



SUMMARY OF STAIRSTEP PERMEABILITY AND POROSITY MEASUREMENTS

BP America Production Company
 OCS-G-32306 No. 1 BP 1 Well
 Mississippi Canyon Block 252

Macondo Prospect
 Offshore, Louisiana
 File: HH-46949

Core Number	Sample Number	Sample Depth, feet	Permeability, millidarcys																Porosity, percent							Grain Density, gm/cc	
			to Air								Klinkenberg								500	1200	2000	4000	6000	8000	10000		2000
			500	1200	2000	4000	6000	8000	10000	2000	500	1200	2000	4000	6000	8000	10000	2000									
3	3-8R	18081.80	83.0	80.4	78.5	75.4	72.6	70.0	67.8	75.9	73.2	70.9	69.1	66.2	63.70	61.3	59.3	66.7	23.4	22.9	22.7	22.4	22.1	21.8	21.7	22.5	2.64
3	3-21R	18147.90	786	768	756	738	720	706	694	737	736	725	715	697	680	666	655	696	23.4	23.0	22.8	22.4	22.2	21.9	21.8	22.6	2.64
3	3-25R	18161.00	621	605	595	578	563	551	540	580	585	569	550	543	528	517	506	545	23.7	23.2	23.0	22.6	22.2	22.0	21.8	22.7	2.64
Average Values:			497	484	477	464	452	442	434	464	465	455	448	435	424	415	407	436	23.5	23.0	22.8	22.5	22.2	21.9	21.7	22.6	

Core Number	Sample Number	Sample Depth, feet	Permeability Ratio, K_{kr}/k_{air}																Porosity Ratio, $\frac{\phi/\phi_{air}}{\phi/\phi_{air}}$							
			to Air								Klinkenberg								500	1200	2000	4000	6000	8000	10000	2000
			500	1200	2000	4000	6000	8000	10000	2000	500	1200	2000	4000	6000	8000	10000	2000								
3	3-8R	18081.80	1.000	0.969	0.946	0.908	0.875	0.843	0.817	0.914	1.000	0.969	0.944	0.904	0.870	0.837	0.810	0.911	1.000	0.979	0.972	0.956	0.944	0.934	0.926	0.961
3	3-21R	18147.90	1.000	0.977	0.962	0.939	0.916	0.898	0.883	0.938	1.000	0.986	0.971	0.947	0.924	0.905	0.890	0.946	1.000	0.982	0.973	0.958	0.946	0.936	0.929	0.963
3	3-25R	18161.00	1.000	0.974	0.958	0.931	0.907	0.887	0.870	0.934	1.000	0.973	0.956	0.928	0.903	0.884	0.865	0.932	1.000	0.981	0.972	0.955	0.940	0.929	0.921	0.959
Average Values:			1.000	0.973	0.955	0.926	0.899	0.876	0.856	0.929	1.000	0.976	0.957	0.927	0.899	0.875	0.855	0.929	1.000	0.981	0.972	0.956	0.943	0.933	0.925	0.961