

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

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MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator RICKS EXPLORATION				Lease or Unit Name GREENWOOD PRE GRAYBURG			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/24/01		Well No. 14	
Completion Date		Total Depth		Plug Back TD 13920		Elevation	
Csg. Size 4 1/2		Wt. 15.1		d 3.826		Set At	
Tbg. Size 2 7/8 2 3/8		Wt. 7.9 / 4.7		d 2.2698		Set At 13722	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 13722		Formation Shugart Ordovician Gas	
Producing Thru Tubing		Reservoir Temp. °F 211.2		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 13722		H 13722		Gg 0.615		%CO ₂ 0.188	
				%N ₂ 1.709		%H ₂ S N/A	
				Prover N/A		Meter Run 4.026	
						Taps FLG	
FLOW DATA				TUBING DATA			
CASING DATA				Duration of Flow			
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						4329	N/A
1	4.026 X 2.250		39.1	17.4	104	3040	
2	4.026 X 2.250		49.2	50.8	91	2359	
3	4.026 X 2.250		58.4	43.1	65	1775	
4	4.026 X 2.250		67.4	55.3	85	1194	
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							826
2							1224
3	TOTAL	FLOW	METER				1599
4							1987
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2					Specific Gravity Separator Gas 0.615 XXXXXXXX		
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid XXXXXX		
4					Critical Pressure 619 P.S.I.A. P.S.I.A.		
5					Critical Temperature 357 R. R.		
P _c	4342.2	P _c	18854.7				
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.088$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.088$		
1		3055.6	9336.8	9517.9			
2		2378.7	5658	13196.7			
3		1802.5	3249.1	15605.6			
4		1240.5	1538.8	17315.9			
5							
Absolute Open Flow 2161.8				Mcf/d @ 15.025		Angle of Slope (°): 45	
						Slope n: 1	
Remarks: * WELL MADE NO LIQUID DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	