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

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

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: Meridian Oil, Inc.					Lease or Unit Name: Brownlee		
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 3-26-94	Well No.: 2	
Completion Date: 3/21/94	Total Depth: 3700		Plug Back TD: 3656		Elevation: 3531'	Unit Ltr. - Sec. - TWP - Rge.: 25 - 21 - 36	
Csg. Size: 4½	Wt.: 11.6	d:	Set At: 3700	Perforations: From: 3434 To: 3576		County: Lea	
Tbg. Size: 2-3/8	Wt.: 4.7	d: 1.995	Set At: 3372.15	Perforations: From: To:		Pool: Eumont	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: None		Formation: Queens	
Producing Thru: Tbg	Reservoir Temp. °F: 105 @ 3400'	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2		Connection: Vented	
L: 3372.15	H: 3372.15	Gg: .849	% CO_2: 17.28	% N_2: .51	% H_2S: .56	Prover: 2"	Meter Run:	Taps:

	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						161		160		24 HOURS
1.	2"	X 1/8	52		68	157		157		30 MIN.
2.	2"	X 1/8	60		65	112		113		1 HOUR
3.	2"	X 1/8	80		68	87		88		90 MIN.
4.	2"	X 1/4	35		61	45		46		1 HOUR
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.	.2648		65.2	.9924	1.085	1.003	19
2.	.2648		73.2	.9952	1.085	1.003	21
3.	.2648		93.2	.9924	1.085	1.009	27
4.	1.087		48.2	.9990	1.085	1.004	57
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.08	528	1.29	.995
2.	.09	525	1.28	.994
3.	.12	528	1.29	.984
4.	.06	521	1.27	.993
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .849 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: * 738 P.S.I.A. P.S.I.A.
Critical Temperature: *409 R R

P_c 174.2 P_c^2 30.3

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		170.2	29.0	1.3
2.		126.2	15.9	14.4
3.		101.2	10.2	20.1
4.		59.2	3.5	26.8
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.131$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.131$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .064$

Absolute Open Flow: 64 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: NO FLUID PRODUCED DURING TEST
* = CORRECTED TO 17.28% CO2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	WEST-TEST, INC.	B.M.	B.M.