

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 3-4-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Pan American Fed. Gas Unit Well No. 1
Unit 0 Sec. 31 Twp. 30N Rge. 1W Pay Zone: From 6508 To 6590
Casing: OD 4-1/2 WT. 18.3 Set At 6761 Tubing: OD 2-3/4 WT. 4.7 T. Perf. 6515
Produced Through: Casing Tubing 2 Gas Gravity: Measured .672 Estimated
Date of Flow Test: From 4-6-64 To 4-14-64 * Date S.I.P. Measured 9-3-62
Meter Run Size 4" Orifice Size 1.250 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 (7.25) ² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 526 psia (h)
P_t = (h) + (f) = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 2020 psig + 12 = 2032 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2023 psig + 12 = 2035 psia (k)
P_c = (j) or (k) whichever well flowed through = 2035 psia (l)
Flowing Temp. (Meter Run) °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1018 psia (n)

Q = X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} = \frac{\text{ }}{\text{ }} = \text{ } \right)^*$ = MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 872 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{3,104,901}{3,846,199}^n \cdot .8516 = 743$ MCF/da.

SUMMARY

P_c = 2035 psia
Q = 872 Mcf/day
P_w = 343 psia
P_d = 1018 psia
D = 743 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Nabors
Title District Engineer
Witnessed by By: ORIGINAL SIGNED
Company E. W. Ford

RECEIVED
MAY 8 1964
OIL CON. COM.
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
4378	.273	67,216	18,350	276,676	295,026	343

AMOCO PRODUCTION COMPANY

Unit & Sec.	Well Name & Number	Pool	Present Acreage	Acreage Change To	
F-14-30-11	San Juan	Aztec PC	160	✓155.76	✓
F-14	Federal Gas Com L #1	Basin Dakota	N 320	✓315.55	✓
0-31	✓ Pan American Fed. Gas Com B #1	Basin Dakota	E 320	✓308.50	✓