

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP O BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/4/91		RECEIVED OCT 9 1991	
Company Meridian Oil Inc.				Connection			
Pool Blanco				Formation Mesaverde		Unit OIL CON. DIV.	
Completion Date 8/22/91		Total Depth 5550		Plug back TD 5504		Elevation 6142 GR	
Csg. Size 7.000		Wt. 23.0		Set At 6.366		Perforations: From 4813 To 5454	
Tng. Size 2.375		Wt. 4.70		Set At 1.995		Perforations: From To	
Type Well - Single - Broadhead - G.C. or G.O. Multiple				Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		State New Mexico	
L		H		Gg .700		% CO ₂ % N ₂ % H ₂ S Prover Meter Run Tops	

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	2"		3/4				603	60²	740	60⁰	
1.							233	60⁰	733	60⁰	1 hour
2.							215	60⁰	720	60⁰	2 hours
3.							220	60⁰	720	60⁰	3 hours
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 _{sp}	Rate of Flow Q, Mcfd
1	12.365		232.2	1.000	.9258	1.000	2658.11
2.							
3.							
4.							
5.							

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

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		732.2	536116.84	29688	19.0384	9.1215
2						
3						
4						
5						

$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$ 24246			
Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope @ _____ Slope, n 0.75	
Remarks: _____			
Approved By Division _____ Conducted By: Steve Adams Calculated By: Steve Adams Checked By: _____			

