

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalnet Formation Seven Rivers County Loa
Initial _____ Annual _____ Special X Date of Test 4-19 to 4-19-57
Company J. E. Simon Lease Woolworth Well No. 1
Unit 4 Sec. 33 Twp. 24S Rge. 37E Purchaser El Paso Natural Gas Co.
Casing 5 1/2 Wt. _____ I.D. _____ Set at 3294 Perf. _____ To _____
Tubing 2 Wt. 4.7 I.D. _____ Set at 3500 Perf. _____ To _____
Gas Pay: From 3474 To 3494 L 3500 xG 0.655 -GL 2293 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: No: 12-30-41 Packer _____ Reservoir Temp. _____

OBSERVED DATA

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

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						638				72
1.	4	1,250	608	6.25	74	610				24
2.	4	1,250	595	9.00	78	597				24
3.	4	1,250	585	10.89	80	587				24
4.	4	1,250	568	14.21	80	571				24
5.										

FLOW CALCULATIONS

No.	Coefficient F _{LC} (24-Hour)	$\sqrt{h_w P_f}$	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	62.30		.9868	.9571	1.061	603
2.	9.643	73.97		.9831	.9571	1.059	711
3.	9.643	80.70		.9813	.9571	1.053	769
4.	9.643	94.01		.9813	.9571	1.053	897
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.936 (1-e^{-s}) 0.146

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 701.2 P_c 491.7

No.	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.	623.2	388.4	5.99	35.88	5.24	393.6	98.1		
2.	610.2	372.3	7.06	49.84	7.28	379.6	112.1		
3.	600.2	360.2	7.64	58.37	8.52	368.7	123.0		
4.	584.2	341.3	8.91	79.39	11.99	352.9	138.8		
5.									

Absolute Potential: 3150 MCFPD; n 1.000COMPANY Albert Gaskie, OperatorADDRESS Box 2076 Hob. Co. New Mex 100AGENT and TITLE Paul J. Johnston Superintendent of Production

WITNESSED _____

COMPANY _____

REMARKS _____

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

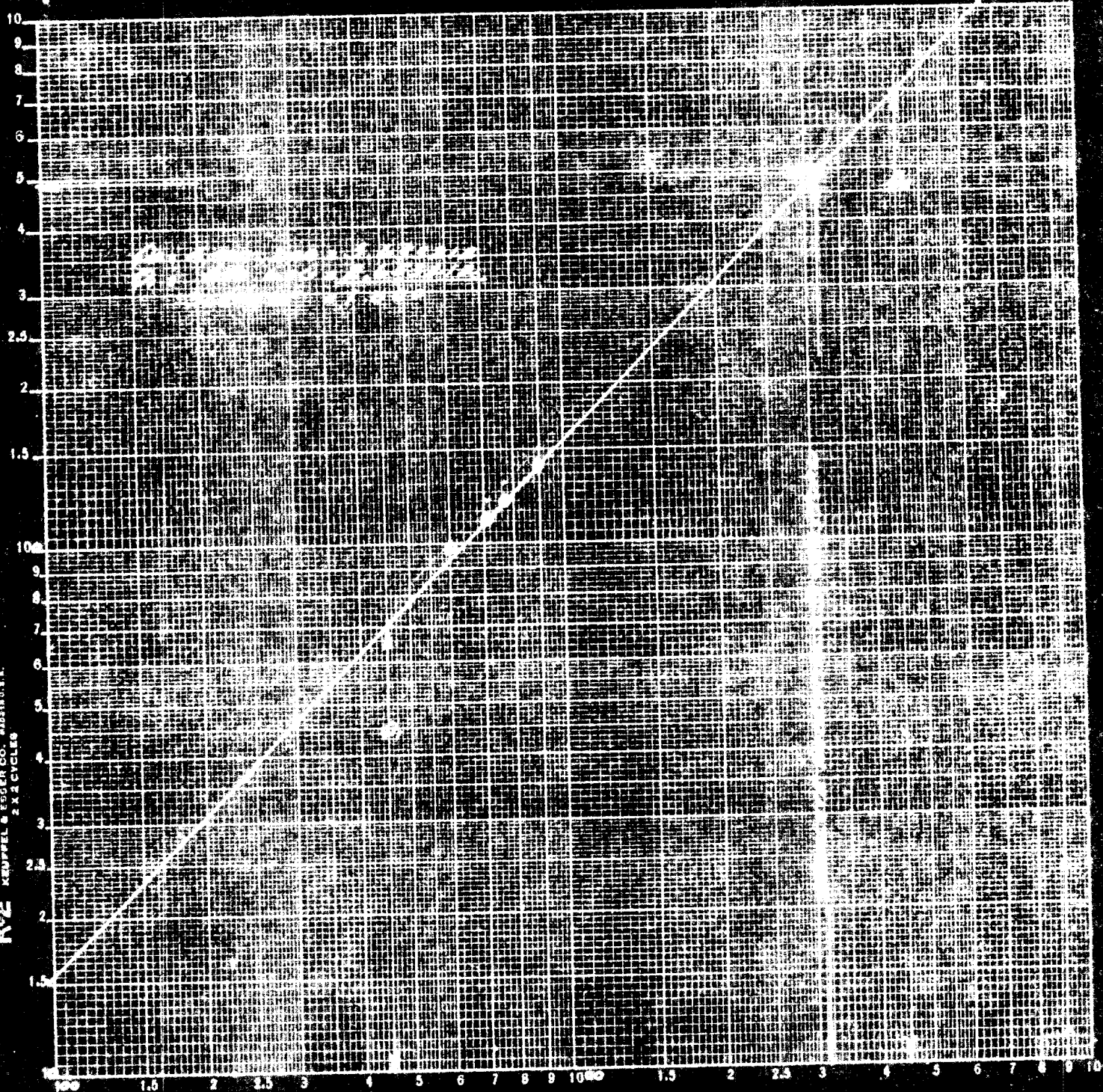
- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing 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 .

U.E. SIMON
 WOOLWORTH N91
 K-33-24-37 LBA CO. N.M.
 4-19-1957

$R^2 - R^2$ (hands)

KE LOGARITHMIC 358-110
 KODAK SAFETY FILM CO. BOSTON, U.S.A.
 2 X 2 CYCLES



P-MCPD 15.025 PSIA 60°F