

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

Form O-122
Revised 12-1-55

Field: Falcher Hole No. 6.				Formation: Richard Mitter				County: Santa Fe			
Initial: ☒		Annual: ☐		Special: ☐		Date of Test: 4/22/66		Well No.:			
Company: Artes Oil and Gas				Lease: Block							
Unit: P	Sec: 7	Twp: 27 N	Range: 9 W	Purchaser: Southern Union Gas							
Casing: 3 1/2"	Wt: 6.5	I.D.: 3.068	Set at: 2501	Fert: 2454		To: 2448					
Tubing: 1"	Wt: 1.7	I.D.: 1.049	Set at: 2471	Fert: 2455		To: 2465					
Gas Flow: 2448	From: 2448	To: 2448	L: 2448	G: 700 (est)	GL:	Bar. Press:					
Producing Through: Casing ☒				Tubing: ☐				Type Well - Single - Braden head - G. I. or G.O. Dual			
Date of Completion: 4/25/66				Fracker: none				Reservoir Temp:			

OBSERVED DATA										
Producing Through: ☐ Over ☐ ☒ Under ☐ Meter ☐				Type of Taps:						
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.	
(Packer) (Casing) (Tubing) Size	Press. psig.	Diff. In. W.	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.			
2"	1 1/4"			98	60 (est)	148		3 hr		

FLOW CALCULATIONS						
Coefficient (1-Hour)	$\sqrt{\frac{h_w}{L}}$	Pressure psig.	Flow Temp Factor F_T	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow (M. F. D.) (psig. per ft.)
12.365		110	1.000	.9858	1.004	1877

PRESSURE CALCULATIONS									
Liquid Hydrocarbon Ratio _____ at/bbl.					Specific Gravity Separator Gas _____				
Gravity of Liquid Hydrocarbons _____ deg.					Specific Gravity Flowing Fluid _____				
P_c _____ (1-e ⁻⁸)					435	P_c²	190,096		
No.	$\frac{P_w}{P_c}$ psig.	P_c^2	$\frac{P_w}{P_c}$	$(\frac{P_w}{P_c})^2$	$(\frac{P_w}{P_c})^2 (1-e^{-8})$	P_c^2	$P_c^2 - P_w^2$	$\frac{Q_d}{P_w}$	$\frac{P_w}{P_c}$
1.	160					25,600	161,496		

ABSOLUTE POTENTIAL: **1445** MCFPD; n **.85**

COMPANY **Artes Oil and Gas** WITNESSED _____

ADDRESS **Box 970, Farmington New Mexico** COMPANY **Original Signed By**

AGENT AND TITLE **Carl E. Jameson, Dist. Eng.**

Carl E. Jameson

