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: Nearburg Producing Company				Lease or Unit Name: Diamondback 25 Federal Com	
Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6/28/00	Well No.: 1
Completion Date: 4/13/00	Total Depth: 13850		Plug Back TD: 13800	Elevation: 3580' GL	Unit Ltr. - Sec. - TWP - Rge.: P 25 19s 32e
Csg. Size: 5½	Wt.: 17# / 20#	d: 4.892 / 4.778	Set At: 13850	Perforations: From: 13408 To: 13652	County: Lea
Tbg. Size: 2 3/8	Wt.: 4.7#	d: 1.995	Set At: 13284	Perforations: From: Open To: Ended	Pool: Gem
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 13284		Formation: Morrow
Producing Thru: Tbg	Reservoir Temp. °F: 186.2@13284	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2		Connection: LG&E

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13284	13284	0.653	0.697	0.525			3.068	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					1935		PACKER		48 Hrs
1.	3.068 x 1.500	520.0	3.24	85	1832		"		1 Hr
2.	3.068 x 1.500	534.0	13.00	79	1728		"		1 Hr
3.	3.068 x 1.500	550.0	28.10	78	1572		"		1 Hr
4.	3.068 x 1.500	565.0	46.24	78	1364		"		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.	11.13	41.56	533.2	.9768	1.237	1.048	586
2.	11.13	84.34	547.2	.9822	1.237	1.052	1200
3.	11.13	125.80	563.2	.9831	1.237	1.054	1795
4.	11.13	163.51	578.2	.9831	1.237	1.056	2337
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.79	545	1.45	.911
2.	.81	539	1.43	.904
3.	.84	538	1.43	.900
4.	.86	538	1.43	.896
5.				

Gas Liquid Hydrocarbon Ratio: 36.803 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 57 @ 60 Deg.
Specific Gravity Separator Gas: 0.653 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX GMIX = .731
Critical Pressure: 669 P.S.I.A. 668 P.S.I.A.
Critical Temperature: 388 R 401 R

P_c 1948.2 P_c^2 3795.5

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1848.5	3417.0	378.5
2.		1755.9	3083.1	712.4
3.		1621.3	2628.5	1167.0
4.		1447.9	2096.5	1699.0
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.234$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.846$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.314$

Absolute Open Flow: 4,314 Mcfd @ 15.025 | Angle of Slope θ: 52.66 | Slope, n: .7628

Remarks: Well produced 6.7 bbls condensate

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Jarrel Services, Inc.	Bob Murray	Bob Murray

NEARBURG PRODUCING COMPANY

DIAMONDBACK 25 FED. COM. # 1