

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 Elance Mesaverde Formation Mesaverde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed July 22, 1960

Operator Pan American Petroleum Corp. Lease Snyder Gas Unit Well No. 1
Unit 6 Sec. 19 Twp. 29N Rge. 9W Pay Zone: From 3677 To 4312
Casing: OD 7-5/8 WT. 24 Set At 2267 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 4390
Produced Through: Casing _____ Tubing I Gas Gravity: Measured 0.678 Estimated _____
Date of Flow Test: From 6-21-60 To 6-23-60 * Date S.I.P. Measured 7-6-60
Meter Run Size 1" Orifice Size 1.920 Type Chart Sq. Rt. Type Taps Flange
*3-1/2" 11# liner set 2137-4399

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 496 psig + 12 = 508 psia (b)
Flowing meter pressure (Dwt) 496 psig + 12 = 508 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.10)² x spring constant 10 = 504 psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = +4 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing _____ = 0 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.10)² x sp. const. 10 = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 508 psia (h)
P_t = (h) + (f) _____ = 508 psia (i)
Wellhead casing shut-in pressure (Dwt) 762 psig + 12 = 774 psia (j)
Wellhead tubing shut-in pressure (Dwt) 752 psig + 12 = 764 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 764 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 540 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 382 psia (n)

Q = 526 (Integrated) × $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{22.52886}{22.44994} = 1.004 \right) = \underline{528} \text{ MCF/da}$

DELIVERABILITY CALCULATION

D = Q 528 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{437.772}{320.926}^n \times 2.262 = \underline{646} \text{ MCF/da.}$

SUMMARY

P_c = 764 psia
Q = 528 Mcf/day
P_w = 503 psia
P_d = 382 psia
D = 646 Mcf/day

Company Pan American Petroleum Corporation
By R. M. Bauer, Jr.
Title Area Engineer
Witnessed by _____
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
2909	0.191	24.641	4.706	250.064	262.770	523

