

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL: **FIVE**

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-27-92	
Company Meridian Oil Inc.		Connection	
Pool Barker Creek		Formation Paradox	
Completion Date 5-6-92		Total Depth 9655'	Plug Back TD 8770'
Elevation 7100 GR		Farm or Lease Name Ute	
Csq. Size 5.0	18.0"	Set At 4.276	3805'
Perforations: From 8654' To 8702'		Well No. 4	
Thq. Size 2.375	4.7"	Set At 1.995	8595.04
Perforations: From To		Unit Sec. Twp. Rge. N 10 32N 14W	
Type well - Single - Oradenned - G.C. or G.C. Multiple Single		Packer Set At 8595.04	County San Juan
Producing thru Tubing	Reservoir Temp. °F 154°	Mean Annual Temp. °F	State New Mexico
Baro. Press. - P _a 12.2			
3595.04	3595.04	G _g 0.649	% CO ₂ 3.02
% N ₂ 3.14	% H ₂ S .0015	Prover	Meter Run
Taps			

FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. P _w	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						2851		Packer
1.	2	.750				2210	43	1hr
2.	2	.750				1988	43	2hr
3.	2	.750				897	83	3hr
4.								
5.								

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.60		909.2	0.9786	1.247	1.068	11380.32
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.
1	1.3427	543	1.5167	0.971		
2.						
3.						
4.						
5.						

NO.	P _r	P _w	P _r ²	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	1983.3	8933478.89	4264435.35			1.9224	1.6326
2							
3							
4							
5							

Absolute Open Flow		Angle of Slope θ		Slope, n	
18,580 Mcfd @ 15.025				0.75	

Remarks:			
Approved by Division	Conducted By:	Calculated By: <i>Neal Rogers</i>	Checked By: Neal Rogers