

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 Alamo-Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 8-23-58
Operator PAN AMERICAN PETROLEUM CORP. Lease A. L. Ellison Well No. 3
Unit D Sec. 10 Twp. 37N Rge. 9W Pay Zone: From 2130 To 2150
Casing: OD 5-1/2 WT. 14 Set At 2070 Tubing: OD 1.44 WT. 2.31 T. Perf. 2137
Produced Through: Casing 1 Tubing _____ Gas Gravity: Measured 0.671 Estimated _____
Date of Flow Test: From 7-22-58 To 7-23-58 * Date S.I.P. Measured 1-30-58
Meter Run Size 4" Orifice Size 1.3502 Type Chart S.I.P. 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 (4.15) ² x sp. const. 5 _____ = 100 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 200 psia (h)
P_t = (h) + (f) _____ = 200 psia (i)
Wellhead casing shut-in pressure (Dwt) 103 psig + 12 = 104 psia (j)
Wellhead tubing shut-in pressure (Dwt) 103 psig + 12 = 104 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 104 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 _____ = 509 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 52 psia (n)

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



DELIVERABILITY CALCULATION

D = Q 225 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$ 0.8105 = 182 MCF/day

SUMMARY

P_c = 104 psia
Q = 225 Mcf/day
P_w = 200 psia
P_d = 52 psia
D = 182 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By R. H. Bauer, Jr.
Title Field 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
		Friction loss negligible				

Furnished by pipeline company

OK