

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 4-12-56
Operator Pubco Petroleum Corporation Lease Suter Well No. 4
Unit W Sec. 15 Twp. 32N Rge. 13E Pay Zone: From 5,150 To 5,511
Casing: OD 8 1/2 WT. 34 Set At 5,620 Tubing: OD 2" WT. 4.7 T. Perf. 5,433
Produced Through: Casing Tubing X Gas Gravity: Measured .600 Estimated
Date of Flow Test: From 3-17-56 To 4-21-56 * Date S.I.P. Measured 11-6-55
Meter Run Size 4" Orifice Size 1.85 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 (7.75) ² x sp. const. 19 = 601 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 601 psia (i)
Wellhead casing shut-in pressure (Dwt) 985 psig + 12 = 995 psia (j)
Wellhead tubing shut-in pressure (Dwt) 985 psig + 12 = 995 psia (k)
P_c = (j) or (k) whichever well flowed through = 995 psia (l)
Flowing Temp. (Meter Run) 77 °F + 460 = 537 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 498 psia (n)

FLOW RATE CALCULATION

Q = 850 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ 850 MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 850 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(1.289)^{.75}}{1.153 G} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ 985 MCF/da.
742021 613,750 981

SUMMARY

P_c = 995 psia
Q = 850 Mcf/day
P_w = 613 psia
P_d = 498 psia
D = 985 Mcf/day

Company Pubco Petroleum Corporation
By E. E. Maxwell, Jr.
Title Mr. Prod. Dept.
Witnessed by Don Janssen
Company Pubco Petroleum Corporation

* 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3894</u>	<u>.236</u>	<u>63,872</u>	<u>15,074</u>	<u> </u>	<u>561,201</u>	<u>576,275</u>	<u>613</u>



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