

NEW MEXICO OIL CONSERVATION COMMISSION

Form O-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Mesavende Formation Mesavende County SAN JUAN
 Initial _____ Annual _____ Special Workover Date of Test 9/26/61
 Company Artes Oil and Gas Lease Richardson Well No. 3
 Unit C Sec. 22 Twp. 31N Rge. 12W Purchaser Southern Union Gathering
 Casing 4 1/2 Wt. 9 5/8 I.D. 4.000 Set at 5336 Perf. 5050 To 5118
 Tubing 2 3/8 Wt. 4 7/8 I.D. 1.995 Set at 4912 Perf. 4880 To 4890
 Gas Pay: From 5050 To 5118 L 4880 to 7004 ft - CH. 3416 Bar. Press. 12
 Producing Thru: Casing _____ Tubing ✓ Type Well SINGLE GAS
Recompletion: Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 9/19/61 Packer NONE Reservoir Temp. _____

OBSERVED DATA

Tested Through (Blower) (Choke) (Blower)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Blower) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	7 days					779		787		
1.	2" /	3/4"				250	60°F	510	60°F	3
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		262	1.000	1.2252	1.1232	3085
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c _____ (1-e⁻⁸)

Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 799 P_c 638, 401

No.	P _w P _t (psia)	P _t ²	P _c Q	(P _c Q) ²	(P _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. F _v	F _v F _c
1.	522					272,484	365,912		1.453
2.									
3.									
4.									
5.									

Absolute Potential: 4495 MCFPD; n .25
 COMPANY Artes Oil and Gas Co
 ADDRESS Drawer 520 Farmington, New Mexico
 AGENT and TITLE B. E. Massey DISTRICT ENGINEER
 WITNESSED _____
 COMPANY _____

