

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 Astos Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Ludwick Well No. 14 (P)
Unit H Sec. 6 Twp. 29N Rge. 10W Pay Zone: From 2243 To 2282
Casing: OD 5 1/2 WT. 15.5 Set At 4800 Tubing: OD 2 WT. 4.7 T. Perf. 4643
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 2/8 To 2/17/57 * Date S.I.P. Measured 12/5/56
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 (7.15) ² x sp. const. 5 _____ = 256 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 256 psia (h)
P_t = (h) + (f) _____ = 256 psia (i)
Wellhead casing shut-in pressure (Dwt) 612 psig + 12 = 624 psia (j)
Wellhead tubing shut-in pressure (Dwt) 621 psig + 12 = 633 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 624 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 _____ = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 312 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{536}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 536 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{491}$ MCF/da.
 $\left[\frac{292,032}{323,840} \right]^n$ $\frac{.9017}{.9159}$

SUMMARY

P _c =	<u>624</u>	psia	Company	<u>El Paso Natural Gas Company</u>
Q =	<u>536</u>	Mcf/day	By	<u>Original Signed</u>
P _w =	<u>256</u>	psia	Title	<u>Lewis D. Galloway</u>
P _d =	<u>312</u>	psia	Witnessed by	_____
D =	<u>491</u>	Mcf/day	Company	_____

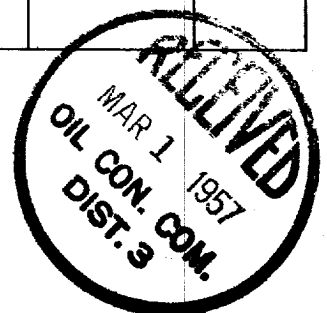
* This is date of completion test.
* Meter error correction factor

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 i)	P _t ² + R ²	P _w
			FRICTION NEGLIGIBLE			

D @ 250 = 532

OK



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