

NEW MEXICO OIL CONSERVATION COMMISSION

HOODS OFFICE 000

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jalnet Formation Yates County Lea
Initial X Annual _____ Special _____ Date of Test 3-5-57
Company Realer & Sheldon Lease Stahler Well No. 1
Unit "L" Sec. 20 Twp. 23S Rge. 37E Purchaser El Paso Natural Gas
Casing 7 Wt. 20 1/2 I.D. _____ Set at 3668 Perf. 3000 To 3037
Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at _____ Perf. 3040 To 3098
Gas Pay: From 3000 To 3098 L 3000 xG 0.67 -GL 2010 Bar.Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well Gas-Oil Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 2-15-57 Packer 3120 Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Pressure)

Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	2X .218	863			68			909		3
2.	2X .250	847			66			847		3
3.	2X .312	792			66			792		3
4.	2X .375	701			64			701		3
5.										

FLOW CALCULATIONS

No.	Coefficient (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.	1.0834		881.2	.9924	.9463	1.098	985
2.	1.4030		860.2	.9943	.9463	1.094	1242
3.	2.1577		805.2	.9943	.9463	1.091	1783
4.	3.0691		714.2	.9962	.9463	1.089	2231
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 0.707 (1-e^{-S}) 0.129

Specific Gravity Separator Gas .670
Specific Gravity Flowing Fluid _____
P_c 922.2 P_c² 850.5

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.	881.2	776.5	.70	.49	.06	776.6	73.9		
2.	860.2	739.9	.88	.77	.10	740.0	110.5		
3.	805.2	648.3	1.26	1.59	.21	648.5	202.0		
4.	714.2	510.1	1.58	2.50	.32	510.4	340.1		
5.									

Absolute Potential: 4,200 MCFPD; n .599COMPANY Realer & SheldonADDRESS 302 Garper Bldg., Artesia, N.M.AGENT and TITLE Vilas P. Sheldon, PartnerWITNESSED John H. BrownCOMPANY El Paso Natural Gas 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} = Supercompressibility factor.

n = Slope of back pressure curve.

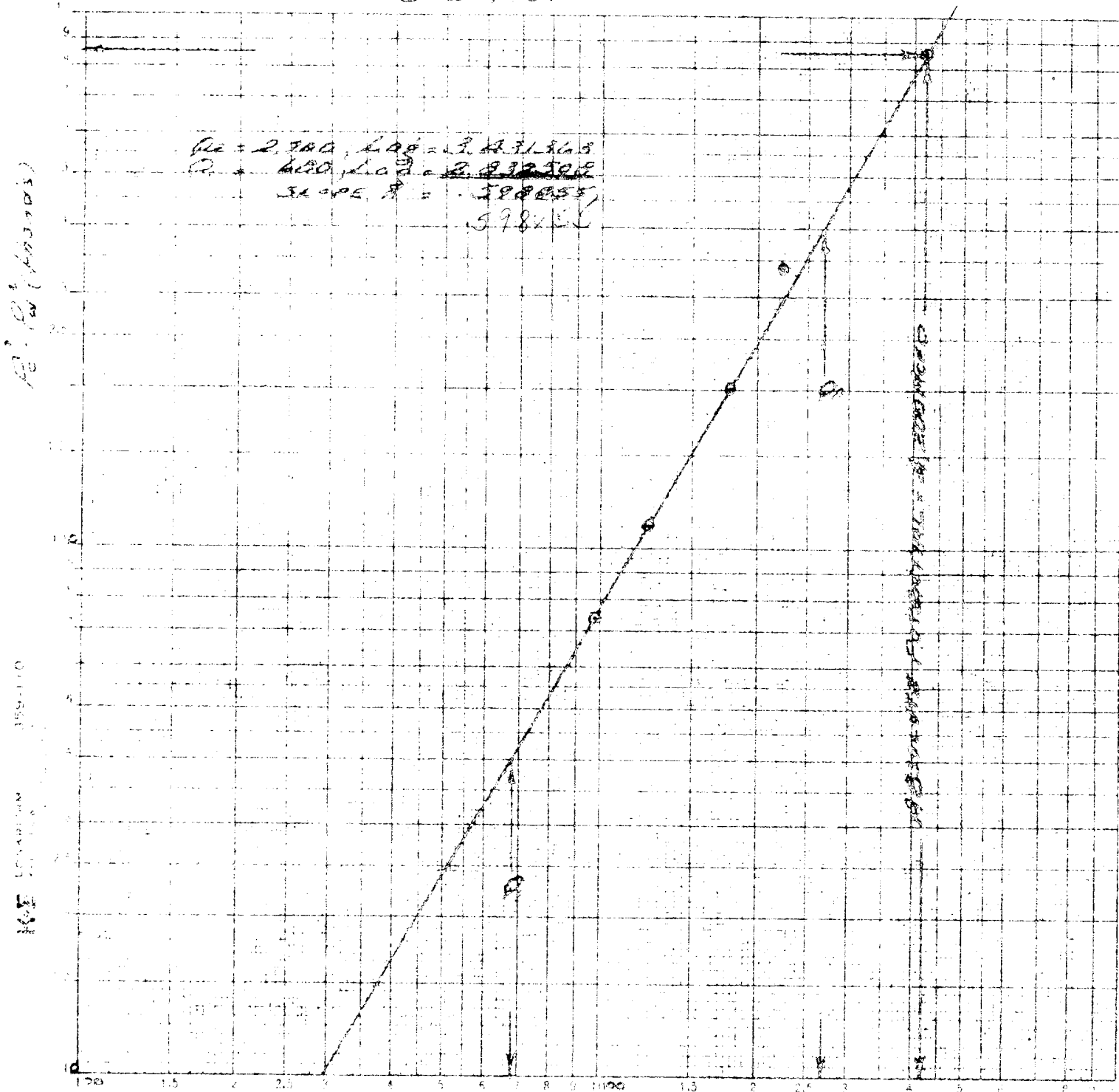
Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

REBLER & SNEEDON

STEELER NO. 1

E-20-23-37 LEP NM.

8-5-1957



REBLER - 15.025 FRI 60 F

ILLEGIBLE