

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Mesaverde Formation Mesaverde County Rio Arriba
Initial X Annual - Special - Date of Test 8/12/58
Company Magnolia Petroleum Company Lease Jicarilla "H" Well No. 7 MV-LT
Unit M Sec. 1 Twp. 26 Rge. 3W Purchaser Pacific Northwest Pipeline
Casing 5" Wt. 15# I.D. 4.408" Set at 5980' Perf. 5423' To 5897'
Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at 5884' Perf. - To -
Gas Pay: From 5423' To 5897' L 5884' xG 0.680 est. GL 4007 Bar. Press. 12 psia
Producing Thru: Casing - Tubing X Type Well G.O. Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 7-26-58 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.	Press. psig	Temp. °F.	
SI										
1.	2"	0.750"	495	-	61	1695	61	-	-	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	-	507	0.9990	0.9393	1.060	6236
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

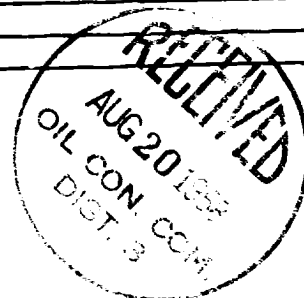
Gas Liquid Hydrocarbon Ratio - cf/bbl.
Gravity of Liquid Hydrocarbons - deg.
P_c 9.402 (1-e^{-s}) 0.253

Specific Gravity Separator Gas -
Specific Gravity Flowing Fluid 0.680
P_c 1707 P_c 2913.8

No.	P_t 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.	507	257.0	58.6	3434.0	868.8	1125.8	1788.0		
2.									
3.									
4.									
5.									

Absolute Potential: 8998 MCFPD; n 0.75COMPANY MAGNOLIA PETROLEUM COMPANYADDRESS P. O. BOX 2406, DOBBS, NEW MEXICOAGENT and TITLE William A. Meyer, Jr. Gas EngineerWITNESSED -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} = 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 .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>3</u>		
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	/	
Proration Office		
State Land Office		
U. S. G. S	/	
Transporter		
File	/	✓