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: Mewbourne Oil Company					Lease or Unit Name: Esperanza "28" Fee Com			
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 2/1/00		Well No.: 1	
Completion Date: 1/14/00		Total Depth: 11,900'		Plug Back TD: 11,814'	Elevation: 3160'		Unit Ltr. - Sec. - TWP - Rge.: L-28-21S-27E	
Csg. Size: 5-1/2"	Wt.: 17#	d: 4.892"	Set At: 11,900'	Perforations: From: 11,464' To: 11,484'			County: Eddy	
Tbg. Size: 2-7/8"	Wt.: 6.5#	d: 2.441"	Set At: 11,107'	Perforations: From: To:			Pool: Burton Flat Morrow	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 11,092'			Formation: Morrow	
Producing Thru: Tubing	Reservoir Temp. °F: 184		Mean Annual Temp. °F: 60	Baro, Press - P_a: 13.2			Connection: Sales	
L	H	Gg: 0.591	% CO_2: 1.820	% N_2: 0.517	% H_2S: 0	Prover	Meter Run	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					2250				24 hrs
1.	3.068"X1.500"	500	10	46	1971				24 hrs
2.	3.068"X1.500"	450	22	45	1921				24 hrs
3.	3.068"X1.625"	400	48	48	1895				24 hrs
4.	3.068"X1.875"	420	57	50	1700				24 hrs
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.							1039
2.	Volumes measured by Total Flow meter						1463
3.							2424
4.							3809
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: No liquids Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: NA Deg.
Specific Gravity Separator Gas: 0.591 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 673 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 352 R ____ R

P_c 2851 P_c^2 8128

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		2823	7969	159
2.		2756	7596	532
3.		2733	7469	659
4.		2488	6190	1938
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.194$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.111$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8039$

Absolute Open Flow: 8,039 Mcfd @ 15.025
Angle of Slope θ: 62.5
Slope, n: 0.521

Remarks: No liquids produced during test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	AO	JE	