

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 09-18-91			
Company Meridian Oil Inc.				Connection Vented					
Pool Eumont Yates-7 Rvrs-Qn				Formation Queens				Unit	
Completion Date 8-2-91		Total Depth 3750		Plug Back TD 3710'		Elevation 3650' GR		Farm or Lease Name Shell State	
Cas. Size 4 1/2	Wt. 11.6	d 1.995	Set At 3750	Perforations: From 3303 To 3504		Well No. 8			
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3229'	Perforations: From To		Unit Sec. Twp. Rge. 32 20-S 37-E			
Type Well - Single - Ordnance - G.C. or G.O. Multiple Single						Packer Set At None		County Lea	
Producing Thru Casing		Reservoir Temp. °F 108 3450		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 3450	H 3450	G _g .728	% CO ₂ 4.69	% N ₂ 1.76	% H ₂ S	Prover	Meter Run 2.067	Taps flange	

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							220		180		24 hrs.
1.	2	X	1.500	33	10.00	60	45		45		24 hrs.
2.											
3.											
4.											
5.											

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 _{sp}	Rate of Flow Q, Mhd
1	12.76	21.49	46.2	1.000	1.172	1.005	323
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.06	520	1.35	.991	N/A	N/A	.728	X X X X X	*684	*385
2.										
3.										
4.										
5.										

NO.	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	61.0	3.72	50.7	1.073	1.073
2					
3					
4					
5					

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = .347$

Absolute Open Flow 347 Mhd @ 15.025 Angle of Slope θ 45 Slope, n 1.000

Remarks: *=corrected to 4.69% CO₂ & 1.76% N₂
well made 10.44 BBLs of water during test

Approved By Division	Conducted By: Pro Well Testers	Calculated By: BM	Checked By: BM
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