PHLSA Study Final Report Appendix III

SPL Lab Reports

This appendix includes the SPL analytical results for all samples collected during the PHLSA study. These data in the files listed in Table 1. Table 2 lists spreadsheets that include lab results from the Winter three-pressure testing, the Summer three-pressure testing, and the sample handling perturbation studies and sample collection perturbation studies conducted in January 2016.

File Name	Description	
16040041-002A GPA21086 -	Updated analytical report.	
Updated 5.17.17.pdf		
Initial Analysis.pdf	Initial analyses used to determine the composition for the CRM; 18	
	samples were collected, with 12 analyzed (1 in triplicate by each	
	method), using 3 analytical methods with 2 methods using	
	modifications	
Interlab Validation		
Review.pdf	SPL part of Inter Lab Study, 6 CRM samples analyzed by 3 methods	
Development of Certified		
Reference Material (CRM).pdf	Method Evaluation Study, 10 CRM samples analyzed by 4 methods	
Sample Handling	Sample Handling Perturbation Study, with analyses by 1 method for 4	
Perturbations.pdf	perturbations at 5 incremental values for 2 cylinder types	
Sampling Perturbations -	Sample Collection Perturbation Study, 28 sample analyzed by 2	
1_Part1.pdf	methods, paired CP/CV cylinders collected simultaneously, for	
Sampling Perturbations -	Collection Time after Well Cycle and Sample Collection Rate	
1_Part2.pdf		
Sampling Perturbations -		
1_Part3.pdf		
Summer Phase -1_Part1.pdf	Summer Phase PHLSA Study, All sample analyses for pressurized liquids,	
Summer Phase -1_Part2.pdf	storage tank liquids (collected in triplicate and analyzed by two	
Summer Phase -1_Part3.pdf	methods each), flash gas and sales gas for 3 high pressure cycles, 3 low	
Summer Phase -1_Part4.pdf	pressure cycles and 5 medium pressure well cycles , (2 of the medium	
Summer Phase -1_Part5.pdf	pressure well cycles were part of the Sample Collection Study)	
Summer Phase -1_Part6.pdf		
Winter Phase_Part1.pdf	Winter Phase PHLSA Study, All sample analyses for pressurized liquids,	
Winter Phase_Part2.pdf	storage tank liquids (collected in duplicate and analyzed by two	
Winter Phase_Part3.pdf	methods each), flash gas and sales gas for 3 high pressure cycles, 3 low	
Winter Phase_Part4.pdf	pressure cycles and 3 medium pressure well cycles	
Winter Phase_Part4 -		
Updated 5.17.17 NS.pdf		
Winter Phase_Part5.pdf		

Table 1. SPL Analytical Results Lab Reports

File Name	Description	
Sample_Handling_Pertubations_Spreadsheet_02.27.17_10.21_1_DLR_Edited_6.8.17.x	Sample Handling Perturbation Study lab	
ls	results	
Final_Sampling_Perturbations_04.07.17db_DLR_Edited_6.8.17.xlsm	Sample Collection Perturbation Study lab	
	results	
Winter_Phase_Testing_HP1_16040041_4.27.17_DLR_Edited_6.8.17.xlsm	Winter 3-pressure testing lab results	
Winter_Phase_Testing_HP3_16040115_4.27.17_DLR_Edited_6.8.17.xlsm		
Winter_Phase_Testing_HP4_16030982_Tin_Can_Tanks_16031044_4.27.17_DLR_Ed		
ited_6.8.17.xlsm		
Winter_Phase_Testing_MP1_16040116_4.25.17_DLR_Edited_6.8.17.xlsm		
Winter_Phase_Testing_MP2_16040117_4.25.17_DLR_Edited_6.8.17.xlsm		
Winter_Phase_Testing_MP3_16040118_4.25.17_DLR_Edited_6.8.17 .xlsm		
Winter_Phase_Testing_LP_1_16040119_Revised_4.20.17_DLR_Edited_6.8.17.xlsm		
Winter_Phase_Testing_LP_2_16040120_Revised_4.21.17_DLR_Edited_6.8.17.xlsm		
Winter_Phase_Testing_LP3_16040121_Revised_4.21.17_DLR_Edited_6.8.17.xlsm		
Summer_MASTER_1.12.17_as_of_4.27.17_DLR_Edited_6.8.17.xls	Summer 3-pressure testing lab results	
Summer_MASTER_1.12.17_as_of_04.12.17_003_db_ies.xlsx*		
*This is an earlier version of "Summer MASTER 1 12 17 as of 4 27 17 DLR Edited 6	8 17 yls " The key data in this spreadsheet	

*This is an earlier version of "Summer_MASTER_1.12.17_as_of_4.27.17_DLR_Edited_6.8.17.xls". The key data in this spreadsheet are the "EOS Bubble Point @ Tsep" which are bubble point pressures calculated at the sample collection temperature and used to calculate PBP/PSC ratios for the study.