

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 Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-3-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Apache 102 Well No. 14
Unit F Sec. 9 Twp. 26N Rge. 4W Pay Zone: From 8045 To 8202
Casing: OD 4-1/2 WT. 10.5 Set At 8320 Tubing: OD 2-3/8 WT. 4.3 T. Perf. 8052
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .692 Estimated _____
Date of Flow Test: From 12-4-63 To 12-11-63 * Date S.I.P. Measured 10-23-63
Meter Run Size 4" Orifice Size 1.500 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 (7.35)² x sp. const. 10 = 540 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 546 psia (h)
P_t = (h) + (f) = 540 psia (i)
Wellhead casing shut-in pressure (Dwt) 2370 psig + 12 = 2382 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2362 psig + 12 = 2374 psia (k)
P_c = (j) or (k) whichever well flowed through = 2382 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1191 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 976 $\left[\frac{(P_c^2 - P_d^2) = \text{4,255,443}}{(P_c^2 - P_w^2) = \text{3,354,284}} \right]^n \cdot \text{.8417} = \text{821}$ MCF/da.

SUMMARY

P_c = 2382 psia
Q = 976 Mcf/day
P_w = 565 psia
P_d = 1191 psia
D = 821 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Roberts
Title District Engineer
Witnessed by By ORIGINAL SIGNED BY
Company F. W. Foell F. W. Foell

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
5572	.333	84,205	28,040	291,600	319,640	565



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