

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 Civilian-Pictured Cliffs Formation Pictured Cliffs County San Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 10-27-63
Operator PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Apache "A" 110 Well No. 3
Unit C Sec. 25 Twp. 26N Rge. 30 Pay Zone: From 3992 To 3992
Casing: OD 4-1/2 WT. 9.5 Set At 4151 Tubing: OD 1-1/2 WT. 2.9 T. Perf. 4000
Produced Through: Casing Tubing X Gas Gravity: Measured .609 Estimated
Date of Flow Test: From 10-1-63 To 10-9-63 * Date S.I.P. Measured 6-12-61
Meter Run Size 4" Orifice Size 1.500 Type Chart Sq. Rk. 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 (5.00)² x sp. const. 10 _____ = 130 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 130 psia (h)
P_t = (h) + (f) _____ = 130 psia (i)
Wellhead casing shut-in pressure (Dwt) 806 psig + 12 = 818 psia (j)
Wellhead tubing shut-in pressure (Dwt) 807 psig + 12 = 819 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 819 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 410 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 761 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{302,441}{579,448} \right]^n$.0062 = 676 MCF/day.

SUMMARY

P_c = 819 psia
Q = 761 Mcf/day
P_w = 302 psia
P_d = 410 psia
D = 676 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Hubert OCT 31 1963
Title District Engineer
Witnessed by By J. W. Hall OIL CON. COM.
Company F. W. Hall DIST. 3

* 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>2776</u>	<u>.183</u>	<u>156.902</u>	<u>28.713</u>	<u>62,900</u>	<u>61,513</u> 2	<u>302</u>

