

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba
 Initial x Annual - Special - Date of Test 8/2/58
 Company Magnolia Petroleum Company Lease Jicarilla #0 Well No. 5
 Unit M Sec. 25 Twp. 27N Rge. 3W Purchaser Pacific Northwest
 Casing 5" Wt. 15# I.D. 4.108" Set at 6350' Perf. 5807' To 6276'
 Tubing 3/8" Wt. 4.7 I.D. 1.995" Set at 6252' Perf. - To -
 Gas Pay: From 5807' To 6276' L 6252' xG 0.680 est. GL 4251 Bar. Press. 12 psia
 Producing Thru: Casing - Tubing x Type Well G. G. Dual
 Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 6-29-58 Packer Yes Reservoir Temp. -

OBSERVED DATA

Tested Through (~~Proper~~) (Choke) (~~302705~~) Type Taps -

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Proper) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1588	-	-	-	
1.	2"	0.750"	321	-	620	321	620	-	-	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	-	333	0.9981	0.9393	1.037	1003
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons deg.
 P_c 9.402 (1-e^{-s}) 0.266 Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 1600 P_c 2560.0

No.	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.	333	110.9	37.6	1416.5	376.8	1187.7	2072.8	-	-
2.									
3.									
4.									
5.									

Absolute Potential: 4675 MCFPD; n 0.75
 COMPANY Magnolia Petroleum Company
 ADDRESS P. O. Box 2106, Hobbs, New Mexico
 AGENT and TITLE William A. Morgan, 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} = 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 **OIL CONSERVATION COMMISSION**

AZTEC DISTRICT OFFICE		
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