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

30-015-30403

State of New Mexico
Energy, Minerals and Natural Resources Department

C-104

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: Burlington Resources Oil & Gas Company				Lease or Unit Name: Mewhinney 16 State	
Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 4-19-99	Well No.: 1
Completion Date: 3-2-99	Total Depth: 13309		Plug Back TD	Elevation: 3212'	Unit Ltr. - Sec. - TWP. - Rge.: 16 - 26-S - 31-E
Csg. Size: 7"	Wt.: 26#	d: 6.276	Set At: 12,214'	Perforations: From: 12664 To: 13021	County: Eddy
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 11921	Perforations: From: To:	Pool: Phantom Draw Wolfcamp Gas
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single -Horizontal			Packer Set At: 11921		Formation: Wolfcamp
Producing Thru: tbg	Reservoir Temp. °F: 193.5	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2		Connection: Sales
L: 11950	H: 11950	Gg: .696	% CO_2: .289	% N_2: .510	% H_2S:	Prover: 0	Meter Run: 4.026	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							4580		pkg		
1.	2.00	x	4.026	89	8.1	88°	4420		pkg		60 min
2.	2.00	x	4.026	174	10.8	75°	4280		pkg		
3.	2.00	x	4.026	275	18.2	63°	4110		pkg		
4.	2.00	x	4.026	310	22.0	55°	3680		pkg		
5.											

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.	19.81	28.7	102.2	.9741	1.199	1.053	699
2.	19.81	44.9	187.2	.9859	1.199	1.056	1110
3.	19.81	72.4	288.2	.9971	1.199	1.060	1817
4.	19.81	84.3	323.2	1.005	1.199	1.062	2137
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.81	548	1.42	.902
2.	.79	535	1.39	.896
3.	.77	523	1.36	.890
4.	.76	515	1.34	.886
5.				

Gas Liquid Hydrocarbon Ratio: N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: .696 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 384 R R

P_c 4593.2 P_c^2 21097.5

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		4434.1	19661.0	1436.5
2.		4295.4	18450.6	2646.9
3.		4129.2	17050.7	4046.8
4.		3702.0	13704.9	7392.5
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.85$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.11$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.518$

Absolute Open Flow: 4,518 Mcfd @ 15.025 | Angle of Slope θ: 54.44 | Slope, n: .714

Remarks: *No liquid made during test

Approved By Division	Conducted By: Pro Well Testing	Calculated By: MB	Checked By: BM