

NOTES OFFICE COO

Form C-122

MULTI-POINT TEST FOR GAS WELLS

Revised 12-1-55

Pool Eumont Formation Queen County LeaInitial I Annual _____ Special _____ Date of Test 9-21-56Company The Texas Company Lease State "H" Aggies Well No. 24Unit I Sec. 31 Twp. 20-S Rge. 37-E Purchaser Permian Basin Pipe Line Co.Casing 5 1/2 Wt. 14 I.D. 5.012 Set at 3300 Perf. _____ To _____Tubing 2 3/8 Wt. 4.70 I.D. 1.995 Set at 3498 Perf. 3491 To 3494Gas Pay: From 3300 To 3500 L 3491 xG .665 -GL _____ Bar.Press. _____Producing Thru: Casing _____ Tubing I Type Well SingleDate of Completion: 12-23-55 Packer _____ Single-Bradenhead-G. G. or G.O. Dual _____ Reservoir Temp. _____ $CO_2 = 2.08\%$ $N_2 = 1.81\%$

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Pipe

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(<u>Prover</u>) (Line) Size	(<u>Choke</u>) (Orifice) Size	Press. psig	Diff. h_w	Temp. $^{\circ}F.$	Press. psig	Temp. $^{\circ}F.$	Press. psig	Temp. $^{\circ}F.$	
SI										
1.	4	2.00	474.8	7.8	83	963.5		961.6		67 3/4
2.	4	2.00	470.9	17.4	61	879.1		901.7		24
3.	4	2.00	474.3	29.8	63	801.8		863.0		24
4.	4	2.00	487.7	41.8	65	709.1		822.5		24
5.						604.5		783.5		24

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wof}}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	29.92	61.69	488.0	.9786	.9498	1.039	1,782
2.	29.92	91.78	484.1	.9990	.9498	1.046	2,725
3.	29.92	120.5	487.5	.9971	.9498	1.046	3,571
4.	29.92	144.7	500.9	.9952	.9498	1.045	4,277
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl
Gravity of Liquid Hydrocarbons _____ $deg.$
 F_c _____ ($1-e^{-S}$)

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 976.7 P_c^2 953.9

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(P_c Q)^2$ ($1-e^{-S}$)	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	914.9					837.0	116.9		.94
2.	876.2					767.7	186.2		.90
3.	835.7					698.4	255.5		.86
4.	796.7					634.7	319.2		.82
5.									

Absolute Potential: 11,200 MCFPI; n .88

COMPANY THE TEXAS COMPANY
ADDRESS BOX 1270, MIDLAND, TEXAS
AGENT and TITLE L. I. BAKER, DISTRICT GAS MAN
WITNESSED WAYNE BROWN
COMPANY PERMIAN BASIN PIPE LINE COMPANY

REMARKS

This is a retest.

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressibility factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .