

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jalmat Formation Yates County Lea
Initial _____ Annual _____ Special X Date of Test 1-21 to 1-25-57
Company R. Olsen Oil Company Lease Calley Well No. 1
Unit H Sec. 7 Twp. 25S Rge. 37E Purchaser El Paso Natural Gas Company
Casing 7" Wt. 20 $\frac{1}{2}$ I.D. _____ Set at 2955 Perf. _____ To _____
Tubing 2 $\frac{1}{2}$ " Wt. _____ I.D. _____ Set at 3380 Perf. _____ To _____
Gas Pay: From 2830 To 2955 L 3380 xG .655 -GL 2214 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 11-5-48 Packer _____ Reservoir Temp. _____
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through ~~(Pressure)(Orifice)~~ (Meter)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Pressure) (Line) Size	(Orifice) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						515		515		72
1.	4	1.500	210	3.12	54	410		450		24
2.	4	1.500	219	5.02	58	359		400		24
3.	4	1.500	230	5.72	64	317		377		24
4.	4	1.500	230	6.72	64	258		348		24
5.										

FLOW CALCULATIONS

No.	Coefficient flg. (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.	13.99	46.29		1.0058	.9571	1.023	638
2.	13.99	76.16		1.0019	.9571	1.023	1,044
3.	13.99	88.85		.9962	.9571	1.024	1,213
4.	13.99	104.44		.9962	.9571	1.024	1,426
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas .655
Specific Gravity Flowing Fluid _____
P_c 528.2 P_c² 279.0

No.	XXXX 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	XXXX XXXX	XXXX XXXX
1.	423.2	179.1				214.6	64.4		
2.	372.2	138.5				170.7	108.3		
3.	330.2	109.0		Measured		152.3	126.7		
4.	271.2	73.5				130.5	148.5		
5.									

Absolute Potential: 2,575 MCFPD; n .946COMPANY R. Olsen Oil CompanyADDRESS 2805 Liberty Bank Building, Oklahoma City, OklahomaAGENT and TITLE Philip Randolph, Vice President

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.

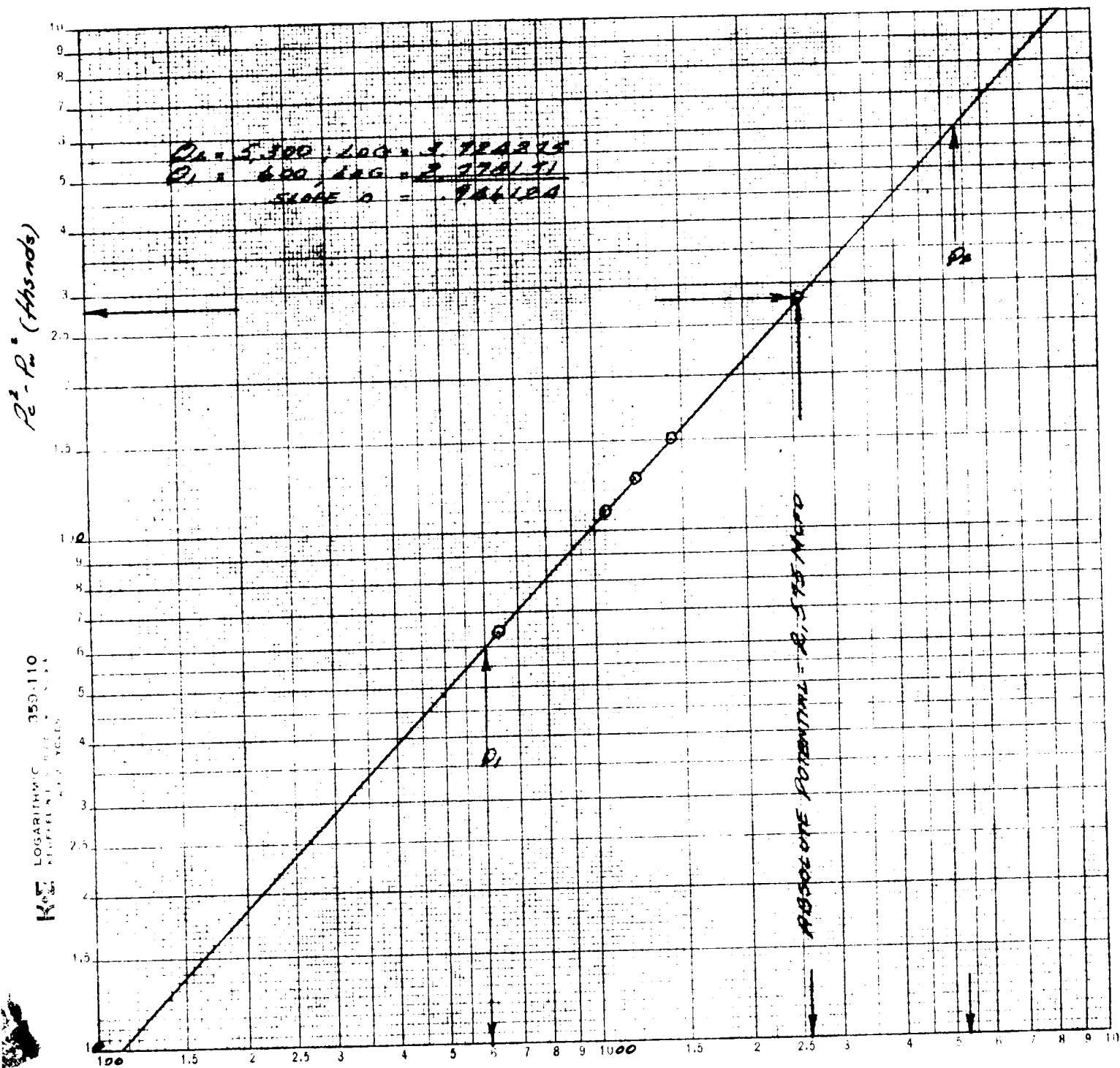
F_t = Flowing temperature correction factor.

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 .

R. OLSEN OIL CO.
 CALLEY NO 1
 H-7-25-37 LEA NM
 1-25-1957



Q - MCFD - 15025 PSIA 60°F