

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 3-8-64

Operator PAN AMERICAN PETROLEUM CORP. Lease Gallegos Canyon Unit-Dak. Well No. 146
Unit I Sec. 6 Twp. 27N Rge. 12W Pay Zone: From 5072 To 5096
Casing: OD 4-1/2 WT. 10.5 Set At 5070 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5037
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .656 Estimated _____
Date of Flow Test: From 3-26-64 To 4-3-64 * Date S.I.P. Measured 11-11-63
Meter Run Size 4" Orifice Size 1.750 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 (4.9) ² x sp. const. 10 _____ = 476 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 476 psia (h)
P_t = (h) + (f) _____ = 476 psia (i)
Wellhead casing shut-in pressure (Dwt) 2063 psig + 12 = 2073 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2060 psig + 12 = 2073 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2073 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1038 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/da
(integrated)

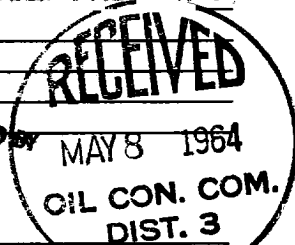
DELIVERABILITY CALCULATION

D = Q 2136 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n =$ 1825 MCF/da.
3,228,181 .8545
3,981,044

SUMMARY

P_c = 2073 psia
Q = 2136 Mcf/day
P_w = 570 psia
P_d = 1038 psia
D = 1825 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. W. Foell
Title District 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	(FcQ) ² (1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
<u>3829</u>	<u>.263</u>	<u>403,314</u>	<u>98,005</u>	<u>226,576</u>	<u>324,581</u>	<u>570</u>