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

State of New Mexico
Energy, Minerals and Natural Resources Dep ment

Form C-122 A
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: Federal N		
Type Test: [X] Initial [ ] Annual [ ] Special							Test Date: 4-11-94		Well No.: 1
Completion Date: 2-3-94		Total Depth: 11,500		Plug Back TD: 10,910			Elevation: 3595' GL		Unit Ltr. - Sec. - TWP - Rge.: M 6-22s-26e
Csg. Size: 5½	Wt.: 17# / 20#	d: 4.892 / 4.788	Set At: 11,500	Perforations: From: 10,264 To: 10,272					County: Eddy
Tbg. Size: 2 3/8	Wt.: 4.7#	d: 1.995	Set At: 10,142	Perforations: From: Open To: Ended					Pool: Hackberry Hills
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 10,142					Formation: Atoka
Producing Thru: Tubing	Reservoir Temp. °F: 173° @ 10268	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2					Connection: El Paso
** L: 10268	H: 10268	Gg: .629	% CO_2: .56	% N_2: 1.02	% H_2S: -	Prover: -		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							1240		PKR		87 Hrs.
1.	4	x	1.000	36	4.00	64	1000		"		1 Hr.
2.	4	x	1.000	36	8.41	70	650		"		1 Hr.
3.	4	x	1.000	34	12.25	75	340		"		1 Hr.
4.	4	x	1.000	17	37.21	75	110		"		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.	4.753	14.03	49.2	.9962	1.261	1.004	84
2.	4.753	20.34	49.2	.9905	1.261	1.004	121
3.	4.753	24.05	47.2	.9859	1.261	1.004	143
4.	4.753	33.52	30.2	.9859	1.261	1.003	199
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.07	524	1.44	.992
2.	.07	530	1.46	.993
3.	.07	535	1.47	.993
4.	.04	535	1.47	.994
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .629 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: * 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature: * 362 R ____ R

P_c 1626.2 P_c^2 2644.5

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1390.5	1933.5	711.0
2.		1110.6	1233.4	1411.1
3.		828.8	686.9	1957.6
4.		591.9	350.3	2294.2
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.153$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.153$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .229$

Absolute Open Flow: 229 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: ** BHP Instrument Set @ This Depth
* Corrected to 1.00% N_2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Mewbourne Oil Company	Bob Murray	Bob Murray