

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

JOHN E. SOULK

3. ADDRESS OF OPERATOR

BOX 2078, FARMINGTON, NEW MEXICO

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

At surface

1190' FR. W. LN, 1830' FR. S. LN.

At proposed prod. zone

SAFE

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)

1190'

18. DISTANCE FROM PROPOSED LOCATION*

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

3900'

16. NO. OF ACRES IN LEASE

1735.28

19. PROPOSED DEPTH

2965'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

ROTARY

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

7237 GR.

22. APPROX. DATE WORK WILL START*

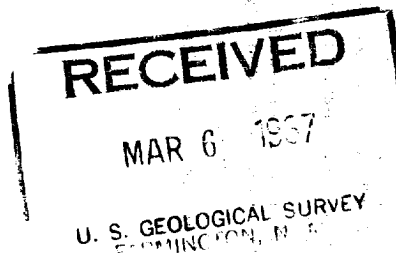
2-27-67

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4	9-5/8	36.00	100'	90 SACKS
7-7/8	4-1/2	9.5	2965'	150 SACKS

PROPOSE TO SET 4-1/2" CASING TO BASE OF PICTURED CLIFFS SAND AT
APPROXIMATELY 2965' WITH SUFFICIENT CEMENT TO COVER OLD ALAMO SAND.
WILL PERFORATE AND SAND-WATER FRAC PICTURED CLIFFS SAND. BOP WILL
BE USED.



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.

DAVE M. THOMAS, JR.

PETROLEUM GEOLOGIST

DATE 2-27-67

SIGNED

TITLE

DATE

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT

RECEIVED

MAR 6 1967

All distances must be from the outer boundaries of the Section

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

Operator JOHN E. SCHALK Lease CINCO DIABLOS
Unit Letter L Section 10 Township 23 NORTH Range 4 WEST County RIO ARriba
Actual Footage Location of Well: 1850 feet from the SOUTH line and 1190 feet from the WEST line
Ground Level Elev. 7237.0 Producing Formation PICTURED CLIFFS Pool BALLARD PC Dedicated Acreage 160 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 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 Commission.

CERTIFICATION

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

Dave M. Thomas, Jr.
Name

DAVE M. THOMAS, JR.

Position

PETROLEUM GEOLOGIST

Company

Date

FEBRUARY 27, 1967

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

February 27, 1967

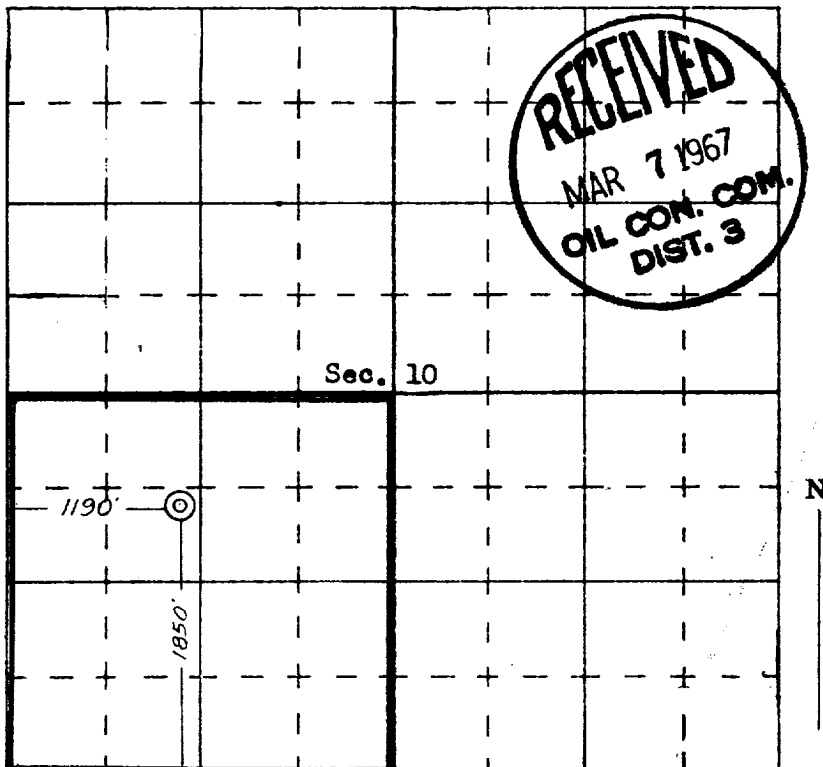
Date Survey

Registered Professional Engineer
and/or Land Surveyor

JAMES E. LESSE

1463

Certificate No.



SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

well file

ARAPAHOE DRILLING CO.

P.O. Box 2078 • FARMINGTON, NEW MEXICO 87401

JOHN E. SCHALK
MANAGING PARTNER

AREA 2 - 5000
TELEPHONE 2-1111

HOLE DEVIATION AFFIDAVIT

Operator: John E. Schalk
Well Name: Cinco Diablos #5
Description of Lease: 1190' Fr. W. Ln., 1850' Fr. S. Ln.
Section 10, Township 23 North, Range 4 West
Rio Arriba County, New Mexico

<u>From</u>	<u>To</u>	<u>Deviation</u>
-0-	102'	1/2°
102'	600'	1/2°
600'	1100'	1/2°
1100'	1550'	3/4°
1550'	2050'	3/4°
2050'	2460'	3/4°
2460'	2965' Total Depth	3/4°

I hereby swear (or affirm) that the statements made are full and correct report.

Arapahoe Drilling Co.

William H. Hallcroft
William H. Hallcroft
Office Manager

Subscribed and Sworn to Before Me This 21st Day of March

My commission expires August 12, 1968

My commission expires

Stanley C. Goble
Notary Public