

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11/13/91	
Company Meridian Oil, Inc.			Connection El Paso Natural Gas		
Pool Niobrara Gallup <i>GPME 945</i>			Formation Gallup		Unit Huerfano #219
Completion Date		Total Depth 6634'	Plug Back TD 6420'		Elevation
Farm or Lease Name Huerfano Unit			Well No. 219		
Csg. Size 4.500	Wt. 10.5#	d K-55	Set At 6634'	Perforations: From 5470' To 5767'	
Tbg. Size 2.375	Wt. 4.7#	d J-55	Set At 5804'	Perforations: From To	
Type Well - Single - Drilled - G.C. or G.O. Multiple Single			Packer Set At		County San Juan
Producing Thru Tubing		Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _g 12.2	State New Mexico
L	H	Cg .700	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run	Taps		

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	2.000		.750				706	68	750		Initial
1.							104	66	689		15 min.
2.							136	68	584		30 min.
3.							108	72	473		1 hr.
4.							49	70	358		2 hrs.
5.							39	70	319		3 hrs.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		51.2	1.000	.9258	1.000	586.1129
2.							
3.							
4.							
5.							

NO.	P ₁	Temp. <i>1991</i>	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.			A.P.T. Gravity of Liquid Hydrocarbons _____ Deg.
2.			Specific Gravity Separator Gas _____ X X X X X X X X
3.			Specific Gravity Flowing Fluid _____ X X X X X
4.			Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.			Critical Temperature _____ R _____ R

P _c 762.2	P _w 580.948	84				
NO.	P ₁	P ₂	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2328$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1699$
1		331.2	109,693.44	471,255.40		
2.						
3.						
4.						
5.						

Absolute Open Flow 1731 Mcfd @ 15.025				Angle of Slope	Slope, n .75
Remarks:					
Approved By Division		Conducted By: Dwayne Horton		Calculated By: Stan Terwilliger	
				Checked By:	