

NOTE: Flow through  
2" nipple as compared with  
flow through 3/4" choke and  
calculated open flow. See attached sheet.

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122-B

INITIAL POTENTIAL TEST-DATA SHEET

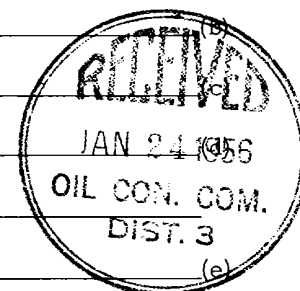
This form must be used for reporting all pitot tube tests made in the State. It is particularly important that it be used for reporting Initial Potential Tests in the San Juan Basin as prescribed by Order No. R-333 and by the New Mexico Oil Conservation Commission Manual of Tables and Procedure for Initial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

POOL Wildcat FORMATION Pictured Cliff  
COUNTY San Juan DATE WELL TESTED January 20, 1956

OPERATOR J. Glenn Turner LEASE Huerfano Unit WELL NO. 32-33  
990'N  
1/4 SECTION: 990' UNIT LETTER D SEC. 33 TWP. 27N RGE. 9W  
CASING: 5 1/2" O.D. SET AT 2296 TUBING 1" WT. 1.687 SET AT 2344  
PAY ZONE: FROM 2296 TO 2363 GAS GRAVITY: MEAS. \_\_\_\_\_ EST. \_\_\_\_\_  
TESTED THROUGH: CASING X TUBING \_\_\_\_\_  
TEST NIPPLE 2 I.D. TYPE OF GAUGE USED ☐ (Spring) ☒ (Monometer)

OBSERVED DATA

SHUT IN PRESSURE: CASING 611 psig TUBING: 610 psig S. I. PERIOD 7 days  
TIME WELL OPENED: 9:55 A.M. TIME WELL GAUGED: 12:55 P.M.  
IMPACT PRESSURE: 8.0" H<sub>2</sub>O Working pressure tubing 1 1/4"  
VOLUME (Table I) .. .. . (a)  
MULTIPLIER FOR PIPE OR CASING (Table II) .. .. .  
MULTIPLIER FOR FLOWING TEMP. (Table III) .. .. .  
MULTIPLIER FOR SP. GRAVITY (Table IV) .. .. .  
AVE. BAROMETER PRESSURE AT WELLHEAD (Table V) .. .. .  
MULTIPLIER FOR BAROMETRIC PRESSURE (Table VI) .. .. .  
INITIAL POTENTIAL, MCF/24 Hrs. (a) x (b) x (c) x (d) x (e) = 331 MCF



WITNESSED BY: Virgil Stoabs TESTED BY: D. W. Mitchell  
COMPANY: Benson-Montin & Greer COMPANY: El Paso Natural Gas Company  
TITLE: Engineer TITLE: Gas Engineer

1. CONSENT TO THE PROSECUTION  
OF THE CASE BY THE DEFENDANT  
AND HIS COUNSEL

He Consents to the Prosecution

of the Case by the Prosecution

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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  
# 32-33, San Juan County, New Mexico.

Tested by: D. W. Mitchell

Witnessed By: Virgil Stoabs

Location ..... Sec. 33, T. 27N. R. 9W., 990'N, 990'W

Shut-In Pressure ..... SIPC 611 psig  
SIPT 610 psig ; (Shut-in 7 days)Open Flow ..... 331 MCF/D @ 14.7 psia and 60° F. for 0.6  
gravity gas. Flow through casing for 3 hours.  
Working pressure on tubing 14#Producing Formation ..... Pictured Cliff T.D. - 2363'  
Shot with ..... quarts from ..... to  
Shot and sand-oil frac.

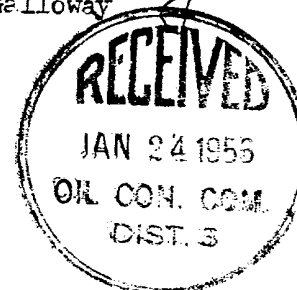
Field ..... Wildcat

H<sub>2</sub>S ..... Sweet to lead acetate.NOTE: Flow through 2" nipple, 331 MCF/D, as compared with flow through  
3/4" choke, 325 MCF/D, and calculated open flow 339 MCF/D.

See Attached Sheet

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

*L. D. Galloway*  
 L. D. Galloway



# OPEN FLOW TEST DATA

Date: January 13, 1956

Operator: J. Glenn Turner

Lease: Huerfano Unit # 32-33

Location: 990'N, 990'W, S33-T27N-R9W

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing 5 1/2 "set 2296 ' Tubing 1 "set 2344 ' ,

Pay Zone: 2296 ' to 2363 ' Total Depth: 2363 ' ,

Stimulation Method: Shot and sand-oil frac.

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

Flow Through: Casing X Tubing \_\_\_\_\_

Shut In Pressure Casing: 624 psig / 12 = 636 psia (Shut in 7 days)

Shut In Pressure Tubing: 624 psig / 12 = 636 psia

Flowing Pressure: P : 13 psig / 12 = 25 psia

Working Pressure: P<sub>w</sub> : 126 psig / 12 = 138

Temperature: T : 60 °F / 460 = 520 °Absolute

S<sub>g</sub> (from tables) : 1.004 Gravity .650 n .85

Choke Volume = 
$$= \frac{C P P_w}{G T}$$

$$= \frac{238 \times 25 \times 1.004}{.65 \times 520} = \frac{5974}{18.38} = 325 \text{ MCF/D}$$

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

$$Aof = 325 \left[ \frac{404,496}{385,452} \right]^n = 325(1.0494)^{.85} = 325 \times 1.0418$$

$$Aof = 339 \text{ MCF/D}$$

Tested by: B. W. Mitchell

Witnessed by: \_\_\_\_\_

*L. B. Galloway*  
L. B. Galloway

1. [Illegible text]

2. [Illegible text]

3. [Illegible text]

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12. [Illegible text]

13. [Illegible text]

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18. [Illegible text]

19. [Illegible text]

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21. [Illegible text]

22. [Illegible text]

23. [Illegible text]

24. [Illegible text]