

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 Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 6-10-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Gallegos Canyon No. 142 Unit Well No. 1
Unit 0 Sec. 25 Twp. 29N Rge. 12W Pay Zone: From 5968 To 6073
Casing: OD 4.5 WT. 10.5 Set At 6181 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5990
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .684 Estimated _____
Date of Flow Test: From 4-28-64 To 5-5-64 * Date S.I.P. Measured 12-2-63
Meter Run Size 4" Orifice Size 1.500 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 (7.00)² x sp. const. 10 _____ = 499 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 499 psia (h)
P_t = (h) + (f) _____ = 499 psia (i)
Wellhead casing shut-in pressure (Dwt) 2050 psig + 12 = 2062 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2048 psig + 12 = 2060 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2062 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 1031 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\left(\frac{V(c)}{V(d)} \right)^{.5}}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{.5}} \times \text{_____} = \text{_____} \text{ MCF/day}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \frac{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.5}}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.5}} = \text{_____} \text{ MCF/day}$$

1636 3,188,883 .8516 1393

SUMMARY

P_c = 2062 psia
Q = 1636 Mcf/day
P_w = 549 psia
P_d = 1031 psia
D = 1393 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Nabors
Title District Engineer
Witnessed by E. W. Foell
Company ORIGINAL SIGNED BY
JUN 11 1964

- * 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>4097</u>	<u>.258</u>	<u>236,596</u>	<u>61,042</u>	<u>240,100</u>	<u>301,142</u>	<u>549</u>