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: S.R. Cooper			
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 5-2-95		Well No.: 3	
Completion Date		Total Depth: 3300		Plug Back TD	Elevation: 3347 GL		Unit Ltr. - Sec. - TWP - Rge.: J 23- 24- 36	
Csg. Size: 5½	Wt.: 14#	d	Set At: 3300	Perforations: From: 2759	To: 2952		County: Lea	
Tbg. Size: 2-7/8	Wt.: 6.5	d: 2.441	Set At: 2675	Perforations: From:	To:		Pool: Jalmat	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 2675			Formation: Tansill-Yates	
Producing Thru: Tbg	Reservoir Temp. °F: 96° @ 2759		Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2			Connection: Sid Richardson	
L: 2759	H: 2759	Gg: .719	% CO_2: .08	% N_2: 21.94	% H_2S:	Prover:	Meter Run: 6.065	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						1130		Pkr		24 Hours
1.	6	X 2.500	12.0	2.00	68	1035		"		1 Hour
2.	6	X 2.500	16.5	11.10	63	775		"		1 Hour
3.	6	X 2.500	17.2	13.52	64	585		"		1 Hour
4.	6	X 2.500	18.4	14.60	70	475		"		1 Hour
5.	6	X 2.500	19.6	15.70	74	358		"		1 Hour

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.	30.31	7.10	25.2	.9924	1.179	1.005	253
2.	30.31	18.16	29.7	.9971	1.179	1.005	650
3.	30.31	20.27	30.4	.9962	1.179	1.005	752
4.	30.31	21.48	31.6	.9905	1.179	1.004	763
5.	30.31	22.69	32.8	.9868	1.179	1.004	803

NO.	P_r	Temp. °R	T_r	Z
1.	.03	528	1.56	.991
2.	.04	523	1.55	.991
3.	.04	524	1.55	.991
4.	.05	530	1.57	.992
5.	.05	534	1.58	.992

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: *632 P.S.I.A. ____ P.S.I.A.
Critical Temperature: *337 R ____ R

P_c 1143.2 P_c^2 1306.9

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1048.2	1098.7	208.2
2.		789.2	622.9	684.0
3.		600.1	360.1	946.8
4.		490.6	240.7	1066.2
5.		374.7	140.4	1166.5

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.911$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.382$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .898$

Absolute Open Flow: 898 Mcfd @ 15.025 | Angle of Slope θ: 63.5 | Slope, n: .500

Remarks: * = Corrected to 21.94% N2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	West-Test, Inc.	BM	BM