

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 5-8-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Gallegos Canyon Unit Well No. 95
Unit K Sec. 31 Twp. 20N Rge. 11W Pay Zone: From 6330 To 6440
Casing: OD 4-1/2 WT. 10.5 Set At 6397 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6313
Produced Through: Casing _____ Tubing K Gas Gravity: Measured .699 Estimated _____
Date of Flow Test: From 3-27-64 To 4-4-64 * Date S.I.P. Measured 6-13-61
Meter Run Size 4" Orifice Size 1.000 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 _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ psia (h)
P_t = (h) + (f) _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 2103 psig + 12 = 2115 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2088 psig + 12 = 2100 psia (k)
P_c = (j) or (k) whichever well flowed through _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ psia (n)

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

DELIVERABILITY CALCULATION

D = Q 352 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{3,353,061}{4,243,637} \right]^n \cdot .8382 = \text{295 MCF/da.}$

SUMMARY

P_c = 2115 psia
Q = 352 Mcf/day
P_w = 479 psia
P_d = 1030 psia
D = 295 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Roberts
Title District Engineer
Witnessed by Dys ORIGINAL SIGNED BY F. W. Foell
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>4413</u>	<u>.275</u>	<u>10.953</u>	<u>3.012</u>	<u>226,576</u>	<u>229,588</u>	<u>479</u>

