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: ILLINOIS CAMP ST. 1	
Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7-25-94	Well No.: 20
Completion Date: 5-28-94	Total Depth: 10640	Plug Back TD: 10550		Elevation: RECEIVED	Unit Ltr. - Sec. - TWP - Rge.: 20 18S 28E
Csg. Size: 5½ / Wt.: 17# / d: / Set At: 10640		Perforations: From: 10259 To: 10516			County: EDDY
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: / Set At: 10147		Perforations: From: To:		O. C. D. ARTESIA,	Pool: Illinois Camp Morrow
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single		Packer Set At: 10147			Formation: MARROW
Producing Thru: TBG	Reservoir Temp. °F: 158	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2		Connection: PIPELINE

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
*10386.5	10386.5	.668	.99	.58			3.068	FLG.

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI					1350		PKR		
1.	3.068 X .750	400	2	86	1340		"		1 hr.
2.	3.068 X .750	400	8	87	1325		"		1 hr.
3.	3.068 X .750	400	47	95	1305		"		30 min
4.	3.068 X 1.250	420	8	102	1275		"		30 min
5.	3.068 X 1.250	520	38	102	1070		"		1 hr.

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.	2.672	28.75	413.2	.9759	1.224	1.037	95
2.	2.672	57.49	413.2	.975	1.224	1.037	190
3.	2.672	139.36	413.2	.9680	1.224	1.037	458
4.	7.577	58.87	433.2	.9619	1.224	1.034	543
5.	7.577	142.34	533.2	.9619	1.224	1.042	1323

NO.	P_r	Temp. °R	T_r	Z
1.	.61	546	1.45	.930
2.	.61	547	1.45	.930
3.	.61	555	1.47	.930
4.	.64	562	1.49	.936
5.	.79	562	1.49	.921

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .668 XXXXXXXXX
Specific Gravity Flowing Fluid: DRY XXXXX
Critical Pressure: 674 P.S.I.A. P.S.I.A.
Critical Temperature: 377 R R

P_c _____ P_c^2 _____

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1278.5	1634.56	16.15
2.		1272.6	1619.51	31.20
3.		1234.8	1524.73	125.98
4.		1225.7	1502.34	148.37
5.		1051.5	1105.65	545.06

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.029$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.119$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,803$

Absolute Open Flow: 2,803 Mcfd @ 15.025 | Angle of Slope θ: 56 | Slope, n: .67778

Remarks: * BHP INFO OBTAINED AT THIS DEPTH
NO FLUID MADE DURING TEST.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTER GM	KS	BM