

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Grosby Devonian Formation Devonian County Lea

Initial X Annual _____ Special _____ Date of Test 12-16-58

Company Pan American Petroleum Corp. Lease C. M. Farnsworth "C" Well No. 6

Unit B Sec. 4 Twp. 26 Rge. 37 Purchaser Not yet connected.

Casing 5-1/2 Wt. 14 1/2 I.D. 5.012 Set at 8670' Perf. 8490' To 8550'

Tubing 2 Wt. 4.78 I.D. 1.995 Set at 8550' Perf. None To _____

Gas Pay: From 8490 To 8550 L 8550 xG 0.675 -GL _____ Bar.Press. _____

Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: Not completed Packer _____ Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(<u>Prover</u>) (Line) Size	(<u>Choke</u>) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	<u>4"</u>	<u>2.5</u>	<u>680</u>	<u>25</u>	<u>68</u>	<u>2130</u>		<u>2565</u>		<u>4</u>
2.										
3.										
4.										
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.	<u>42.13</u>	<u>131.645</u>	<u>693.2</u>	<u>.9924</u>	<u>.9427</u>	<u>1.078</u>	<u>5773.39</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons 55 deg.
P_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2800 P_c² 7840

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.						<u>6647</u>	<u>1193</u>		<u>.72</u>
2.									
3.									
4.									
5.									

Absolute Potential: 21,250 MCFPD; n .706 (Field Avg.)

COMPANY Pan American Petroleum Corporation

ADDRESS Box 68 - Hobbs, New Mexico

AGENT and TITLE J. H. Muck Field Engineer

WITNESSED _____

COMPANY _____

REMARKS

One point test taken to determine approximate productive capacity of well as approved by N.M.O.C.C.
Memorandum No. 28-58 dated Dec. 15, 1958. Formal 4-point test will be taken after pipeline connection obtained.

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.

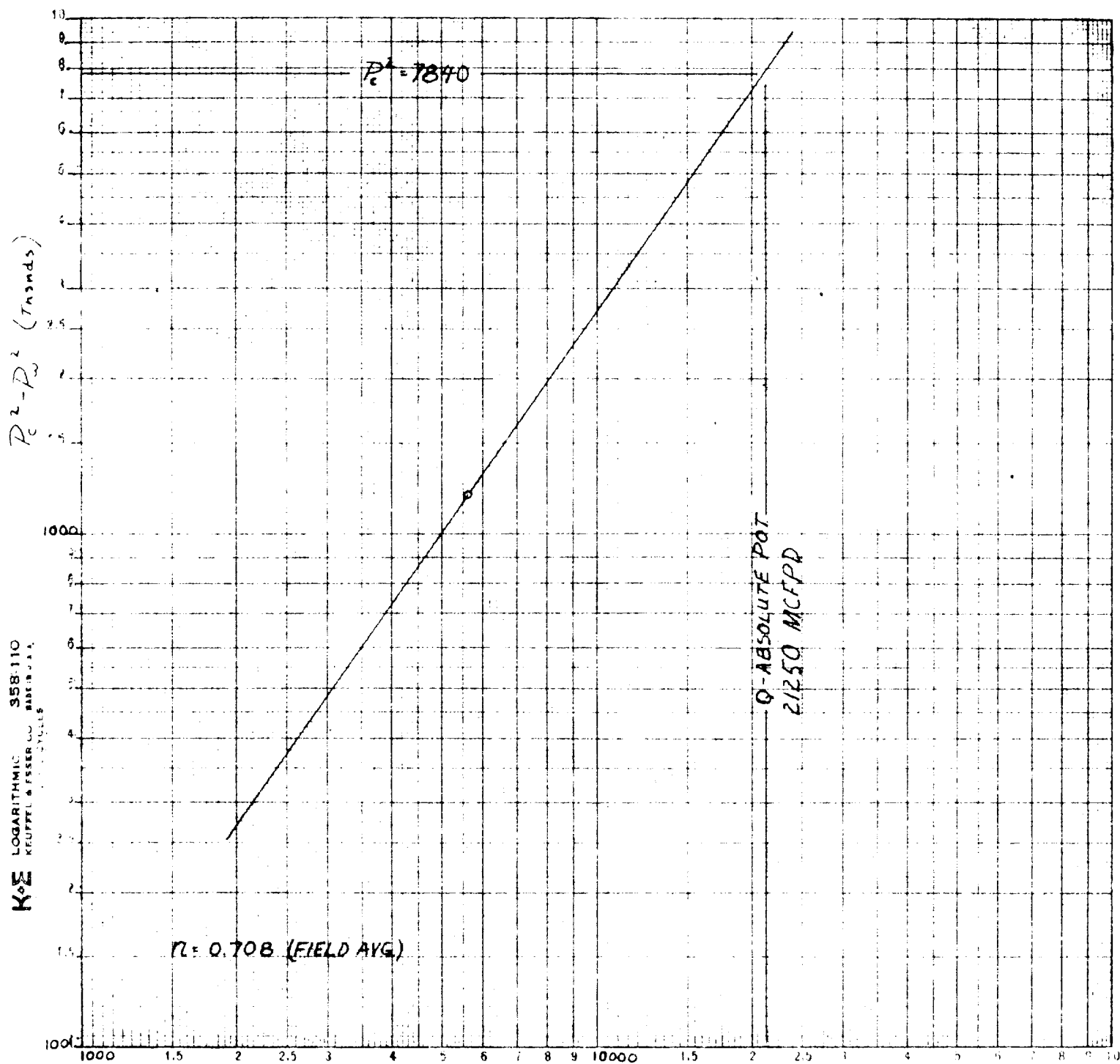
F_t = Flowing temperature correction factor.

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 .

PAN AMERICAN PETROLEUM CORP.
 C M FARNSWORTH "C" No. 6
 11-16-58



$Q - \text{MCFPD } 15.025 \text{ PSI @ } 60^\circ\text{F}$