

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Phillips Well No. 1
Unit M Sec. 32 Twp. 28 Rge. 8 Pay Zone: From 4860 To 5021
Casing: OD 5 1/2 WT. 15.5 Set At 5087 Tubing: OD 2 WT. 4.7 T. Perf. 4969
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .720 Estimated _____
Date of Flow Test: From 4/23 To 5/1/57 * Date S.I.P. Measured 10/26/56 (10 days)
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 _____ = 409 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (5.40) ² x sp. const. 10 _____ = 292 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 292 psia (h)
P_t = (h) + (f) _____ = 701 psia (i)
Wellhead casing shut-in pressure (Dwt) 1035 psig + 12 = 1047 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1037 psig + 12 = 1049 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1049 psia (l)
Flowing Temp. (Meter Run) 49 °F + 460 _____ = 509 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 525 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{1514}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 1514 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{2017}$ MCF/da.
824,776 1.4660
562,597 1.3325

SUMMARY

P_c = 1049 psia Company El Paso Natural Gas Company
Q = 1514 Mcf/day By Original Signed
P_w = 733 psia Title Lewis D. Galloway
P_d = 525 psia Witnessed by _____
D = 2017 Mcf/day Company _____

* This is date of completion test.
* Meter error correction factor

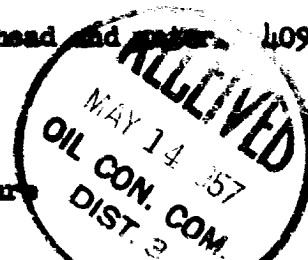
REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column l)	P _t ² + R ²	P _w
3578	.229	202.635	46,403	491,401	537,804	733

* - Pressure regulator in line between wellhead and meter. 409 psi
actual drop in 1957 annual test.

D @ 500 = 1924

NOTE: D 500 calculated using line "1" as line pressure



OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		3
DISTRIBUTION		
	NO. FURNISHED	
Director		
Asst. Dir.	1	
Production Office		
Geological Office		
Oil Co. S.	1	
Transporter		
File	1	✓