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

State of New Mexico
Energy, Minerals and Natural Resources arment

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: Moberly Rhodes Waterflood				
Type Test: [X] Initial [ ] Annual [ ] Special							Test Date: 10-27-95			Well No.: 10	
Completion Date: 10/26/95		Total Depth: 3303'		Plug Back TD: 3130'			Elevation			Unit Ltr. - Sec. - TWP - Rge.: I 20 26 37	
Csg. Size: 7"	Wt.: 20#	d	Set At: 3150'	Perforations: From: 2960' To: 3108'						County: Lea	
Tbg. Size: 3.5"	Wt.	d	Set At: 2812'	Perforations: From: To:						Pool: Rhdoes Yates Seven Rivers	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At						Formation: Upper Yates Gas	
Producing Thru: Tubing	Reservoir Temp. °F	Mean Annual Temp. °F: 60°		Baro. Press - P_a: 13.2						Connection: Vented	
L	H	Gg: .675	% CO_2: 2.96	% N_2: 1.73	% H_2S	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						74	365		365		24 Hours
1.	2	X	3/32	335		65	335		340		1 Hour
2.	2	X	3/16	265		72	265		270		1 Hour
3.	2	X	1/4	215		74	215		220		1 Hour
4.	2	X	7/16	30		74	30		125		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.	.1410		348.2	.9952	1.217	1.033	61
2.	.6082		278.2	.9887	1.217	1.027	209
3.	1.087		228.2	.9868	1.217	1.022	304
4.	3.408		43.2	.9868	1.217	1.004	178
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.51	525	1.39	.936
2.	.41	532	1.41	.948
3.	.33	534	1.42	.958
4.	.06	534	1.42	.990
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .675 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: *676 P.S.I.A. P.S.I.A.
Critical Temperature: *376 R R

P_c 378.2 P_c^2 143.0

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		353.2	124.8	18.2
2.		283.2	80.2	63.0
3.		233.2	54.4	88.6
4.		138.2	19.1	123.9
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.614$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.614$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .491$

Absolute Open Flow: 491 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: * = Corrected to 2.96% CO2 & 1.73% N2

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