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 Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease Storey Well No. 4-B

Unit I Sec. 11 Twp. 30N Rge. 11W Pay Zone: From 4592 To 4664

Casing: OD 5½ WT. 15.5 Set At 4769 Tubing: OD 2 WT. 4.7 T. Perf. 4629

Produced Through: Casing Tubing I Gas Gravity: Measured .685 Estimated

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

Meter Run Size Orifice Size 1.500 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 (7.35) ^{2} x sp. const. 1000	= 540	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 540	psia	(h)
P_t = (h) + (f)	= 540	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1058	psig + 12 = 1070	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1055	psig + 12 = 1067	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1067	psia	(l)
Flowing Temp. (Meter Run) 71 °F + 460	= 531	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 534	psia	(n)

FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad}\right)^{*}$ = 1193 MCF/da

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{853,333}{820,970}\right]^{n}$ $\frac{1.0394}{1.0694}$ = 1228 MCF/da.

SUMMARY

P_c =	1067	psia
Q =	1193	Mcf/day
P_w =	563	psia
P_d =	534	psia
D =	1228	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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
3171	.806	185.821	25,919	291,600	317,519	563

D = 500 = 1224

OK

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