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OIL CONSERVATION DIVISION

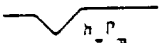
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator LOUIS DREYFUS				Lease or Unit Name LOCO HILLS 4 FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/9/99		Well No. 1	
Completion Date 12/8/99		Total Depth 11183		Plug Back TD 1114		Elevation 3532	
Casing Size 4 1/2		WL 11.6		d 4.000		Sec At 11183	
Log Size 2-3/8		WL 4.7		d 1.995		Sec At 10880	
Type Well - Single - Bradenhead - G.C. or G.C. Multiple single				Packer Set At 10880		Formation LOWER MORROW	
Producing Thru TBG		Reservoir Temp. °F 182.8		Mean Annual Temp. °F 60°		Baro. Press - lb 13.2	
L 10880		II 10880		Gg .660		% CO ₂ .066	
				% N ₂ 1.518		% H ₂ S -0-	
				Prover -0-		Meter Run 3.068	
						Taps FLG	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. psig.	Diff. h _u	Temp. °F	Press. psig.	Temp. °F	Press. psig.		Temp. °F
5.							3420		PKR		
1.	3.068 X 1.500			284.6	11"	61 °	3360		"		60 min
2.	3.068 X 1.500			294.9	25.6"	54.3 °	3300		"		60 min
3.	3.068 X 1.500			306.8	53.0"	47 °	3200		"		60 min
4.	3.068 X 1.500			314.2	122	54 °	3025		"		60 min
5.											

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (211 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mscf/d
1.							786
2.							1248
3.							1875
4.							2784
5.							

GAS VOLUME MEASURED BY TOTAL FLOW METER

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Moisture
1.					46.6	Dep
2.					.660	
3.					N/A	XXXXXXXXXX
4.					672	PSIA
5.					373	R

P _c 3433.2	P _c 11,786.9					
NO.	P _i ²	P _u	P _u ²	P _c ² - P _u ²	$1) \frac{P_c^2}{P_c^2 - P_u^2} = 5.13$ $2) \left[\frac{P_c^2}{P_c^2 - P_u^2} \right]^* = 3.20$	
1.	3376.4	11400.1	386.8			
2.	3321.4	11031.4	755.5		$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_u^2} \right]^* = 8908.8$	
3.	3231.9	10445.5	1341.4			
4.	3081.0	9492.6	2294.3			
5.						

Absolute Open Flow	8908.8	Mscf @ 15.025	Angle of Slope θ	54.57	Slope, n	.7114
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Remarks: * WELL MADE 2 BBLS OF 46.6 GRAVITY CONDENSATE DURING TEST

Approved By Division	Conducted By: PRO WELL TESTING	Calculated By: MB	Checked By: BM
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