NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8/25/81	
Company: LIVELY EXPLORATION CO.			Connection: NONE		
Pool: Basin Dakota			Formation: Dakota		Unit
Completion Date: 7/23/81	Total Depth: 6720'		Plug Back TD: 6720'	Elevation: 5990'GL	Farm or Lease Name: Lively
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.000	Set At: 6720'		Perforations: From 6568' To 6667'		Well No.: 21-E
Tbg. Size: 2.375 / Wt.: 4.70 / d: 1.995	Set At: 6555'		Perforations: From 6543' To 6553'		Unit: D / Sec.: 31 / Twp.: 27M / Rge.: 7W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			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	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6553'								

	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.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1700		1900		32 days
1.	Pitot Tube				1350		1675		3 hrs.
2.									
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	Pitot Tube						2830
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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DIST. 3

P_c 1912 P_c^2 3,655,744

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1687	2,845,969	809,775
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.5145$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.0971$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8764$

Absolute Open Flow _____ Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.75

Remarks: Seperator Back Pressure 350 psig.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bill Matthews	Dewayne Blancett	