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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 Federal					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-27-96		Well No. 7			
Completion Date 1-23-96		Total Depth 3100		Plug Back TD 3090		Elevation 2994'		Unit Ltr. - Sec. - TWP - Rge. C 26-26-37			
Csg. Size 4 1/2		Wt. d		Set At 3100		Perforations: From: 2902 To: 3023				Country Lea	
Tbg. Size 2-3/8		Wt. 4.7		Set At 1.995		Perforations: From: Open To: End				Pool Rhodes Yts SR	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		Formation Yates 7R			
Producing Thru Tbg.		Reservoir Temp. °F 95		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2				Connection Sid Richardson	
L 2910		H 2910		Gg .710		% CO ₂ 6.45		% N ₂ 1.99		% H ₂ S Prover	
										Meter Run 4.026	
										Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI							605		605		24 Hours
1.	4	X	2.250				582		585		1 Hour
2.	4	X	2.250				540		544		1 Hour
3.	4	X	2.250				445		447		1 Hour
4.	4	X	2.250				370		372		1 Hour
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							497
2.	VOLUMES MEASURED BY TOTAL FLOW METER						1,130
3.							1,565
4.							1,696
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.					A.P. I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2.					Specific Gravity Separator Gas		XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5.					Critical Temperature	R	R

P _c 618.2		P _c ² 382.2	
NO.	P _t ²	P _w	P _w ²
1.		598.2	357.8
2.		557.2	310.5
3.		460.2	211.8
4.		385.2	148.3
5.			

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 15.664$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.967$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.958$

Absolute Open Flow 1,967 Mcfd @ 15.025	Angle of Slope θ 63.5	Slope, n .500
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Remarks: **NO FLUID PRODUCED**

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