

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

Form C-122

Revised 12-1-55

Pool Basin Dakota		Formation Dakota		County San Juan	
Initial X		Annual		Special	
Company Artec Oil and Gas		Lease Thompson		Date of Test 7/23/66	
Unit M		Sec. 33		Twp. 31N	
Casing 4 1/2		Wt. 10.5 & 11.6		Range 12W	
Tubing 2-3/8		Wt. 4.7		Purchaser Southern Union Gathering	
From 6732		To 6835		Perf. 6732	
Gas Pay: 6732		Casing 6835		To 6835	
Producing Through: 7/11/66		Packer none		Bar. Press. 4714	
Date of Completion 7/11/66		Reservoir Temp.		Type Well - Single - Braden head - G.G. or G.O. Dual single - gas	

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps			
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.	
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.		
1.											
2.	2"	3/4"	12 days			1816		1807			
3.						171	60(est)	473	60(est)	3 hr	
4.											
5.											
6.											

FLOW CALCULATIONS

	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		183	1.000	.9258	1.022	2141
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

1. Liquid Hydrocarbon Ratio _____ cf/bbl.
 2. Specific Gravity Separator Gas _____
 3. Gravity of Liquid Hydrocarbon _____ deg.
 4. Specific Gravity Flowing Fluid _____
 5. P_c _____ P_c² _____
 6. P_c _____ P_c² _____

	P _w P _t psia	P _t ²	F _c Q _c	(F _c Q _c) ²	(F _c Q _c) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	P _w / P _c
1.	485					235,225	3,106,359		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **2261** MCFPD; n **.75**

COMPANY **Artec Oil and Gas** WITNESSED _____

ADDRESS **Drawer 570 Farmington, New Mexico** COMPANY _____

AGENT AND TITLE **Carl E. Jameson**

District Engineer