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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 After Workover Annual Special Date of Test Dec. 19, 1975

Company Blackwood & Nichols Company Lease Northeast Blanco Unit Well No. 28

Unit O M Sec. 34 Twp. 31N Rge. 7W Purchaser El Paso Natural Gas Company

Casing 4" Wt. 11.34 I.D. 3.42 Set at 5570' Perf. 5125' To 5544'

Tubing 2-3/8" Wt. 4.7# I.D. 1.995 Set at 5542' Perf. 5542' To

Gas Pay: From 5125 To 5544 L 5544 xG .59 -GL 3271 Bar.Press. 12.0

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

Date of Completion: 12-12-75 Packer None Reservoir Temp. 148°

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps

	Flow Data					Tubing Data		Casing Data		
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	Duration of Flow Hr.
SI						435		560		
1.		3/4"	120			120		420		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		132				1632
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 572 P_c^2 327184

No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.									
2.									
3.									
4.									
5.									

Absolute Potential: 3068 MCFPD; n .75

COMPANY Blackwood & Nichols Company
ADDRESS P.O. Box 1237, Durango, Colorado 81301
AGENT and TITLE D. Loos, District Manager
WITNESSED
COMPANY

REMARKS

OK

OK
12-24-75

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.