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

State of New Mexico
Energy, Minerals and Natural Resources Depa ent

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

CONFIDENTIAL

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Harvey E. Yates Company					Lease or Unit Name: Palmillo 6 State Com		
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 12/12/97	Well No.: 1	
Completion Date: 12/3/97	Total Depth: 11,590		Plug Back TD: 11,542		Elevation: 3388' GL	Unit Ltr. - Sec. - TWP - Rge.: K 6 19s 29e	
Csg. Size: 5½	Wt.: 17#	d: 4.892	Set At: 11,590	Perforations: From: 11,132 To: 11,152		County: Eddy	
Tbg. Size: 2 3/8	Wt.: 4.7#	d: 1.995	Set At: 11,043	Perforations: From: OPEN To: ENDED		Pool: North Turkey Track	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 11,043			Formation: Morrow	
Producing Thru: Tbg	Reservoir Temp. °F: 177 @ 11000	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2			Connection: LGE	
L: * 11000	H: 11000	Gg: 0.634	% CO_2: 0.70	% N_2: 0.44	% H_2S:	Prover:	Meter Run: 3.068	Taps: FLG

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					3315		PACKER		24 Hrs.
1.	3.068 x 2.250	219	19.2	59.6	2955				1 Hr.
2.	3.068 x 2.250	248.6	47	60.5	2640				1 Hr.
3.	3.068 x 2.250	257.7	64.2	64.8	2500				1 Hr.
4.	3.068 x 2.250	270.4	87.3	62.6	2290				1 Hr.
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, F pv.	Rate of Flow Q, Mcfd
1.	28.78	66.77	232.2	1.0000	1.256	1.022	2467
2.	28.78	111.01	262.2	.9990	1.256	1.026	4113
3.	28.78	131.95	271.2	.9952	1.256	1.027	4875
4.	28.78	157.24	283.2	.9972	1.256	1.028	5827
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.34	520	1.41	.957
2.	.39	521	1.41	.950
3.	.40	525	1.42	.949
4.	.42	523	1.42	.947
5.				

Gas Liquid Hydrocarbon Ratio: 137.069 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 50.6 @ 60° Deg.
Specific Gravity Separator Gas: 0.634 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. 670 P.S.I.A.
Critical Temperature: 368 R 368 R

P_c 3399.7 P_c^2 11558.0

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		3055.6	9336.7	2221.3
2.		2813.6	7916.3	3641.7
3.		2713.5	7363.1	4194.9
4.		2580.2	6657.4	4900.6
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.358$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.358$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 13,740$

Absolute Open Flow: 13,740 Mcfd @ 15.025 | Angle of Slope θ: 45.00 | Slope, n: 1.000

Remarks: Well made 6 Bbls condensate during test

* BHP instrument set at this depth

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Jarrel Services, Inc.	Bob Murray	Bob Murray