

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 3-8-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Farnsworth Gas Unit "A" Well No. 1
Unit B Sec. 17 Twp. 30N Rge. 13W Pay Zone: From 6005 To 6110
Casing: OD 4-1/2 WT. 9.5 Set At 6142 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 3070
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .603 Estimated _____
Date of Flow Test: From 3-23-64 To 4-2-64 * Date S.I.P. Measured 4-20-60
Meter Run Size 4" Orifice Size 1.250 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.9) ² x sp. const. 10 _____ = 476 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 476 psia (h)
P_t = (h) + (f) _____ = 476 psia (i)
Wellhead casing shut-in pressure (Dwt) 1907 psig + 12 = 1919 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1907 psig + 12 = 1919 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1919 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 960 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{_____}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 656 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2,760,961}{3,446,208} \right]^n \cdot .3469 = \text{_____}$ MCF/day.

SUMMARY
P_c = 1919 psia
Q = 656 Mcf/day
P_w = 486 psia
P_d = 960 psia
D = 356 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Hubers
Title District Engineer
Witnessed by Byt ORIGINAL SIGNED F. W. Ford
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>4004</u>	<u>.237</u>	<u>30,641</u>	<u>9,777</u>	<u>226,576</u>	<u>236,353</u>	<u>486</u>



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