

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 Blanco-Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed January 25, 1960

Operator Pan American Petroleum Corp. Lease E. E. Elliott #8* Well No. 6
Unit F Sec. 27 Twp. 30N Rge. 9W Pay Zone: From 2572 To 2592
Casing: OD 4-1/2 WT. 9.5 Set At 2680 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2566
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.664* Estimated _____
Date of Flow Test: From 1-1-60 To 1-8-60 * Date S.I.P. Measured 11-2-59
Meter Run Size 4 Orifice Size 2.000* 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.40*) ² x sp. const. 5 = 274 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 274 psia (h)
P_t = (h) + (f) = 274 psia (i)
Wellhead casing shut-in pressure (Dwt) 1017 psig + 12 = 1029 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1017 psig + 12 = 1029 psia (k)
P_c = (j) or (k) whichever well flowed through = 1029 psia (l)
Flowing Temp. (Meter Run) 63* °F + 460 = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 515 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \text{ } \underline{1102^*} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{793,616}{903,765} \right]^n \text{ } \underline{0.833} = \underline{1160} \text{ MCF/da.}$$

SUMMARY

P_c = 1029 psia Company Pan American Petroleum Corporation
Q = 1102* Mcf/day By R. H. Bauer, Jr. RMB/Sauer, Jr.
P_w = 274 psia Title Area Engineer
P_d = 515 psia Witnessed by _____
D = 1160 Mcf/day 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

OR



