

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 Ballard Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease De-Ha-Mar-2a Well No. 1
Unit D Sec. 18 Twp. 26N Rge. 8W Pay Zone: From 1878 To 1913
Casing: OD 5 1/2 WT. 15.5 Set At 1980 Tubing: OD 2 WT. 4.7 T. Perf. 1876
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 670 Estimated _____
Date of Flow Test: From 2/20/57 To 2/28/57 * Date S.I.P. Measured 9/20/56
Meter Run Size _____ Orifice Size _____ Type Chart _____ 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 (6.90) ² x sp. const. 5 = 238 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 238 psia (h)
P_t = (h) + (f) = 238 psia (i)
Wellhead casing shut-in pressure (Dwt) 647 psig + 12 = 659 psia (j)
Wellhead tubing shut-in pressure (Dwt) 647 psig + 12 = 659 psia (k)
P_c = (j) or (k) whichever well flowed through = 659 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 330 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{571 MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 571 } \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{383,381}{377,637} \cdot \frac{.8616}{.8811} = \text{503 MCF/da.}$$

SUMMARY

P_c = 659 psia
Q = 571 Mcf/day
P_w = 238 psia
P_d = 330 psia
D = 503 Mcf/day

Company El Paso Natural Gas Company
By Tom Grant
Title _____
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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
			Negligible			

D @ 250 = 556



