

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Formation Mesaverde County Rio Arriba
Initial X Annual - Special - Date of Test 12/13/57
Company Magnolia Petroleum Company Lease Jicarilla "C" Well No. 2 M.V.-LT
Unit N Sec. 7 Twp. 26N Rge. 3W Purchaser Pacific Northwest
Casing 5 1/2" Wt. 14# I.D. 5.012" Set at 6050' Perf. 5339' To 5843'
Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at 5277' Perf. 0 To -
Gas Pay: From 5339' To 5843' L 5277' xG 0.68 -GL 3588 Bar.Press. est. 12 psi
Producing Thru: Casing - Tubing X Type Well G.G. Dual
Date of Completion: 10/4/57 Packer 5269' Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. -

OBSERVED DATA

Tested Through (~~2 3/8"~~) (Choke) (~~2 3/8"~~) Type Taps -

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1050	-	-	-	
1.	2"	0.750"	162	-	57	162	57	-	-	3 hrs.
2.										
3.										
4.										
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.	12.3650	-	174	1.0029	.9393	1.021	2069
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c 9.402 (1-e^{-s}) .230
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 1062 P_c² 1127.8

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.	174	30.3	19.45	378.3	87.0	117.3	1019.5	369	0.347
2.									
3.									
4.									
5.									

Absolute Potential: 2.247 MCFPD; n 0.75
COMPANY MAGNOLIA PETROLEUM COMPANY
ADDRESS BOX 2406, HOBBS, NEW MEXICO
AGENT and TITLE William A. Jager, Jr. Gas 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} = 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 .

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