

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Pictured Cliffs County El Arriba
Initial X Annual _____ Special _____ Date of Test 11-11-56
Company Magnolia Petroleum Company Lease Jicarilla "G" Well No. 2
Unit _____ Sec. 25 Twp. 27N Rge. 3W Purchaser _____ Not Connected
Casing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Tubing 2" Wt. 4.7 I.D. _____ Set at 3859' Perf. 3882' To 3946'
Gas Pay: From 3882' To 3946' L _____ xG _____ -GL _____ Bar.Press. 12 psig (Est.)
Producing Thru: Casing _____ Tubing X Type Well G. G. Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: October 25, 1956 Packer X Reservoir Temp. _____

OBSERVED DATA

Tested Through (Choke) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						842		844		
1.	2"	0.750"	0-30#		76					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.	This well flowed water in heads during the 3 hour period with some gas. After the first						
2.	hour, the flowing tubing pressure would drop to approximately 0 psig between heads, and						
3.	build up to a maximum of 30 psig while producing a head of water.						
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 _____ P_c² _____

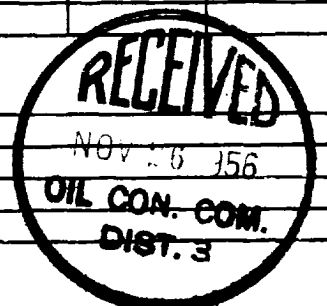
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.									
2.									
3.									
4.									
5.									

Absolute Potential: _____ MCFPD; n _____

COMPANY Magnolia Petroleum Company
ADDRESS Box 727, Kermit, Texas
AGENT and TITLE Warren W. Ruff - Gas Engineer
WITNESSED _____
COMPANY _____

REMARKS

An absolute potential could not be obtained with this test. It is possible this well can be cleaned up and a test obtained in the future.



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 .

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