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: Meridian Oil Inc.						Lease or Unit Name: Rhodes G S U		
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 10-10-91	Well No.: 26	
Completion Date: 9-01-91		Total Depth: 3100		Plug Back TD: 3058		Elevation: 2977' GR	Unit Ltr. - Sec. - TWP - Rge.: C 8 26-S 37-E	
Csg. Size: 4½	Wt.: 11.0	d:	Set At: 3100	Perforations: From: 2815	To: 3017		County: Lea	
Tbg. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 2750	Perforations: From:	To:		Pool: Rhodes-Yates-7 Rive	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: None			Formation: Yates 7 R-Queens	
Producing Thru: Tubing	Reservoir Temp. °F	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2			Connection: vented	
L: 2750	H: 2750	Gg: .692	% CO_2: 1.54	% N_2: 1.39	% H_2S:	Prover:	Meter Run: 2.067	Taps: flange

	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						210		210		72 hrs.
1.	2	X 1.000	30	2.00	78	199		210		1 hr.
2.	2	X 1.500	30	8.00	78	189		210		1 hr.
3.	2	X 1.500	30	15.00	78	177		210		1 hr.
4.	2	X 1.500	30	21.50	78	166		210		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.	4.946	9.30	43.2	.9831	1.202	1.005	55
2.	12.76	18.59	43.2	.9831	1.202	1.005	282
3.	12.76	25.46	43.2	.9831	1.202	1.005	386
4.	12.76	30.48	43.2	.9831	1.202	1.005	462
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.06	538	1.40	.991
2.	.06	538	1.40	.991
3.	.06	538	1.40	.991
4.	.06	538	1.40	.991
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .692 XXXXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: *664 P.S.I.A. P.S.I.A.
Critical Temperature: *384 R R

P_c 223.2 P_c^2 49.8

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		212.3	45.1	4.8
2.		204.4	41.8	8.0
3.		194.6	37.9	11.9
4.		185.9	34.6	15.3
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.255$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.437$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.126$

Absolute Open Flow: 1,126 Mcfd @ 15.025
Angle of Slope θ: 53
Slope, n: .7548

Remarks: *=corrected to 1.54 % CO_2 & 1.39% N_2
NO FLUID PRODUCED DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testers	BM	BM