

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2008
SANTA FE, NEW MEXICO 87501Form O-127
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		8-3-84		
Company				Consolidated Oil & Gas, Inc.								
Pool				Undesignated								
Connection				El Paso Natural Gas Co.								
Formation				Fruitland								
Completion Date				6-7-84		Total Depth		2234		Plug Rock TD		
								2191		Elevation		
										5846 GL		
Casing Size				4 1/2		WT.		10.5#		Set At		
										2235		
Perforations				From		1732		To		2086		
Well No.				2		Unit		F		Sec.		
										24		
Tubing				1 1/2		WT.		2.4#		Set At		
										2080		
Type Well - Single - Brdenhead - G.C. or G.O. Multiple				Single		Packer Set At		None		County		
										San Juan		
Producing Thru				Tubing		Reservoir Temp. °F		84		Mean Annual Temp. °F		
										1745		
Baro. Press. - P _c				12.0		State		New Mexico		Prover		
										6" pos. choke nipple		
Casing Size				2" x 3/4"		Casing Temp. °F		60		Duration of Flow		
										3 hours		
RATE OF FLOW CALCULATIONS												
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mhd					
1	11.0		43	1.000	1.240	1.000	587					
2												
3												
4												
5												
NO.	P _r	Temp. °R	T _r	Z	Gas-Liquid Hydrocarbon Ratio _____ Mcf/Abl.							
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.							
2					Specific Gravity Separator Gas _____ X X X X X X X X							
3					Specific Gravity Flowing Fluid _____ X X X X X							
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.							
5					Critical Temperature _____ R _____ R							
NO.	P _r	P _w	P _c	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1440$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1211$							
1	575	204	330625	289009								
2												
3												
4												
5												
Absolute Open Flow					658		Mhd @ 15.025		Angle of Slope @		.85	
Remarks: Light water mist last 2 1/4 hours of test												
Approved By Division				Conducted By:				Calculated By:				
				Richard Housh				Richard Housh				
								Checked By:				