

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 Mesaverde County San Juan
Purchasing Pipeline Southern Union Gas Company Date Test Filed March 7, 1957
Operator Astec Oil & Gas Company Lease Culpepper-Martin Well No. 6
Unit A Sec. 33 Twp. 32-N Rge. 12-W Pay Zone: From 4774 To 4912
Casing: OD 5 1/2" WT. 15.54 Set At 5000' Tubing: OD 2 3/8" WT. 4.74 T. Perf. 4874
Produced Through: Casing ^ Tubing X Gas Gravity: Measured .710 Estimated
Date of Flow Test: From 1-31 To 2-7-57 Date S.I.P. Measured 9-8-56
Meter Run Size 4 Orifice Size Type Chart Normal Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 634 psig + 12 = 646 psia (a)
Flowing tubing pressure (Dwt) 584 psig + 12 = 596 psia (b)
Flowing meter pressure (Dwt) 582 psig + 12 = 594 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 580 psig + 12 = 592 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 578 psig + 12 = 590 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) 1032 psig + 12 = 1044 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1032 psig + 12 = 1044 psia (k)
P_c = (j) or (k) whichever well flowed through = psia (l)
Flowing Temp. (Meter Run) 86 °F + 460 = °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = psia (n)

FLOW RATE CALCULATION

Q = 1279 X $\left(\frac{\sqrt{(c)} = \underline{1.003} = \underline{1.0015}}{\sqrt{(d)} = \underline{ }} \right)^* = \underline{1281} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 1281 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1132} MCF/da.
817.452 ^{.75} 1.1177$

SUMMARY

P_c = 1044 psia
Q = 1281 Mcf/day
P_w = 621 psia
P_d = 522 psia
D = 1132 Mcf/day

Company AZTEC OIL & GAS COMPANY
By
Title Production 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
3461	0.223	145.05	32.346	352.836	385.182	621

OK



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