

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Mesaverde Formation Mesaverde County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 10-24-57
Company Blackwood & Nichols Company Lease Northeast Blanco Unit Well No. Howell 1-BX
Unit B Sec. 10 Twp. 30N Rge. 7W Purchaser El Paso Natural Gas Company
Casing 5-1/2" Wt. 15.50# I.D. 4.950" Set at 5784' Perf. 5060' To 5578'
Tubing 2-3/8" Wt. 4.7# I.D. 1.995" Set at 5560' Perf. 5516' To 5528'
Gas Pay: From 5060' To 5578' L _____ xG _____ -GL _____ Bar.Press. 11.5
Producing Thru: Casing _____ Tubing X Type Well Gas
Date of Completion: 10-6-57 Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (XXXXXX) (Choke) (XXXXXX) 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						1040		1040		
1.		3/4"	367			367		963		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		378.5				4680
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1051.5 P_c 1106

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.						950	156		
2.									
3.									
4.									
5.									

Absolute Potential: 20.334 MCFPD; n .75COMPANY Blackwood & Nichols CompanyADDRESS P. O. Box 1237, Durango, ColoradoAGENT and TITLE Original SignedDeLasso Loos, Field SuperintendentWITNESSED by DeLasso Loos

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	
AZTEC DISTRICT	
No. Copies Required	2
Date	
By	
Checked	
Approved	
Signature	
Date	