

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 Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed November 30, 1961

Operator Pan American Petroleum Corp. Lease State Gas Unit #1 Well No. 1
Unit A Sec. 36 Twp. 30N Rge. 9W Pay Zone: From 4005 To 4950
Casing: OD 7 WT. 30 Set At 4034 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 4797
Produced Through: Casing 10/30/61 Tubing 11/7/61 Gas Gravity: Measured .679 Estimated
Date of Flow Test: From 10/30/61 To 11/7/61 * Date S.I.P. Measured 11/12/61
Meter Run Size 4-1/2" liner set 3940'-4950' Orifice Size 1.500 Type Chart Sq. R. 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 7.40 _____ psig + 12 = 94.2 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 94.2 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 94.6 psia (h)
P_t = (h) + (f) _____ = 95.2 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 709 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 709 psia (k)
P_c = (j) or (k) whichever well flowed through 70 _____ = 930 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 395 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^2 =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1909 $\left[\frac{(P_c^2 - P_d^2) 376,656}{(P_c^2 - P_w^2) 155,747} \right]^n$ 1.940 3083 = _____ MCF/da.

SUMMARY

P_c = 709 psia
Q = 1909 Mcf/day
P_w = 503 psia
P_d = 3083 psia
D = _____ Mcf/day

Pan American Petroleum Corporation
By R. H. Bauer, Jr.
Title Senior Petroleum 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
<u>1330</u>	<u>.209</u>	<u>233.304</u>	<u>46.690</u>	<u>900.304</u>	<u>946.994</u>	<u>509</u>

1961 AFTER MESAVERDE

