

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 Tapebito Formation Picture Cliff County Rio Arriba
Purchasing Pipeline Southern Union Gas Company Date Test Filed 4-1-57
Operator Honolulu Oil Corporation Lease Jicarilla Apache Well No. 6
Unit K Sec. 3 Twp. 26N Rge. 4W Pay Zone: From 3465 To 3725
Casing: OD 5 1/2 WT. 14 Set At 3810 Tubing: OD 2 WT. 4.7 T. Perf. Open End
Produced Through: Casing Tubing I Gas Gravity: Measured .655 Estimated
Date of Flow Test: From 2-7-57 To 2-14-57 * Date S.I.P. Measured 2-21-57
Meter Run Size 4 Orifice Size 1.250 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 590 psig + 12 = 602 psia (a)
Flowing tubing pressure (Dwt) 586 psig + 12 = 598 psia (b)
Flowing meter pressure (Dwt) 584 psig + 12 = 596 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading (7.7) ² x spring constant 10 = 597 psia (d)
Meter error (c) - (d) or (d) - (c) ± = -1 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 2 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading (7.7) ² x sp. const. 10 = 597 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 596 psia (h)
P_t = (h) + (f) = 598 psia (i)
Wellhead casing shut-in pressure (Dwt) 1049 psig + 12 = 1061 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1049 psig + 12 = 1061 psia (k)
P_c = (j) or (k) whichever well flowed through = 1061 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 530 psia (n)

FLOW RATE CALCULATION

Q = 874 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{24.41}{24.43} = .9992 \right) = \underline{873.3}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 873.3 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{844,821}{757,272} \right]^n \frac{1.0967}{1.0975} \frac{957.7}{961}$ MCF/day.

SUMMARY

P_c = 1061 psia
Q = 873.3 Mcf/day
P_w = 607 psia
P_d = 530 psia
D = 873.3 Mcf/day

Company Honolulu Oil Corporation
By JB Evans
Title Division Gas Engineer
Witnessed by Quill Ferrasi
Company Southern Union Gas Company

* This is date of completion test.

* Meter error correction factor

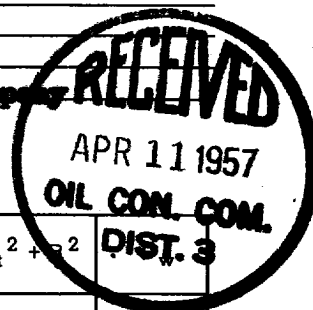
REMARKS OR FRICTION CALCULATIONS

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 + P _d ²	P _d
<u>2414.3</u>	<u>.161</u>	<u>67.40</u>	<u>10.85</u>	<u>357.60</u>	<u>368.45</u>	<u>607</u>

F_c = 9.402

F_c x Q = 9.402 x 873.3 = 8.210

OK



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