

3-NMOCC
1-Lively
1-Shryack

1-EPNG (Ulrich)
1-EPNG (Texas)
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 2-4-73	
Company Lively Exploration Co.		Connection	
Pool Basin - Dakota		Formation Dakota	
Completion Date 1-4-73		Total Depth 6740'	
Plug Back TD 6692		Elevation 5774 RKB	
Farm or Lease Name Lively		Well No. 2	
Csg. Size 4 1/2"	Wt. 10.5#	d 4.052"	Set At 6732
Perforations: From 6448 To 6608		Well No.	
Tbg. Size 1 1/4"	Wt. 2.4#	d 1.380"	Set At 6601
Perforations: From Open End To		Unit Sec. Twp. Rge. E 21 28N 8W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas		Packer Set At	
Producing Thr. Csg.		Baro. Press. - P _a	
Reservoir Temp. °F 65 est.		Mean Annual Temp. °F	
State New Mexico		County San Juan	
L	H	G _g	% 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							2150		2132		70
1.											
2.											
3.	3/4" pos. choke			314			434				3 Hrs.
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							
3	12.365		326	1.0000	.9608	1.033	4001
4							
5							

NO.	P _t	Temp. °R	T _f	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

NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1						
2						
3		445	198,916	4,614,720	1.0431	1.0321
4						
5						

AOE = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ **4129**

Absolute Oper. Flow 4,129	Mcfd @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: **This well tested through tbg - csg annulus because of freezing problems when flowing through tbg - spray of high gravity clear condensate throughout test.**

Approved By/Commission:	Conducted By: Jacobs	Calculated By: Jacobs	Checked By:
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