

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: <u>5-4-73</u>	
Company: <u>Lively Exploration Co.</u>				Connection:			
Pool: <u>Basin - Dakota</u>				Formation: <u>Dakota</u>		Unit:	
Completion Date: <u>4-21-73</u>		Total Depth: <u>7575'</u>		Plug Back TD: <u>7528</u>		Elevation: <u>6371 RKB</u>	
Csg. Size: <u>4 1/2"</u>		Wt. <u>116 lb/10.5'</u>		Set At: <u>7580</u>		Perforations: From <u>7306</u> To <u>7528</u>	
Tbg. Size: <u>1 1/4"</u>		Wt. <u>2.46 lb/1.380'</u>		Set At: <u>7503</u>		Perforations: From <u>Open End</u> To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: <u>Single - Gas</u>						Packer Set At:	
Producing Thru:		Reservoir Temp. °F: <u>6</u>		Mean Annual Temp. °F:		Baro. Press. - P _a :	
L:		H:		G _g : <u>.65 est.</u>		% CO ₂ :	
				% N ₂ :		% H ₂ S:	
				Prover:		Meter Run:	
						Taps:	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
1							
2	<u>3/4" Pas Choke</u>			<u>164</u>		<u>55°</u>	
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	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2	<u>12.365</u>		<u>176</u>	<u>1.0048</u>	<u>.9602</u>	<u>1.018</u>	<u>21.39</u>
3							
4							
5							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
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		
$P_c = 2383$ $P_w^2 = 5,678,689$ NO. P_c^2 P_w P_w^2 $P_c^2 - P_w^2$					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6244$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4785$		
1					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3163$		
2		<u>1589</u>	<u>2,307,24</u>	<u>3,371,328</u>			
3							
4							
5							
Absolute Open Flow: <u>3163</u> Mcfd @ 15.025					Angle of Slope θ : _____		
Remarks: _____							
Approved By Commission:		Conducted By: <u>Jacobs & McNeill</u>		Calculated By: <u>Jacobs</u>		Checked By:	

