

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 Sp. Blanco Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Date Test Filed 3-19-57

Operator Amerada Petr. Corp. Lease Jicarilla Apache "A" Well No. 4 (C)
Unit P Sec. 26 Twp. 25N Rge. 5W Pay Zone: From 3047' To 3114'
Casing: OD 5-1/2" WT. 15.5 Set At 3989' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3057'
Produced Through: Casing x Tubing _____ Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 12-16-56 To 12-23-56 * Date S.I.P. Measured 12-30-56
Meter Run Size 4" Orifice Size 1-1/4" Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 274 psig + 12 = 286 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = 285 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.55)² x spring constant 500 = 285 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 = 1 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.55)² x sp. const. 500 = 285 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 286 psia (h)
P_t = (h) + (f) = 286 psia (i)
Wellhead casing shut-in pressure (Dwt) 567 psig + 12 = 579 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through = 579 psia (l)
Flowing Temp. (Meter Run) 55 °F + 460 = 515 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 289.5 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{535}{(\text{integrated})} \times \left(\frac{\sqrt{P_c} - \sqrt{P_d}}{\sqrt{P_c} - \sqrt{P_w}} \right)^2 = 535 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{535}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = 531 \text{ MCF/da}$$

SUMMARY

P_c = 579 psia
Q = 535 Mcf/day
P_w = 286 psia
P_d = 289.5 psia
D = 531 Mcf/day

Company Amerada Petr. Corp.
By W.G. Abbott
Title District 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
2033	0.131	.83	.12	817.96	818.08	286



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