

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

Form O-122
Revised 12-1-55

Pool BALLARD		Formation PC		County RIO ARRIBA	
Initial V		Annual		Special	
Company PETROLEUM ASSOCIATES		Lease FLORANCE D		Well No. #-5	
Unit A	Sec. S	Twp. 23	Range 4	Purchaser	
Casing 4 1/2	Wt.	I.D.	Set at 2737	Perf. 2670	To 2686
Tubing 1 1/4	Wt.	I.D.	Set at 2669	Perf.	To
Gas Pay: From 2670 To 2686		L. 6.50 (E)		GL	Bar. Press.
Producing Through:		Casing	Tubing ✓	Type Well — Single — Batten head — G.G. or G.O. Dual	
Date of Completion		Fracker	Reservoir Temp.		

OBSERVED DATA

Tested Through: Prover ☐ Choke ☐ Meter ☐								Type of Flow		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Line) Size	Press. psig.	Diff. In. H ₂ O	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.										
2.	2.000	.750	55		50	55		491		3 HR.
3.								353		
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{Q_w \cdot h}$	Pressure psia	Flow Temp. °F.	Gravity Factor $\frac{P_g}{P_w}$	Temperature Factor $\frac{T_w}{T_g}$	Rate of Flow Q-MCF/D @ 14.7 psia
1.	12.20		67	100.98	.966		793
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas-Liquid Hydrocarbon Ratio _____ cf/cbl. Specific Gravity Separator Gas _____

Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Liquid _____

P_w _____ (1-c²) P_g **703** P_c **494.2**

No.	$\frac{P_w}{P_g}$ psia	P_c^2	$\frac{P_w^2}{P_g^2}$	$\left(\frac{P_w}{P_g}\right)^2$	$\left(\frac{P_w}{P_g}\right)^2 (1-c^2)$	$\frac{P_w^2}{P_g^2}$	$\frac{P_w^2 - P_c^2}{P_g^2}$	Cal $\frac{P_w}{P_g}$	$\frac{P_w}{P_g}$
1.	365					1332	361.6	1.369	1.3060
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL _____ **1036** _____ MCF/D; D _____ **85**

COMPANY **PETROLEUM ASSOCIATES** WITNESSED _____

ADDRESS _____ COMPANY _____

AGENT AND TITLE **Marjorie B. Smith, P.E.**

ILLEGIBLE