

Initial Deliverability
TestForm C-122-A
Revised April 20, 1955NEW 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 South Blanco Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed April 11, 1960
Operator: Petro-Atlas, Inc. Lease Bishop Well No. 2
Unit L Sec. 26 Twp. 25N Rge. 3W Pay Zone: From 3567 To 3651
Casing: OD 5 1/2" WT. 14# Set At 3683 Tubing: OD 2 3/8" WT. 4.7# T. Perf. 3551
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 3-28-60 To 4-4-60 * Date S.I.P. Measured 2-6-60
Meter Run Size 4" Orifice Size 1.500 Type Chart Sq. Root Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 502 psig + 12 = 514 psia (a)
Flowing tubing pressure (Dwt) 502 psig + 12 = 514 psia (b)
Flowing meter pressure (Dwt) 500 psig + 12 = 512 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (10.0)² x spring constant 500 = 500 psia (d)
Meter error: (c) - (d) or (d) - (c) ± = 12 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 (10.0)² x sp. const. 500 = 500 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) = 512 psia (h)
P_t = (h) + (f) = 514 psia (i)
Wellhead casing shut-in pressure (Dwt) 1009 psig + 12 = 1021 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1009 psig + 12 = 1021 psia (k)
P_c = (j) or (k) whichever well flowed through = 1021 psia (l)
Flowing Temp. (Meter Run) 46 °F + 460 = 506 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 510.5 psia (n)

Q = 390 (Integrated) X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = 22.6274 \quad \frac{1.012}{1.008}} \right) = \frac{395}{393} \text{ MCF/day}$
 $\sqrt{(d)} = 22.3607$

DELIVERABILITY CALCULATION

D = Q 395 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(1.0046)^{.85}}{1.0039} = 395 \text{ MCF/day}$
 $\frac{781,831}{778,245}$

SUMMARY

P_c = 1021 psia
Q = 393 395 Mcf/day
P_w = 514 psia
P_d = 510.5 psia
D = 395 Mcf/day

Company Petro-Atlas, Inc.
By N.B. Cove
Title 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
			Negligible			



