex type mud and drill thru the Picture Cliffs formation (3500-3700'). Set 7" 20# N-80 LT&C casing (new or tested to 5000#) at 3800'. Cement with enough cement to cover the Picture Cliffs formation. Wait on cement 24 hours. Pressure test casing and BOP's to 3000# before drilling out.
3. 8" LWP Shaeffer double pipe and blind rams BOP's will be used. Check BOP's each tour and blind rams each trip.
4. Drill 6-1/4" hole to total depth. Set and cement 4-1/2" 10.50# K-55 new casing to total depth, cement with enough cement to circulate out top of liner. Wait on cement 24 hours.
5. Well head equipment will consist of 2000#. W. P. Brewster equipment for 10-3/4" surface & 7" intermediate casing.

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 Operations Manager

DATE

August 27, 1980

(This space for Federal or State office use)

PERMIT NO.

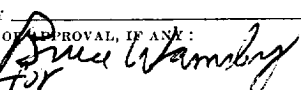
APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



uk 3 m

NMCC

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.

☆ U.S. GOVERNMENT PRINTING OFFICE : 1963-O-711-396

Continued.....

6. Mud Program will be as follows:

0-200'	Gel-lime slurry
200-1800'	Water and Benes
1800-3800'	Sel-Spersene mud
3800-TD	Drill with gas

7. Anticipated bottom hole pressure at total depth maximum of 2000#. No abnormal pressures anticipated.

8. Auxillary and BOP equipment on rig as follows:

- (A) Double ram BOP
- (B) Kelly cocks (if required)
- (C) Rotating drilling head
- (D) Kill valve on rig floor (if required)

9. Complete well be swabbing casing dry. Perforate Mesa Verde with 1 HPF and frac with gelled Kcl water and sand.

Koch Industries, Inc.			GARDNER		Well No. 5
Unit Letter M	Section 26	Township 32 NORTH	Range 9 WEST	County SAN JUAN	
Actual Wellbore Location of well:					
835 feet from the SOUTH line and		1120 feet from the WEST line			
Ground Level Elev. 6570	Producing Formation Mesa Verde	Pool Blanco	Indicated Acres: 322.24		

1. Outline the acreage dedicated to the subject well by colored pencil or hatch marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.

RECEIVED
SEP 10 1980
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

26

1120'

835'

CERTIFICATION

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

Name
Vernon J. Lowe
Position
Asst. Operations Manager
Company
Koch Industries, Inc.
Date
August 27, 1980

I hereby certify that the information contained herein was plotted from the best of my knowledge and belief.

Date Surveyed
April 30, 1980
Registered Professional Engineer
and/or Land Surveyor
James P. Leese

Certificate No.
1463

RECEIVED
SEP 24 1980
OIL CON. COM.
DIST. 3

REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR
STATE OF NEW MEXICO
NO. 1463
JAMES P. LEESE

1120 1000 900 800 700 600 500 400 300 200 100 0



Koch Industries, Inc.
Gardner #5
SW 1/4 Sec 26, T32N, R9W, N.M.P.M..
San Juan County, New Mexico