

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 2-2-65

Operator PAN AMERICAN PETROLEUM CORP. Lease Quilgoe Canyon Unit-Dak. Well No. 153
Unit B Sec. 28 Twp. 20N Rge. 12W Pay Zone: From 5843 To 5933
Casing: OD 4-1/2 WT. 10.5 Set At 6021 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5821
Produced Through: Casing Tubing X Gas Gravity: Measured 0.666 Estimated
Date of Flow Test: From 1-6-65 To 1-14-65 * Date S.I.P. Measured 4-17-64
Meter Run Size 4" Orifice Size 2.250 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 (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 2185 psig + 12 = 2117 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 2117 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{2933} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 2933 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{3,340,208}{4,043,052} \right]^n \text{ } 0.8701 = \text{2340} \text{ MCF/da.}$

SUMMARY

P_c = 2117 psia
Q = 2933 Mcf/day
P_w = 661 psia
P_d = 1059 psia
D = 2340 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Roberts
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
3077	0.246	770,846	189,638	247,009	436,637	661

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