

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

Form C-122

Revised 12-1-55

Pool Blanco Mesaverde				Formation Mesaverde				County San Juan			
Initial X		Annual		Special		Date of Test 11/27/65					
Company Astec Oil & Gas Company				Lease Decker "A"				Well No. 1			
Unit C	Sec. 3	Twp. 31N	Range 12W		Purchaser Southern Union Gathering						
Casing 4 1/2	Wt. 10.5	I.D. 4.052	Set at 5200'		Perf. 4850		To 5148				
Tubing 2-3/8	Wt. 4.7	I.D. 1.995	Set at 5135		Perf. pin collar 5135		To				
Gas Pay: From 4850		To 5148		L 5135		G .700 (est)		GL 3595		Bar. Press.	
Producing Through:		Casing		Tubing		Type Well - Single - Braden head - G.G. or G.O. Dual single gas					
Date of Completion 11/20/65		Packer None		Reservoir Temp.							
OBSERVED DATA											
Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps			
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.	
No.	Line Size	(Choke) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.		
1.	2"	7 days 3/4"				748		748			
2.						203	60°(est)	474	60°(est)	3 hr.	
3.											
4.											
5.											
FLOW CALCULATIONS											
No.	Coefficient (24 Hour)	$\sqrt{h_w p_t}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15.025 psia				
1.	12.365		215	1.000	.9258	1.026	2525				
2.											
3.											
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 _____ (1-e ^{-S}) _____						P _c 760 P _c ² 577,600					
No.	P _w psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-2S})	P _w ²	P _c ² - P _w ²	Cal P _w	P _w /P _c		
1.	486					236,196	341,404				
2.											
3.											
4.											
5.											

ABSOLUTE POTENTIAL: **3747** MCFPD; n **.75**

COMPANY **Astec Oil & Gas Company** WITNESSED _____

ADDRESS **P. O. Drawer 570, Farmington, N. Mex.** COMPANY _____

AGENT AND TITLE **C. E. Jamison**
C. E. Jamison, District Engineer

