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

State of New Mexico
Energy, Minerals and Natural Resources Departm.

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: PHILLIPS PETROLEUM COMPANY						Lease or Unit Name: BILBREY 34 FEDERAL Com		
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 4/3/92	Well No.: ~~GOM~~. NO. 1	
Completion Date: 3/23/92		Total Depth: 14,990'		Plug Back TD: 14,900'		Elevation: 3737' GL	Unit Ltr. - Sec. - TWP - Rge.: N, 34, 21-S, 32-E	
Csg. Size: 4½"	Wt.: 13.5#	d:	Set At: 11685'	Perforations: From: 14467'	To: 14612'		County: EDDY	
Tbg. Size: 2 3/8"	Wt.:	d: 2.441	Set At: 14362'	Perforations: From:	To:		Pool: Bilbrey (Morrow)	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 14362'			Formation: Morrow	
Producing Thru: TUBING	Reservoir Temp. °F	Mean Annual Temp. °F		Baro. Press - P_a			Connection	
L: 14350	H: 14350	Gg: .592	% CO_2: 0.92	% N_2: 0.18	% 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						4147		pkr		180 hr
1.	4	X 1.500	500	5.00	64	3335		pkr		1 hr
2.	4	X 1.500	500	7.00	74	3015		pkr		1 hr
3.	4	X 1.500	500	12.00	70	2495		pkr		1 hr
4.	4	X 1.500	500	18.00	72	1982		pkr		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	50.66	513.2	.9962	1.300	1.045	743
2.	10.84	59.94	513.2	.9868	1.300	1.040	867
3.	10.84	78.48	513.2	.9905	1.300	1.040	1139
4.	10.84	96.11	513.2	.9887	1.300	1.040	1393
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.76	524	1.48	.915
2.	.76	534	1.51	.924
3.	.76	530	1.50	.924
4.	.76	532	1.50	.924
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .592 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 354 R R

P_c 4267.7 P_c^2 18213.3

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	**	3537.8	12516.0	5697.3
2.	**	3206.0	10278.4	7934.9
3.	**	2694.9	7262.5	10950.8
4.	**	2194.6	4816.3	13397.0
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.360$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.277$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.779$

Absolute Open Flow: 1,779 Mcfd @ 15.025 Angle of Slope θ: 51.5 Slope, n: .795

Remarks: NO FLUID PRODUCED DURING TEST

* BHP INSTRUMENT SET @ THIS DEPTH. ** PRESSURES FROM KNOWN BHP'S.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	WEST ENGINEERING	GW & WS	GW & BM