

1-Lively 1-EPNG (Texas)
1-Shryack 1-File

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-12-72			
Company Lively Exploration Company				Connection					
Pool Basin				Formation Dakota				Unit	
Completion Date 12-5-72		Total Depth 7125		Plug Back TD 7110		Elevation 6146		Farm or Lease Name Lively	
Csg. Size 4 1/2	Wt. 10.5 & 11.6	d	Set At 7125	Perforations: From 6873 To 7086				Well No. 1	
Thg. Size 1 1/4	Wt. 2.4	d	Set At 7040	Perforations: From Open End To				Unit Sec. Twp. Rge. I 27 28N 8W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At ---		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .65	% 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							2148		2114		7 days
1.											
2.											
3.	2"		3/4	148		50°			1150		3 hrs
4.											
5.											

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							
2							
3	12.3650		160	1.0098	0.9608	1.015	1949
4							
5							

NO.	P _t	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 2160 P_c² 4,665,600

NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4073$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.292$
1		1162	1,350,244	3,315,356		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2518$

Absolute Open Flow 2518 Mcfd @ 15.025		Angle of Slope @	Slope, n .75
Remarks: Light spray water and dist.			
Approved by Commission:		Conducted By: Jacobs	Calculated By: Dugan
		Checked By:	