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: Louis Dryfuss					Lease or Unit Name: Firewood TO			
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 8-3-99		Well No.: 1	
Completion Date: 7-28-99	Total Depth: 10444		Plug Back TD:		Elevation:		Unit Ltr. - Sec. - TWP. - Rge.: H 10 18-S 28-E	
Csg. Size: 7"	Wt.: 26#	d: 6.276	Set At: 10444	Perforations: From: 8720	To: 8866		County: Eddy	
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At:	Perforations: From:	To:		Pool: Illinois Camp Cisco	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 8606				Formation: Cisco	
Producing Thru: TBG	Reservoir Temp. °F: 140.4	Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2				Connection: Air	
L: 8606	H: 8606	Gg: .765	% CO_2: 1.075	% N_2: 1.872	% H_2S: 0	Prover: 0	Meter Run: 4.026	Taps: F/G

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. psig.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2085	N/A	PKR		
1.	4.026 X 1.000	90	1	82°	2076				60 min
2.	4.026 X 1.000	90	8	87°	2044				60 min
3.	4.026 X 1.000	90	40	78°	1930				60 min
4.	4.026 X 1.000	90	71	75°	1640				60 min
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.	4.753	10.1	103.2	.9795	1.143	1.068	57
2.	4.753	28.7	103.2	.9750	1.143	1.065	161
3.	4.753	64.2	103.2	.9831	1.143	1.069	366
4.	4.753	85.5	103.2	.9859	1.143	1.069	489
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.81	542	1.33	.876
2.	.81	547	1.35	.882
3.	.80	538	1.32	.875
4.	.80	535	1.32	.875
5.				

Gas Liquid Hydrocarbon Ratio: N/A Mcf/bbl
A.P.I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: .765 XXXXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 669 PSIA PSIA
Critical Temperature: 405 R R

P_c 2151.6 P_c^2 4629.4

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		2161.1	4670.4	-41
2.		2139.2	4576.2	53.2
3.		2093.6	4383.2	246.2
4.		1875.6	3517.9	1111.5
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.80$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.35$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1149$

Absolute Open Flow: 1149 Mcfd @ 15.025 | Angle of Slope θ: 57.3 | Slope, n: 6406

Remarks: *Calculated from known bottom hole pressures
*No liquid made during test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testing	M.B.	B.M.