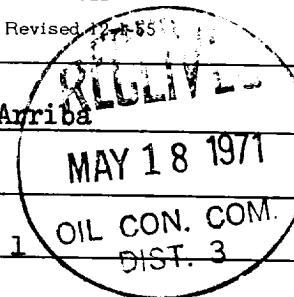


**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122

Revised 12-1-55

Pool Ballard			Formation Pictured Cliffs			County Rio Arriba		
Initial Yes		Annual		Special		Date of Test 5-14-71		
Company Merrion & Bayless				Lease Old Rock Com			Well No. 1	
Unit	Sec. 28	Twp. 25N	Range 6W	Purchaser W.O.R.G.P.				
Casing 3 1/2	Wt. 9.3	I.D. 2.992	Set at 2674	Perf. 2506	To 2542			
Tubing 1 1/4	Wt. 2.4	I.D. 1.380	Set at 2550	Perf. Open	To ---			
Gas Pay:	From 2506	To 2542	L 2550	G 0.600	GL 1530	Bar. Press. 12		
Producing Through:				Casing XXX	Type Well - Single - Braden head - G.G. or G.O. Dual Single			
Date of Completion 4-22-71		Packer None			Reservoir Temp. 100°			



OBSERVED DATA

Tested Through:								Type of Taps		
Prover ☒ Choke ☐ Meter ☐										

FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.	2"	3/4	165		15°	165	15°	592		3
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-MCF P D @ 15.025 psia
1.	12.178		177	1.0463	1.000	1.016	2291
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.	Specific Gravity Separator Gas 0.6
Gravity of Liquid Hydrocarbons _____ deg.	Specific Gravity Flowing Fluid 0.6
F _c 24.62 (1-e ^{-S}) 0.105	P _c 687 P _c ² 471.969

No.	$\frac{P_w}{P_t}$ 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	$\frac{P_w}{P_c}$
1.	177	31.329	56.404	3181.4	334.047	365.376	106.593	604	0.8792
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **8115** MCFPD; n **0.85**

COMPANY **Merrion and Bayless** WITNESSED **T. C. Durham**

ADDRESS **P. O. Box 507 Farmington, New Mexico** COMPANY **Fizz's Pumping Service**

AGENT AND TITLE **J. Gregory Merrion Operator**