

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 5-4-73	
Company Lively Exploration Co.		Connection	
Field Basin - Dakota		Formation Dakota	
Completion Date 4-27-73		Total Depth 7540	Plug Back TD 7525
Elevation 6302 RKB		Farm or Lease Name Lively	
Well No. 9			
Well Size 4 1/2"	Wt. 11.6 #/ft.	d 4.052	Set At 7542
Perforations: From 7316 To 7524			
Well No.	Unit 0	Sec. 3	Twp. 29N
Range 20W			
Well Size 1 1/4"	Wt. 24"	d 1380"	Set At 7480
Perforations: From Open End To			
Type well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas		Packer Set At	
Producing Thru		Baro. Press. - P _a	
Reservoir Temp. °F e		Mean Annual Temp. °F	
State New Mexico			
L	H	G _g .65 cat	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.							2311		2466		7 days
2.	5/8" P.C. Choke			216		58°			1342		3 hrs
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2	2.5411		228	1.0019	.9608	1.024	1920
3							
4							
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2										
3										
4										
5										

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1				
2		1354	1,833,316	1,013,408
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4568$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3267$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2546$			

Absolute Open Flow 2546 Mcfd @ 15.025		Slope, n .75	
Remarks:			
Approved By Commission:		Conducted By: Jacobs & McLaughlin	
Calculated By: Jacobs		Checked By:	

