

NEW MEXICO OIL CONSERVATION COMMISSION

NORMS OFFICE OCC Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

1960 MAR 14 PM 2:50

Pool Jalnet Formation Yates County LeaInitial _____ Annual _____ Special I Date of Test March 4-11, 1960Company A.R. Eppenauer Lease F.S.B. Stuart Well No. 2Unit C Sec. 22 Twp. 25S Rge. 37E Purchaser EPNGCasing 5-1/2 Wt. 15.5 I.D. 4.976 Set at 3399 Perf. 2790 To 2960Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3397 Perf. _____ To _____Gas Pay: From 2790 To 2960 L 3397 xG .653 -GL 2218 Bar.Press. 13.2Producing Thru: Casing _____ Tubing I Type Well Single

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						435.0		438.0		72
1.	4	1.25	230.0	6.76	137	418.0		420.0		24
2.	4	1.25	177.0	12.60	77	410.0		413.0		24
3.	4	1.25	215.0	31.36	72	375.0		385.0		24
4.	4	1.25	222.0	60.06	64	331.0		358.0		24
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	9.643	40.55	243.2	.9333	.9585	1.016	355
2.	9.643	48.95	190.2	.9840	.9585	1.016	452
3.	9.643	84.59	228.2	.9887	.9585	1.021	789
4.	9.643	118.85	235.2	.9962	.9585	1.023	1119
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c Measured (1-e^{-s})Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 451.2 P_c² 203.6

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w / P _c
1.	433.2					187.7	15.9		.96
2.	426.2					181.6	22.0		.94
3.	398.2					158.6	45.0		.88
4.	371.2					137.8	65.8		.82
5.									

Absolute Potential: 2550 MCFPD; n .777COMPANY A.R. EppenauerADDRESS Box 278 Maria, TexasAGENT and TITLE H. J. Smith Independent Gas TesterWITNESSED Dale SouthernCOMPANY EPNG

	Rate	Max.	Min.	REMARKS
Diff. Fluc.	1	18	7	
	2	25	12	
	3	55	41	
	4	69	60	

Line pressure fluctuated.

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} = Supercompressability 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 .

A.R. Eppenauer
 F.S.B. Stuart No. 2
 Unit C Sec.22-25S-37E
 Jalmat Gas Pool
 March 4-11,1960

Absolute Potential 2550 MCF

