

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐		5. LEASE DESIGNATION AND SERIAL NO. Contract No. 119
2. NAME OF OPERATOR Consolidated Oil & Gas, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache
3. ADDRESS OF OPERATOR 1000 East Mexico Avenue, Denver 22, Colorado		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 895' FNL, 1850' FWL, Sec. 6, T26N, R4W At proposed prod. zone (Same - Not Directional)		8. FARM OR LEASE NAME Northwest Federal
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest gas. line, if any) 895		9. WELL NO. 3-6
16. NO. OF ACRES IN LEASE 320		10. FARM AND FARM OR WILDCAT Basin Dakota
17. NO. OF ACRES ASSIGNED TO THIS WELL 320 Dakota, 160 Gallup		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 8-26N-4W NMPM
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, 800 (Approx.) OR APPLIED FOR, ON THIS LEASE, FT.		12. COUNTY OR PARISH Rio Arriba
19. PROPOSED DEPTH 8385		13. STATE N. Mex.
20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7192' GR, 7204' KB		22. APPROX. DATE WORK WILL START* May 30, 1964

23. PROPOSED CASING AND CEMENTING PROGRAM

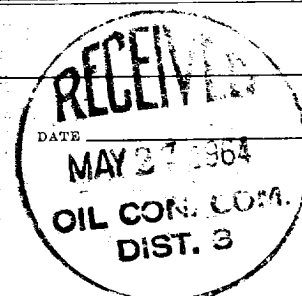
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	12-3/4"	45	300'	295 cu. ft.
10-5/8"	7-5/8"	26.4	4200'	230 cu. ft.
6-3/4"	5-1/2"	17 & 15.5	8385'	370 cu. ft.

Mud drill 12-1/4" hole to 300 ft., ream to 17". Set 12-3/4" casing at 300', cement to surface. Mud drill 10-5/8" hole to 4200' (est. top of Pictured Cliffs 3949'). Set 7-5/8" intermediate casing string at 4200'. Cement with 230 cu. ft. of cement. Gas drill 6-3/4" hole to TD of 8385' (est. top of Tocito 7670', est. top of Graneros Sand 8135'). Log, set 5-1/2" liner from 4100' to 8385'. Cement with 370 cu. ft. cement. If Gallup is present, selectively perforate and sand frac 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 locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED <u>W. H. Williams</u> TITLE <u>Chief Engineer</u> DATE <u>5/25/64</u>	
(This space for Federal or State office use)	
PERMIT NO. _____	APPROVAL DATE _____
APPROVED BY <u>W</u> TITLE _____	
CONDITIONS OF APPROVAL, IF ANY:	

*See Instructions On Reverse Side



Well Identification and Location Data

May 26, 1964

Consolidated Oil and Gas, Inc.

NORTHWEST FEDERAL

3-6 Section 6 Township 26 NORTH Range 4 WEST NMPM

895 Feet from the NORTH line, 1850 Feet from the WEST, Line

G. L. Shivers, 7192 Dedicated Acreage 160 Acres

GALLUP Field UNDESIGNATED

Is the following the only owner in the dedicated acreage shown on the plat below?

Yes ☒ No ☐

If the answer is "no", list the names of all the owners seen corroborated by your examination of the records of the County Clerk of the County of the State of New Mexico, Type of Corroboration.

If the answer is "yes", list the names and their respective interests in the

Land

Dedicated Acreage

RECEIVED

MAY 27 1964

OIL CON. COM.

DIST. 3

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

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

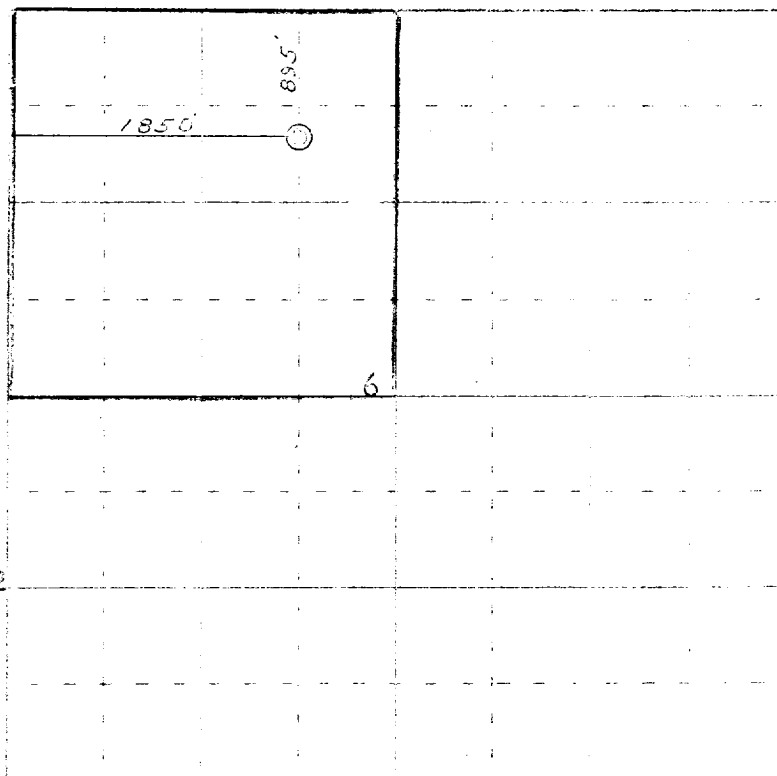
Consolidated Oil & Gas, Inc.

William S. Williams

Chief Engineer

4150 East Mexico Avenue

Denver 22, Colorado



Ref. Plat filed October 4, 1882

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

Scale 1 inch equals 1 mile

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 May 22, 1964

James O. Reese
Registered Professional Engineer and/or Land Surveyor

May 26, 1964

Consolidated Oil & Gas, Inc.

NORTHWEST FEDERAL

3-6

8

6

26 NORTH

4 WEST

RMP#

4150 East Mexico Avenue

1850

East View

ST

Line

4150

1892

Dedicated Acres

320

Acres

DAKOTA

Part

BASIN

Is the dedicated acreage outlined on the plat below?

X

Yes

If answer is "Yes", Type of Conservation? If answer is "Yes", Type of Conservation?

If answer is "Yes", Type of Conservation?

Is the plat as shown is "true", that all the owners and their respective interests based on

Owner

Land Reservation

RECEIVED

MAY 27 1964

OIL CON. COM.
DIST. 3

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

Provide the information
which will complete
the plat and below.

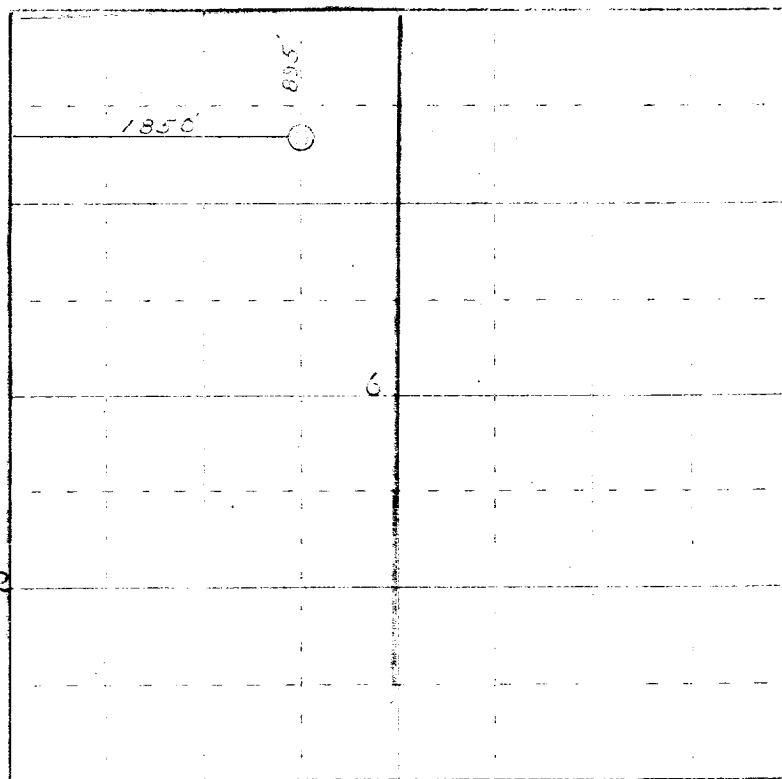
Consolidated Oil & Gas, Inc.

J. H. Williams

Chief Engineer

4150 East Mexico Avenue

Denver 22, Colorado



0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

Scale 4 inches equal 1 mile

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 May 22, 1964

James O. Loefer
Registered Professional Engineer and Professional Surveyor

OIL CONSERVATION COMMISSION
3 DISTRICT

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 8-10-64

Re: Proposed NSP _____

Proposed NWU _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

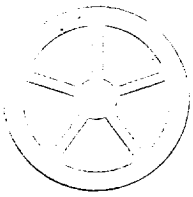
I have examined the application dated 8-5-64
for the Consolidated O&G NW Federal #3-6 C-6-20N-41N
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

approve

Yours very truly,

Emory C. Cline



Consolidated Oil & Gas, Inc.

Executive Offices

4150 EAST MEXICO AVENUE
DENVER, COLORADO 80222
PHONE: 757-5441

August 5, 1964

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

Gentlemen:

Enclosed is our Application for Dual Completion of the North-west Federal No. 3-6 well located in Section 6, Township 26 North, Range 4 West, Rio Arriba County, New Mexico. Administrative approval is requested.

Thank you for your cooperation in this matter.

Yours very truly,

CONSOLIDATED OIL & GAS, INC.

W. H. Williams, Chief Engineer

pt
Enclosures

cc: NMOGCC
Aztec, New Mexico



APPLICATION FOR DUAL COMPLETION

Field Name Basin Dakota and Undesignated Gallup		County Rio Arriba	Date August 5, 1964
Operator Consolidated Oil & Gas, Inc.		Lease Northwest Federal	Well No. 3-6
Location Unit of Well C	Section 6	Township T26N	Range R4W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐

2. If answer is yes, identify one such instance: Order No. MC-1468; Operator, Lease, and Well No.:

Consolidated Oil & Gas, Inc., Hoyt No. 1-5

3. The following facts are submitted:

	Upper Zone	Lower Zone
a. Name of reservoir	Undesignated Gallup	Basin Dakota
b. Top and Bottom of Pay Section (Perforations)	7656-7676	8126-8321
c. Type of production (Oil or Gas)	Gas	Gas
d. Method of Production (Flowing or Artificial Lift)	Flow	Flow

4. The following are attached. (Please mark YES or NO)

Yes ☐ a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.

Yes ☐ b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.

Yes ☐ c. Waivers consenting to such dual completion from each offset operator; or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*

Yes ☐ d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time an application is filed, it shall be submitted as provided by Rule 112-A.)

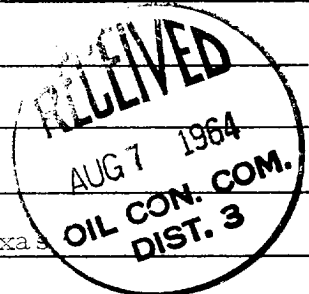
5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Northwest Production Company, P. O. Box 1796, El Paso, Texas

El Paso Natural Gas Company, P. O. Box 1492, El Paso, Texas

Southern Union Production Company, Fidelity Union Tower, Dallas, Texas

Aztec Oil & Gas Company, 920 Mercantile Securities Bldg., Dallas 1, Texas



Persons listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐ . If answer is yes, give date August 5, 1964

I, _____, being that I am the Chief Engineer of the Consolidated Oil &

and I am authorized by said company to make this report; and that this report was prepared

in accordance with the provisions of the New Mexico Oil Conservation Act and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

* Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



Consolidated Oil & Gas, Inc.

Executive Offices

4150 EAST MEXICO AVENUE
DENVER, COLORADO 80222
PHONE: 757-5441

August 5, 1964

Northwest Production Company
P. O. Box 1796
El Paso, Texas

Southern Union Production Co.
Fidelity Union Tower
Dallas, Texas

El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas

Aztec Oil & Gas Company
920 Mercantile Securities Bldg.
Dallas 1, Texas

Gentlemen:

Enclosed is a copy of our Application for Dual Completion for the Northwest Federal No. 3-6 well located in Section 6, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

If you as an offset operator have no objection to this dual completion, we would appreciate it if you would so notify the New Mexico Oil Conservation Commission. A carbon copy of your letter to the Commission, directed to the undersigned, would also be appreciated.

Thank you for your cooperation in this matter.

Yours very truly,

CONSOLIDATED OIL & GAS, INC.

W. H. Williams, Chief Engineer

pt/cr
Enclosures



R5W	R4W	R3W	
El Paso 36	El Paso 31	El Paso 32	T 27 N
Aztec - Southern Union 1	Consolidated Northwest Production 6	Consolidated Northwest Production 5	T 26 N
Aztec - Southern Union 12	Consolidated Northwest Production 7	Consolidated Northwest Production 8	

Location Plat to Accompany Application
for Dual Completion of the

NORTHWEST FEDERAL NO. 3-6

Section 6, Township 26 North, Range 4 West
Rio Arriba County, New Mexico



Diagrammatic Sketch to Accompany
Application for Dual Completion

NORTHWEST FEDERAL No. 3-6

Section 6, Township 26 North, Range 4, West
Rio Arriba County, New Mexico

12-3/4" casing set at 196'
cemented with 195 sx.
Cement circulated to surface

Top of Cement case.
at 3650'

Top of 5-1/2" liner at 4092'
Cemented with 195 sx.

7-5/8" casing set at 4154'
Cemented with 190 sx.

8-1/2" 11"D Packer
set at 8060

5-1/2" liner set at 8390'
Cemented with 290 sx.

1" tubing @ 7631'

1 1/2" tubing @ 8076'

7656'
7676' Gallup Perforations

8126'
8321' DAKOTA Perforations

T.D. = 8390
PBTD = 8351

