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 Chace Artec, New Mexico

Attention: Mr. Emory Arnold

Gentlemen:

Northwest Production Corporation requests tentative approval to complete well "V" 1-7 in the Pistured Cliffs, Mesoverde and Dahpta formations.

Well "W" 1-7 is located 800' FSL and 980' FWL, Section 7, T 26 M, R 5 W, R 10 Arriba County, New Mexico. The well is located within the boundaries of the South Mismoo Pictured Cliffs gas peol and is classified as a wildout for both the Messwerds and Bakota 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 commuted at 3294.61' and 5½" OD casing commuted at 7614.96'. The 5½" casing was perforated from 7438-42, 7470-80, 7504-84, 7566-76 and 7598-7607. The Bakota 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 fellows:

1. Set a temperary bridge plug at 5300, selectively perforate the 56" casing and fracture the Mesoverde formation in two sense.



Normalest Production Correlation

ALGERICANOLE SEN MEXICO

with her is 1950

RED CHOOL 120 PHARE JULIEN -ALCHERE HISBER MOUTE

> 1.1 Concernebles weaderfall Crade of her Genus 120 Zast Charo Liter, New Marios

There is no in the second with

: news.luan?

Fortners Froduction Corporation requests tented in contrared to not permit to not permit to not permit of the contrared of the permit of the contrared of the c

Nell W" 1-7 is locked del FS and 1904 for section 7, 7 for h, 3 for h, 2 for h, 2 for h, 3 fo

is indicated in the attached specifify plat, ommers of incornal regular to the seriosis as seriosis.

The Atlantic Principle Carps of Her Hilly, failter order

Delini-Paywor Oll Dogwetton, AP Corelys Rower, Scales, Dans.

Land to the contract of the co

Copy of this application was been furnished earn of these operators by some tones media.

Well W [-] has been unfiled to a rotal depth of Tip' with [-5/2] or casing command and help the set of the command and help the command and provided the command t

្នាន់ស្សាស្ត្រី ស្រាស់ស្ត្រី សូវមានសុខសុខសុខ សុខ គឺរីវិត្តិសុខសុខ ១៩នៃ ១៩នៃ ១៩នេះ ១៩នៃ ១៩នៃស្រស់ស្ត្រី ១៨។ ១០១៩នៃ ពី សុខសុខ

i. The observation bunder play at 1704, selectively estamate the for cashing and the for cashing and a name.



- 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. Brill 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" OB EUE tubing set at approximately 7435' with anchor type packer set above the Masswerde formation at approximately 4778'. An Otis side-door choke will be run below the anchor packer at approximately 4808'.
- 7. 1_4^{1*} CD 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_4^{1*} tubing from the 1_4^{1*} x 2-7/8" tubing-tubing annulus, thereby allowing the Dakota formation to flow through the 1_4^{1*} tubing and the Mesaverde to flow through the 1_4^{1*} x 2-7/8" tubing-tubing annulus.
- 8. A second string of $1\frac{1}{5}$ © 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.
- 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 menner 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,

MORTHURST PROPERTY OF CORPORATION

ORIGINAL SIGNED BY W. R. JOHNSTON

W. R. Johnston, Manager Production Operations

WRJ:RP:ph In triplicate Enclosures

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

- 2. Set a familiary bring ging at Sign and an account the 5g case.

 ing deeps the brings ling. Agreese remain the rep of the learn with 130 ca capain. Frenche up and the the the same obstig at the characters against the case and the first capain.
- 3. Perriament ital -5/2/ old long pantamentare the med cultip former tion.
 - .. Drill out temperary bridge place sufficiences to resel depite.
- 5. Det Beken psyner en wire iften denve die Demots der verwiche at apprendmately (300).
- 6. Res (-4) 30 OF the reserved resistant of the actual type partial resistance of special type parter set above the reserved remarkable of special distributions also denote the resistance of the solution of the special actual resistance of the solution of the special actual resistance of the solution of the special actual resistance of the solution of the special content of the solution of the special resistance of the solution of the special content of t
- .. I OD non-upset vabing mill be run in inder the 2-6 d inding and set in the district story set biod's with a call-ciff so separate the latestay from the latestay wilder towards by it, twoiry and the newton towards to towards by it, twoiry and the securities to the second by a first towards by a first towards.
 - 3. a secret abrill of 1. Of non-upack tubing will be an invide the first thermy a +f f cantry wheneve we a depth of approximately pulled to produce the rectured diluta forward.
 - 3. If is placed to use a dual-africa true which is to burraged to obtain pressures in all three formations.

The socyletron of well 's well in the sames evoluted that permit lanthwork erodection Cospication to product as product to the sires formalise the sires and the sires of the colors and contains a contain reduction to the reduction to the base of the sires of the base's formation in the colors of the base of the first of the consuction of the first the first of the first of the first of the color of the second to the se

CAR TO SEAR OF ALL

CONTRACT PRODUCTION CON-CORATION

种 经下户证 小脚排除 一个128年 年 在 第

V. .. Johnston, Korejer 2008 - Lini Oteranion

and the state of t

in stiplicana

Cor Garage

- Angle of the control of the contro

Total Dal Company

Committee the property of the contract of the



R 6 W

R 5 W

Lowry	NWP	NWP 2-5 O
	6	5
		NWO
wry	N W P	N W P
12	7	8
	1-7 O	
owry	Dethi & Atlantic	Delhi & Atlantic
13 : : :	18	17
	wry	wry NWP 1-7 O Dethi & Atlantic

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

JEP 17 1956 OIL CON. COM. DIST. 3

T

26

Ν

NORTHWEST PRODUCTION SEPPORATION 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 I" = 3000' DATE: 9-13-56