

**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  
Artes, 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' PBL and 980' PBL, Section 7, T 26 N, R 5 W, Rio Arriba County, New Mexico. The well is located within the boundaries of the South Elmore 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 7438-42, 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

1000 West 1st Avenue

Denver, Colorado 80202

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 11-11-88 BY 1043

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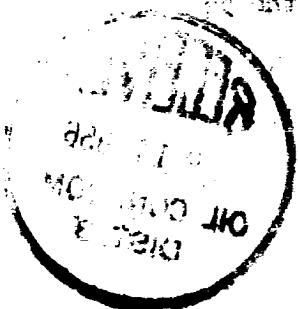
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2. Set a temporary bridge plug at 3195', cut and recover the  $5\frac{1}{2}$ " casing above the bridge plug. Squeeze cement the top of the  $5\frac{1}{2}$ " liner with 100 sx regular. Pressure up and test the  $5\frac{1}{2}$ " x  $7\frac{5}{8}$ " casing-casing annulus.
3. Perforate the  $7\frac{5}{8}$ " 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  $1\frac{1}{4}$ " OD non-upset tubing will be run inside the 2-7/8" tubing x  $7\frac{5}{8}$ " 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

ORIGINAL SIGNED 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



2. Set a temporary bridge pier at 500' and recover the 50' casing  
any above the bridge pier. Pressure around the pier of the pier  
with 100 or higher. Pressure up to 100 or higher. Pressure  
casing or pier.

3. Bridge pier - 50' casing and pressure the pier with 100 or  
higher.

4. Drill out temporary bridge pier and clean out to 100' depth.

5. Set Baker pump on pier with 100' casing and pressure at approx-  
imately 100'.

6. Run 100' on pier and set a temporary pier at 100' with casing type  
pacer and above the pier pressure at approximately 100'. In  
case a pier pier will be run below the casing pier at approx-  
imately 100'.

7. 100 non-pacer casing will be run below the pier and set  
in the pier at 100' with a casing at approximately 100'.  
The pier will be run below the pier and set in the pier at  
approximately 100'. The pier will be run below the pier and set  
in the pier at 100'.

8. Second setting of 100 non-pacer casing will be run below the  
pier and set in the pier at 100' with a casing at approximately  
100'. The pier will be run below the pier and set in the pier at  
approximately 100'.

9. It is planned to run a third casing pier which is to be set  
below the pier at 100'.

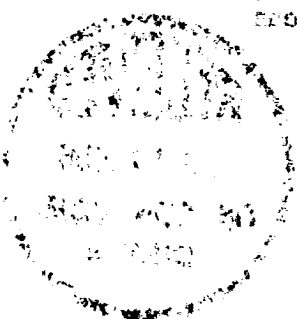
The position of well W-1 is the same as well W-2 and will be  
produced by the same casing pier. The casing pier will be set  
below the pier at 100' and will be produced by the same casing  
pier. The casing pier will be set below the pier at 100' and  
will be produced by the same casing pier. The casing pier will  
be set below the pier at 100' and will be produced by the same  
casing pier.

Very truly yours,

JOHN D. HARRIS, President

General Manager  
W. A. HARRIS

W. A. HARRIS, Secretary  
W. A. HARRIS, Treasurer

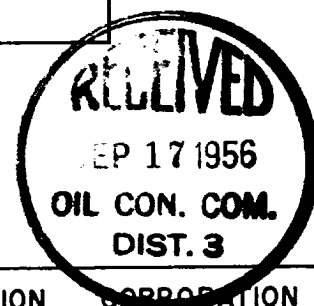


W. A. HARRIS, Secretary  
W. A. HARRIS, Treasurer  
W. A. HARRIS, General Manager  
W. A. HARRIS, President  
W. A. HARRIS, Vice President  
W. A. HARRIS, Chairman of the Board

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

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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