

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator YATES PET.				Lease or Unit Name R.L.BURNS			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/23/03		Well No. 1	
Completion Date		Total Depth		Plug Back TD 12140		Elevation 22 15 35	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At	Perforations: From: 12004 To: 12050		County LEA	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11700	Perforations: From: To:		Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11700		Formation	
Producing Thru Tubing		Reservoir Temp. °F 187		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2	
Connection SALES							
L 11700	H 11700	Gg 0.823	%CO ₂ 10.652	%N ₂ 1.389	%H ₂ S N/A	Prover N/A	Meter Run 4.026
						Taps FLG	
FLOW DATA				TUBING DATA		CASING DATA	
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							
1	4.026 X 1.375		98	0.8	86	570	
2	4.026 X 1.375		102	1.7	92	550	
3	4.026 X 1.375		101	4.4	94	509	
4	4.026 X 1.375		101	7.4	94	463	
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							49
2							94
3	TOTAL	FLOW	METER				150
4							188
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		Mcf bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons		Deg.
2					Specific Gravity Separator Gas		
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid		
4					Critical Pressure		P.S.I.A.
5					Critical Temperature		R
P _c 601.2		P _{c2} 361.4					
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.694}{2.05}$		
1		583.2	340.2	21.3			
2		563.3	317.3	44.1			
3		522.5	273	88.4			
4		476.7	227.3	134.2			
5							
					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.385$		
Absolute Open Flow		0.385		Mcf @ 15.025		Angle of Slope (°) 54.07	
						Slope n: 0.7245	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division: 		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: MB	

**YATES PET.
R.L. BURNS #1**



