

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 San Juan

Initial X Annual _____ Special _____ Date of Test 7-24-75

Company Blackwood & Nichols Lease Northeast Blanco Unit Well No. 63

Unit N Sec. 13 Twp. 30N Rge. 8W Purchaser El Paso Natural Gas Company

Casing 4½" Wt. 10.50# I.D. 4.05 Set at 5605' Perf. 5185' To 5528'

Tubing 2-3/8" Wt. 4.7# I.D. 1.995 Set at 5478' Perf. 5478' To 5478'

Gas Pay: From 5185' To 5528' L 5478 xG .59 -GL 3232 Bar.Press. 12.0

Producing Thru: Casing _____ Tubing X Type Well Gas
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 7-18-75 Packer None Reservoir Temp. 148°

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.	
1.		3/4"	175			560		580		3 hrs.
2.						175		520		
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 @ 14.025 psia
1.	12.3650		187				2313
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 592 P_c 350464

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.									
2.									
3.									
4.									
5.									

Absolute Potential: 7955 MCFPD; n .75

COMPANY Blackwood & Nichols Company

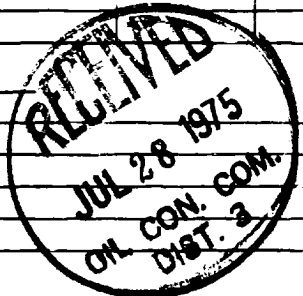
ADDRESS P.O. Box 1237 Durango, Colorado 81301

AGENT and TITLE DeLasso Loos, District Manager

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 .