NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122-B

INITIAL POTENTIAL TEST-DATA SHEET

See Attached Sheet

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 Manuel of Tables and Procedure for Initial Potential (Pitot Tube) Tests.

POOL Wildcat FORMATION Pictured Cliff

COUNTY San Juan DATE WELL TESTED January 20, 1956

OPERATOR J. Glenn Turner LEASE Huerfanito Unit WELL NO. 33-33

¼ SECTION: 1850'N 1715'E UNIT LETTER G SEC. 33 TWP. 27N RGE. 9W

CASING: _____" O.D. SET AT _____ TUBING _____" WT. _____ SET AT _____

PAY ZONE: FROM _____ TO _____ GAS GRAVITY: MEAS. _____ EST. _____

TESTED THROUGH: CASING _____ TUBING _____

TEST NIPPLE _____ I.D. TYPE OF GAUGE USED ☐ (Spring) ☐ (Monometer)

OBSERVED DATA

SHUT IN PRESSURE: CASING _____ TUBING: _____ S. I. PERIOD _____

TIME WELL OPENED: _____ TIME WELL GAUGED: _____

IMPACT PRESSURE: _____

VOLUME (Table 1) .. .. _____ (a)

MULTIPLIER FOR PIPE OR CASING (Table II) .. .. _____ (b)

MULTIPLIER FOR FLOWING TEMP. (Table III) .. .. _____ (c)

MULTIPLIER FOR SP. GRAVITY (Table IV) .. .. _____ (d)

AVE. BAROMETER PRESSURE AT WELLHEAD (Table V) .. .. _____

MULTIPLIER FOR BAROMETRIC PRESSURE (Table VI) .. .. _____ (e)

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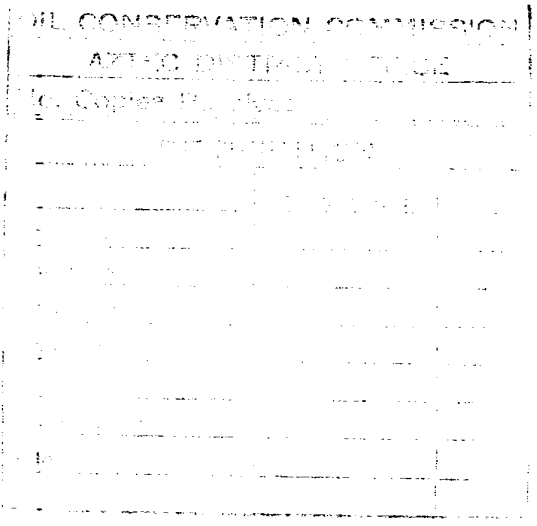
INITIAL POTENTIAL, MCF/24 Hrs. (a) x (b) x (c) x (d) x (e) = Aof = 684

WITNESSED BY: Virgil Stoabs TESTED BY: D. W. Mitchell

COMPANY: Benson Montin & Greer COMPANY: El Paso Natural Gas Company

TITLE: Engineer TITLE: Gas Engineer



Form 23-24 (Rev. 11-53)

EL PASO NATURAL GAS COMPANY
GAS WELL TEST

To	Mr. E. E. Alsup	Date:	January 20, 1956
From:	Gas Engineering	Place:	Farmington, New Mexico

Subject: Test data on the J. Glenn Turner Well, HUERFANITO UNIT NO. 33-33, San Juan County, New Mexico.

Tested by: D. W. Mitchell
Witnessed By: Virgil Stoabs

Location . . . . Sec. 33, T-27N, R-9W, 1850'N, 1715'E

Shut-In Pressure . . . . SIPC 649 psig; SIPT 649 psig; (Shut-in 10 days)

Open Flow . . . . 684, MCF/D @ 14.7 psia and 60° F. for 0.6 gravity gas. Flow through casing for 3 hours.
Working pressure on tubing 102#

Producing Formation . . . . Pictured Cliff T.D. - 2514'
Shot with quarts from to
Shot and Sand Oil Frac.

Field . . . . Wildcat

H_2S . . . . Sweet to lead acetate.

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Flow through 3/4" choke for three hours.

(See attached sheet)

L. D. Galloway

cc: D. H. Tucker
[illegible]
R. W. Harris
W. T. Hollis
[illegible]
[illegible]
[illegible]
C. O. Walker
W. M. Rodgers
Wayne Cheek
Drilling Department
[illegible]
B. D. Adams
Roland Hamblin
Jack Purvis
W. V. Holik
C. C. Kennedy
E. J. Coel, Jr.
A. J. Dudenhoeffer
File
(3) Benson-Montin

OPEN FLOW TEST DATA

Date: January 20, 1956

Operator: J. Glenn Turner — Lease: Huerfanito Unit # 33-33

Location: 1850'N, 1715'E, S33-T27N-R9W — County: San Juan — State: N.M.

Formation: Pictured Cliff — Pool: Wildcat

Casing 5½ "set @ 2447 ' Tubing 1 "set @ 2498 '

Pay Zone: 2447 ' to 2514 ' Total Depth: 2514 '

Stimulation Method: Shot and sand oil frac.

Choke Size: .750 " Choke Constant = C = 238

Flow Through: Casing X Tubing

Shut In Pressure Casing: 649 psig + 12 = 661 psia (Shut in 10 days)

Shut In Pressure Tubing: 649 psig + 12 = 661 psia

Flowing Pressure: P : 39 psig + 12 = 51 psia

Working Pressure: P_w : 102 psig + 12 = 114

Temperature: T : 54 °F + 460 = 514 °Absolute

F_{pv} (from tables) : 1.004 Gravity .650 n .85

Choke Volume = Q = $C P F_{pv} \sqrt{\frac{}{G T}}$

$Q = \frac{238 \times 51 \times 1.004}{\sqrt{65 \times 514}} = \frac{12{,}187}{18.28} = 667$ MCF/D

Open Flow = Aof = $Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$

$Aof = 667 \left[\frac{436{,}921}{423{,}925}\right]^n = (1.0307)^{.85} \times 667 = 667 \times 1.026$

Aof = 684 MCF/D

Tested by: D. W. Mitchell

Witnessed by: Virgil Stoabs

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L. D. Galloway

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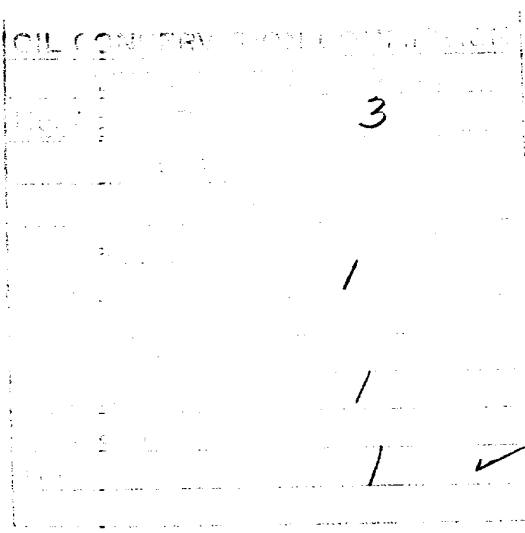
3
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