

C15F

Submit in duplicate to appropriate district office. See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

30-015-31550

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator LOUIS DREYFUS				Lease or Unit Name: GERONIMO "34" ST. COM						
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/9/01		Well No. 2				
Completion Date		Total Depth 10600		Plug Back TD 10560		Elevation				
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 10600	Perforations: From: 10461 To: 10472		County EDDY				
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10334	Perforations: From: To:		Pool <i>Empire Penny</i>				
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10334		Formation MORROW				
Producing Thru TUBING		Reservoir Temp. °F 177.3	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2		Connection AIR				
L 10334	H 10334	Gg 0.631	%CO ₂ 0.427	%N ₂ 1.71	%H ₂ S N/A	Prover N/A	Meter Run 3.068	Taps FLG		
FLOW DATA				TUBING DATA				CASING DATA		
No.	Prover Line Size	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						2970	N/A	PKR	N/A	
1	3.068 X .875		210	6	78	2680				1 HR
2	3.068 X .875		200	23	82	2550				1 HR
3	3.068 X .875		210	45	78	2300				1 HR
4	3.068 X .875		210	82	86	2010				1 HR
5										
RATE OF FLOW CALCULATIONS										
No.	COEFFICIENT (24 Hour)		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	3.65		36.6	223.2	0.9831	1.259	1.044	172		
2	3.65		70	213.2	0.9795	1.259	1.043	328		
3	3.65		100.2	223.2	0.9831	1.259	1.044	472		
4	3.65		135.3	223.2	0.9759	1.259	1.042	632		
5										
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.					
1	0.8	538	1.49	0.918	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.					
2	0.8	542	1.5	0.92	Specific Gravity Separator Gas 0.631 XXXXXXXX					
3	0.8	538	1.49	0.918	Specific Gravity Flowing Fluid N/A XXXXXX					
4	0.8	546	1.51	0.921	Critical Pressure 672 P.S.I.A. P.S.I.A.					
5					Critical Temperature 361 R. R					
P _c 2983.2 P _{c2} 8899.5										
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.853$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.853$					
1	7253.3	2693.3	7253.6	1645.8	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1171$					
2	6570	2563.4	6571.1	2328.3						
3	5350.9	2313.7	5353.3	3546.2						
4	4093.3	2024.2	4097.6	4801.9						
5										
Absolute Open Flow 1171 Mcfd @ 15.025					Angle of Slope (°) 45		Slope n: 1			
Remarks: * NO LIQUID MADE DURING TEST.										
Approved By Division:			Conducted By: PRO WELL TESTING			Calculated By: MERV BUECKER			Checked By: BM	