

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 9/10/59
Company Magnolia Petroleum Company Lease Florence Millenbaugh Well No. 1
Unit B Sec. 18 Twp. 23N Rge. 1W Purchaser Not Connected
Casing 4 1/2" Wt. 9.5# I.D. 4.090" Set at 3130' Perf. 3046' To 3056'
Tubing 1 1/2" Wt. 2.90# I.D. 1.610" Set at 3063' Perf. --- To ---
Gas Pay: From 3046' To 3056' L 3051' xG 0.680 -GL 2075 Bar.Press. _____
Producing Thru: Casing X Tubing _____ Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8/22/59 Packer None Reservoir Temp. 93°

OBSERVED DATA

Tested Through (Packer) (Choke) (Measures) Type Taps ---

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(<u>Packer</u>) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						772		858		
1.	2"	0.750	15		60	119	---	15	60	3
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365	---	27	1.000	0.9393	---	313.59
2.							
3.							
4.							
5.							

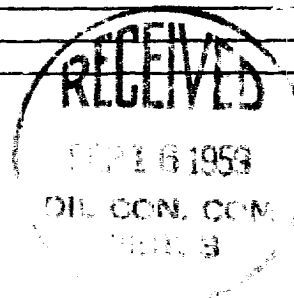
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s}) _____
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 870 P_c² 756.900

No.	P _w P _g (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.	131	---	---	---	---	17.161	739.739	---	---
2.									
3.									
4.									
5.									

Absolute Potential: 320 MCFPD; n 0.85
COMPANY MAGNOLIA PETROLEUM COMPANY
ADDRESS P. O. Box 2406, Hobbs, New Mexico
AGENT and TITLE C. V. Masley 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_{C72} = 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 .

[illegible]