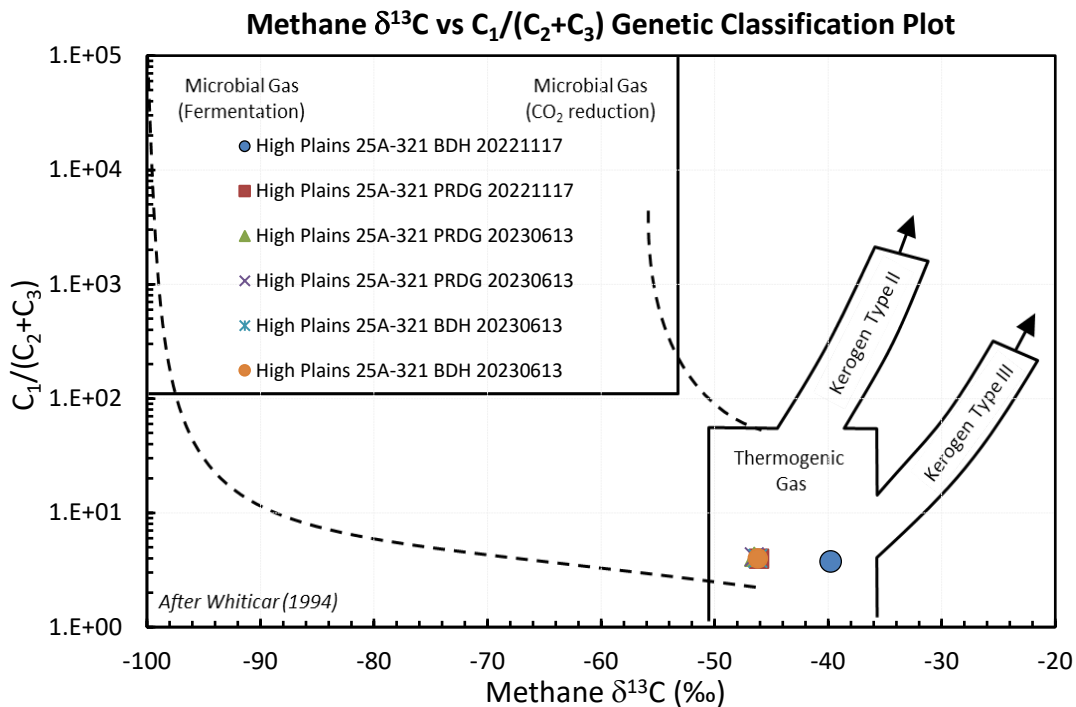
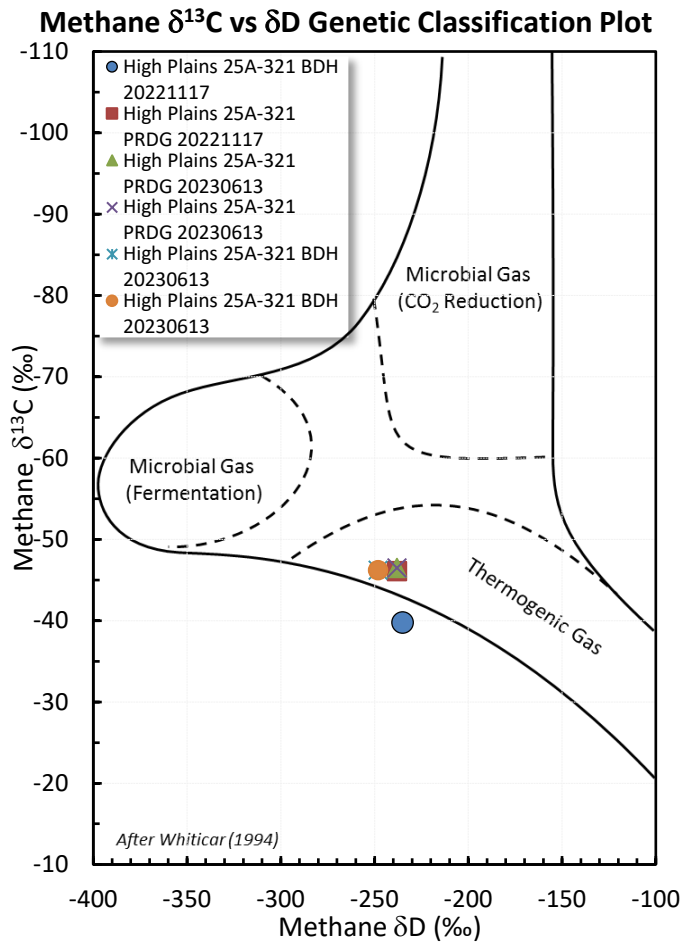
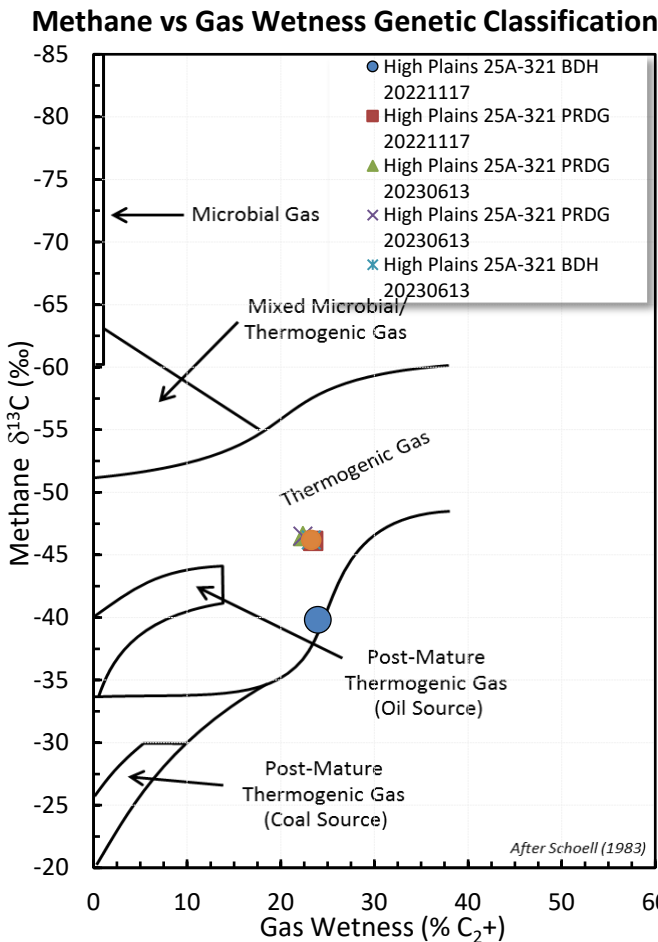
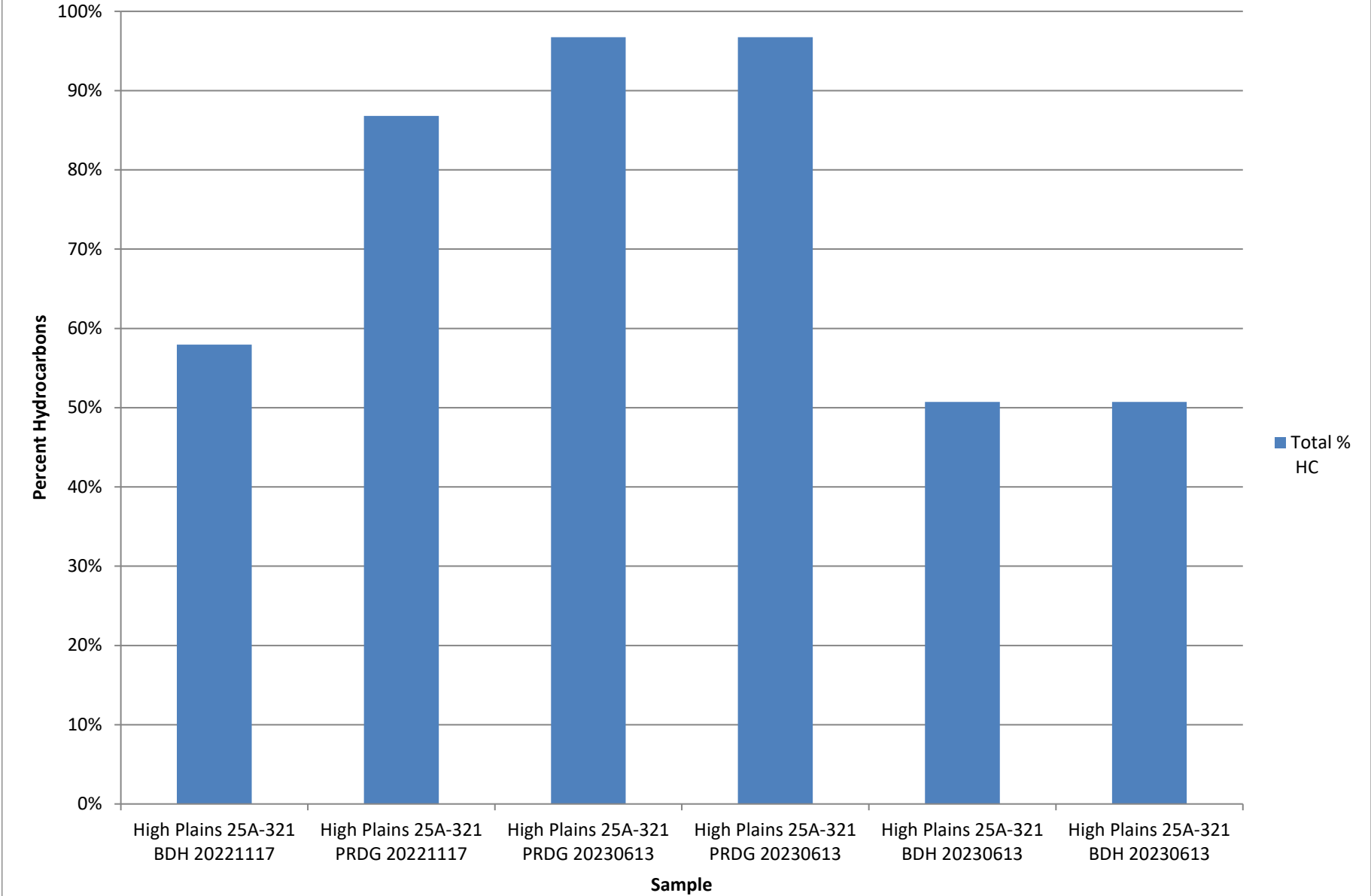


Stable Isotope Interpretive Plots



Total Percent Hydrocarbons



GAS COMPOSITION

GAS COMPOSITION (MOL %)

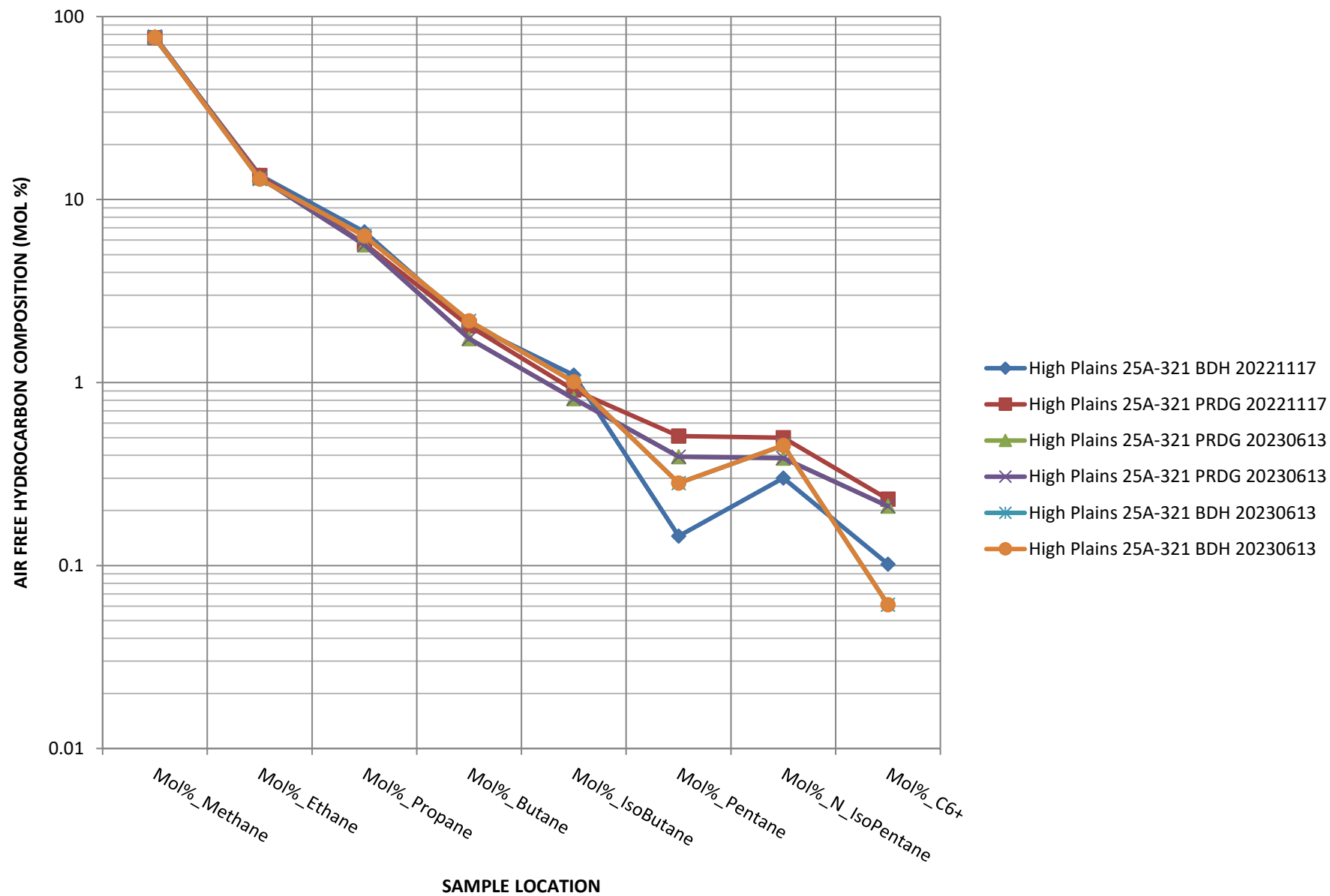
Parameter

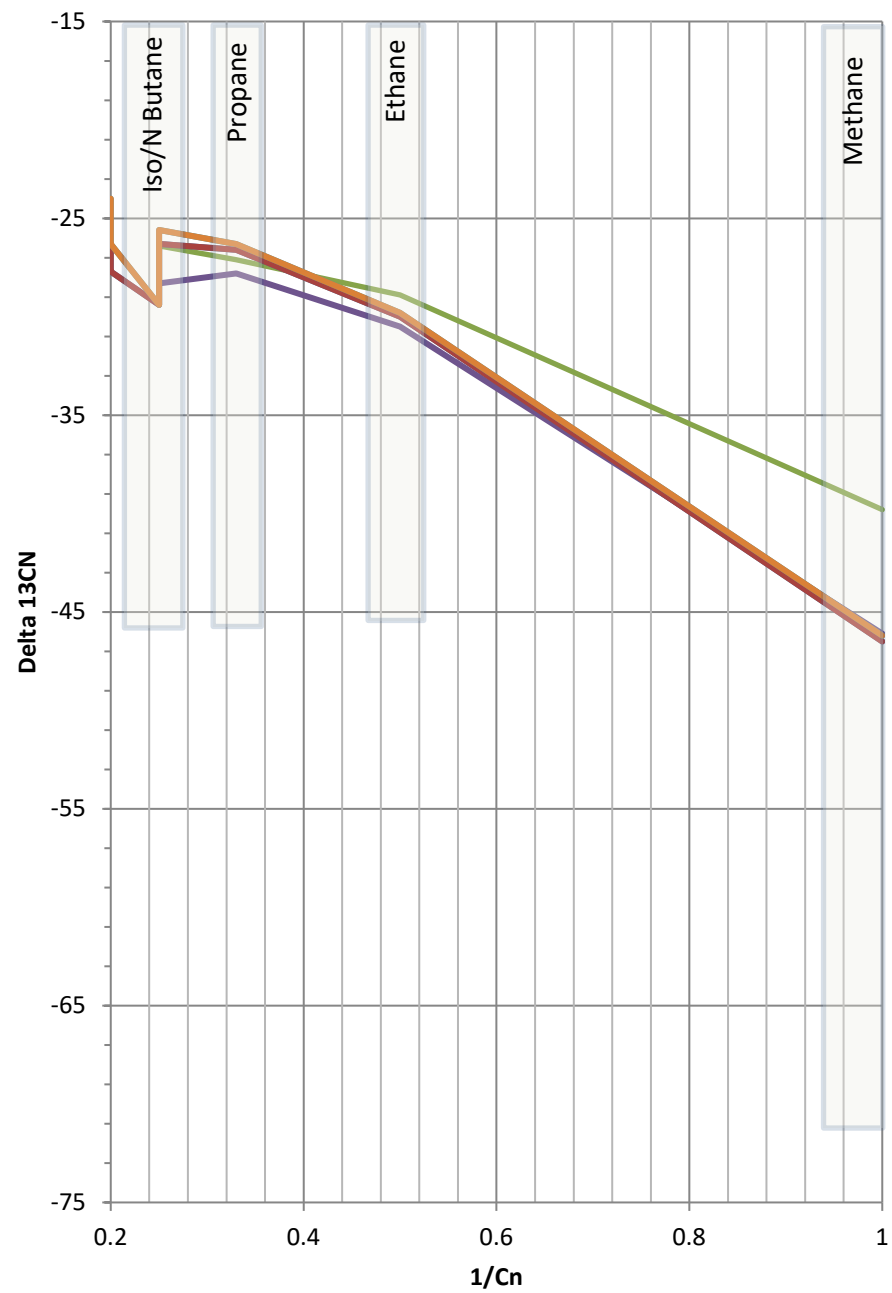
High Plains 25A-321 BDH 20221117
High Plains 25A-321 PRDG 20221117
High Plains 25A-321 PRDG 20230613
High Plains 25A-321 PRDG 20230613
High Plains 25A-321 BDH 20230613
High Plains 25A-321 BDH 20230613

Parameter	High Plains 25A-321 BDH 20221117	High Plains 25A-321 PRDG 20221117	High Plains 25A-321 PRDG 20230613	High Plains 25A-321 PRDG 20230613	High Plains 25A-321 BDH 20230613	High Plains 25A-321 BDH 20230613
Mol% Nitrogen	20	8	0.5	0.5	2.5	2.5
Mol% Oxygen	0.01	0.01	0.01	0.01	0.01	0.01
Mol% Argon	5	2	0.1	0.1	0.5	0.5
Mol% O2+AR	0.01	2	2.5	2.5	0.01	0.01
Mol% CarbonDioxide	0.01	0.01	0.01	0.01	0.01	0.01
Mol% Helium	15	0.01	0.01	0.01	0.01	0.01
Mol% hydrogen	40	60	70	70	35	35
Mol% Methane	7	12	12	12	6	6
Mol% Ethane	4	5	5	5	3	3
Mol% Propane	1.2	1.8	1.8	1.8	1.1	1.1
Mol% Butane	0.6	0.8	0.8	0.8	0.5	0.5
Mol% IsoButane	0.08	0.4	0.4	0.4	0.15	0.15
Mol% N_Pentane	0.18	0.4	0.4	0.4	0.25	0.25
Mol% IsoPentane	0.06	0.2	0.2	0.2	0.03	0.03
Mol% C6+	0.01	0.01	0.01	0.01	0.01	0.01

- High Plains 25A-321 BDH
20221117
- High Plains 25A-321 PRDG
20221117
- High Plains 25A-321 PRDG
20230613
- High Plains 25A-321 PRDG
20230613
- High Plains 25A-321 BDH
20230613

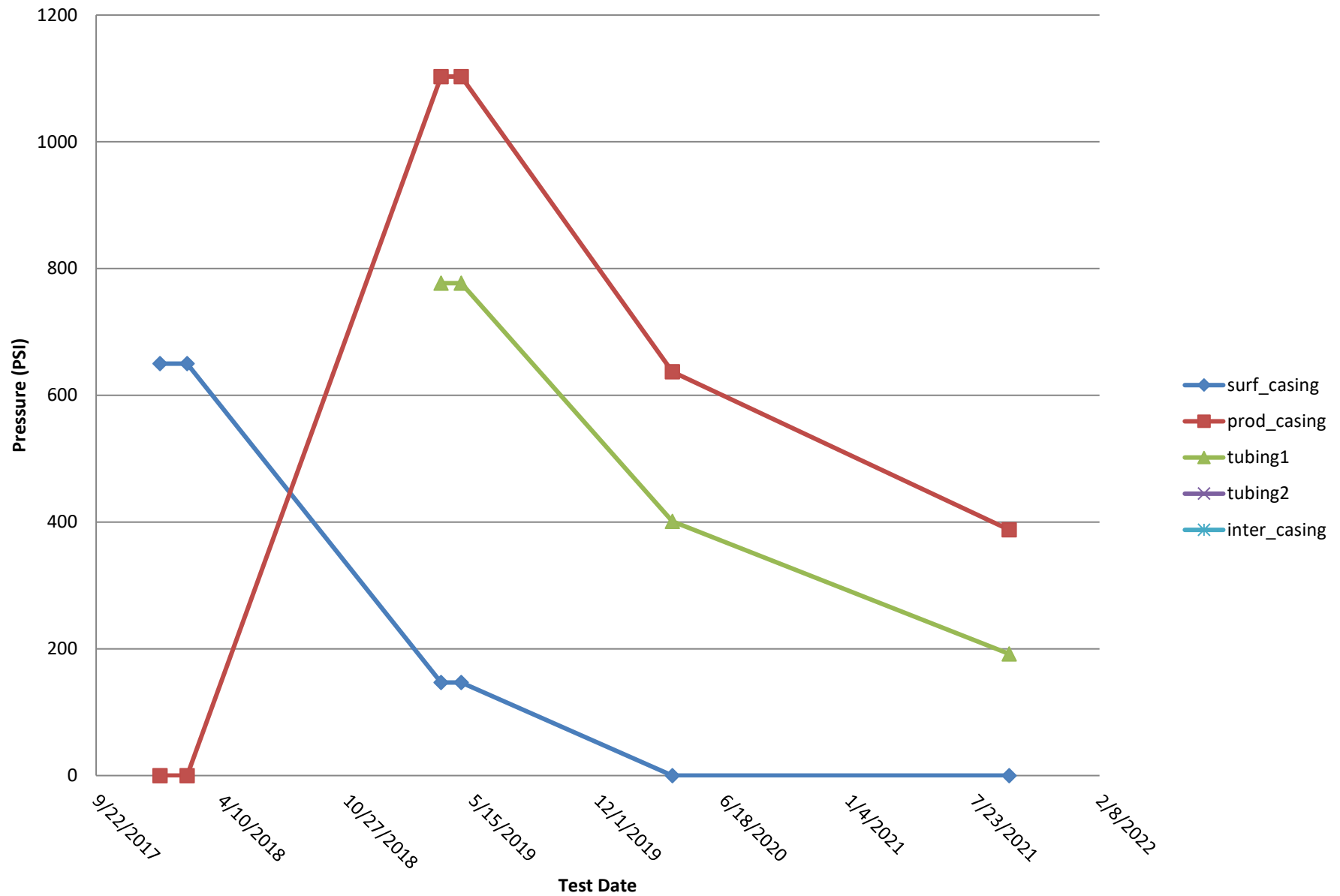
HYDROCARBON COMPOSITION

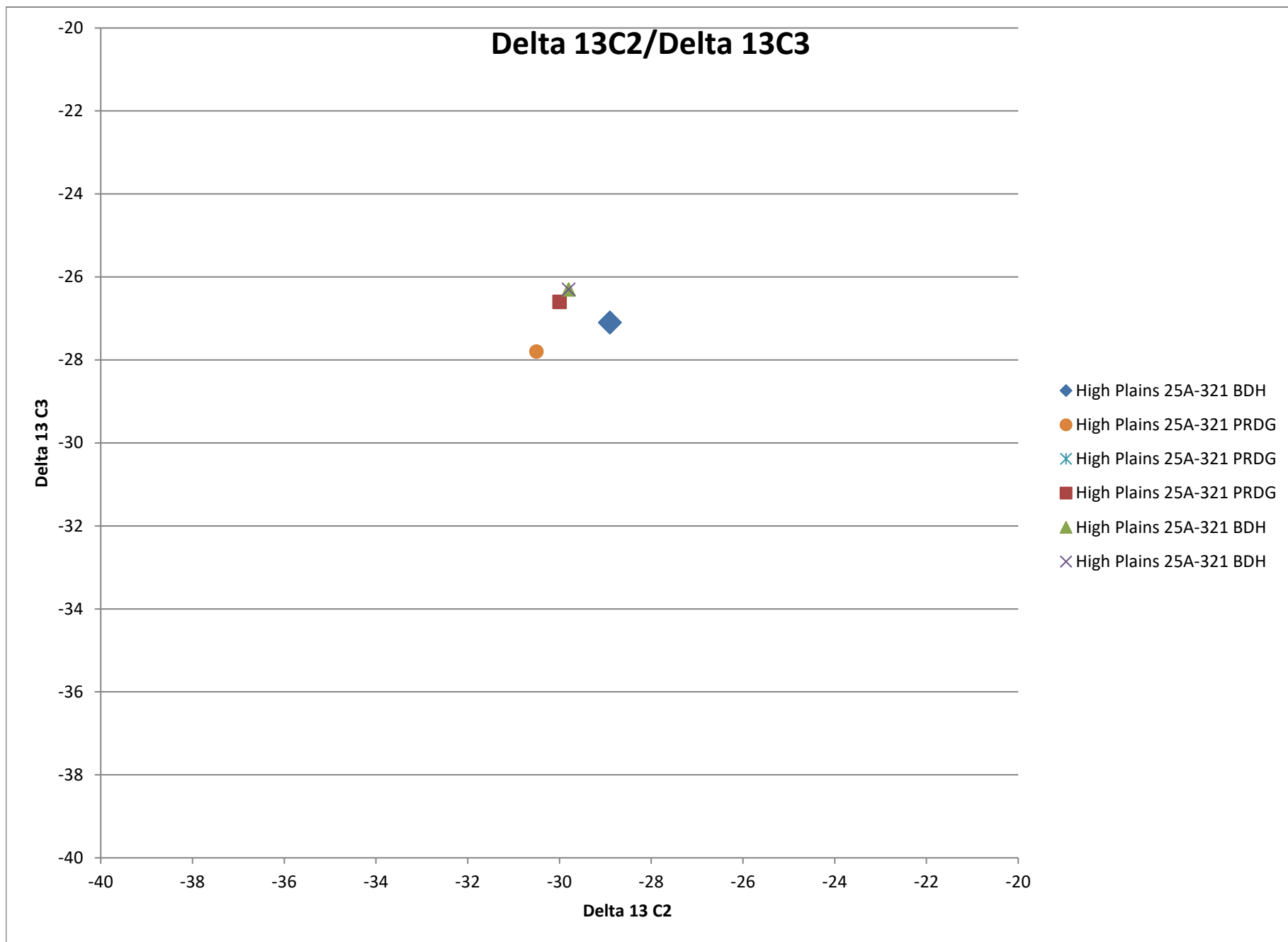




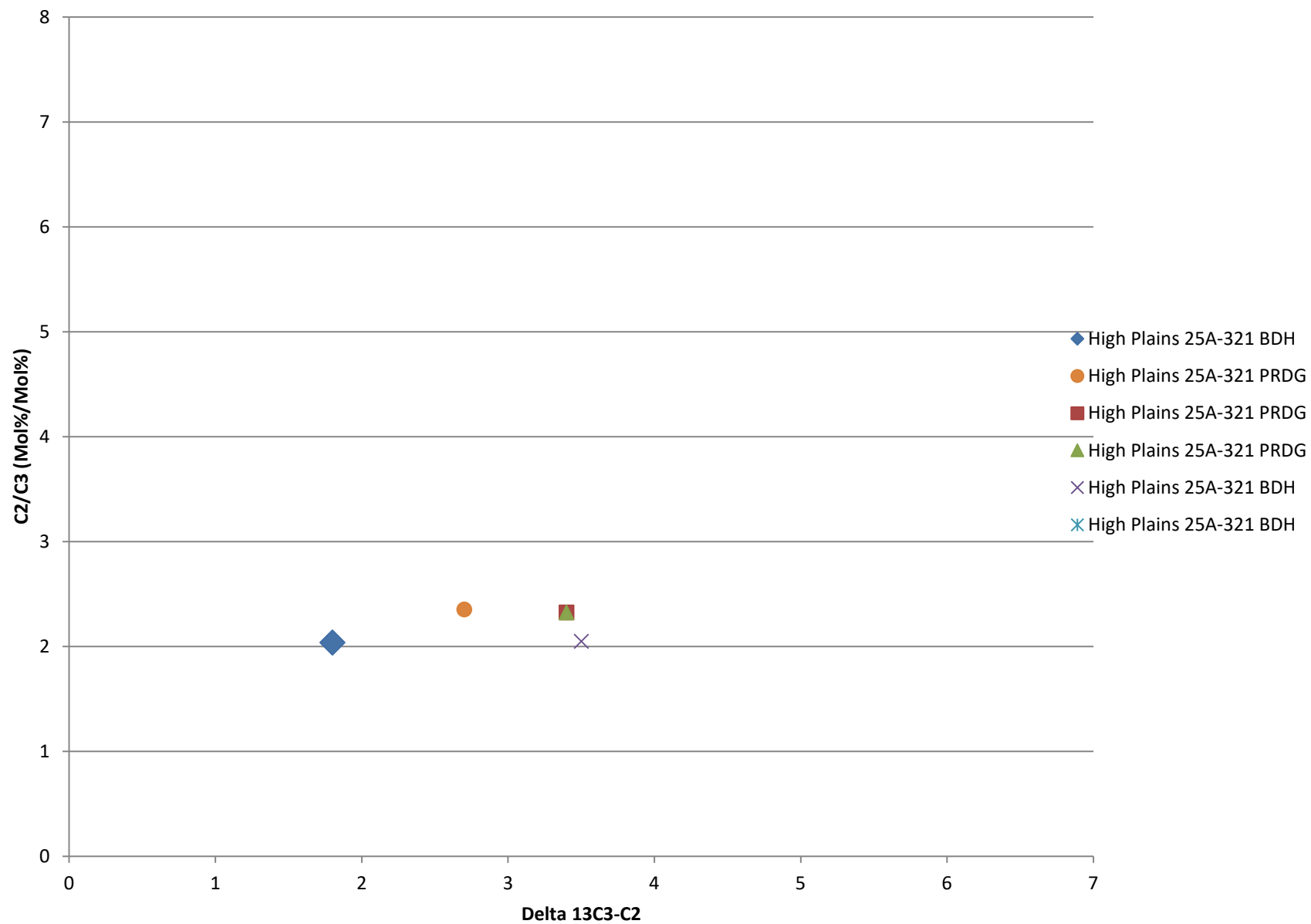
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- High Plains 25A-321 PRDG
- High Plains 25A-321 PRDG
- High Plains 25A-321 PRDG
- High Plains 25A-321 BDH
- High Plains 25A-321 BDH

Bradenhead Test Summary





Delta13 C2/C3 vs. Delta 13C3-C2



Delta 13 IC4/ Delta NC4

