

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-Navarro Formation Navarro County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-27-57

Operator PAN AMERICAN PETROLEUM CORPORATION Lease State of New Mexico Gas Right Well No. 2
Unit A Sec. 16 Twp. 28N Rge. 7E Pay Zone: From 4000 To 4000
Casing: OD 7 WT. 200 Set At 4000 Tubing: OD 2-3/8 WT. 4.7 Perf. 4974'
Produced Through: Casing 1 Tubing 2 Gas Gravity: Measured 0.670 Estimated
Date of Flow Test: From 3-9-57 To 3-26-57 * Date S.I.P. Measured 3-23-57
Meter Run Size 4" Orifice Size 2.00" Type Chart 29.22 Type Taps 7

OBSERVED DATA

Flowing casing pressure (Dwt) 300 psig + 12 = 312 psia (a)
Flowing tubing pressure (Dwt) 140 psig + 12 = 152 psia (b)
Flowing meter pressure (Dwt) 100 psig + 12 = 112 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading (6.02)² x spring constant 1000 = 361 psia (d)
Meter error (c) - (d) or (d) - (c) ± = + 3 psi (e)
Friction loss, Flowing column to meter: = 6 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 (6.75)² x sp. const. 1000 = 456 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 459 psia (h)
P_t = (h) + (f) = 465 psia (i)
Wellhead casing shut-in pressure (Dwt) 300 psig + 12 = 312 psia (j)
Wellhead tubing shut-in pressure (Dwt) 140 psig + 12 = 152 psia (k)
P_c = (j) or (k) whichever well flowed through 312 °F + 460 = 772 °Abs (l)
Flowing Temp. (Meter Run) 72 °F + 460 = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 156 psia (n)

FLOW RATE CALCULATION

Q = 1.138 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.005}{1.005} \right) = 1.144$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 1.144 $\left[\frac{(P_c^2 - P_d^2) = 226,560}{(P_c^2 - P_w^2) = 473,952} \right]^n \frac{1.007}{1.007} = 1.205$ MCF/day

SUMMARY

P_c = 312 psia
Q = 1.144 Mcf/day
P_w = 152 psia
P_d = 156 psia
D = 1.205 Mcf/day

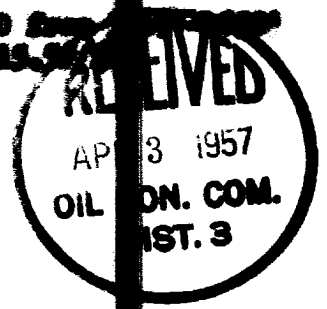
Company PAN AMERICAN PETROLEUM CORPORATION
By R. H. Bowers, Jr. R.H. Bowers, Jr.
Title Field Engineer
Witnessed by
Company

- * 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
<u>307</u>	<u>.280</u>	<u>115,000</u>	<u>26,124</u>	<u>228,009</u>	<u>254,133</u>	<u>1502</u>

* LINE: 7' to 20' from
10, 15, 20'



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