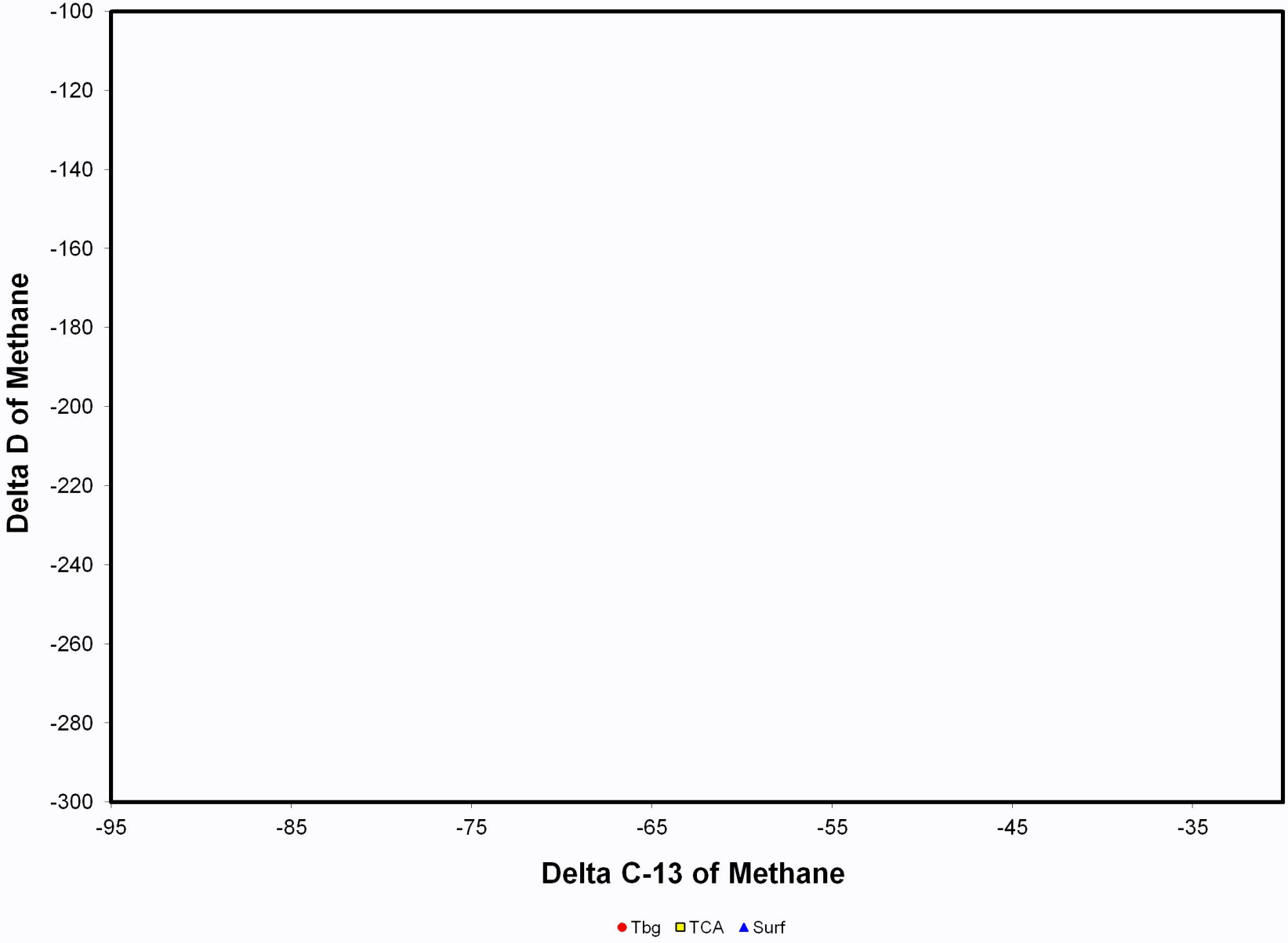

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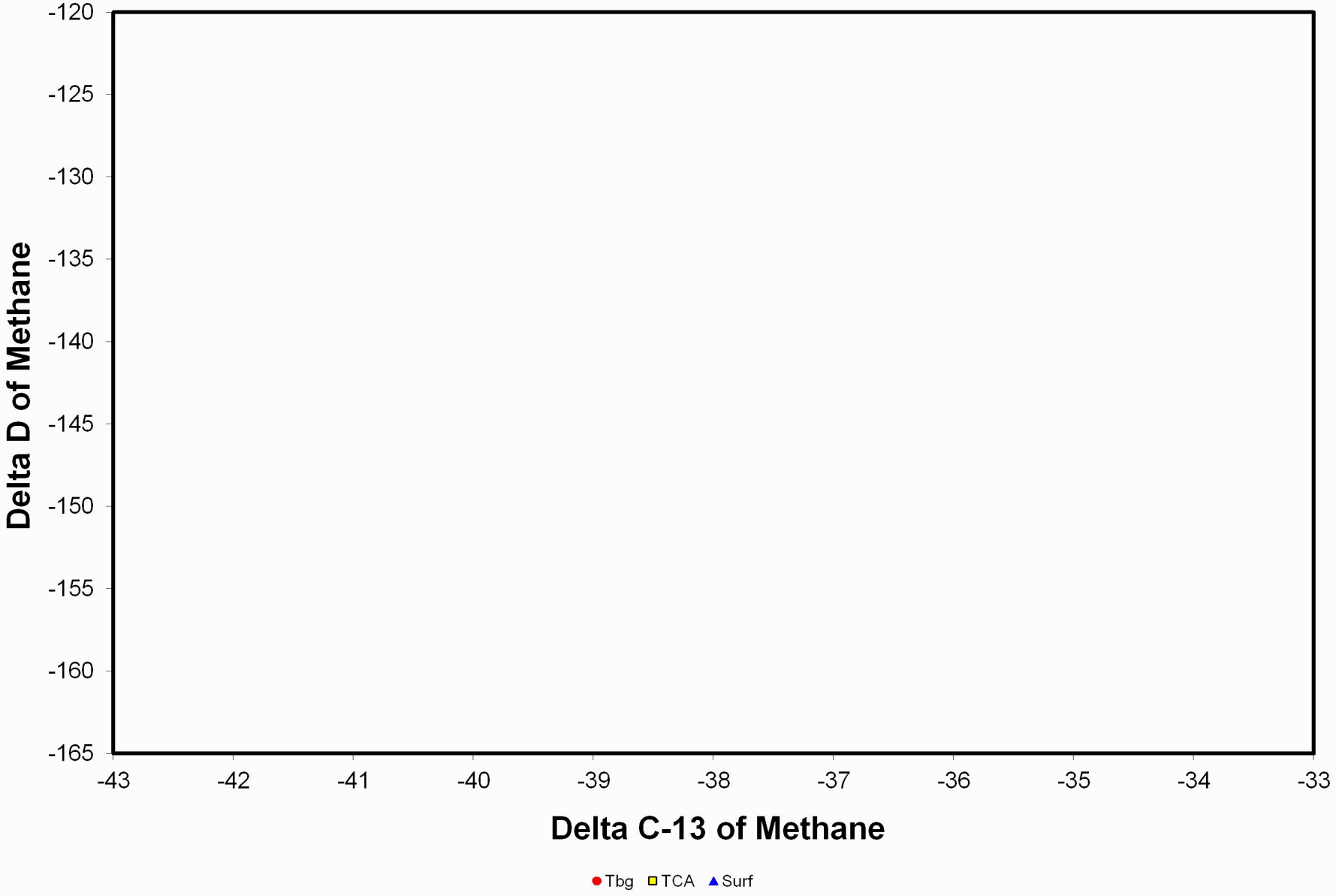

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	A	B	C	D	E	F
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2	Isotech Lab No.	Sample Name	Sample Type	Sample Date	Sample Time	GC date
3	235488	HW02z	Water	25-Jan-12	12:59	03-Feb-12
4	235489	HW04	Water	24-Jan-12	14:33	03-Feb-12
5	235490	HW05	Water	26-Jan-12	11:35	03-Feb-12
6	235491	HW06	Water	26-Jan-12	15:30	03-Feb-12
7	235492	HW08a	Water	25-Jan-12	11:46	03-Feb-12
8	235493	HW12	Water	26-Jan-12	13:23	03-Feb-12
9	235494	HW17	Water	27-Jan-12	11:40	03-Feb-12
10	235495	HW24	Water	27-Jan-12	12:09	03-Feb-12
11	235496	HW02	Water	25-Jan-12	12:58	03-Feb-12
12	235497	HW01	Water	25-Jan-12	16:31	03-Feb-12
13	235498	HW14	Water	26-Jan-12	17:13	03-Feb-12
14	235499	HW19	Water	23-Jan-12	15:47	03-Feb-12
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130	**Notes:**					
131						
132	C1 Methane					
133	C2 Ethane					
134	C2H4 Ethylene					
135	C3 Propane					
136	iC4 iso-butane					
137	nC4 N-butane					
138	iC5 iso-pentane					

	A	B	C	D	E	F
139	nC5 N-pentane					
140	C6 Hexane					

	G	H	I	J	K	L	M	N	O	P
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2	He %	H_2 %	H_2S %	Ar %	O_2 %	CO_2 %	N_2 %	CO %	C_1 %	C_2 %
3	0.011	0		0.628	0.8	0.094	40.72	0	57.1	0.687
4		0		1.5	2.28	2.01	84.37	0	9.76	0.0796
5		0		1.54	4.82	0.4	84.97	0	8.24	0.0259
6	0.025	0.0222		0.503	1.04	0.008	32.03	0	65.6	0.746
7		0		0.746	5.31	3.22	36.31	0	53.6	0.767
8	0.043	0		0.115	0.16	0.073	4.54	0	94.1	0.987
9		0		1.49	2.06	0.43	80.93	0	15	0.118
10		0		1.58	1.29	0.017	94	0	3.11	0
11	0.011	0		0.636	1.12	0.1	41.09	0	56.4	0.683
12	0.075	0		0.683	0.2	0.005	49.91	0	48.7	0.432
13		0		1.46	2.7	4.99	72.02	0	18.7	0.0899
14		0		1.63	7.11	4.38	86.88	0	0	0

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	Q	R	S	T	U	V	W	X	Y	Z
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2	C_2H_4 %	C_3 %	iC_4 %	nC_4 %	iC_5 %	nC_5 %	C_6+ %	MS date	$\delta^{13}C_1$ ‰	δDC_1 ‰
3	0	0	0	0	0	0	0	2/10/2012	-29.3	-160.6
4	0	0.0004	0	0	0	0	0	2/10/2012	-24.98	-121.8
5	0	0	0	0	0	0	0	2/13/2012	-33	-162.9
6	0	0.0068	0	0	0	0	0	2/11/2012	-31.07	-169
7	0	0.003	0	0	0	0	0	2/11/2012	-36.58	-209.9
8	0	0.0221	0.0006	0.001	0	0	0	2/11/2012	-35.9	-196.7
9	0	0.0011	0	0	0	0	0	2/11/2012	-31.54	-167.8
10	0	0	0	0	0	0	0	2/13/2012	-53.8	-165
11	0	0	0	0	0	0	0	2/11/2012	-29.36	-160.5
12	0	0.0004	0	0	0	0	0	2/11/2012	-36.8	-202.4
13	0	0	0	0	0	0	0	2/11/2012	-26.58	-140.3
14	0	0	0	0	0	0	0	2/7/2012		
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2	$\delta^{13}C_2$ ‰	$\delta^{13}C_3$ ‰	Specific Gravity	BTU	Sampling Point	**Methane/Higher Chain Hydrocarbons**			
3	-64.6	-9.66	0.736	590.000		**83.05677**			
4	-63.2	-9.48	0.947	100.000		**122**			
5	-63.2	-9.36	0.948	84.000		**318.1467**			
6	-65.6	-9.85	0.7	678.000		**87.16791**			
7	-61	-9.20	0.774	557.000		**69.66234**			
8	-64.6	-9.6	0.58	972		**93.0458**			
9	-64.9	-9.63	0.917	154		**125.6927**			
10	-64.8	-9.7	0.963	31					
11	-64.5	-9.76	0.739	583		**82.5183**			
12	-65.1	-9.81	0.769	501		**112.6041**			
13	-63.2	-9.54	0.927	191		**208.4538**			
14	-61.1	-9.13	1.008	0					
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122								Boundary data for plots:	
123									
124								-50	100
125								-20	100
126								-20	1
127								-50	1
128								-50	100
129									
130									
131								-64	1000
132								-80	1000
133								-80	100000
134								-64	100000
135								-64	1000
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	AA	AB	AC	AD	AE	AF	AG	AH	AI
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1							
2		C_3 %	iC_4 %	nC_4 %	iC_5 %	nC_5 %	C_6+ %
3							
4		**0.0004**	**0**	**0**	**0**	**0**	**0**
5		**0**	**0**	**0**	**0**	**0**	**0**
6		**0.0068**	**0**	**0**	**0**	**0**	**0**
7		**0.003**	**0**	**0**	**0**	**0**	**0**
8		**0.0221**	**0.0006**	**0.0012**	**0**	**0**	**0**
9		**0.0011**	**0**	**0**	**0**	**0**	**0**
10		**0**	**0**	**0**	**0**	**0**	**0**
11		**0**	**0**	**0**	**0**	**0**	**0**
12		**0.0004**	**0**	**0**	**0**	**0**	**0**
13		**0**	**0**	**0**	**0**	**0**	**0**
14		**0**	**0**	**0**	**0**	**0**	**0**
15		**0**	**0**	**0**	**0**	**0**	**0**
16		**0**	**0**	**0**	**0**	**0**	**0**
17		**0**	**0**	**0**	**0**	**0**	**0**
18		**0**	**0**	**0**	**0**	**0**	**0**
19		**0**	**0**	**0**	**0**	**0**	**0**
20		**0**	**0**	**0**	**0**	**0**	**0**
21		**0**	**0**	**0**	**0**	**0**	**0**
22		**0**	**0**	**0**	**0**	**0**	**0**
23		**0**	**0**	**0**	**0**	**0**	**0**
24		**0**	**0**	**0**	**0**	**0**	**0**
25		**0**	**0**	**0**	**0**	**0**	**0**
26		**0**	**0**	**0**	**0**	**0**	**0**
27		**0**	**0**	**0**	**0**	**0**	**0**
28		**0**	**0**	**0**	**0**	**0**	**0**
29		**0**	**0**	**0**	**0**	**0**	**0**
30		**0**	**0**	**0**	**0**	**0**	**0**
31		**0**	**0**	**0**	**0**	**0**	**0**
32		**0**	**0**	**0**	**0**	**0**	**0**
33		**0**	**0**	**0**	**0**	**0**	**0**
34		**0**	**0**	**0**	**0**	**0**	**0**
35		**0**	**0**	**0**	**0**	**0**	**0**
36		**0**	**0**	**0**	**0**	**0**	**0**
37		**0**	**0**	**0**	**0**	**0**	**0**
38		**0**	**0**	**0**	**0**	**0**	**0**
39		**0**	**0**	**0**	**0**	**0**	**0**
40		**0**	**0**	**0**	**0**	**0**	**0**
41		**0**	**0**	**0**	**0**	**0**	**0**
42		**0**	**0**	**0**	**0**	**0**	**0**
43		**0**	**0**	**0**	**0**	**0**	**0**
44		**0**	**0**	**0**	**0**	**0**	**0**
45		**0**	**0**	**0**	**0**	**0**	**0**
46		**0**	**0**	**0**	**0**	**0**	**0**
47		**0**	**0**	**0**	**0**	**0**	**0**

	AJ	AK	AL	AM	AN	AO	AP
48		0	0	0	0	0	0
49		0	0	0	0	0	0
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51		0	0	0	0	0	0
52		0	0	0	0	0	0
53		0	0	0	0	0	0
54		0	0	0	0	0	0
55		0	0	0	0	0	0
56		0	0	0	0	0	0
57		0	0	0	0	0	0
58		0	0	0	0	0	0
59		0	0	0	0	0	0
60		0	0	0	0	0	0
61		0	0	0	0	0	0
62		0	0	0	0	0	0
63		0	0	0	0	0	0
64		0	0	0	0	0	0
65		0	0	0	0	0	0
66		0	0	0	0	0	0
67		0	0	0	0	0	0
68		0	0	0	0	0	0
69		0	0	0	0	0	0
70		0	0	0	0	0	0
71		0	0	0	0	0	0
72		0	0	0	0	0	0
73		0	0	0	0	0	0
74		0	0	0	0	0	0
75		0	0	0	0	0	0
76		0	0	0	0	0	0
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78		0	0	0	0	0	0
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82		0	0	0	0	0	0
83		0	0	0	0	0	0
84		0	0	0	0	0	0
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86		0	0	0	0	0	0
87		0	0	0	0	0	0
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89		0	0	0	0	0	0
90		0	0	0	0	0	0
91		0	0	0	0	0	0
92		0	0	0	0	0	0
93		0	0	0	0	0	0
94		0	0	0	0	0	0
95		0	0	0	0	0	0
96		0	0	0	0	0	0
97		0	0	0	0	0	0

	AJ	AK	AL	AM	AN	AO	AP
98		**0**	**0**	**0**	**0**	**0**	**0**
99		**0**	**0**	**0**	**0**	**0**	**0**
100		**0**	**0**	**0**	**0**	**0**	**0**
101		**0**	**0**	**0**	**0**	**0**	**0**
102		**0**	**0**	**0**	**0**	**0**	**0**
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104		**0**	**0**	**0**	**0**	**0**	**0**
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117		**0**	**0**	**0**	**0**	**0**	**0**
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125			-40	-128			
126			-40	0			
127							
128			-40	-128			
129			-55	-158			
130			-55	-255			
131							
132			-50	-300			
133			-20	-160			
134							
135			-55	-158			
136			-80	-158			
137							
138							

	AJ	AK	AL	AM	AN	AO	AP
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2	Isotech Lab No.	Sample Name	Sample Type
3	**Enter data from here down**		
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102	**Notes:**		
103			
104	C1 Methane		
105	C2 Ethane		
106	C2H4 Ethylene		
107	C3 Propane		
108	iC4 iso-butane		
109	nC4 N-butane		
110	iC5 iso-pentane		
111	nC5 N-pentane		
112	C6 Hexane		
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	D	E	F	G	H	I	J	K	L
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2	Gas Type	Latitude	Longitude	Sample Date	Sample Time	GC date	He %	H_2 %	H_2S %
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	D	E	F	G	H	I	J	K	L
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	D	E	F	G	H	I	J	K	L
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	M	N	O	P	Q	R	S	T	U	V
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2	Ar %	O_2 %	CO_2 %	N_2 %	CO %	C_1 %	C_2 %	C_2H_4 %	C_3 %	iC_4 %
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	M	N	O	P	Q	R	S	T	U	V
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	M	N	O	P	Q	R	S	T	U	V
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121										

	W	X	Y	Z	AA	AB	AC	AD	AE	AF
1										
2	nC_4 %	iC_5 %	nC_5 %	C_6+ %	MS date	$\delta^{13}C_1$ ‰	δDC_1 ‰	$\delta^{13}C_2$ ‰	$\delta^{13}C_3$ ‰	Specific Gravity
3										
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	W	X	Y	Z	AA	AB	AC	AD	AE	AF
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	W	X	Y	Z	AA	AB	AC	AD	AE	AF
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94										
95										
96						**Fields:**				
97										
98						-55	-260			
99						-36	-140			
100						-53	-175			
101						-80	-175			
102										
103										
104										
105						8	-39			
106										
107										
108						100	-50			
109						100	-20			
110						1	-20			
111						1	-50			
112						100	-50			
113										
114										
115						1000	-64			
116						1000	-80			
117						100000	-80			
118						100000	-64			
119						1000	-64			
120										
121						10000	-79			

	AG	AH	AI	AJ	AK	AL	AM	AN	AO
1									
2	BTU	Sampling Point	**Methane/Higher Chain Hydrocarbons**					C_3 %	iC_4 %
3									
4								**0**	**0**
5								**0**	**0**
6								**0**	**0**
7								**0**	**0**
8								**0**	**0**
9								**0**	**0**
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43								**0**	**0**
44								**0**	**0**
45								**0**	**0**

	AG	AH	AI	AJ	AK	AL	AM	AN	AO
46								**0**	**0**
47								**0**	**0**
48								**0**	**0**
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	AG	AH	AI	AJ	AK	AL	AM	AN	AO
85								**0**	**0**
86								**0**	**0**
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	AP	AQ	AR	AS
1				
2	nC_4 %	iC_5 %	nC_5 %	C_6+ %
3				
4	**0**	**0**	**0**	**0**
5	**0**	**0**	**0**	**0**
6	**0**	**0**	**0**	**0**
7	**0**	**0**	**0**	**0**
8	**0**	**0**	**0**	**0**
9	**0**	**0**	**0**	**0**
10	**0**	**0**	**0**	**0**
11	**0**	**0**	**0**	**0**
12	**0**	**0**	**0**	**0**
13	**0**	**0**	**0**	**0**
14	**0**	**0**	**0**	**0**
15	**0**	**0**	**0**	**0**
16	**0**	**0**	**0**	**0**
17	**0**	**0**	**0**	**0**
18	**0**	**0**	**0**	**0**
19	**0**	**0**	**0**	**0**
20	**0**	**0**	**0**	**0**
21	**0**	**0**	**0**	**0**
22	**0**	**0**	**0**	**0**
23	**0**	**0**	**0**	**0**
24	**0**	**0**	**0**	**0**
25	**0**	**0**	**0**	**0**
26	**0**	**0**	**0**	**0**
27	**0**	**0**	**0**	**0**
28	**0**	**0**	**0**	**0**
29	**0**	**0**	**0**	**0**
30	**0**	**0**	**0**	**0**
31	**0**	**0**	**0**	**0**
32	**0**	**0**	**0**	**0**
33	**0**	**0**	**0**	**0**
34	**0**	**0**	**0**	**0**
35	**0**	**0**	**0**	**0**
36	**0**	**0**	**0**	**0**
37	**0**	**0**	**0**	**0**
38	**0**	**0**	**0**	**0**
39	**0**	**0**	**0**	**0**
40	**0**	**0**	**0**	**0**
41	**0**	**0**	**0**	**0**
42	**0**	**0**	**0**	**0**
43	**0**	**0**	**0**	**0**
44	**0**	**0**	**0**	**0**
45	**0**	**0**	**0**	**0**

	AP	AQ	AR	AS
46	0	0	0	0
47	0	0	0	0
48	0	0	0	0
49	0	0	0	0
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53	0	0	0	0
54	0	0	0	0
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56	0	0	0	0
57	0	0	0	0
58	0	0	0	0
59	0	0	0	0
60	0	0	0	0
61	0	0	0	0
62	0	0	0	0
63	0	0	0	0
64	0	0	0	0
65	0	0	0	0
66	0	0	0	0
67	0	0	0	0
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69	0	0	0	0
70	0	0	0	0
71	0	0	0	0
72	0	0	0	0
73	0	0	0	0
74	0	0	0	0
75	0	0	0	0
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77	0	0	0	0
78	0	0	0	0
79	0	0	0	0
80	0	0	0	0
81	0	0	0	0
82	0	0	0	0
83	0	0	0	0
84	0	0	0	0

	AP	AQ	AR	AS
85	**0**	**0**	**0**	**0**
86	**0**	**0**	**0**	**0**
87	**0**	**0**	**0**	**0**
88	**0**	**0**	**0**	**0**
89	**0**	**0**	**0**	**0**
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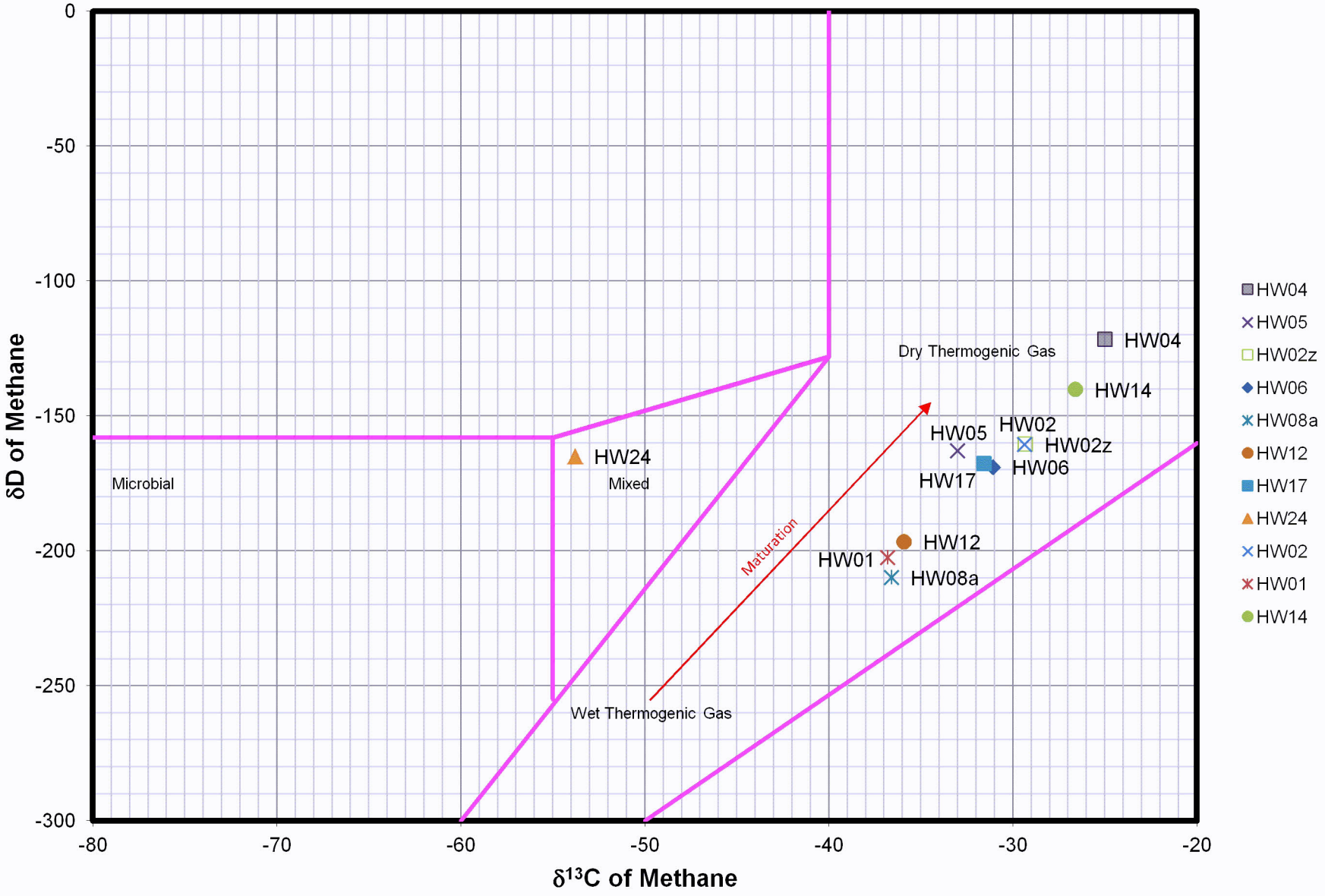

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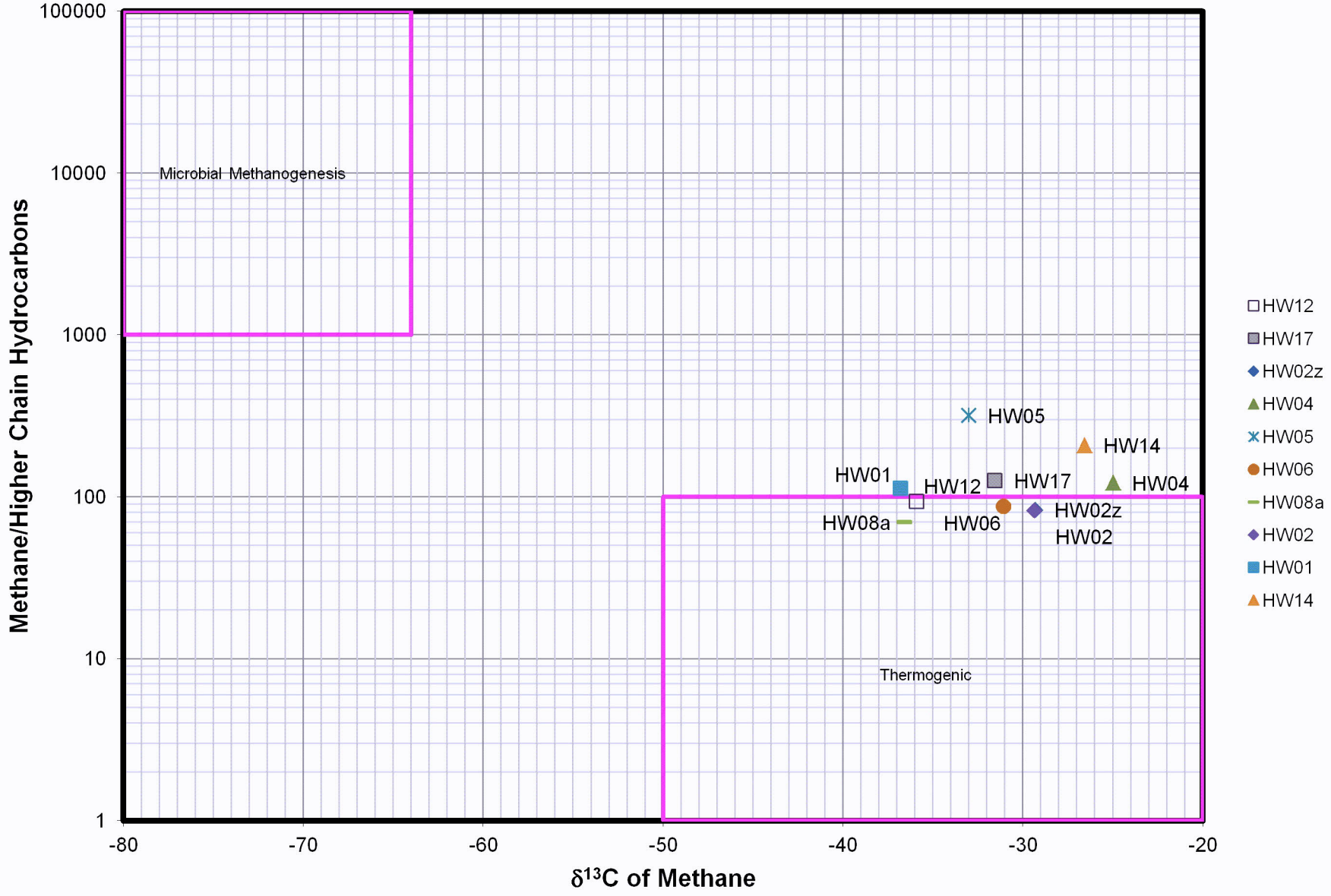

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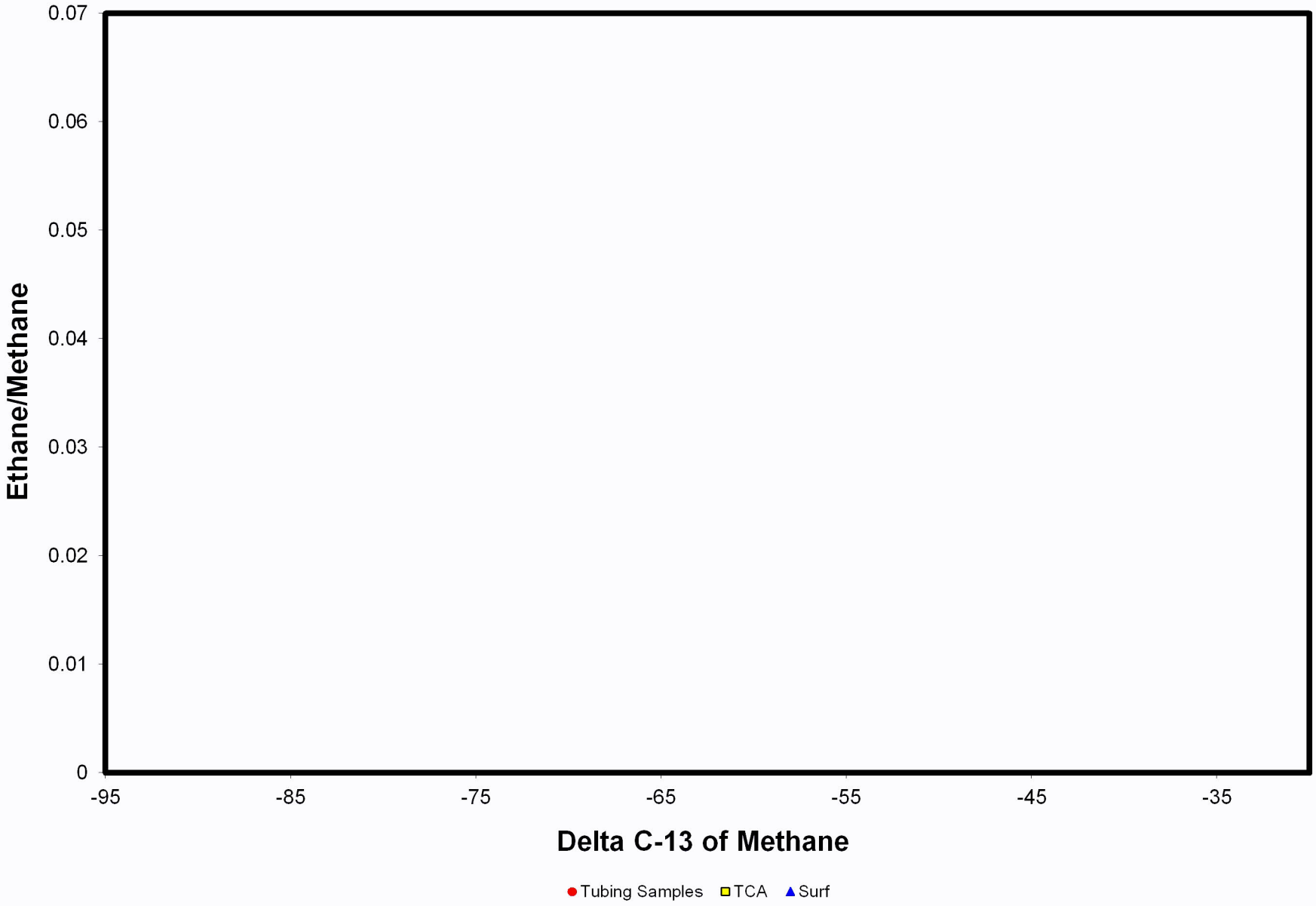

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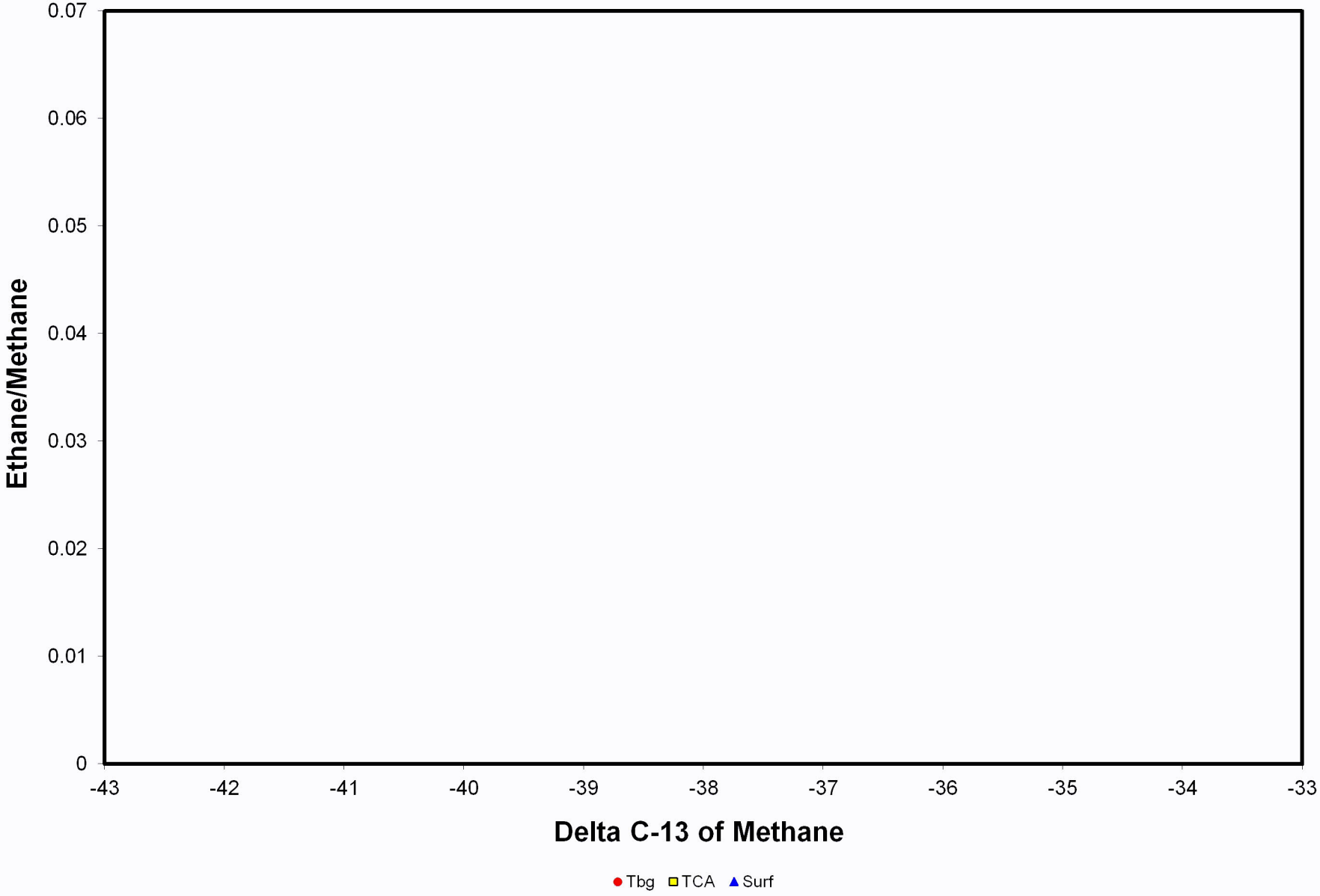

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