

NORTHWEST PRODUCTION CORPORATION

ALBUQUERQUE, NEW MEXICO

September 13, 1956

REPLY TO:
520 SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

Oil Conservation Commission
State of New Mexico
120 East Chase
Artec, New Mexico

Attention: Mr. Emory Arnold

Gentlemen:

Northwest Production Corporation requests tentative approval to complete well "W" 1-7 in the Pictured Cliffs, Mesaverde and Dakota formations.

Well "W" 1-7 is located 800' FSL and 980' FWL, Section 7, T 26 N, R 5 W, Rio Arriba County, New Mexico. The well is located within the boundaries of the South Elanco Pictured Cliffs gas pool and is classified as a wildcat for both the Mesaverde and Dakota formations.

As indicated on the attached ownership plat, owners of mineral rights to offset acreage are:

The Atlantic Refining Company, Box 2819, Dallas, Texas.

Delhi-Taylor Oil Corporation, 823 Corrigan Tower, Dallas, Texas.

Lowry Oil Company, Box 8008, Albuquerque, New Mexico.

Copy of this application has been furnished each of these operators by registered mail.

Well "W" 1-7 has been drilled to a total depth of 7623' with 7-5/8" OD casing cemented at 3294.61' and 5 1/2" OD casing cemented at 7614.96'. The 5 1/2" casing was perforated from 7432-42, 7470-80, 7504-24, 7566-76 and 7598-7607. The Dakota formation was fractured through the perforation and an open hole section from 7615-23.

Our procedure for completing the well to produce the three formations would be as follows:

1. Set a temporary bridge plug at 5340', selectively perforate the 5 1/2" casing and fracture the Mesaverde formation in two zones.

NORTHWEST PRODUCTION CORPORATION

ALBUQUERQUE, NEW MEXICO

September 13, 1954

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ALBUQUERQUE, NEW MEXICO

Oil Conservation Commission
State of New Mexico
100 West Alamo
Albuquerque, New Mexico

Attention: Mr. J. C. Smith

Dear Sir:

Northwest Production Corporation respectfully requests approval to complete Well "W" 1-1 in the Santa Fe, Mesquite and Dakota formations.

Well "W" 1-1 is located 300' N 80' E and 300' W 1/2, Section 7, T 20 N, R 2 E, S 1 E, Rio Arriba County, New Mexico. The well is located within the boundaries of the Santa Fe, Mesquite and Dakota formations. The well is classified as a wildcat.

As indicated on the attached ownership map, owners of mineral rights to offset acreage are:

The Santa Fe Petroleum Company, Box 2111, Albuquerque, New Mexico.

Calvin Taylor Oil Corporation, 643 Corbin Tower, Dallas, Texas.

Lowry Oil Company, Box 8000, Albuquerque, New Mexico.

Copy of this application has been furnished each of these operators by registered mail.

Well "W" 1-1 has been drilled to a total depth of 4623' with 7-5/8" OD casing cemented at 1575' and 5-1/2" OD casing cemented at 3614.90'. The 5-1/2" casing was perforated from 3614.90' to 3615.00'. The 7-5/8" casing was perforated from 3615.00' to 3615.10'. The formation was traversed through the perforation and an open hole section from 3615.10' to 3615.20'.

Our procedure for completing the well to produce the Santa Fe formation would be as follows:

1. Set a temporary bridge plug at 3615', selectively perforate the 5-1/2" casing and fracture the Mesquite formation in two zones.

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2. Set a temporary bridge plug at 3195', cut and recover the 5 $\frac{1}{2}$ " casing above the bridge plug. Squeeze cement the top of the 5 $\frac{1}{2}$ " liner with 100 sx regular. Pressure up and test the 5 $\frac{1}{2}$ " x 7-5/8" casing-casing annulus.
3. Perforate the 7-5/8" casing and fracture the Pictured Cliffs formation.
4. Drill out temporary bridge plugs and clean out to total depth.
5. Set Baker packer on wire line above the Dakota formation at approximately 7430'.
6. Run 2-7/8" OD EUE tubing set at approximately 7435' with anchor type packer set above the Mesaverde formation at approximately 4778'. An Otis side-door choke will be run below the anchor packer at approximately 4808'.
7. 1 $\frac{1}{4}$ " OD non-upset tubing will be run inside the 2-7/8" tubing and set in the side door choke at 4808' with a pack-off to separate the 1 $\frac{1}{4}$ " tubing from the 1 $\frac{1}{4}$ " x 2-7/8" tubing-tubing annulus, thereby allowing the Dakota formation to flow through the 1 $\frac{1}{4}$ " tubing and the Mesaverde to flow through the 1 $\frac{1}{4}$ " x 2-7/8" tubing-tubing annulus.
8. A second string of 1 $\frac{1}{2}$ " OD non-upset tubing will be run inside the 2-7/8" tubing x 7-5/8" casing annulus to a depth of approximately 3060' to produce the Pictured Cliffs formation.
9. It is planned to use a dual-string tree which is so arranged to obtain pressures on all three formations.

The completion of well "W" 1-7 in the manner outlined will permit Northwest Production Corporation to produce the three formations from one well, thereby effecting a considerable reduction in drilling costs. Tests after fracture of the Dakota formation in this well indicate that it would not be practical from an economic standpoint to produce the "W" 1-7 well from the Dakota formation only.

Yours very truly,

NORTHWEST PRODUCTION CORPORATION

FORWARDED BY
W. R. JOHNSTON

W. R. Johnston, Manager
Production Operations

WRJ:RP:ph
In triplicate
Enclosures

CC to: The Atlantic Refining Company
Delhi-Taylor Oil Corporation
Lowry Oil Company
U. S. Geological Survey - Farmington



December 13, 1950

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Oil Conservation Commission

2. Set a temporary bridge plug at 3195', and run recovery line 1 1/2" casing above the bridge plug. Squeeze cement the top of the 1 1/2" liner with 100 ex regulator. Pressure up and test the 1 1/2" x 1-5/8" casing-casing annulus.
3. Perforate the 1-5/8" casing and fracture the Pictured Cliffs formation.
4. Drill out temporary bridge plugs and clean out to total depth.
5. Set Baker packer on wire line above the Dakota formation at approximately 4301'.
6. Run 2-7/8" OD 2 1/2" tubing set at approximately 4350' with anchor packer and above the Mesaverde formation at approximately 4400'. In this side-door chase will be run below the anchor packer at approximately 4808'.
7. 1 1/2" OD non-weld casing will be run inside the 2-7/8" tubing and set in the side door chase at 4808' with a pack-off to separate the 1 1/2" tubing from the 2-7/8" tubing-casing annulus, thereby allowing the Dakota formation to flow through the 1 1/2" tubing and the Mesaverde to flow through the 1 1/2" x 2-7/8" tubing-casing annulus.
8. A second string of 1 1/2" OD non-weld tubing will be run inside the 2-7/8" tubing x 1-5/8" casing annulus to a depth of approximately 3060' to produce the Pictured Cliffs formation.
9. It is planned to use a dual-string tree which is an improvement to obtain pressures on all three formations.

The completion of well "W" 1-7 in the manner outlined will permit Northwest Production Corporation to produce the three formations from one well, thereby effecting a considerable reduction in drilling costs. Tests after fracture of the Dakota formation in this well indicate that it would not be practical from an economic standpoint to produce the "W" 1-7 well from the Dakota formation only.

Yours very truly,

NORTHWEST PRODUCTION CORPORATION

W. E. Johnson, Manager
Production Operations

W. E. Johnson, Manager
Production Operations

WEL:RP:ph
In triplicate
Enclosure
cc to: The Atlantic Refining Company
Deidt-Taylor Oil Corporation
Lundy Oil Company
U. S. Geological Survey - Washington

R 6 W		R 5 W	
Pubco	Lowry	NWP 6	NWP 2-5 5
Lowry 12 2-14-189 ☀	NWP 7 1-7 ○	NWP 8	
Lowry 13 1-c Scott ☀	Delhi & Atlantic 18	Delhi & Atlantic 17	

T
26
N

LOCATION AND OWNERSHIP PLAT FOR
"W" WELL 1-7 IN SECTION 7 OF
T 26 N AND R 5 W WITH WORKING
INTEREST RIGHTS TO BASE OF
DAKOTA FORMATION



NORTHWEST PRODUCTION CORPORATION
ALBUQUERQUE, NEW MEXICO

APPLICATION FOR TRIPLE GAS COMPLETION
OF "W" WELL 1-7 IN PICTURED CLIFFS,
MESAVERDE AND DAKOTA FORMATIONS

RIO ARriba COUNTY
NEW MEXICO

CONTRACT # 152

DRAWN: W.H. MCGAHEY
APPROVED: RAY PHILLIPS

SCALE 1" = 3000'
DATE: 9-13-56