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: Mitchell Energy Corporation					Lease or Unit Name: Corral Fly "35" Fed Com			
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 11/18/93		Well No.: 1	
Completion Date: 11/17/93		Total Depth: 14,000'		Plug Back TD: 13,911'	Elevation: 3074' KB		Unit Ltr. - Sec. - TWP - Rge.: F 35 24S 29E	
Csg. Size: 4.5"	Wt.: 13.5#	d: 3.920"	Set At: 13,998'	Perforations: From: 13,466' To: 13,474'			County: Eddy	
Tbg. Size: 2 3/8"	Wt.: 4.7#	d: 1.995"	Set At: 13,466'	Perforations: From: To:			Pool: Owen Mesa Morrow	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single				Packer Set At: 13,388'			Formation: Morrow	
Producing Thru: tbg	Reservoir Temp. °F: 197	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2			Connection: atmosphere	
L: 13350	H: 13350	Gg: 0.573	% CO_2: 0.87	% N_2: 0.67	% H_2S: 0-	Prover	Meter Run: 4.026	Taps: flange

	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					2560		Pkr		
1.	4.026 x 1.5	500	8	112	2320	58			1 hr
2.	4.026 x 1.5	500	22	100	2050	58			1 hr
3.	4.026 x 1.5	500	42	105	1650	58			1 hr
4.	4.026 x 1.75	550	38	105	1080	59			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	64.08	513.2	.9535	1.321	1.028	899
2.	10.84	106.26	513.2	.9636	1.321	1.029	1509
3.	10.84	153.80	563.2	.9594	1.321	1.031	2179
4.	10.84	146.29	563.2	.9594	1.321	1.031	2854
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.76	572	1.65	.947
2.	.76	560	1.62	.944
3.	.84	565	1.63	.940
4.	.84	565	1.63	.940
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.573 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
Critical Temperature 346 R _____ R

P_c _____ P_c^2 _____

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		2294.0	5262.44	1180.02
2.		2089.4	4365.59	2076.87
3.		1748.2	3056.20	3386.26
4.		1286.4	1654.82	4787.64
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.34564$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.26108$ Post FD-2

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3599$

Absolute Open Flow 3599 Mcfd @ 15.025 Angle of Slope θ 52° Slope, n .78137

Remarks: Made 1.5 bbls water during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testers	KS	Greg Colburn