

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Unnamed Formation Mesaverde County Rio Arriba
 Initial X Annual _____ Special _____ Date of Test 12-3-56
 Company Magnolia Petroleum Company Lease Jicarilla "D" Well No. 2
 Unit A Sec. 14 Twp. 26N Rge. 3W Purchaser Pacific Northwest (Unconnected)
 Casing 5 1/2" Wt. 14 #/ft. I.D. 5.012" Set at 6,025' Perf. 5,112' To 5,945'
 Tubing 2" Wt. 14.7 #/ft. I.D. 1.995 Set at 5,115' Perf. _____ To _____
 Gas Pay: From 5112 To 5945 L 5,115' xG 0.68 (Est) GL 3682.2 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: 11-19-56 Packer Yes Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.	
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.		
1.	2"	0.750	553		71°F	1708	553	74	3 Hours
2.									
3.									
4.									
5.									

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor Ft	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		565	0.9868	1.9393	1.060	6,864.0
2.							
3.							
4.							
5.							

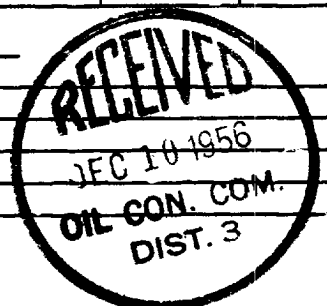
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c 2.402 (1-e^{-s}) 0.235
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid 0.68 (Est)
 P_c 1,720 P_c² 2,958.4

No.	P _w (psia)	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² - P _w ²	Cal. P _w	P _w /P _c
1.	565	978.9	1298.1	1660.3	1139	
2.						
3.						
4.						
5.						

Absolute Potential: 10.58 MCFPD; n 0.75
 COMPANY Magnolia Petroleum Company
 ADDRESS _____
 AGENT and TITLE Walter H. ... 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 P_t .

OIL CONSERVATION COMMISSION		
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