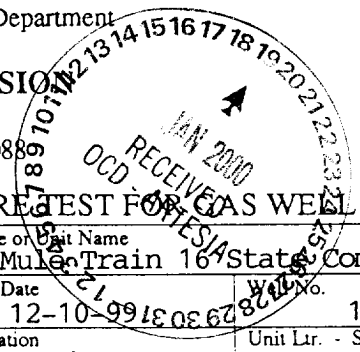
Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Yates Drilling Company						Lease or Unit Name: Mule Train 16 State Com			
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 12-10-99		Well No.: 1	
Completion Date: 12-3-99		Total Depth: 10250		Plug Back TD: 10,190'		Elevation: 3540' GL		Unit Ltr. - Sec. - TWP - Rge.: G 16 17s 28e	
Csg. Size: 5½	Wt.: 17#	d: 4.892	Set At: 10250	Perforations: From: 9853	To: 9877			County: Eddy	
Tbg. Size: 2 7/8	Wt.: 6.5#	d: 2.441	Set At: 9700	Perforations: From: Open	To: Ended			Pool: ~~Red Lake Morrow~~ Empire Penn	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 9700				Formation: ~~Morrow~~ Penn	
Producing Thru: Tbg	Reservoir Temp. °F: 151@9675	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2				Connection: Agave	
L: 9700	H: 9700	Gg: 0.652	% CO_2: 0.490	% N_2: 0.511	% H_2S:	Prover:		Meter Run: 4.026	Taps: FLG

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2056		PACKER		72 Hrs.
1.	4.026 x 1.500	591	7.50	68	1901				1 Hr.
2.	4.026 x 1.500	604	17.00	70	1732				1 Hr.
3.	4.026 x 1.500	612	30.50	71	1583				1 Hr.
4.	4.026 x 1.500	620	49.10	72	1437				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.	10.84	67.32	604.2	.9924	1.238	1.062	952
2.	10.84	102.43	617.2	.9905	1.238	1.062	1446
3.	10.84	138.09	625.2	.9896	1.238	1.064	1951
4.	10.84	176.32	633.2	.9887	1.238	1.064	2489
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.90	528	1.40	.887
2.	.92	530	1.41	.886
3.	.93	531	1.41	.884
4.	.94	532	1.41	.883
5.				

Gas Liquid Hydrocarbon Ratio 162.810 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 59 @ 60 Deg.
Specific Gravity Separator Gas .652 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX GMIX = .670
Critical Pressure 670 P.S.I.A. 669 P.S.I.A.
Critical Temperature 375 R 382 R

P_c 2069.2 P_c^2 4281.6

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1916.4	3672.6	609.0
2.		1750.8	3065.3	1216.3
3.		1607.4	2583.8	1697.8
4.		1470.5	2162.5	2119.1
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.020$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.003$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.985$

Absolute Open Flow 4,985 Mcfd @ 15.025 Angle of Slope θ 45.34 Slope, n .9881

Remarks: Well produced 1.75 bbls/condensate during test

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