

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

Consolidated Oil & Gas, Inc.

3. ADDRESS OF OPERATOR

4150 East Mexico Avenue, Denver 22, Colorado

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

890' FNL, 1840' FEL, Sec. 8, T26N, R4W

At proposed prod. zone

(Same - not directional)

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 drig. line, if any)

890'

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

800' (approx.)

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 Dakota, 160 Gallup

19. PROPOSED DEPTH

8305'

20. ROTARY OR CABLE TOOLS

Rotary

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

7173' GR, 7185' KB

22. APPROX. DATE WORK WILL START*

4/5/64

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	12-3/4"	45	300	295 cu. ft.
10-5/8"	7-5/8"	26.4	4090	230 cu. ft.
6-3/4"	5-1/2"	17 & 15.5	3990-8305'	370 cu. ft.

Mud drill 12-1/4" hole to 300', ream to 17". Set 12-3/4" casing at 300', cement to surface. Mud drill 10-5/8" hole to 4090' (est. top of Pictured Cliffs - 3890'). Set 7-5/8" intermediate casing string at 4090'. Cement with 230 cu. ft. cement. Gas drill 6-3/4" hole to TD of 8305' (est. top of Tooto - 7595', est. top of Graneros sand - 8085'). Log, set 5-1/2" liner from 3990 to 8305'. Cement with 370 cu. ft. cement. If Gallup is present, selectively perforate and sand fracture Dakota and Gallup. Complete as an approved type dual completion with two tubing strings and a packer. If Gallup is not present, will submit change of plans and complete as a single zone Dakota gas well.

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 geology and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

W. A. Williams

TITLE

Chief Engineer

DATE

4/2/64

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APR 7 1964

*See Instructions On Reverse Side

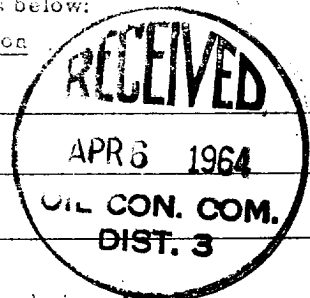
Date April 2, 1964

Operator CONSOLIDATED OIL & GAS, INC. Section NORTHWEST FEDERAL
 Well No. 4-8 Section Letter B Section No. 3 Township 26 NORTH Range 4 WEST NMPM
 Distance 550 Feet From NORTH 1916 Feet From EAST Line
 County GRANT G. L. Elevation 7122.0 Distorted Average 160 Acres
 Name of Producing Formation GALLUP Pool UNDESIGNATED

1. Is the Operator the only owner in the dedicated acreage outlined on this plat below?
 Yes X No _____
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes _____ No _____. If answer is "yes", Type of Consolidation _____
3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

Land Description



Section B.

Notes: All distances must be from outer boundaries of section.

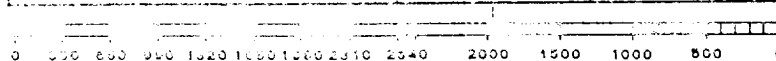
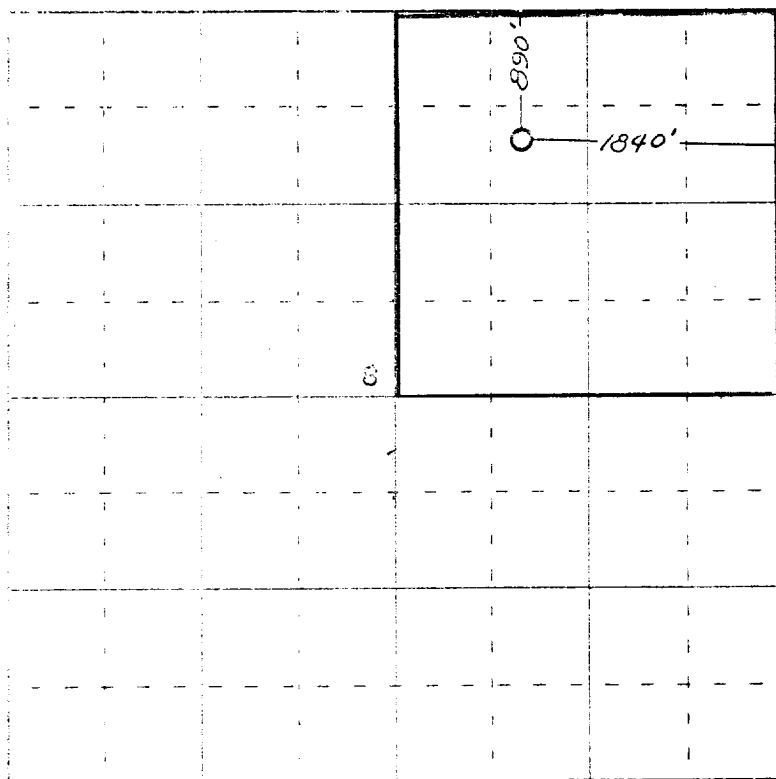
This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Consolidated Oil & Gas, Inc.

W. H. Williams
 (Signature)
 Chief Engineer

4150 East Mexico Avenue

Denver 22, Colorado



Scale 4 inches equal 1 mile

Ref: GLO plat dated Nov. 4, 1962

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed 5 March 1964

James C. Leese
 Licensed Professional Engineer and/or Land Surveyor
 James P. Leese
 New Mexico Reg. No. 1463

Date April 2, 1964

Operator CONSOLIDATED OIL & GAS, INC. Lease NORTHWEST FEDERAL
 Well No. 4-8 Unit Letter 2 Section 9 Township 26 NORTH Range 4 WEST, NMPM
 Section 890 Feet From HOME Line, 1040 Feet From EAST Line
 County BIG HORN G. L. Elevation 7172.0 Dedicated Acreage 320 Acres
 Name of Producing Formation DAKOTA Pool BASIN

1. Is the O. the only owner in the dedicated acreage outlined on this plat below?
 Yes X No _____
 2. If the answer to question one is "no", have all the owners been consolidated by communitization agreement or otherwise? Yes _____ No _____. If answer is "yes", Type of Consolidation _____

3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

Land Description

Section B.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Consolidated Oil & Gas, Inc.

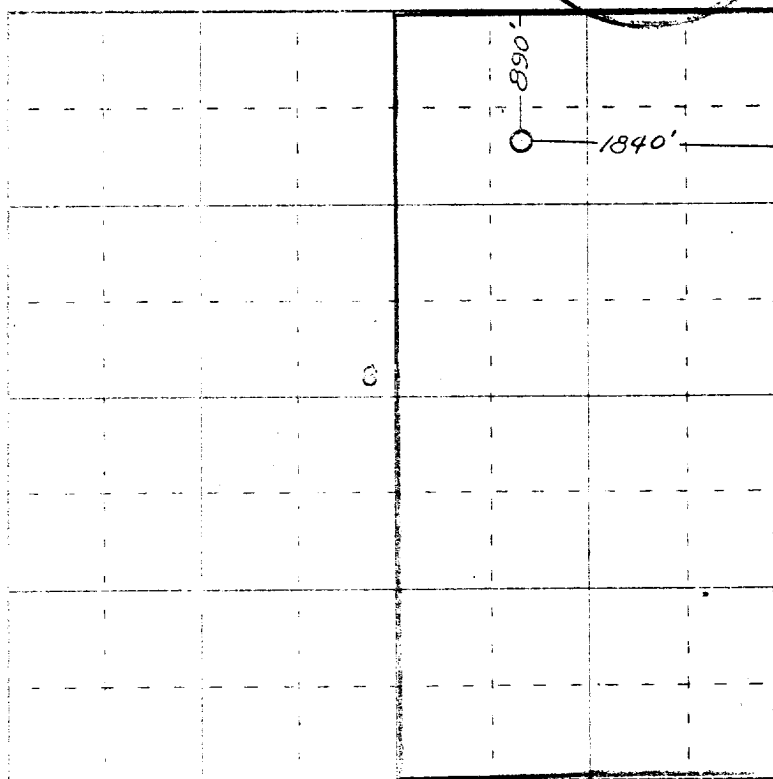
W. H. Williams

Chief Engineer

4150 East Mexico Avenue

Denver 22, Colorado

Note: All distances must be from outer boundaries of section.



0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000

Scale 4 inches equal 1 mile

Ref: GLO plat dated Nov. 4, 1882

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed 5 March 1964

James C. Lease
 Professional Engineer and/or Land Surveyor
 P. Lease
 New Mexico Reg. No. 1463