

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 Elanco-Pictured Cliffs Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed March 15, 1960
Operator Pan American Petroleum Corp. Lease Elliott Gas Unit #5 Well No. 1
Unit 0 Sec. 36 Twp. 30N Rge. 9W Pay Zone: From 2456 To 2525
Casing: OD 4-1/2 WT. 9.5 Set At 2530 Tubing: OD 2-1/4 WT. 2.3 T. Perf. 2452
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.641 Estimated _____
Date of Flow Test: From 2-8-60 To 2-16-60 * Date S.I.P. Measured 12-3-59
Meter Run Size 4" Orifice Size 1.750 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 (0.25) ² x sp. const. 5 _____ = 310* psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 310 psia (h)
P_t = (h) + (f) _____ = 310 psia (i)
Wellhead casing shut-in pressure (Dwt) 1019 psig + 12 = 1031 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1019 psig + 12 = 1031 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1031 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 515 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 2139 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{797.736}{944.625} \right]^n \frac{0.0661}{1} = \text{_____ MCF/da.}$

SUMMARY

P_c = 1031 psia
Q = 2139* Mcf/day
P_w = 314 psia
P_d = 515 psia
D = 1053 Mcf/day

Company Pan American Petroleum Corporation
By E. M. Bauer, Jr. R. W. Sauer
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
1421	0.111	27.019	2.999	115400	116999	314

*Furnished by pipeline company.

