

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

Form C-122
Revised 12-1-55

Pool South Blanco			Formation Pictured Cliffs			County Rio Arriba			
Initial X		Annual		Special		Date of Test 11-17-67			
Company SHERMAN F. WAGENSELLER			Lease Mobil Apache			Well No. 12			
Unit F	Sec. 12	Twp. 23N	Range 3W		Purchaser EPNG				
Casing 4.500	Wt. 9.5	I.D. 4.090	Set at 3187		Perf. 3118	To 3132			
Tubing 2.375	Wt. 4.7	I.D. 1.995	Set at 3130		Perf. 3130	To			
Gas Pay:	From 3118	To 3132	L 3130	G 0.65est	GL 2035	Bar. Press. 12.0			
Producing Through:			Casing X		Tubing Single				
Date of Completion 11-3-67		Packer			Reservoir Temp. 103 °F				
OBSERVED DATA									
Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps	
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.	
SI						717		743	
1.									
2.									
3.		3/4	81		63			303	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.									
2.									
3.	12.365		93	0.9971	0.9608	1.000	1102		
4.									
5.									
PRESSURE CALCULATIONS									
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.				Specific Gravity Separator Gas _____					
Gravity of Liquid Hydrocarbons _____ deg.				Specific Gravity Flowing Fluid _____					
F _c _____				P _c 755 P _c ² 570,025					
No.	P _w P _t psia	P _t ²	(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.									
2.									
3.					99,225	470,800		1.2108	
4.									
5.									

ABSOLUTE POTENTIAL: 1.297 MCFPD; n 0.85/1.1765

COMPANY SHERMAN F. WAGENSELLER WITNESSED _____

ADDRESS 11950 SanVicente, L.A., Cal. COMPANY _____

AGENT AND TITLE Original Signed by MORRIS B. JONES Morris B. Jones, Engineer