Initial Deliverability Test

Form C-122-A
Revised April 20, 1955

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 Fulcher Kuts Formation Pictured Cliffs County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease Turner State Well No. 9-16

Unit D Sec. 16 Twp. 27N Rge. 9W Pay Zone: From 2296 To 2336

Casing: OD 5½ WT. 14 Set At 2420 Tubing: OD 1 WT. 1.68 T. Perf. 2319

Produced Through: Casing X Tubing Gas Gravity: Measured .645 Estimated

Date of Flow Test: From 3/8/57 To 3/17/57 * Date S.I.P. Measured 11/7/56

Meter Run Size Orifice Size 1.000 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 (7.85) ^{2} x sp. const. 500	=	308	psia	(g)
Corrected seven day avge. meter press. (P_f) (g) + (e)	=	308	psia	(h)
P_t = (h) + (f)	=	308	psia	(i)
Wellhead casing shut-in pressure (Dwt) 613	psig + 12 =	625	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 613	psig + 12 =	625	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	625	psia	(l)
Flowing Temp. (Meter Run) 52 °F + 460	=	512	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	313	psia	(n)

FLOW RATE CALCULATION

Q = (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^*$ = 245 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{292,656}{295,761} \right]^n$ .9895 / .9911 = 243 MCF/da.

SUMMARY

P_c =	625	psia
Q =	245	Mcf/day
P_w =	308	psia
P_d =	313	psia
D =	243	Mcf/day

Company El Paso Natural Gas Company
By
Title
Witnessed by
Company

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DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
			FRICTION NEGLIGIBLE			

D @ 250 = 263

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