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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Primero Operating Inc.							Lease or Unit Name: Tilley		
Type Test: [X] Initial [ ] Annual [ ] Special							Test Date: 7-13-98	Well No.: 1	
Completion Date: 7-10-98		Total Depth: 11542		Plug Back TD: 11542			Elevation: 3965 GL	Unit Ltr. - Sec. - TWP - Rge.: N 26- 16S-35E	
Csg. Size: 5½	Wt.: 20	d:	Set At:	Perforations: From: 11430		To: 11488		County: Lea	
Tbg. Size: 2-7/8	Wt.: 6.5	d:	Set At: 11257	Perforations: From:		To:		Pool: Shoebar	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 11257				Formation: Atoka	
Producing Thru: Tbg.	Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press - P_a			Connection	
* L: 11459	H: 11459	Gg: .691	% CO_2: .556	% N_2: 1.449	% 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						2369		PKR		72 Hours
1.	3	X 1.000	128	2.89	40	2130		"		1 Hour
2.	3	X 1.000	130	16.81	35	1595		"		1 Hour
3.	3	X 1.000	130	28.09	38	1270		"		1 Hour
4.	3	X 1.000	130	36.00	38	750		"		1 Hour
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.	4.789	20.20	141.2	1.020	1.203	1.017	120
2.	4.789	49.06	143.2	1.025	1.203	1.017	295
3.	4.789	63.42	143.2	1.022	1.203	1.017	380
4.	4.789	71.80	143.2	1.022	1.203	1.017	430
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.21	500	1.29	.967
2.	.21	495	1.28	.966
3.	.21	498	1.29	.967
4.	.21	498	1.29	.967
5.				

Gas Liquid Hydrocarbon Ratio 10.208 Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons 60.9 @ 60° Deg.
Specific Gravity Separator Gas .691 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX GMIX = .946
Critical Pressure **669 P.S.I.A. 660 P.S.I.A.
Critical Temperature **385 R 468 R

*** P_c 3316.4 P_c^2 10998.5

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	***	3101.0	9616.2	1382.3
2.	***	2630.4	6919.0	4079.5
3.	***	2239.6	5015.8	5982.7
4.	***	1682.4	2830.5	8168.0
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.838$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.616$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .614$

Absolute Open Flow 614 Mcfd @ 15.025 | Angle of Slope θ 51.76 | Slope, n .7878

Remarks: * = BHP INSTRUMENT SET @ THIS DEPTH
** = CORRECTED TO 1.449 N2 & .556 CO2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	West-Test, Inc.	BM	BM

*** = BHP's CORRECTED BACK TO SURFACE PRESSURE

PRIMERO OPERATING

TILLEY # 1