

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 Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-30-57

Operator STANOLIND OIL & GAS COMPANY Lease Houck Gas Unit Well No. 1
Unit 0 Sec. 6 Twp. 29N Rge. 7W Pay Zone: From 3706 To 4406
Casing: OD 7" WT. 20 Set At 3706 Tubing: OD 3-1/8" WT. 4.7 T. Perf. 4342
Produced Through: Casing Tubing I Gas Gravity: Measured 0.69 Estimated
Date of Flow Test: From 12-11-56 To 1-8-57 * Date S.I.P. Measured 1-15-57
Meter Run Size 4" Orifice Size 1.25 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) psig + 12 = psia (a)
Flowing tubing pressure (Dwt) 525 psig + 12 = 537 psia (b)
Flowing meter pressure (Dwt) 510 psig + 12 = 522 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading psig + 12 = psia (d)
Square root chart reading (7.1)² x spring constant 1000 = 508 psia (d)
Meter error (c) - (d) or (d) - (c) ± = 0.16 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 15 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading psig + 12 = psia (g)
Square root chart average reading (6.93)² x sp. const. 1000 = 485 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 498 psia (h)
P_t = (h) + (f) = 513 psia (i)
Wellhead casing shut-in pressure (Dwt) 936 psig + 12 = 948 psia (j)
Wellhead tubing shut-in pressure (Dwt) 827 psig + 12 = 839 psia (k)
P_c = (j) or (k) whichever well flowed through = 839 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 = 523 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 419.5 psia (n)

Q = 824 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.0177}{1.0177}} \right) = \underline{828} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 828 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{527,941}{435,522} \times \underline{1.1970} = \underline{938} MCF/da.$

SUMMARY

P_c = 839 psia
Q = 828 MCF/da
P_w = 513 psia
P_d = 419.5 psia
D = 938 MCF/da
Company STANOLIND OIL AND GAS COMPANY
By R. M. Hume, Jr. R.M.H.
Title Field 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	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>31.38</u>	<u>0.204</u>	<u>60.605</u>	<u>12.363</u>	<u>256.036</u>	<u>268.399</u>	<u>513</u>

* LINE: OD 5", WT. = 13.3
Set at 4420-3422

TIME FOR WELL AVAILABLE AFTER MEASUREMENT

OK

