

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

Form C-122
Revised 12-1-58

Pool Basia Dakota			Formation Dakota			County San Juan		
Initial X		Annual		Special		Date of Test 5/22/66		
Company Artec Oil & Gas			Lease Culpepper Martin			Well No. 3		
Unit N	Sec. 33	Twp. 32N	Range 12W		Purchaser Southern Union Gathering			
Casing 4 1/2	Wt. 10.5	I.D. 4.000	Set at 7120		Perf. 6923		To 7036	
Tubing 1 1/2	Wt. 2.75	I.D. 1.610	Set at 6870 KB		Perf. 6870		To	
Gas Pay: From 6923		To 7036		L 6870		G .700 (est)		GL 4809
Producing Through:		Casing		Tubing		Type Well - Single - Broken head - G.G. or G.O. Dual G G Dual		
Date of Completion 5/15/66		Packer 6870		Reservoir Temp.				

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.	Temp. °F.	
1.	2"	3/4"	7 days			1578				3 hr
2.						124	60 (est)			
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		136	1.000	.9258	1.015	1580
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/lbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c **16.46** (1-e^{-S}) _____ P_c **1590** P_c^2 **2,528,100**

No.	P_w 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	$\frac{P}{P_c}$
1.	136	18,496		676,364	199,527	218,023	2,300,077	467	
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **1696** MCFPD; $\bar{n}$ **.75**

COMPANY **Artec Oil and Gas**

WITNESSED _____

ADDRESS **Dumas 570, Farmington, New Mexico**

COMPANY _____

AGENT AND TITLE

District Engineer

RECEIVED

MAY 26 1966

OIL COM.