

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/7/84	
Company Consolidated Oil & Gas, Inc.				Connection Southern Union	
Pool Basin Dakota				Formation Dakota	
Completion Date 5/18/84		Total Depth 6570		Plug Back TD 6527	
				Elevation 5595	
Farm or Lease Name Nance				Well No. 1-E	
Csq. Size 5-1/2"	Wt. 15.5#	d 4.950	Set At 6569	Perforations: From 6279 To 6376	
Tng. Size 1-1/2"	Wt. 2.76#	d 1.610	Set At 6363	Perforations: From To	
Type Well - Single - Enderhead - G.C. or G.O. Multiple Dual				Packer Set At 5780	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
				Baro. Press. - P _a	
				State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S
FLOW DATA			TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1.	2" X 6" X 3/4"				
2.					
3.					
4.					
5.					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1.	11		144	1.000	1.24
2.					
3.					
4.					
5.					
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio
1.					A.P.I. Gravity of Liquid Hydrocarbons
2.					Specific Gravity Separator Gas
3.					Specific Gravity Flowing Fluid
4.					Critical Pressure
5.					Critical Temperature
$P_c = 1426$ $P_c^2 = 2033476$					
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	
1.		524	274.800	1758676	
2.					
3.					
4.					
5.					
$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1563$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1150$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2220.7$					
Absolute Open Flow 2220.7 Mcfd @ 15.025					
Angle of Slope @ 53.13					
Slope, n 0.75					
Remarks:					
Approved by Division		Conducted By:		Calculated By:	
				Checked By:	