

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-Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed March 7, 1957

PAN AMERICAN PETROLEUM CORPORATION
Operator PAN AMERICAN PETROLEUM CORPORATION Lease H. H. RIDDLE Well No. 1
Unit L Sec. 26 Twp. 30N Rge. 10W Pay Zone: From 4480 To 5310
Casing: OD 7" WT. 20 Set At 4480 Tubing: OD 2-3/8" WT. 4.75 T. Perf. 5267
Produced Through: Casing I Tubing I Gas Gravity: Measured .675 Estimated
Date of Flow Test: From 2-8-57 To 2-16-57 * Date S.I.P. Measured 2-13-57
Meter Run Size 4" Orifice Size 3" Type Chart 30-50 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 486 psig + 12 = 498 psia (a)
Flowing tubing pressure (Dwt) 480 psig + 12 = 492 psia (b)
Flowing meter pressure (Dwt) 360 psig + 12 = 372 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 7.40 psig + 12 = 372 psia (d)
Square root chart reading (7.40)² x spring constant 1000 = 548 psia (d)
Meter error (c) - (d) or (d) - (c) ± = +12 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 22 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading 7.40 psig + 12 = 372 psia (g)
Square root chart average reading (7.40)² x sp. const. 1000 = 548 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) = 560 psia (h)
P_t = (h) + (f) = 612 psia (i)
Wellhead casing shut-in pressure (Dwt) 679 psig + 12 = 691 psia (j)
Wellhead tubing shut-in pressure (Dwt) 682 psig + 12 = 694 psia (k)
P_c = (j) or (k) whichever well flowed through = 694 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 = 527 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 347 psia (n)

Q = 1317 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{23.444}{23.409} = 1.001 \right)^* = 1317$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1317 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1317 \left[\frac{694^2 - 347^2}{694^2 - 406^2} \right]^n = 1000$ MCF/da.

SUMMARY

P_c = 694 psia
Q = 1317 Mcf/day
P_w = 406 psia
P_d = 347 psia
D = 1000 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By E. H. BAKER, Jr. RMB Baker, 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>3955</u>	<u>.228</u>	<u>140.387</u>	<u>31.946</u>	<u>376.944</u>	<u>411.110</u>	<u>406</u>

TEST FOR NEW ALLOWABLE
AFTER CORRECTION



*LEAK: CD 5" WT. 15.50/10.
SET AT 4300'-5310'

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