Submit in duplicate to appropriate district office
Sec 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: Meridian Oil Company					Lease or Unit Name: Rhodes G S U		
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 10-18-91	Well No.: 28	
Completion Date: 09-27-91	Total Depth: 3160		Plug Back TD: 3155		Elevation:	Unit Ltr. - Sec. - TWP - Rge.: 8 26-S 37-E	
Csg. Size: 4½	Wt.: 11.6	d: 3.920	Set At: 3160	Perforations: From: 2939	To: 3131	County: Lea	
Tbg. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 2872	Perforations: From:	To:	Pool: Rhodes-Yates-7Rvrs	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: None			Formation: Yates	
Producing Thru: casing	Reservoir Temp. °F: 103 @ 2939	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2			Connection: Vented	
L: 2872	H: 2872	Gg: .733	% CO_2: 5.76	% N_2: 1.74	% 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					60		168		72 hrs.
1.	2 X .750	16	12.00	60	19		22		24 hrs.
2.									
3.									
4.									
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.	2.709	18.72	29.2	1.000	1.168	1.004	60
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.04	520	1.33	.992
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .733 XXXXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: *688 P.S.I.A. P.S.I.A.
Critical Temperature: *389 R R

P_c 181.2 P_c^2 32.8

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		29.3	.9	32.0
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.027$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.027$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .062$

Absolute Open Flow: 62 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: *=corrected to 5.76% CO_2 & 1.74% N_2
NO FLUID PRODUCED DURING TEST

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