

Initial Deliverability
Test

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 South Blanco P.G. Formation Picture Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 11-2-59

Operator Texaco, Inc. Lease New Mexico Gas Unit Well No. 1 B
Unit # D Sec. 36 Twp. 30N Rge. 10W Pay Zone: From 2508 To 2542
Casing: OD 4 1/2 WT. 9.5 Set At 2557 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 2522
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .663 Estimated _____
Date of Flow Test: From 8-7-59 To 8-14-59 * Date S.I.P. Measured 9-14-59
Meter Run Size 4" Orifice Size 1.500 Type Chart Sq. Rt. Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ 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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (4.35) ² x sp. const. 1000 _____ = 189 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) 852 psig + 12 = 864 psia (j)
Wellhead tubing shut-in pressure (Dwt) 852 psig + 12 = 864 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 864 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 432 psia (n)

$$Q = \text{(integrated)} \quad 372 \quad \times \quad \left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = 372 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \quad 372 \quad \left[\frac{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{559872}{710775}}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{.7877}{.85}} \right]^n \quad 8164 \quad = 304 \text{ MCF/da.}$$

SUMMARY

P_c = 864 psia
Q = 372 Mcf/day
P_w = 189 psia
P_d = 432 psia
D = 304 Mcf/day

Company Well Production Co.
By N.A. Neely
Title Agent
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
			None			