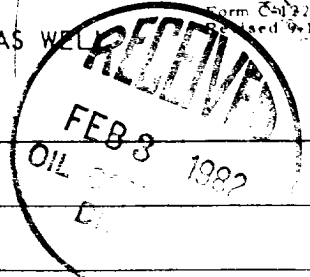


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form 541-22
Revised 9-1-65



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-21-81																																																																																															
Company LIVELY EXPLORATION COMPANY				Connection																																																																																																
Pool BASIN DAKOTA				Formation DAKOTA		Unit																																																																																														
Completion Date		Total Depth		Plug Back TD 7331		Elevation																																																																																														
Csg. Size		Wt.	d	Set At	Perforations: From 7156 To 7306																																																																																															
Tbg. Size 1 1/2		Wt.	d	Set At 7122	Perforations: From To																																																																																															
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At																																																																																															
Producing Thru TUBING		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a																																																																																														
L		H	Gg	% CO ₂	% N ₂	% H ₂ S																																																																																														
						Prover 2"X3/4" Pos. ck.																																																																																														
						Meter Run																																																																																														
						Taps																																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>SI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1988</td> <td></td> <td>1988</td> <td></td> <td>7 DAYS</td> </tr> <tr> <td>1.</td> <td>2"X3/4" POS. CK.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>26</td> <td>60</td> <td>406</td> <td>60</td> <td>3 hrs.</td> </tr> <tr><td>2.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>							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	SI							1988		1988		7 DAYS	1.	2"X3/4" POS. CK.						26	60	406	60	3 hrs.	2.												3.												4.												5.											
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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, Mcfd																																																																																													
1	11.0		.38	1.000	1.240	1.000	518.3																																																																																													
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NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ X X X X X X X X Specific Gravity Flowing Fluid _____ X X X X X Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R																																																																																															
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P _c 2000 P _c ² 4000.0 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>P_f²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1</td> <td></td> <td>418</td> <td>174.7</td> <td>3825.3</td> </tr> <tr><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> </table>					NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²	1		418	174.7	3825.3	2					3					4					5					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0457$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0340$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 535.9$																																																																	
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Absolute Open Flow 535.9					Mcf/d @ 15.025		Angle of Slope θ																																																																																													
							Slope, n .75																																																																																													
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