

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Del Norte Formation Del Norte County San Juan
Initial X Annual Special Date of Test June 27, 1962
Company San American Petroleum Corporation Lease Gallegos Canyon Unit Well No. 94
Unit F Sec. 23 Twp. 20N Rge. 13 Purchaser
Casing 4 1/2 Wt. 10.5 I.D. 4.000 Set at 524.0 Perf. 5575 To 5761
Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 5764 Perf. To
Gas Pay: From 5575 To 5761 L 9618 xG .70 (est.) -GL 3933 Bar.Press. 12
Producing Thru: Casing Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: June 13, 1962 Packer Reservoir Temp.

OBSERVED DATA

Tested Through (Packer) (Choke) (MAXIM) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Flow) (Line) Size	(Choke) (Flow) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	7 Days					2095		2062		
1.	2"	3/4"	393			593	60° est.	1494		3 Hours
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.	12.3550		395	1.000	.9250	1.051	4753
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c (1-e^{-s})
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 2874 P_c² 4,301,476

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.						2,268,136	2,033,476		
2.									
3.									
4.									
5.									

Absolute Potential: 8036 MCFPD; n 0.75

COMPANY San American Petroleum Corporation

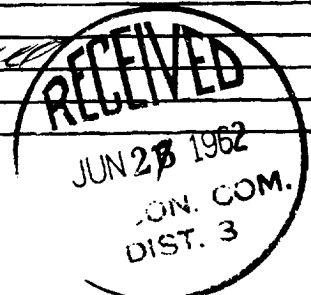
ADDRESS P.O. Box 490, Farmington, New Mexico

AGENT and TITLE E. J. Foell Petroleum Engineer

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 .