



File in well file
August 29, 1955

**APPLICATION FOR DUAL GAS COMPLETION
OF PACIFIC NORTHWEST'S INDIAN "H",
WELL NO. 1, LOCATED IN SECTION 15,
T8N-R3W, RIO ARriba COUNTY, NEW
MEXICO**

Oil and Gas Conservation Commission
State of New Mexico
P. O. Box 371
Santa Fe, New Mexico

Attention: Mr. W. B. Macey

Gentlemen:

In accordance with your request of August 8, 1955, that we furnish you a resume of all work done on Pacific Northwest's Indian "H", Well No. 1, prior to your issuing a formal order approving the dual completion, the following information is submitted:

Dual completion operations on the well between the Pictured Cliffs and Mesaverde formations were conducted in the following order:

- (1) The open hole Point Lookout section of the Mesaverde was fractured.
- (2) A bridge plug was set at 5970 and the Manefee section of the Mesaverde was perforated from 5812 to 5824 feet and from 5914 to 5968 feet and fractured.
- (3) A bridge plug was set at 5750 feet and the well was perforated from 3934 to 3935 feet and squeezed.
- (4) The well was then perforated at 3790 and cemented, with the top of the cement outside the 5½ inch casing indicated by a temperature survey at 3410 feet.
- (5) The Pictured Cliffs section was perforated from 3810 to 3920 feet and sand-oil fractured.
- (6) The well was cleaned out to total depth of 6069 feet and a Baker Model "B" production packer was set at 5780 feet with the tubing side-door chokes at 3944 feet.



August 29, 1955

APPLICATION FOR DUAL GAS COMPLETION
OF PACIFIC NORTHWEST'S INDIAN "H"
WELL NO. 1, LOCATED IN SECTION 12,
T28N-R3W, NIO ARIZONA COUNTY, NEW
MEXICO

Oil and Gas Conservation Commission
State of New Mexico
P. O. Box 271
Santa Fe, New Mexico

Attention: Mr. W. D. Hasey

Gentlemen:

In accordance with your request of August 6, 1955, that we furnish you a review of all work done on Pacific Northwest's Indian "H" Well No. 1, prior to your issuing a formal order approving the dual completion, the following information is submitted:

Dual completion operations on the well between the Pictured Cliffs and Mesaverde formations were conducted in the following order:

- (1) The open hole Point Lookout section of the Mesaverde was fractured.
- (2) A bridge plug was set at 3970 and the Mesaverde section of the Mesaverde was perforated from 3815 to 3885 feet and from 3914 to 3908 feet and fractured.
- (3) A bridge plug was set at 3750 feet and the well was perforated from 3934 to 3932 feet and fractured.
- (4) The well was then perforated at 3750 and cemented with the top of the cement outside the 37 inch casing indicated by a temperature survey at 3410 feet.
- (5) The Pictured Cliffs section was perforated from 3910 to 3908 feet and sand-oil fractured.
- (6) The well was cleaned out to total depth of 3009 feet and a Baker Model "D" production packer was set at 3750 feet with the tubing shoe-choke at 3944 feet.

August 29, 1955

The three hour open flow potential for the well on the Mesaverde tubing completion was 2042 MCF per day taken August 26, 1955, and on the Pictured Cliffs annulus completion was 415 MCF per day taken August 26, 1955. Attached for your information is a diagrammatic sketch of the dual with pertinent data as completed. Verbal approval to proceed with dual completion operations on this well was received from Mr. McGrath of the U. S. Geological Survey on August 10, 1955.

If any additional information is needed on this well before a formal order approving the dual completion can be issued, please notify us.

Yours very truly,

SPECIAL SIGNED BY
W. R. JOHNSTON

W. R. Johnston, Manager
Production Operations

LST,bh
Attachment

cc: U. S. Geological Survey
Farmington, New Mexico

Oil Conservation Commission
Albee, New Mexico

August 29, 1955

The three hour open flow potential for the well on the Mesavie side of the completion was 2045 MCF per day taken August 26, 1955, and on the Pictured Rocks side the completion was 415 MCF per day taken August 26, 1955. Attached for your information is a diagrammatic sketch of the dual with pertinent data as requested. Verbal approval to proceed with dual completion operations on this well was received from Mr. McGrath of the U. S. Geological Survey on August 10, 1955.

If any additional information is needed on this well before a formal order approving the dual completion can be issued, please notify us.

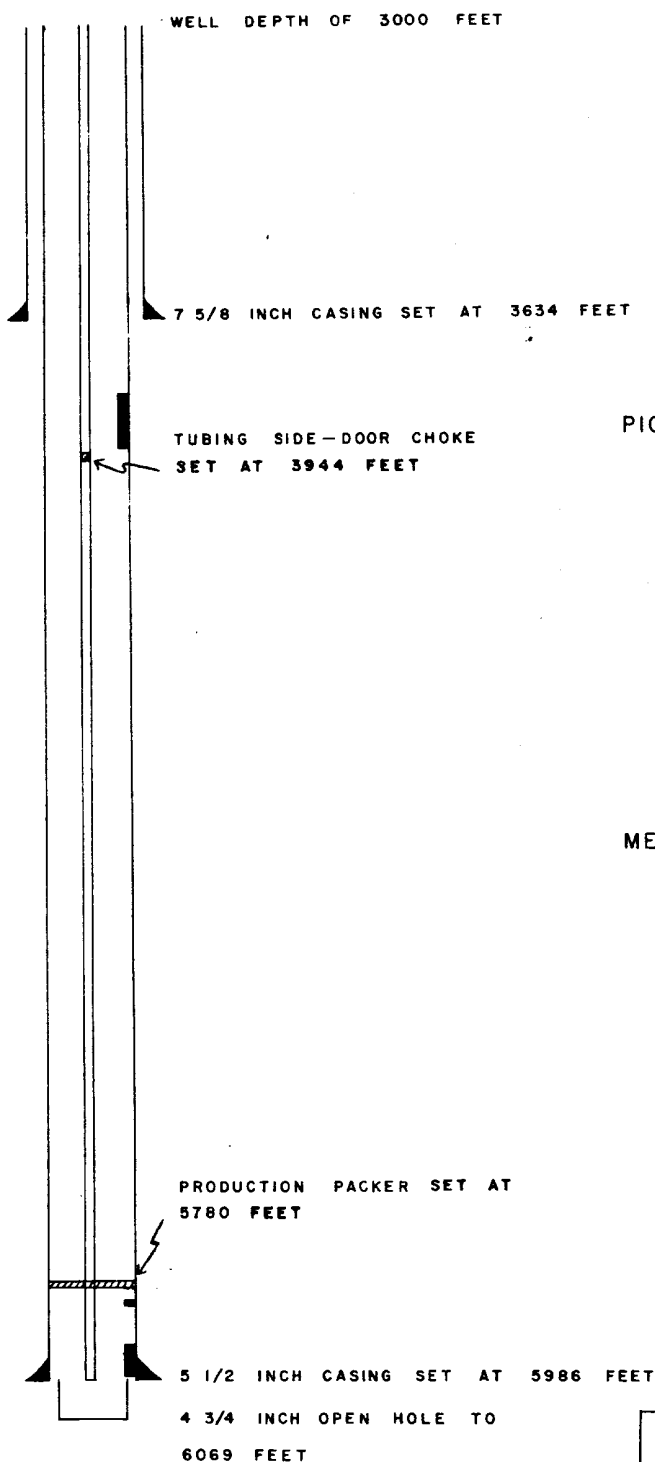
Yours very truly,
W. R. JOHNSTON
MANUAL SIGNED BY

W. R. Johnston, Manager
Production Operations

Attachment
10/10/55

U. S. Geological Survey
Washington, New Mexico

Oil Conservation Commission
Albuquerque, New Mexico



DIAGRAMATIC SKETCH OF
DUAL GAS COMPLETION FOR
INDIAN H WELL #1

PICTURED CLIFFS DATA:

TOP OF PICTURED CLIFFS 3622 FEET
BOTTOM OF PICTURED CLIFFS 3936 FEET
PERFORATIONS 3810-3920

MESAVERDE DATA:

TOP OF MESAVERDE 5700 FEET
MESAVERDE TO TOTAL DEPTH OF 6069 FEET
PERFORATIONS 5812-5824
5914-5968



PACIFIC NORTHWEST PIPELINE CORPORATION
ALBUQUERQUE, NEW MEXICO

APPLICATION FOR DUAL GAS COMPLETION
OF INDIAN H WELL #1 IN PICTURED CLIFFS
AND MESAVERDE FORMATIONS

RIO ARRIBA COUNTY
NEW MEXICO

TRIBAL # 60

Drawn: W. McGAHEY

Vertical Scale 1" = 400'

Appr. L. TRUBY

Date 8-20-55

3 - H.M.O. & G.
1 - W.R. Johnston
1 - W.G. Guttler
1 - Gerald Hollis

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL POTENTIAL TEST-DATA SHEET

FORM C-122-B

This form must be used for reporting all pitot tube tests made in the State. It is particularly important that it be used for reporting Initial Potential Tests in the San Juan Basin as prescribed by Order No. R-333 and by the New Mexico Oil Conservation Commission Manual of Tables and Procedure for Initial Potential (Pitot Tube) Tests.

POOL Wildcat FORMATION Pictured Cliffs
COUNTY Rio Arriba DATE WELL TESTED 8/26/55

Operator PACIFIC NORTHWEST Lease Indian "H" Well No. 1
Unit
1/4 Section SW Letter M Sec. 15 Twp. 28N Rge. 3W
Casing: 5-1/2 "O.D. Set At 5986 Tubing WT. Set At 7-5/8 3634
Pay Zone: From 3810 to 3990 Gas Gravity: Meas. Est. .650
Tested Through: Casing I Tubing
Test Nipple 2.067 I.D. Type of Gauge Used B20
(Spring) (Monometer)

OBSERVED DATA

Shut In Pressure: Casing 925 Tubing: S. I. Period
Time Well Opened: 10:55 A.M. Time Well Gauged: 1:55 P.M.
Impact Pressure: 11.6" B20

Volume (Table I) 398.8 (a)
Multiplier for Pipe or Casing (Table II) 1.068 (b)
Multiplier for Flowing Temp. (Table III) 60° 1.000 (c)
Multiplier for SP. Gravity (Table IV) 1.000 (d)
Ave. Barometer Pressure at Wellhead (Table V) 11.3
Multiplier for Barometric Pressure (Table VI)975 (e)
Initial Potential, Mcf/24 Hrs. (a) x (b) x (c) x (d) x (e) = 415

Witnessed by: W. B. Smith Tested by: C. R. Wagner
Company: PACIFIC NORTHWEST Company
Title: Engineer Title:

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE

No. Copies Received

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PERSONALITY

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$
 $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$