

NEW MEXICO OIL CONSERVATION COMMISSION

Form 6

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Mesaverde Formation Mesaverde County San Juan
 Initial _____ Annual _____ Special Workover Date of Test 9/21/62
 Company ARTEL OIL AND GAS Lease Richardson Well No. 2
 Unit C Sec. 15 Twp. 31N Rge. 12W Purchaser SOUTHERN UNION CATHERIA
 Casing 4 1/2 Wt. 9 5/8 I.D. 4.000 Set at 5218 Perf. 4939 To 5183
 Tubing 2 3/8 Wt. 4 7/8 I.D. 1.665 Set at 4912 Perf. 4880 To 4890
 Gas Pay: From 4939 To 5183 L 4880 xG 7000 -GL 3416 Bar. Press. 12
 Producing Thru: Casing _____ Tubing Type Well SINGLE GAS
 Date of Completion: 9/14/62 Packer _____ Reservoir Temp. _____
 Recompletion: _____ Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Packer) (Choke) (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	2"	3/4"				850		857		
2.						311	600	619	600	3
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.	18.3650		323	1.000	.9250	1.027	3,722
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c _____ (1-e^{-B})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c _____ P_c² _____

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-B})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	631					398,161	346,658		
2.									
3.									
4.									
5.									

Absolute Potential: 6,739 MCFPD; n .75
 COMPANY ARTEL OIL AND GAS
 ADDRESS Drawer 570 Farmington, New Mexico
 AGENT and TITLE S. H. Thomas District Engineer
 WITNESSED _____
 COMPANY _____

REMARKS

