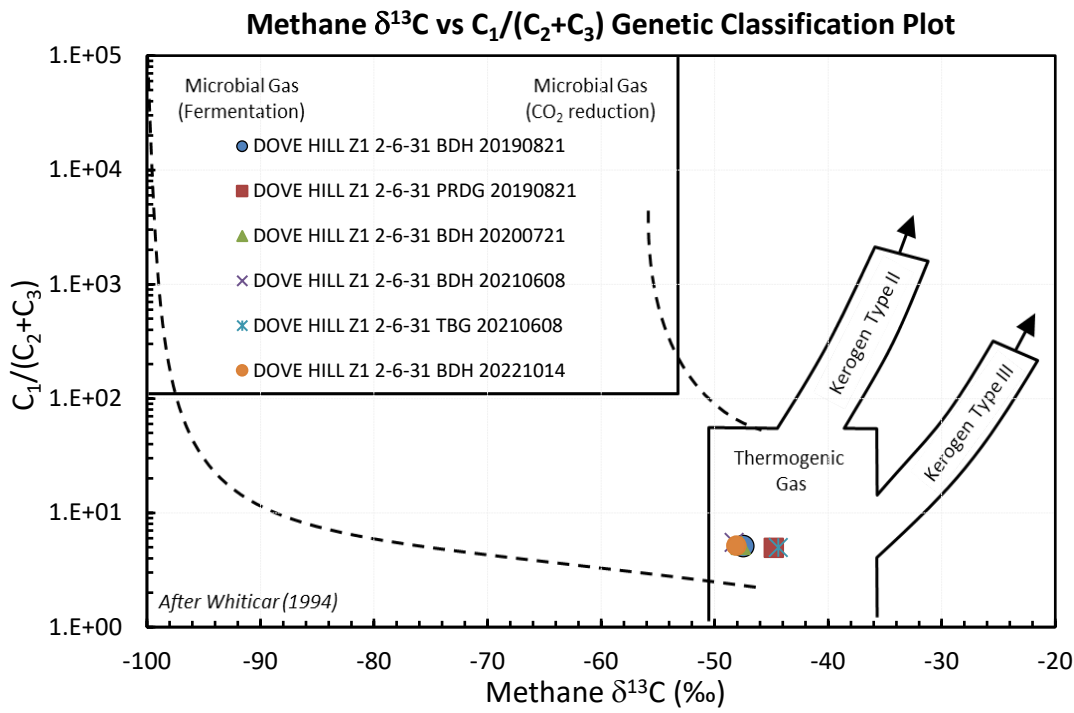
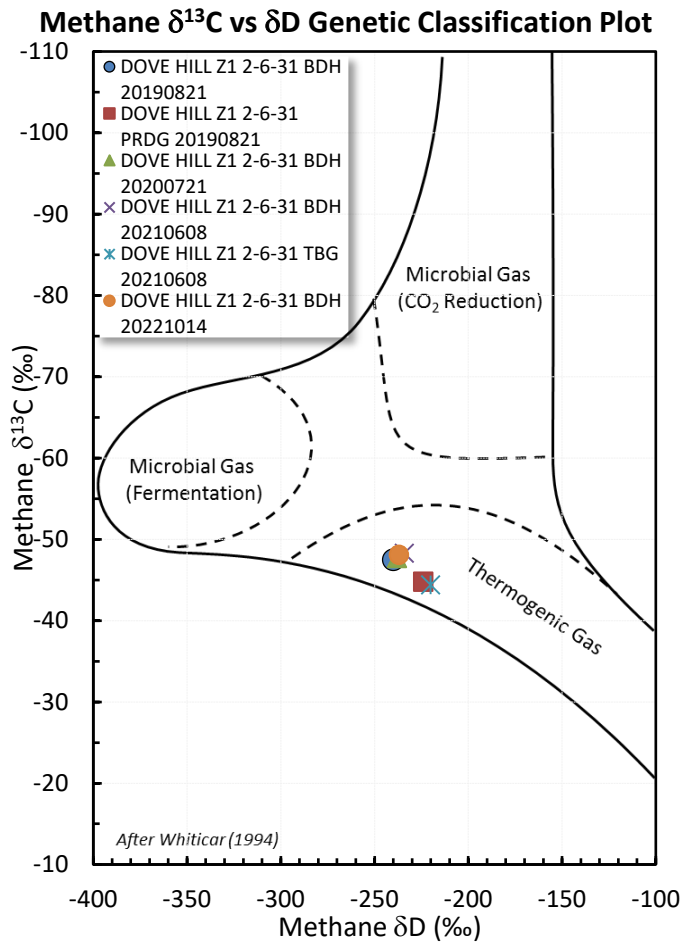
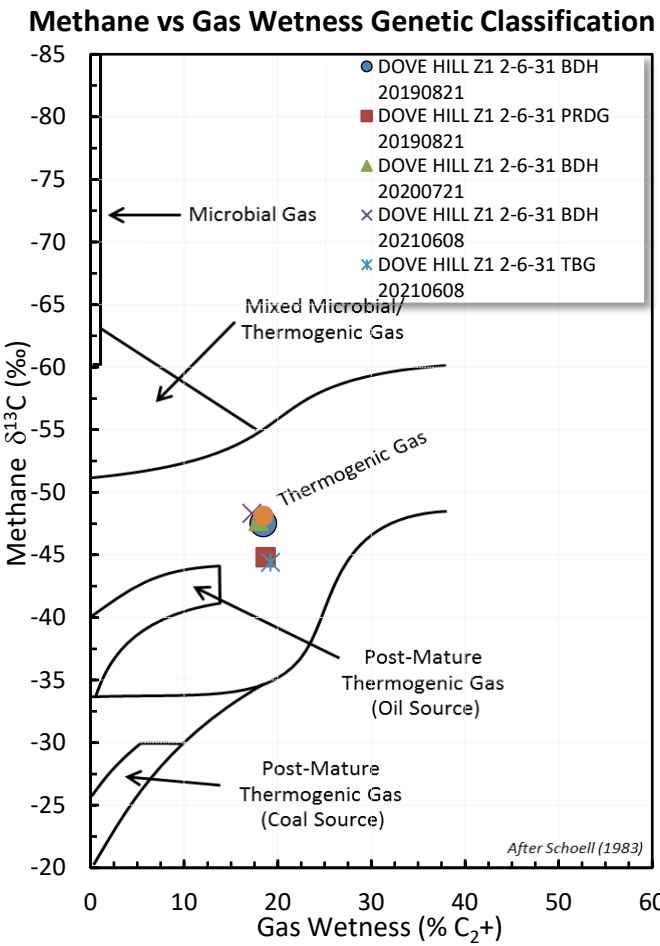
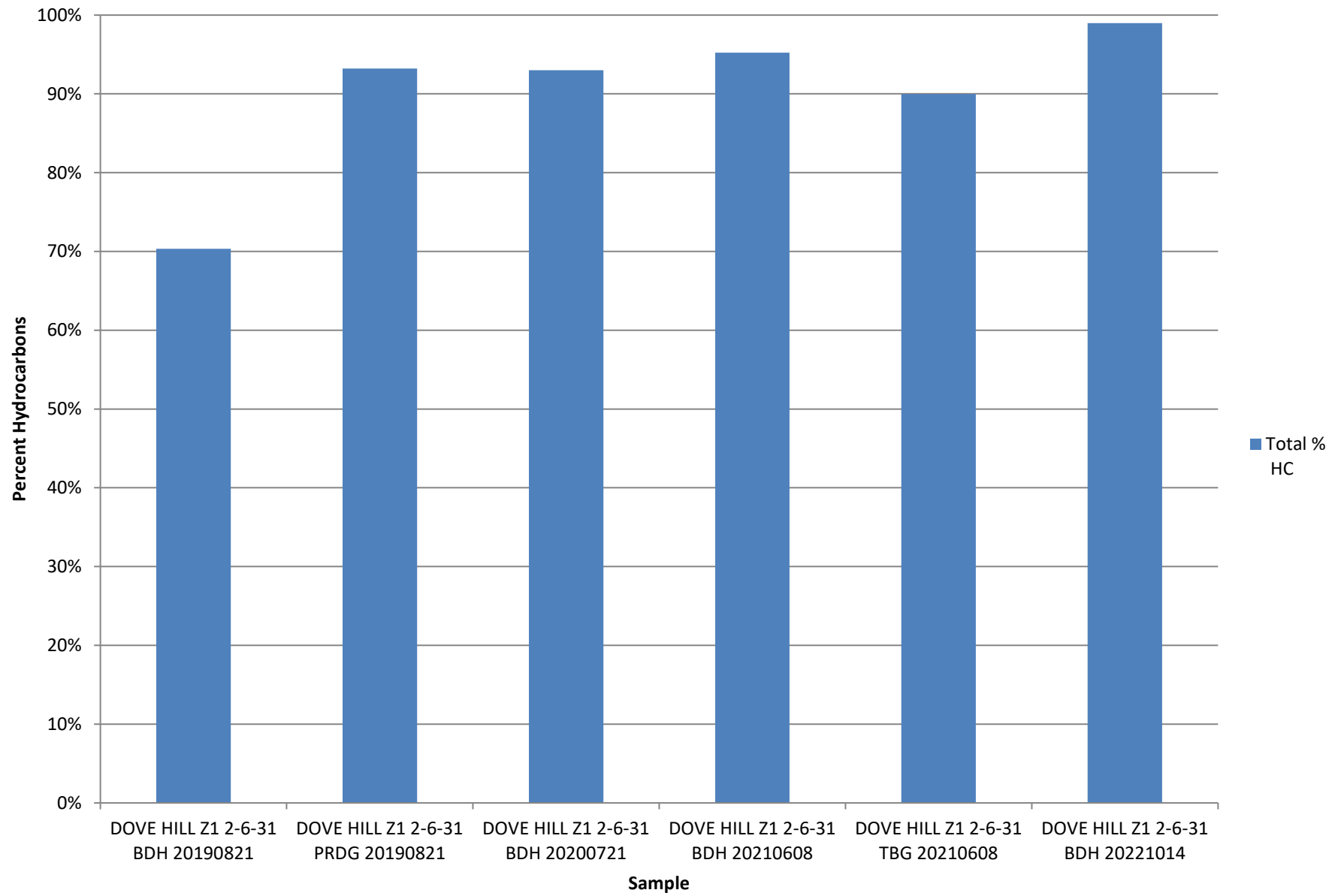


# Stable Isotope Interpretive Plots



## Total Percent Hydrocarbons



**GAS COMPOSITION**

GAS COMPOSITION (MOL %)

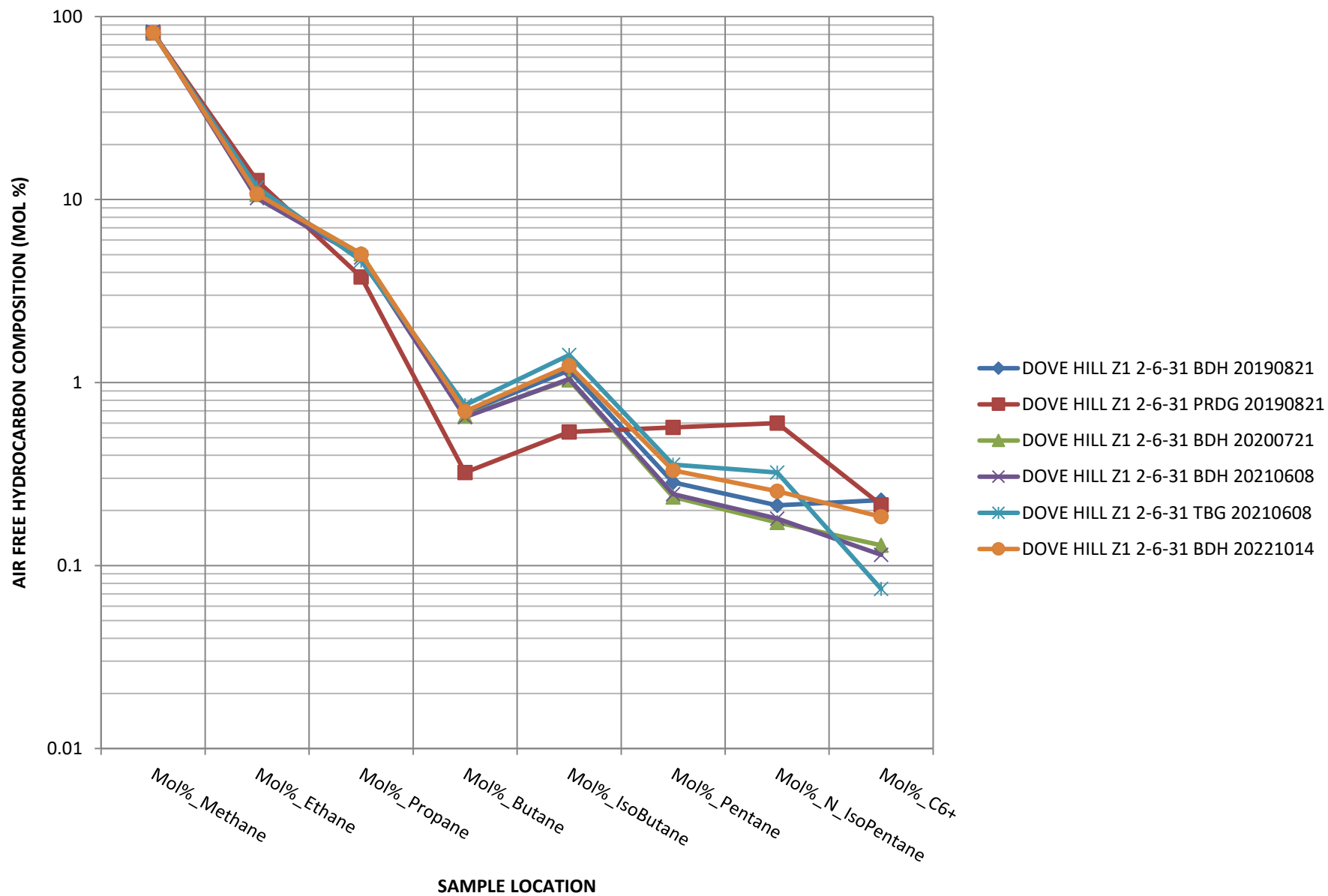
Parameter

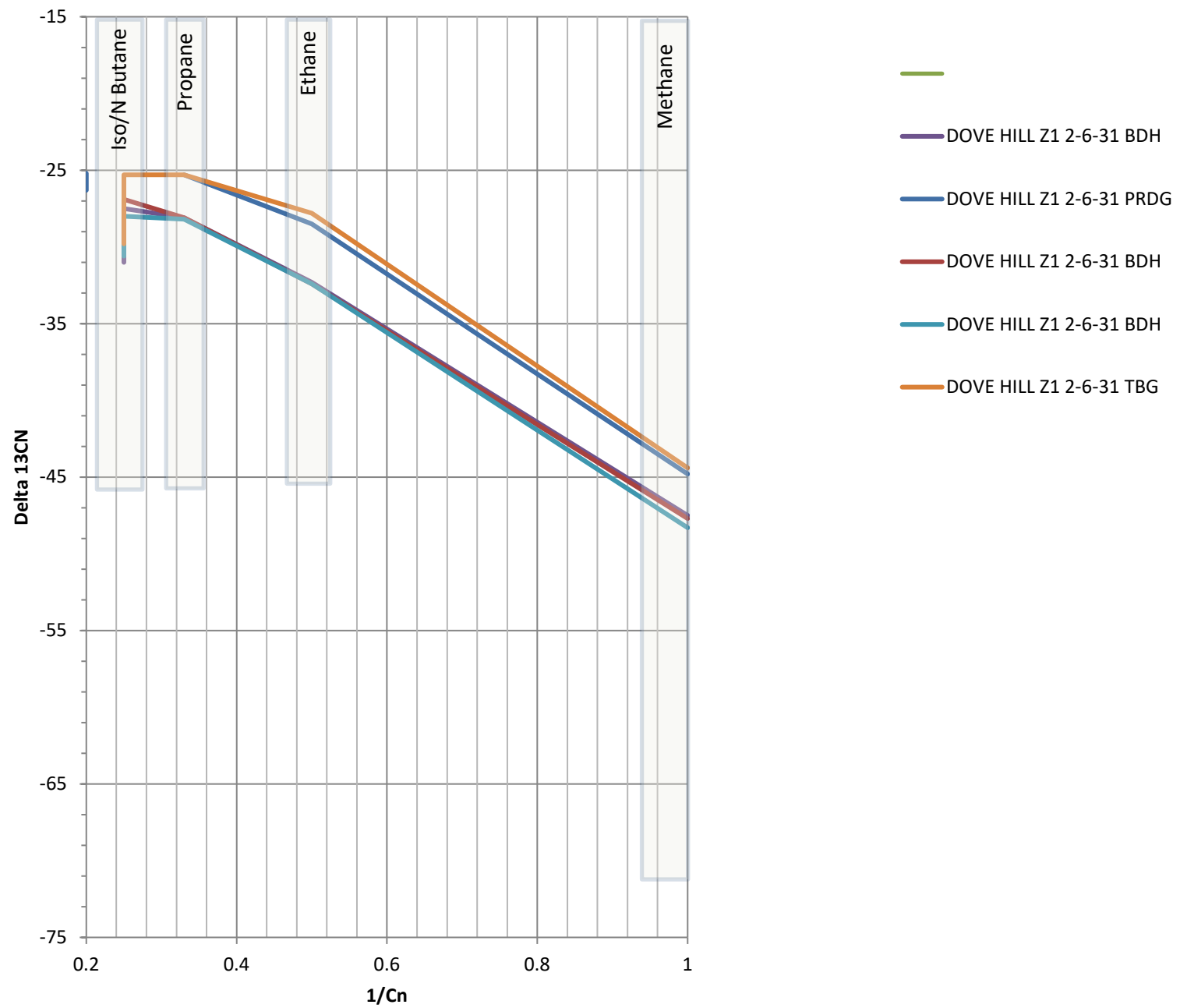
DOVE HILL Z1 2-6-31 BDH 20190821  
DOVE HILL Z1 2-6-31 PRDG 20190821  
DOVE HILL Z1 2-6-31 BDH 20200721  
DOVE HILL Z1 2-6-31 BDH 20210608  
DOVE HILL Z1 2-6-31 TBG 20210608  
DOVE HILL Z1 2-6-31 TBG 20210608

Parameter	DOVE HILL Z1 2-6-31 BDH 20190821	DOVE HILL Z1 2-6-31 PRDG 20190821	DOVE HILL Z1 2-6-31 BDH 20200721	DOVE HILL Z1 2-6-31 BDH 20210608	DOVE HILL Z1 2-6-31 TBG 20210608	DOVE HILL Z1 2-6-31 TBG 20210608
Mol% Nitrogen	18	2.5	5.5	3.5	6	0.9
Mol% Oxygen	10	1.5	1.5	0.8	1.8	0.09
Mol% Argon	1.2	2.5	0.01	0.01	2.2	0.01
Mol% O2+AR	0.01	0.01	0.01	0.01	0.01	0.01
Mol% CarbonDioxide	0.01	0.01	0.01	0.01	0.01	0.01
Mol% CarbonMonoxide	0.01	0.01	0.01	0.01	0.01	0.01
Mol% Helium	0.01	0.01	0.01	0.01	0.01	0.01
Mol% hydrogen	55	70	75	75	70	80
Mol% Methane	7.5	12	10	10	10	10
Mol% Ethane	3.5	3.5	4.5	4.5	4.0	5.0
Mol% Propane	0.5	0.3	0.6	0.6	0.7	0.7
Mol% Butane	0.8	0.5	1.0	1.0	1.3	1.2
Mol% IsoButane	0.2	0.5	0.2	0.2	0.3	0.3
Mol% N_Pentane	0.15	0.55	0.15	0.15	0.25	0.25
Mol% IsoPentane	0.15	0.2	0.12	0.1	0.15	0.15
Mol% C6+	0.06	0.06	0.06	0.06	0.06	0.06

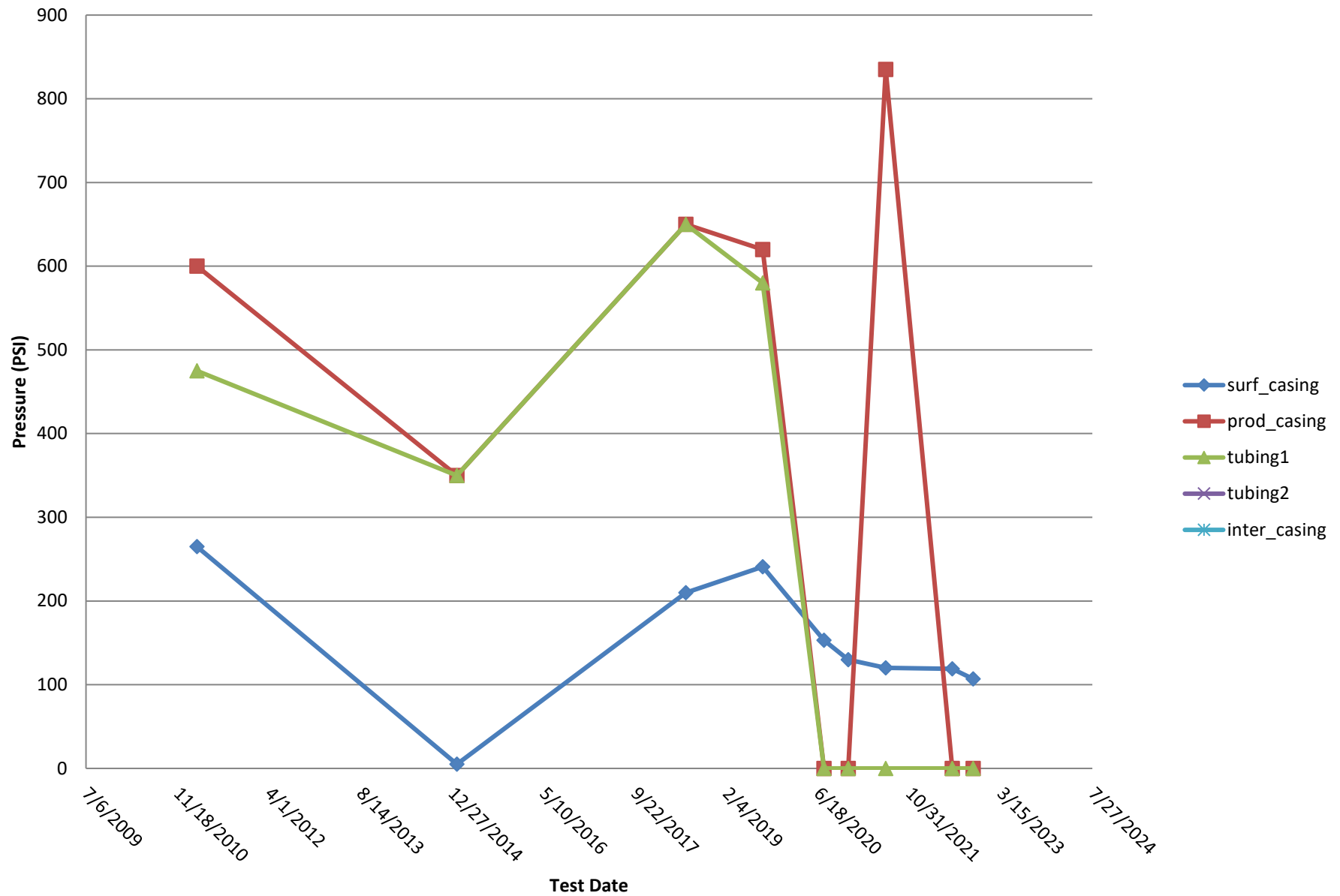
- DOVE HILL Z1 2-6-31 BDH  
20190821
- DOVE HILL Z1 2-6-31 PRDG  
20190821
- DOVE HILL Z1 2-6-31 BDH  
20200721
- DOVE HILL Z1 2-6-31 BDH  
20210608
- DOVE HILL Z1 2-6-31 TBG  
20210608

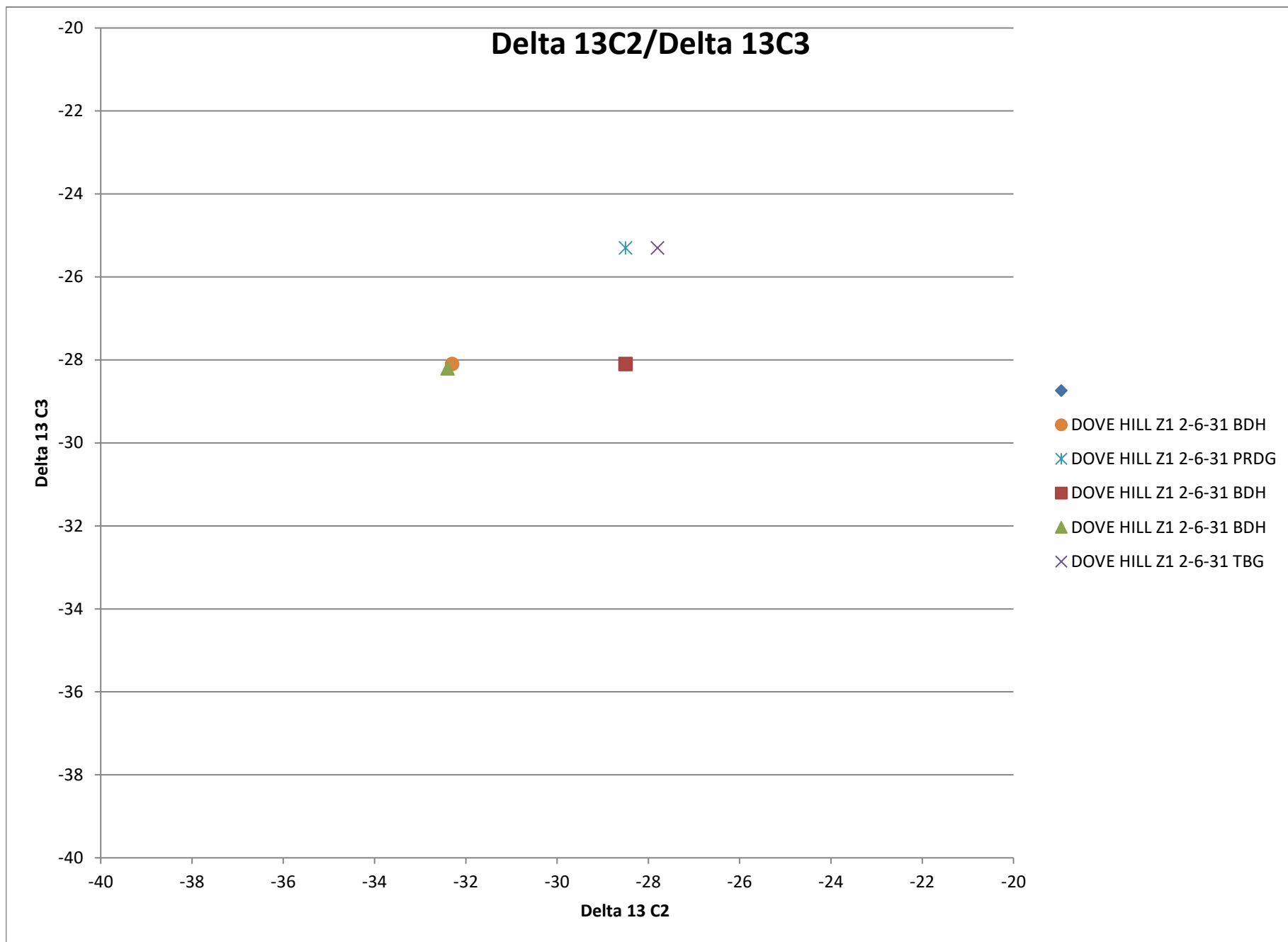
## HYDROCARBON COMPOSITION



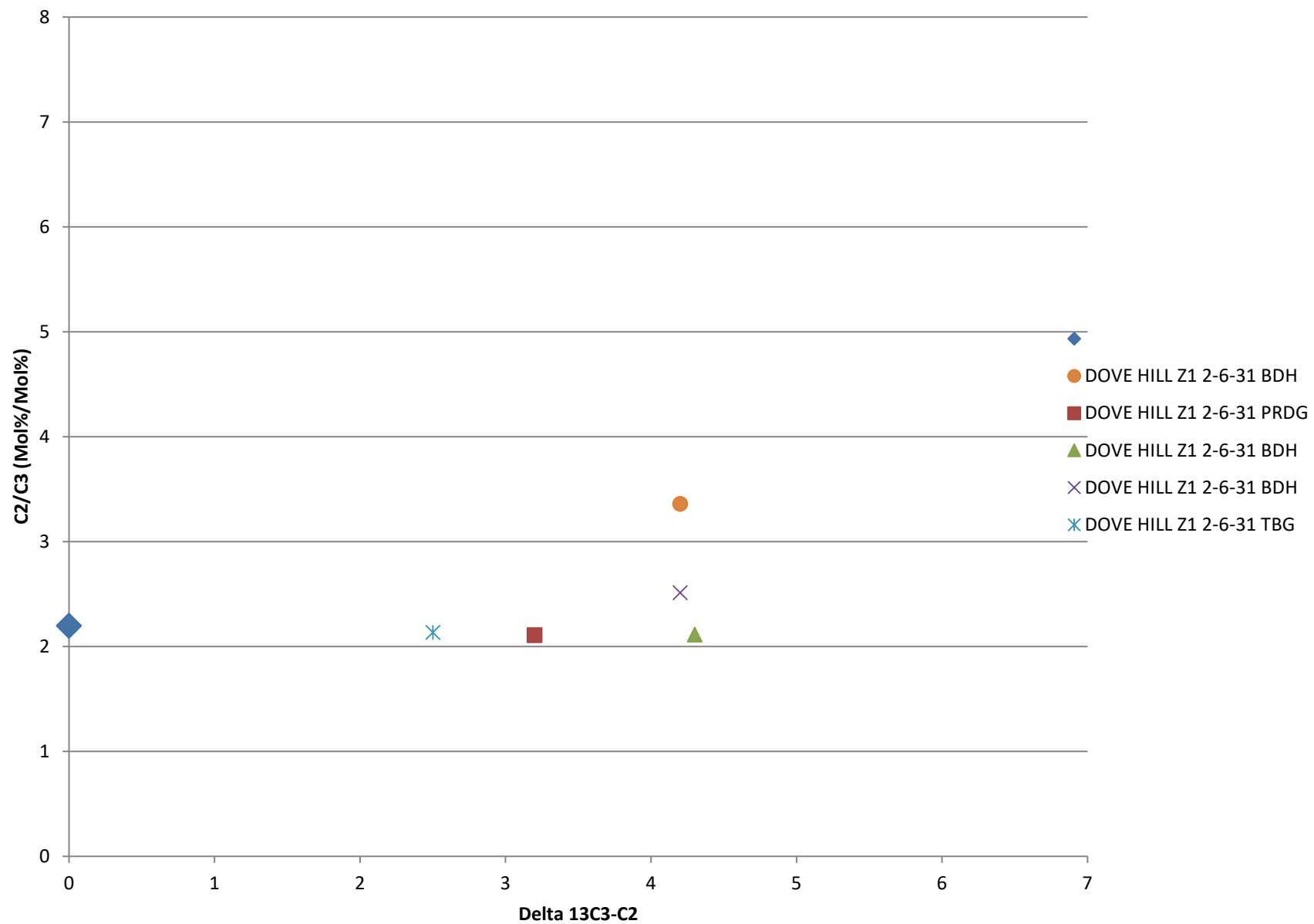


## Bradenhead Test Summary





## Delta13 C2/C3 vs. Delta 13C3-C2





## Delta 13 IC4/ Delta NC4

