

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Pictured Cliffs County Rio Arriba  
 Initial X Annual - Special - Date of Test 8/2/58  
 Company Magnolia Petroleum Company Lease Jicarilla "G" Well No. 5  
 Unit M Sec. 25 Twp. 27N Rge. 3W Purchaser Pacific Northwest  
 Casing 7 5/8" Wt. 26.40# I.D. 7.025 Set at 4300' Perf. 3979' To 4068'  
 Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at 4069' Perf. - To -  
 Gas Pay: From 3979' To 4068' L 4069' xG 0.680 est. GL 2767 Bar. Press. 12 psia  
 Producing Thru: Casing - Tubing X Type Well GG Dual  
 Single-Bradenhead-G. G. or G.O. Dual  
 Date of Completion: 6/29/58 Packer None Reservoir Temp. -

OBSERVED DATA

Tested Through (Dresser) (Choke) (Mabey) Type Taps -

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	2"	0.750"	66	-	61°	66	61°	265	-	3 hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650	-	78	0.9990	0.9391	-	905
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio - cf/bbl.  
 Gravity of Liquid Hydrocarbons - deg.  
 P<sub>c</sub> - (1-e<sup>-s</sup>) -  
 Specific Gravity Separator Gas -  
 Specific Gravity Flowing Fluid -  
 P<sub>c</sub> 809 P<sub>c</sub> 654.5

No.	P <sub>w</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> /P <sub>c</sub>
1.	277	-	-	-	-	76.7	577.8	-	-
2.									
3.									
4.									
5.									

Absolute Potential: 1004 MCFPD; n 0.85

COMPANY Magnolia Petroleum Company  
 ADDRESS P. O. Box 2406, Hobbs, New Mexico  
 AGENT and TITLE William P. Morgan, Jr. Gas Engineer  
 WITNESSED -  
 COMPANY -

REMARKS



