

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wilcoat Formation Queen County LeaInitial I Annual _____ Special _____ Date of Test 9/30 - 10/4/62Company Paul De Cleve Lease Tidewater State Well No. 1Unit D Sec. 17 Twp. 16 S Rge. 32 E Purchaser NoneCasing 7 Wt. 20 I.D. 6.456 Set at 3365 Perf. 3382 To 3392Tubing 2 Wt. 4.70 I.D. 1.995 Set at 3395 Perf. open end To _____Gas Pay: From 3382 To 3392 L 3395 xG .840 -GL 2852 Bar.Press. 13.2Producing Thru: Casing _____ Tubing I Type Well Single

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

Date of Completion: Sept. 24, 1962 Packer None Reservoir Temp. _____*Liner 5 1/2" 14# 3334-3421

OBSERVED DATA

Tested Through (Prover) (~~Choke~~) (~~Manometer~~) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Prover) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						950		976		72.0
1.	2	.3125	871		70	871		926		1.5
2.	2	.3750	804		71	804		900		1.5
3.	2	.5000	633		72	633		845		1.5
4.	2	.6250	493		66	493		804		1.5
5.	2	.2500	903		69	903		940		20.0

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.	2.1577		884.2	.9905	.8452	1.148	1834
2.	3.0691		817.2	.9896	.8452	1.134	2379
3.	5.5233		646.2	.9887	.8452	1.101	3284
4.	8.3555		506.2	.9943	.8452	1.094	3889
5.	1.4030		916.2	.9915	.8452	1.161	1251

PRESSURE CALCULATIONS

Dry Gas

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons None deg.P_c Measured (1-e^{-s}) _____Specific Gravity Separator Gas .840Specific Gravity Flowing Fluid NoneP_c 989.2 P_c 978.5

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.	939.2	- Measured	-	-	-	882.1	96.4		.95
2.	913.2					833.9	144.6		.92
3.	858.2					736.5	242.0		.87
4.	817.2					667.8	310.7		.83
5.	953.2					908.6	69.9		.96

Absolute Potential: 7100 MCFPD; n 0.656649COMPANY Paul De CleveADDRESS 606 North Colorado, Midland, TexasAGENT and TITLE A. L. Smith Independent Gas TesterWITNESSED None

COMPANY _____

REMARKS

New well.

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.

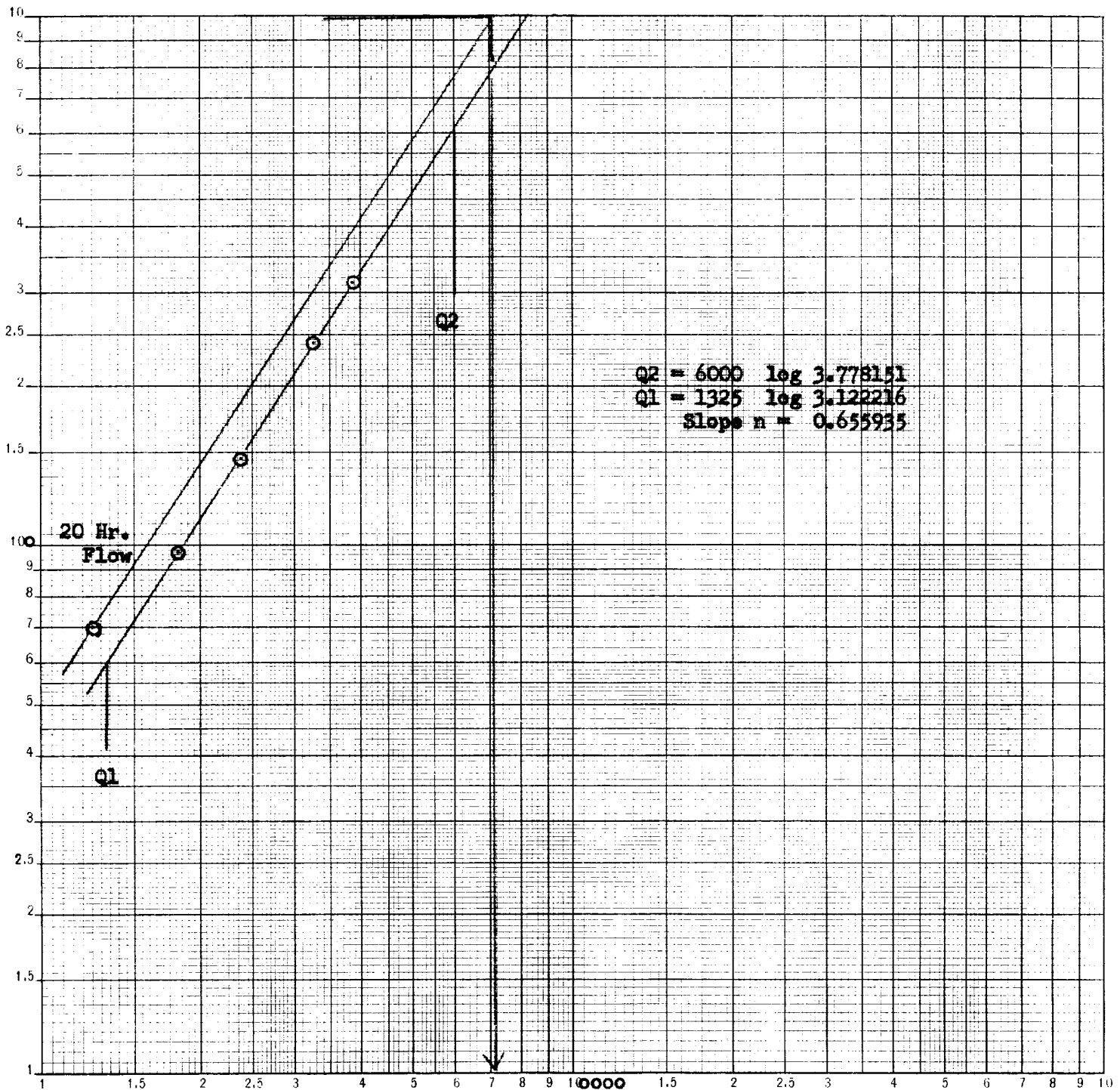
F_{pv} = Supercompressability factor.

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 .

Paul De Cleve
 Tidewater State No.1
 NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec.17 T16S R32E
 Lea County, New Mexico
 Sept.30 - Oct.4, 1962
 Absolute Open Flow 7100 MCF

Pc²



LOGARITHMIC 359-110
 KEUFFEL & ESSER CO. MADE IN U.S.A.
 2 X 2 CYCLES

Q₂ 5700 3.77852 Q in MCF per Day
 Q₁ 1325 3.12122
 645636

REPORT OF J. J. H. H. H.
RECEIVED BY J. J. H. H. H.
DATE: 1913

• J. J. H. H. H.
J. J. H. H. H.

3290

4 1 1913