

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 Annual Special X Date of Test 6/19/60
Company Blackwood & Nichols Lease N E B U Well No. 12-18
Unit G Sec. 18 Twp. 30N Rge. 7W Purchaser El Paso Natural Gas Co.
Casing 5" Wt. 15¹¹/₁₆ I.D. 4.408" Set at 7807 PBTD 6505 Perf. 5054' To 5539'
Tubing 2-1/16 Wt. 3.25¹¹/₁₆ I.D. 1.750" Set at 5517' Perf. 5483' To 5493'
Gas Pay: From 5054' To 5539' L 5500 xG 0.655 -GL 3602 Bar.Press. 11.5
Producing Thru: Casing Tubing X Type Well Single Gas
Recompletion
Date of Completion: 6/12/60 Packer Reservoir Temp.
Single-Bradenhead-G. G. or G.O. Dual

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						881		880		
1.		3/4				211		725		3 Hrs.
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.	12.3650		222.5				2751
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 892.5 P_c 796 X 10³

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.	222.5					542	254		0.825
2.									
3.									
4.									
5.									

Absolute Potential: 6474 MCFPD; n = 0.75

COMPANY Blackwood & Nichols
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AGENT and TITLE J. J. Linton, Petr. Engr.
WITNESSED
COMPANY

REMARKS

