

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Tapasito Formation Picture Cliffs County Rio Arriba
Purchasing Pipeline Southern Union Gas Company Date Test Filed March 26, 1957
Operator Honolulu Oil Corporation Lease Jicarilla Apache Well No. 3
Unit K Sec. 9 Twp. 26N Rge. 4W Pay Zone: From 3805 To 3835
Casing: OD 5 1/2 WT. 11 1/2 Set At 3910 Tubing: OD 2 3/8 WT. 4.70 T. Perf. Open End
Produced Through: Casing Tubing X Gas Gravity: Measured .680 Estimated -
Date of Flow Test: From 11-30-56 To 12-8-56 * Date S.I.P. Measured
Meter Run Size 4 Orifice Size 2.000 Type Chart Sq. rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 670 psig + 12 = 682 psia (a)
Flowing tubing pressure (Dwt) 630 psig + 12 = 642 psia (b)
Flowing meter pressure (Dwt) 628 psig + 12 = 640 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading psig + 12 = psia (d)
Square root chart reading (8)² x spring constant 10 = 640 psia (d)
Meter error (c) - (d) or (d) - (c) = 0 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 (8)² x sp. const. 10 = 640 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 640 psia (h)
P_t = (h) + (f) = 642 psia (i)
Wellhead casing shut-in pressure (Dwt) 1047 psig + 12 = 1059 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1047 psig + 12 = 1059 psia (k)
P_c = (j) or (k) whichever well flowed through = 1059 psia (l)
Flowing Temp. (Meter Run) 86 °F + 460 = 546 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 529.5 psia (n)

Q = 3315 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{25.3}{25.3} = 1} \right)^* = \underline{3315}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 3315 $\left[\frac{(P_c^2 - P_d^2) = \frac{841,111}{542,360}}{1.4523} \right]^n = \underline{4,810}$ MCF/day
1.4523 4814

SUMMARY

P_c = 1059 psia
Q = 3315 Mcf/day
P_w = 761 psia
P_d = 529.5 psia
D = 4,810 Mcf/day

Company Honolulu Oil Corporation
By JOB Evans
Title Division Gas Engineer
Witnessed by Paul Ferrari
Company Southern Union Gas Co.

- * This is date of completion test.
- * Meter error correction factor

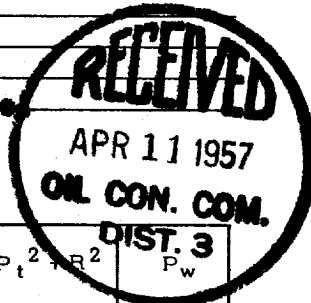
REMARKS OR FRICTION CALCULATIONS

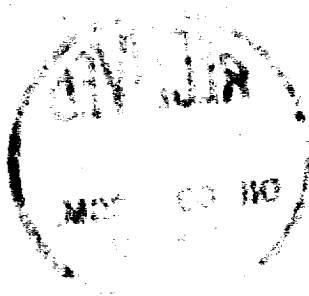
GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	DIST. 3 P _w
2597	.172	971.38	167.08	412.2	579.28	761

P_e = 9.402

P_e x Q = (2.315) (9.402) = 31.167 971.38 x .172

OK





OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>3</u>		
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	<u>1</u>	
Proration Office		
State Land Office		
U. S. G. S.	<u>1</u>	
Transporter		
File	<u>1</u>	<u>✓</u>