

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-122
Revised 9-1-65

RECEIVED

MAY 3 1971

**OIL CON. COM.
DIST. 3**

☒ Initial		☐ Annual		☐ Special		Test Date 4-27-71	
Oil & Gas Company Artes Oil & Gas Company				Connection Southern Union Gathering			
Artes				Formation Pictured Cliffs			
Completion Date 4-20-71		Total Depth 5188		Plug Back TD 5188		Elevation 6221 DF	
Casing Size 4-1/2" 10.5#				Set At 5187'		Perforations: From 2740 To 2760	
Tag. Size 1-1/2" 2.9#				Set At 5038		Perforations: From ---- To ----	
Type Well - Single - Broadhead - G.G. or G.O. Multiple Multiple				Packer Set At 5007'		Well No. #1	
Pressure Unit Cust.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _c	
Country New Mexico				State San Juan			
H		Gg		% CO ₂		% N ₂	
				% H ₂ S		Prover	
						Meter Run	
						Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1	2"		3/4						809		
2									16		3 Hrs
3											
4											
5											
6											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (1/4 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mscf
1	12.565		28	1.0000	.9253	1.0000	320
2							
3							
4							
5							

NO.	P _c	Temp. °R	T _c	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/cu.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ XXXXXXXXX
3					Specific Gravity Flowing Fluid _____ XXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1758$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1475$
1	28	784	673.257			
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .367$

Flow Rate, Q, Mscf	367	Mscf @ 15.025	Angle of Slope @ _____	Slope, n _____
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Oil & Gas Commission	Conducted By:	Calculated By:	Checked By:
		<i>[Signature]</i>	