

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 5-2-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Gallegos Canyon Unit-Dak. Well No. 147
Unit P Sec. 4 Twp. 27N Rge. 12W Pay Zone: From 6009 To 6076
Casing: OD 4-1/2 WT. 10.3 Set At 6149 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5960
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .663 Estimated _____
Date of Flow Test: From 3-26-64 To 4-3-64 * Date S.I.P. Measured 10-25-63
Meter Run Size 4" Orifice Size 1.250 Type Chart Eq. R2. 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 _____ = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 2020 psig + 12 = 2032 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2017 psig + 12 = 2029 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2032 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 1016 psia (n)

FLOW RATE CALCULATION

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

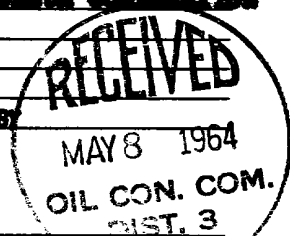
DELIVERABILITY CALCULATION

D = Q 1316 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 1118 MCF/da.
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{3,096,768}{3,830,651}$ n .8492

SUMMARY

P_c = 2032 psia
Q = 1316 Mcf/day
P_w = 528 psia
P_d = 1016 psia
D = 1118 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Mahers
Title District Engineer
Witnessed by By: ORIGINAL SIGNED BY
Company F. W. Foell



* 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>3951</u>	<u>.250</u>	<u>153,092</u>	<u>38,273</u>	<u>240,100</u>	<u>278,373</u>	<u>528</u>

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000