

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 ☒ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Durham, Inc.

3. ADDRESS OF OPERATOR

219 S. Colorado, Midland, TX 79701

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

At surface
660' FSL & 1980' FEL
At proposed prod. zone

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

5 miles east of Lake Arthur, NM

15. DISTANCE FROM PROPOSED

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE

520

17. NO. OF ACRES ASSIGNED

320

18. DISTANCE FROM PROPOSED LOCATION

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

19. PROPOSED DEPTH

9100' 8100'

20. ROTARY OR CABLE TOOLS

Rotary

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

3389' GR

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	12 3/4"	35#	400'	See Reverse
11"	8 5/8"	24#	1500'	
7 7/8"	5 1/2"	15.5 & 17#	8100'	

BOP Program: See Exhibit "D"

Mud Program: Interval

Surf.-400'

400'-1500'

1500'-7000'

7000'-9100'

Type Mud

Fresh water spud mud

Clear water

Clear water w/ additions

of floc. and caustic

FW w/ Drispac, starch

and gel + caustic and

paper for seepage

Weight (ppg)

8.6-8.9

8.4

8.4-8.8

8.6-9.0

Vis(sec)

34-36

28

28-34

40-45

RECEIVED

JUL 18 1979

O. C. C.
ARTESIA, OFFICE

Gas is not dedicated.

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

Les Skinner, P. E.

TITLE

Engineer

DATE

July 3, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO. _____ APPROVAL DATE _____

(This space for Federal or State office use)

SIGNED _____

TITLE _____

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back give data on present production zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measurements. If proposal is to plug back, give data on present production zone. If proposal is to plug back, give data on present production zone.

*Gas is not dedicated.

paper for seepage
and gel + cement and
FW / Drisac, at
of flow, and casing
Clear water w/ addition
Clear water
Fresh water and
Type 100

7000'-9100'
1500'-7000'
400'-1500'
200'-400'
Interval:
7000'-9100'

HCP Program: See Exhibit "D"

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-711-396
839-171

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
15"	15 3/4"	35	400'
11"	11 3/4"	30	1500'
7 3/8"	7 1/2"	25.5 c/w	9100'

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

3389' GR

PROPOSED CASING AND CEMENTING PROGRAM

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

NA

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

1000'

17. LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

1000'

16. DISTANCE EAST OF LEASE AREA, FT.

adjusted according to log caliper, if necessary.

.75% CFR-2 + 6% salt (cement volume to be

5 1/2" - 500 sx Class H 50/50 Poz + 2% gel

Cement will circulate (non location)

adjusted cement volumes on location)

maintained will run fluid caliper and

+ 1/2" /sx Floseal (if circulation fully

followed by 200 sx Class C + 2% CaCl₂

300 sx HLC + 18% salt + 1/2" /sx Floseal

8 5/8" - Cement will circulate.

PLUG BACK

12 3/4" - 450 sx Class C + 2% CaCl₂

Cementing Program:

DEPARTMENT OF THE INTERIOR UNITED STATES

Form Approved
Project Number 15-53422

Form 9-331 C
(May 1963)

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 of 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.