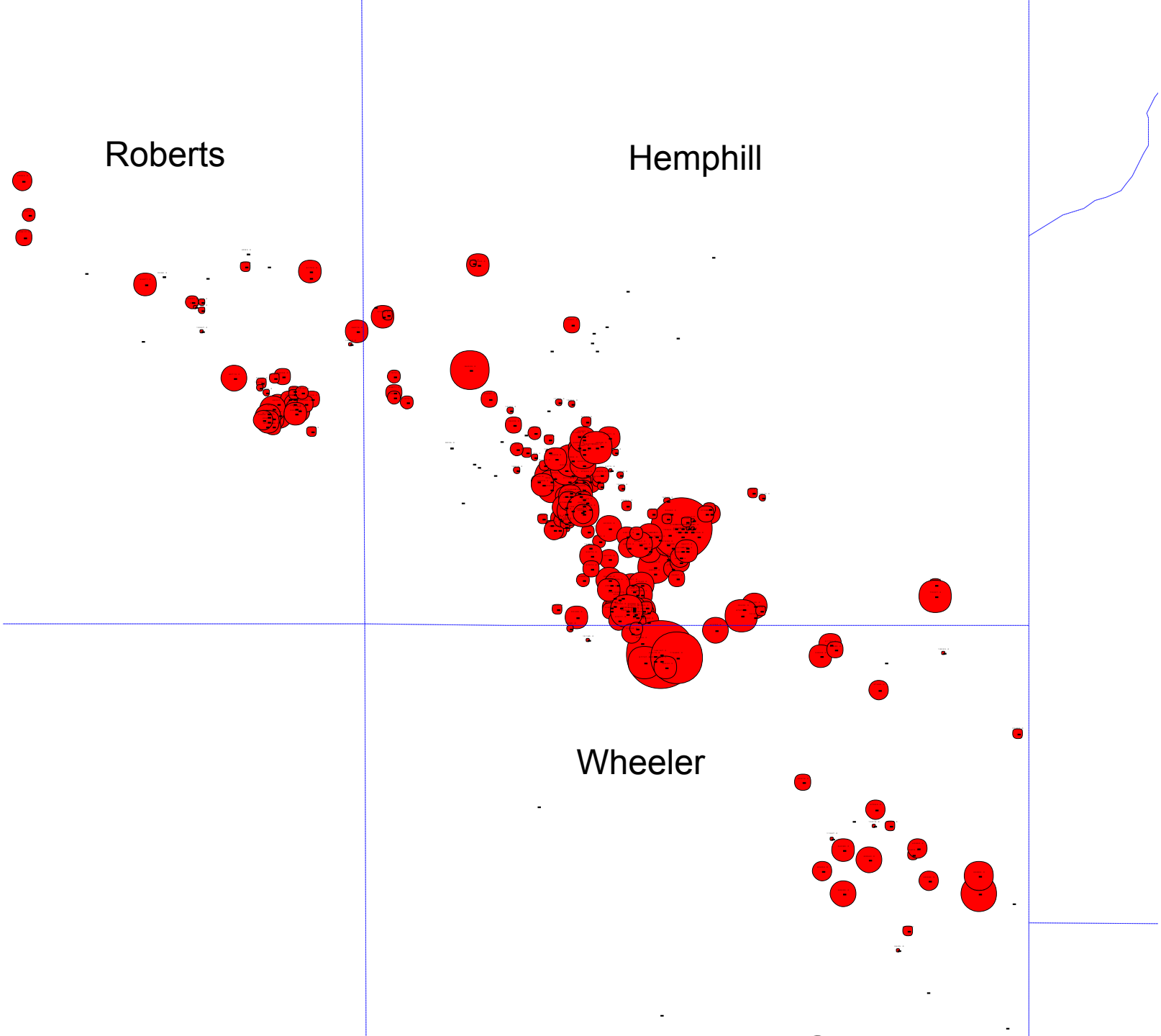
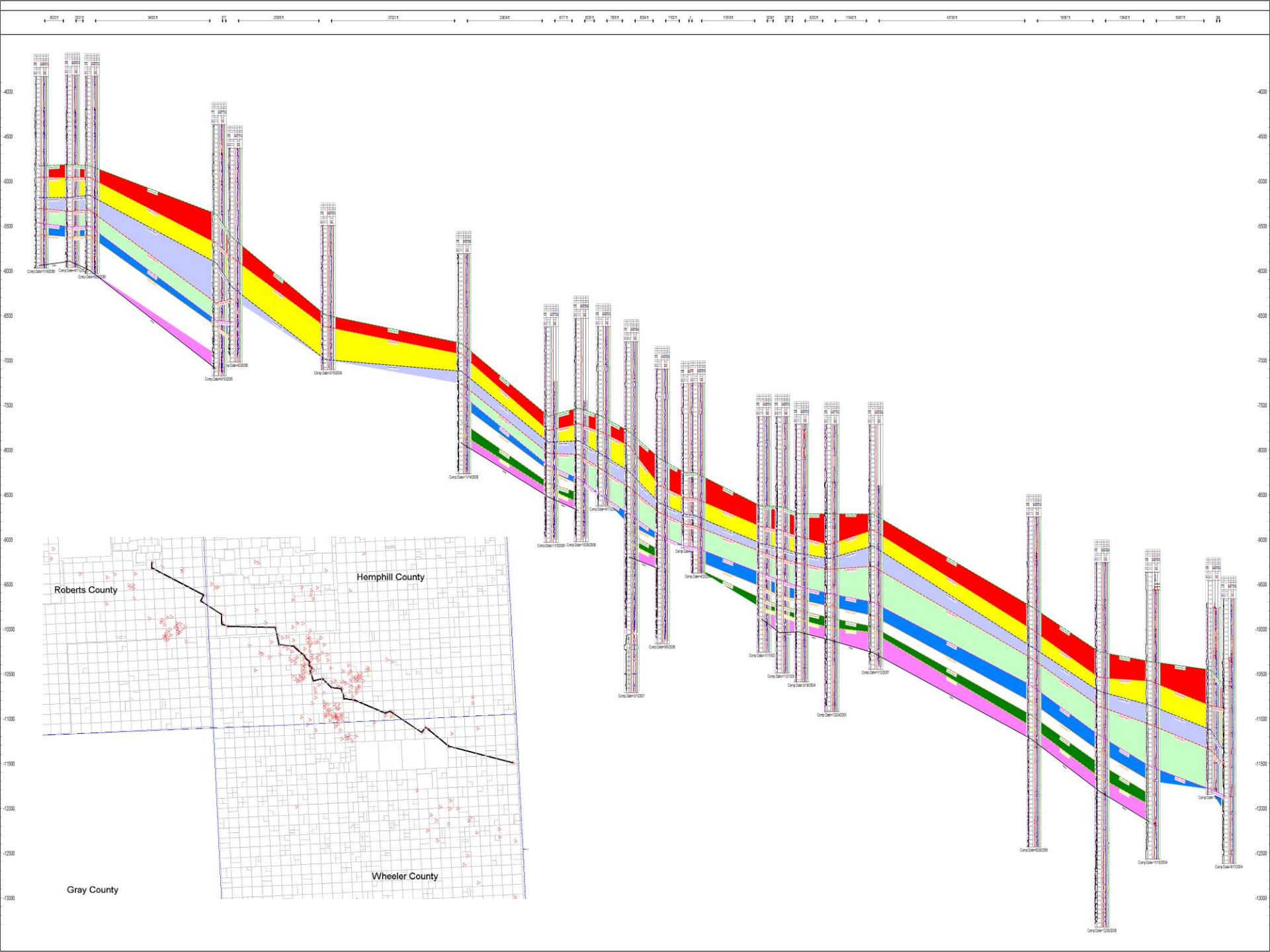
Log Normalization and Categorization Help with Pay Identification

Chris A. Talley

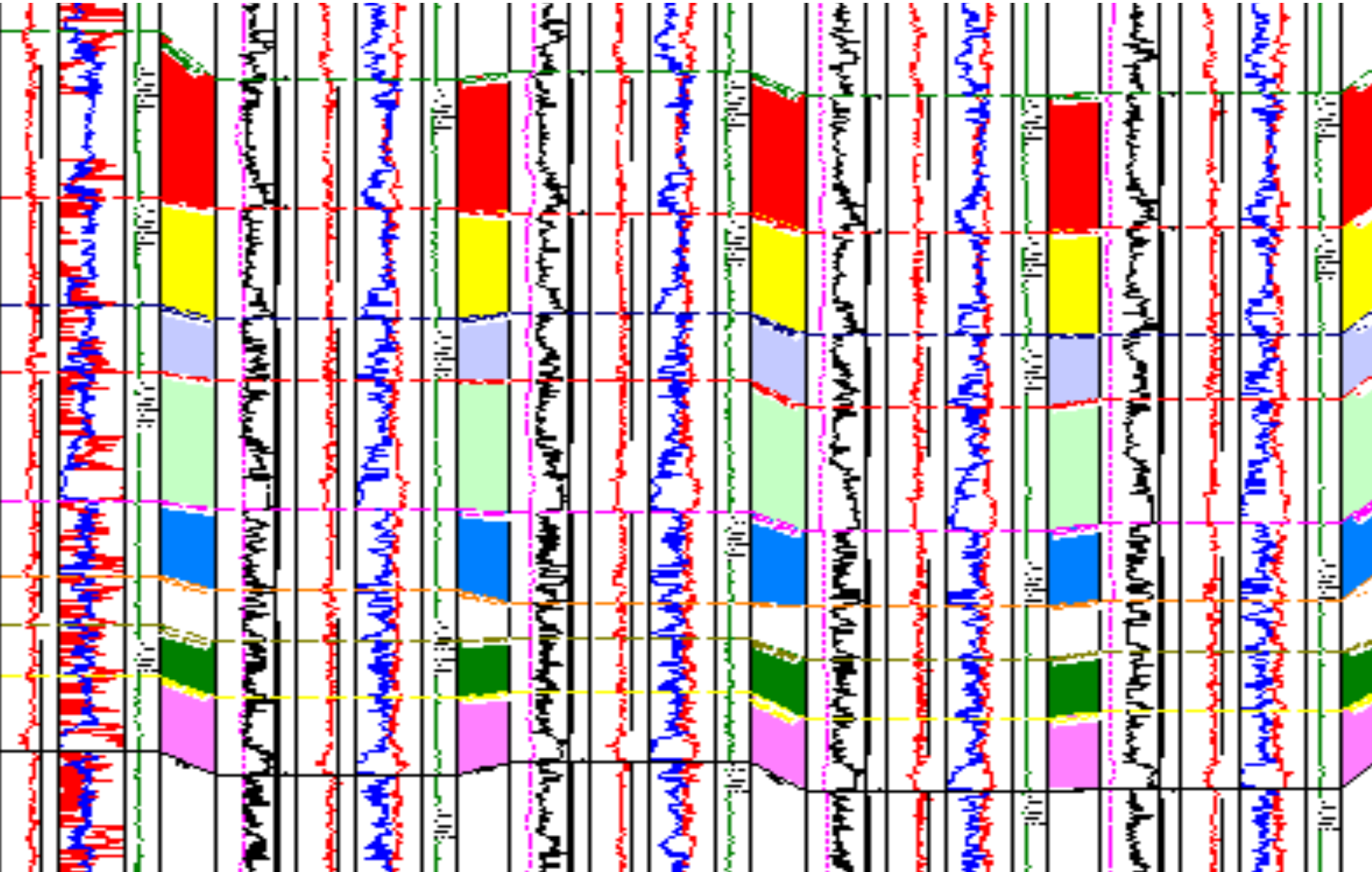
Irina Koulkova

Granite Wash Conference

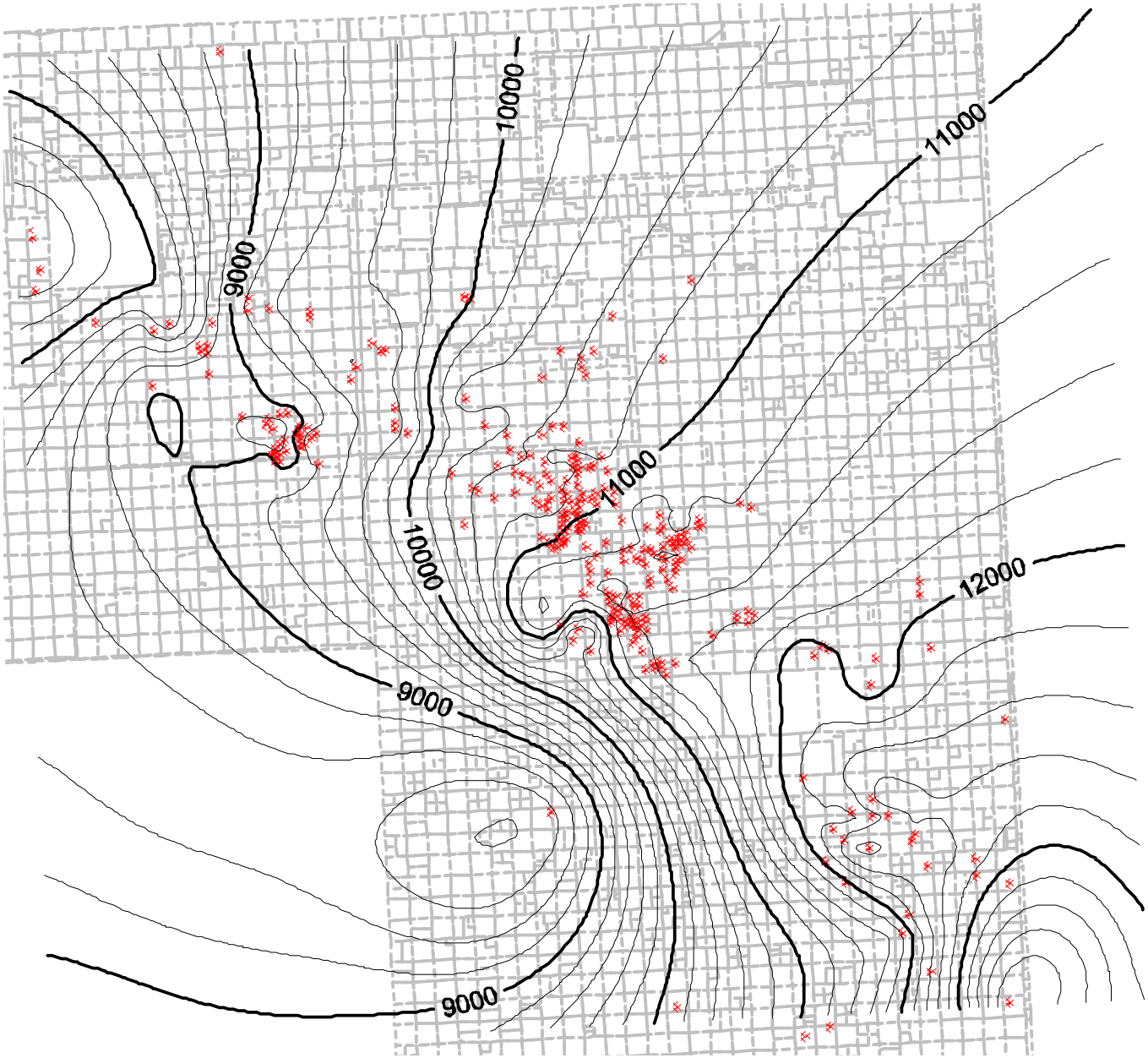

Roberts
Hemphill
Wheeler


Roberts County
Hemphill County
Gray County
Wheeler County

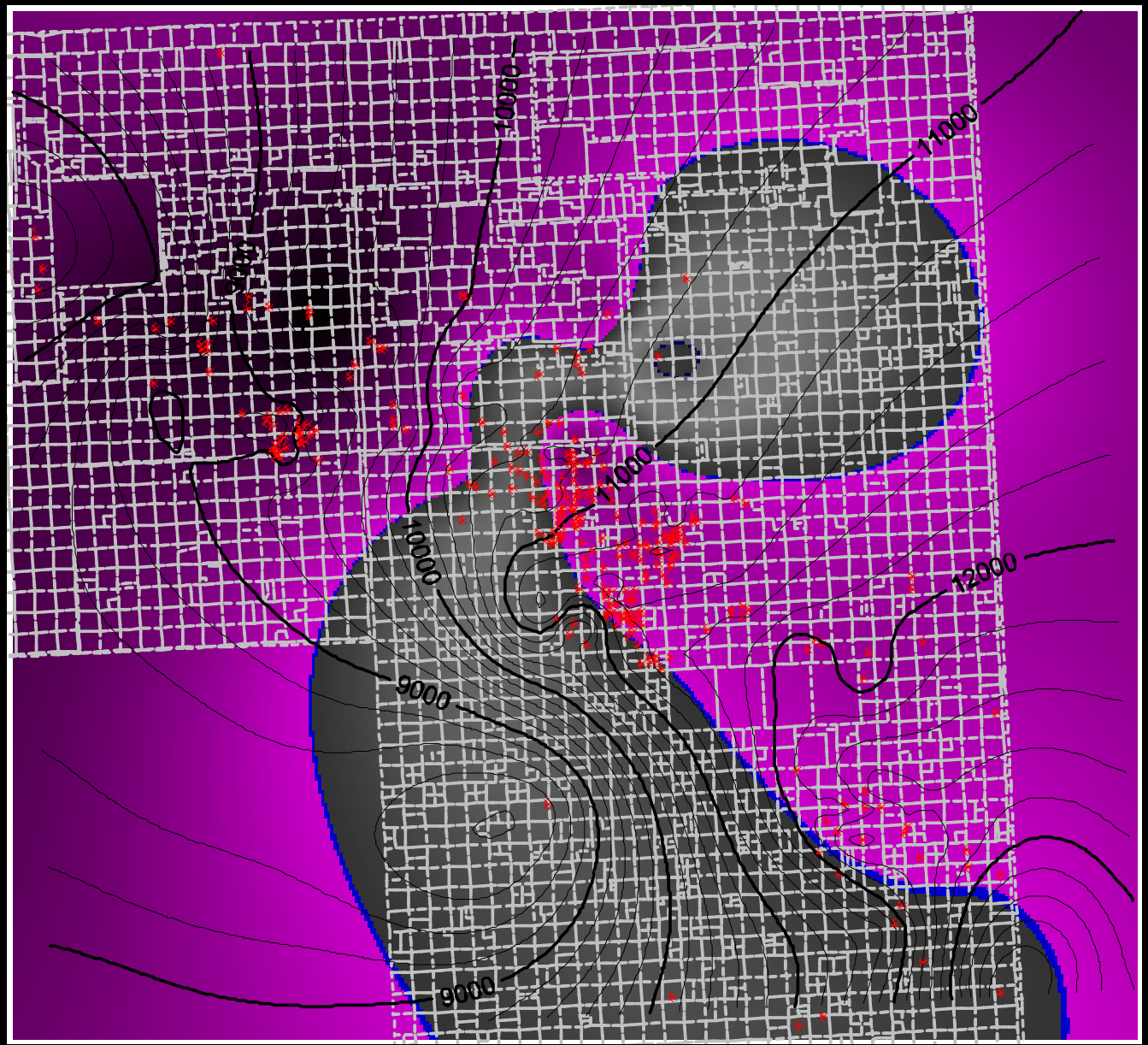
X-Section Closeup



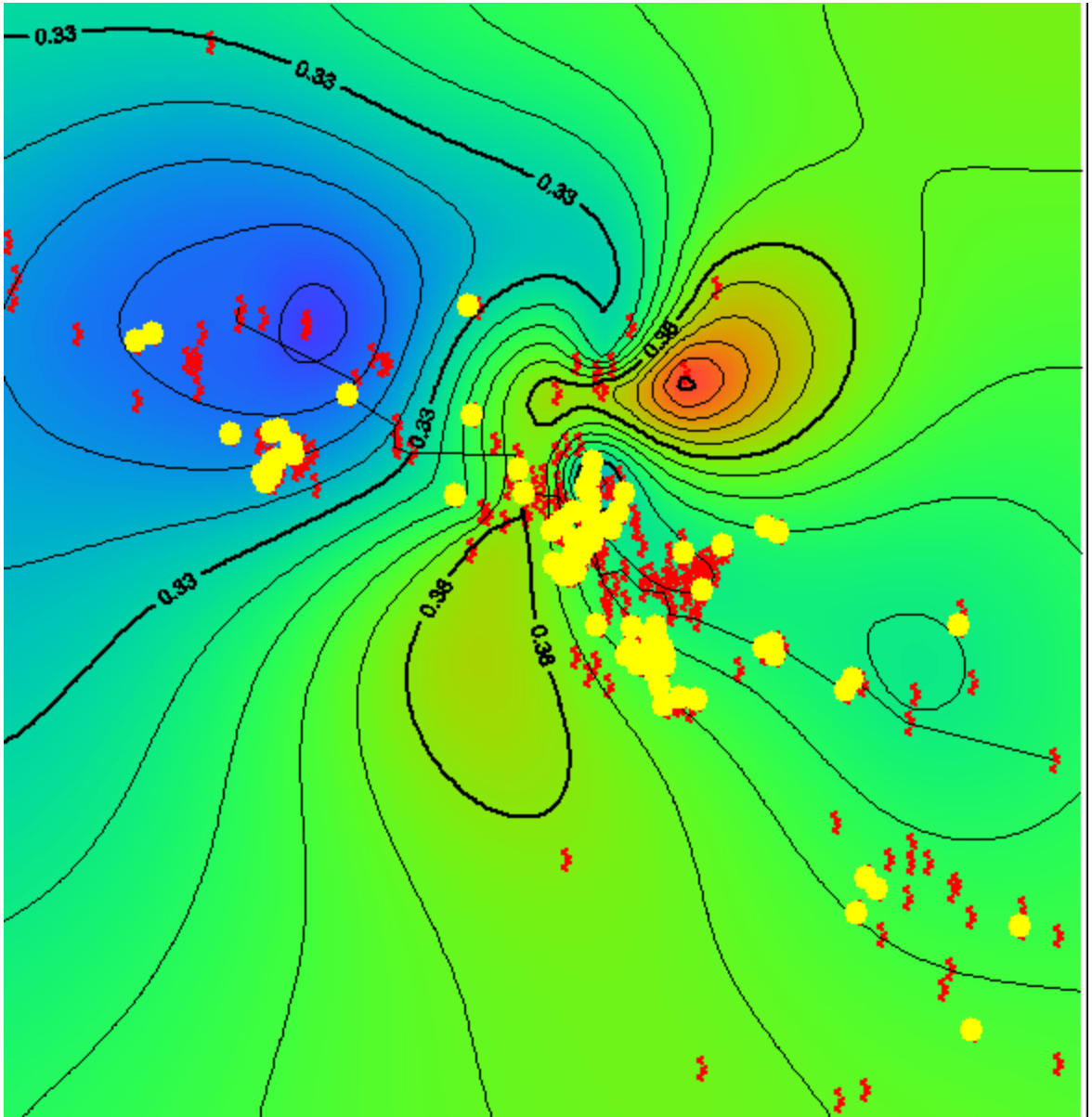
Granite Wash Top

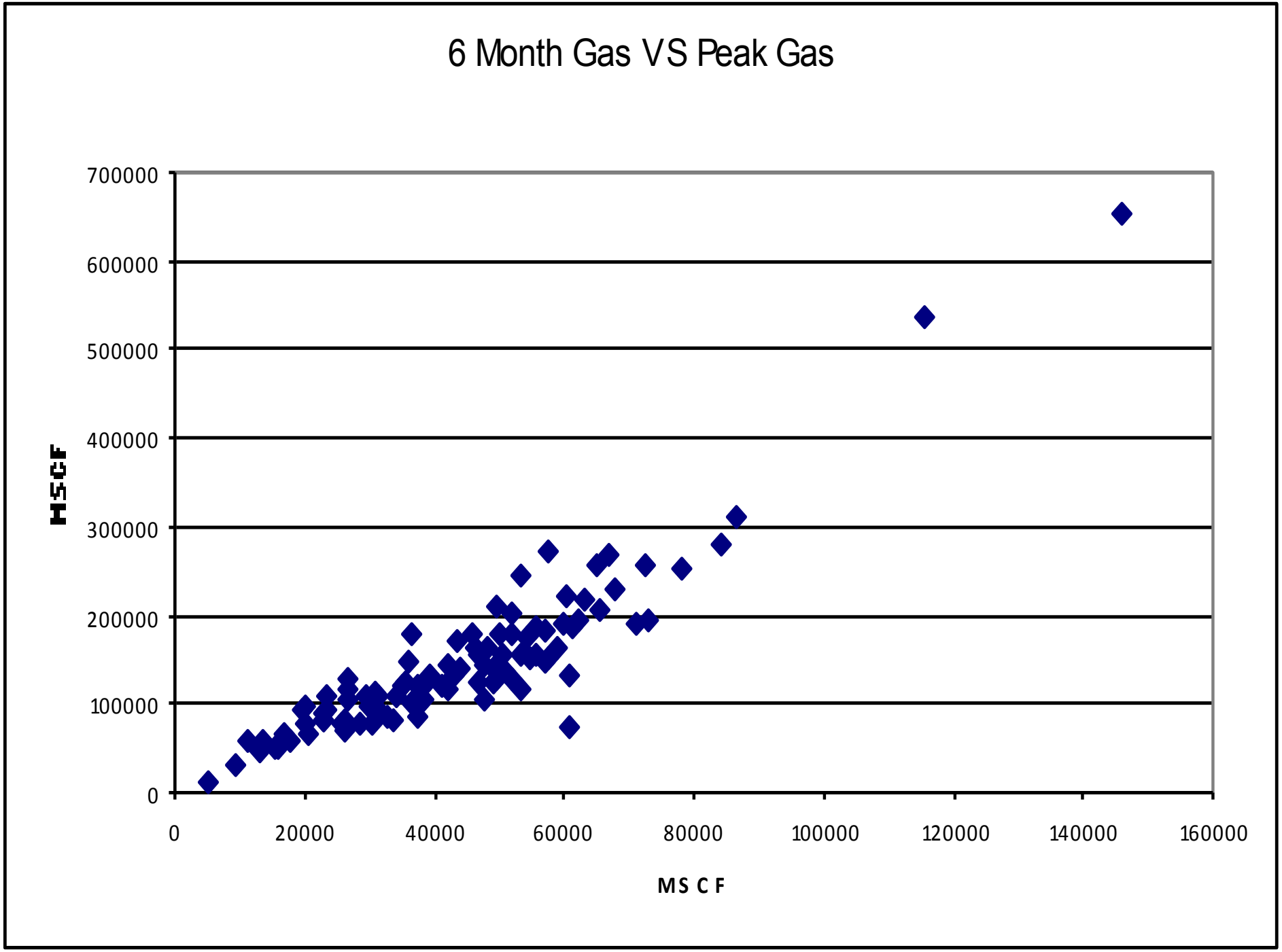


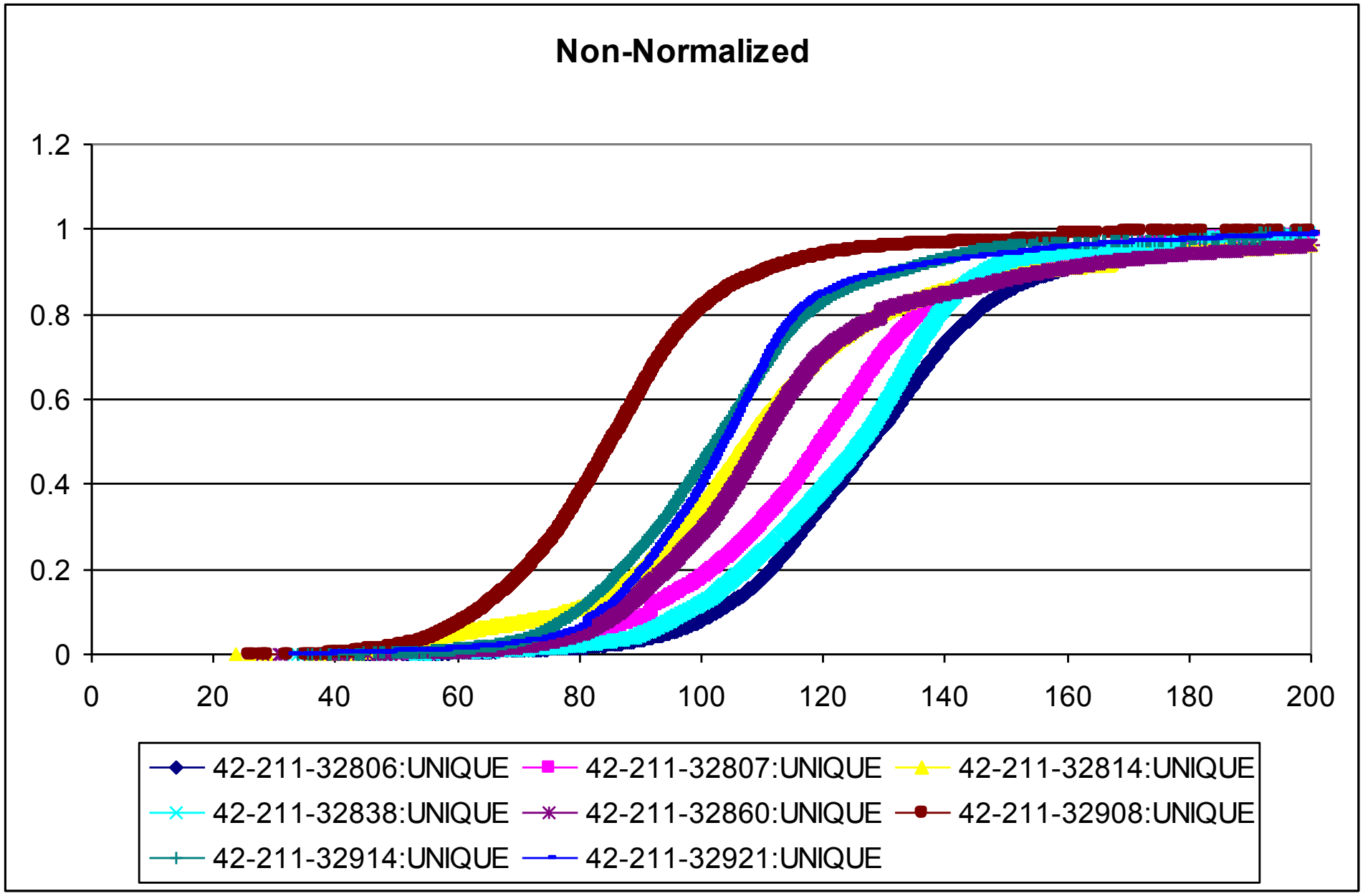
Granite Wash Top – BHP Overlay

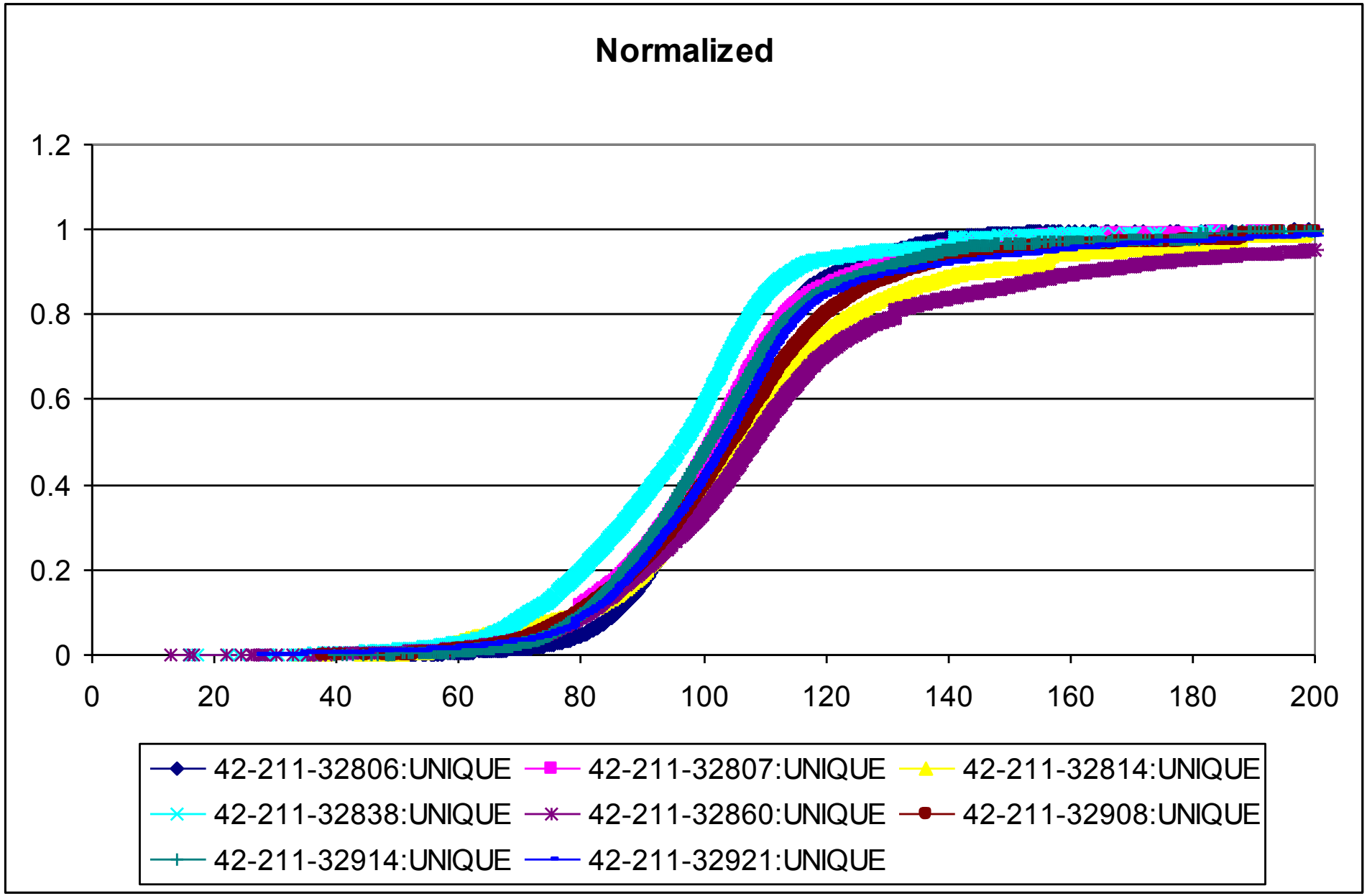


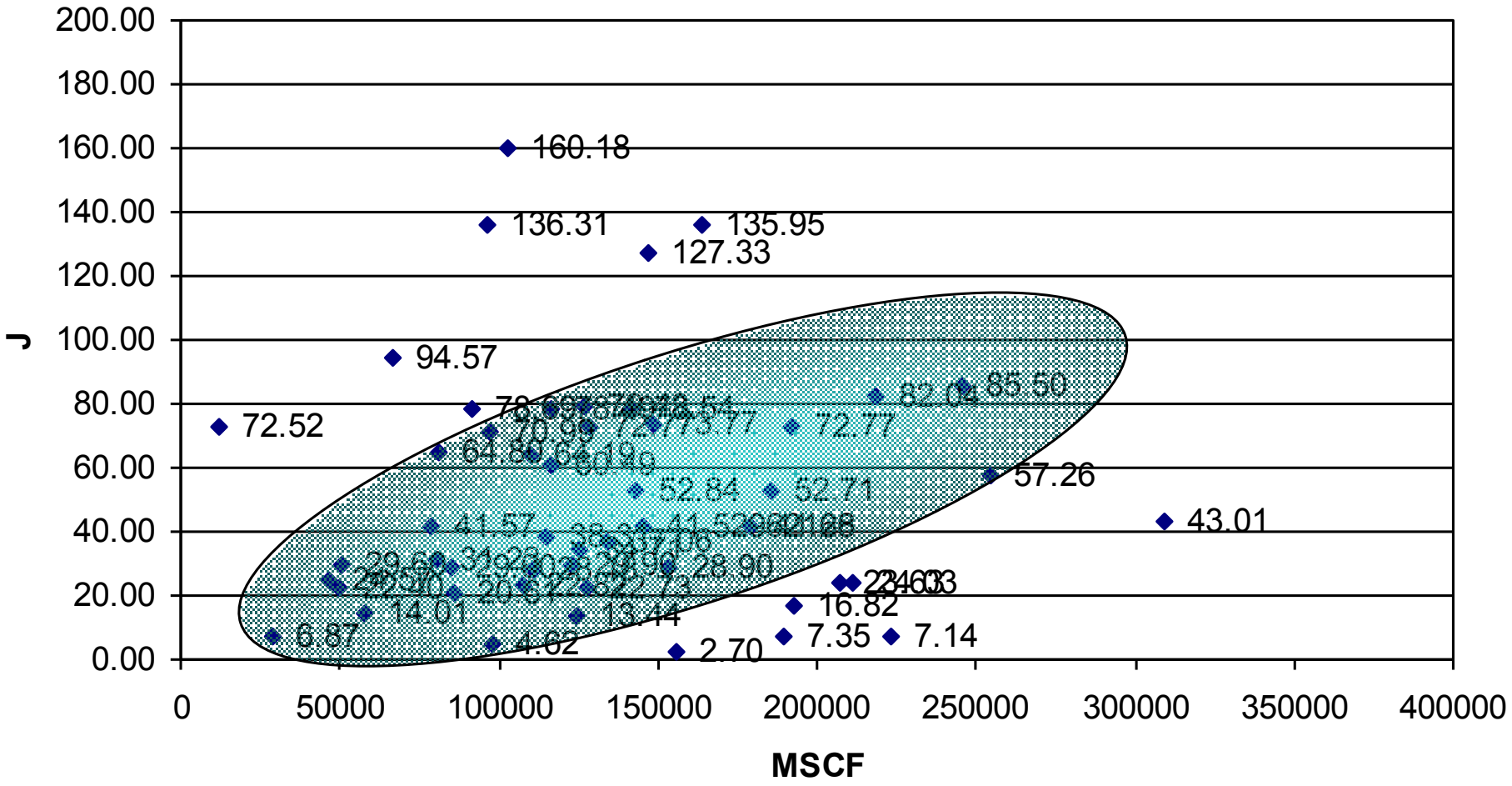
Wells w/ Frac Data

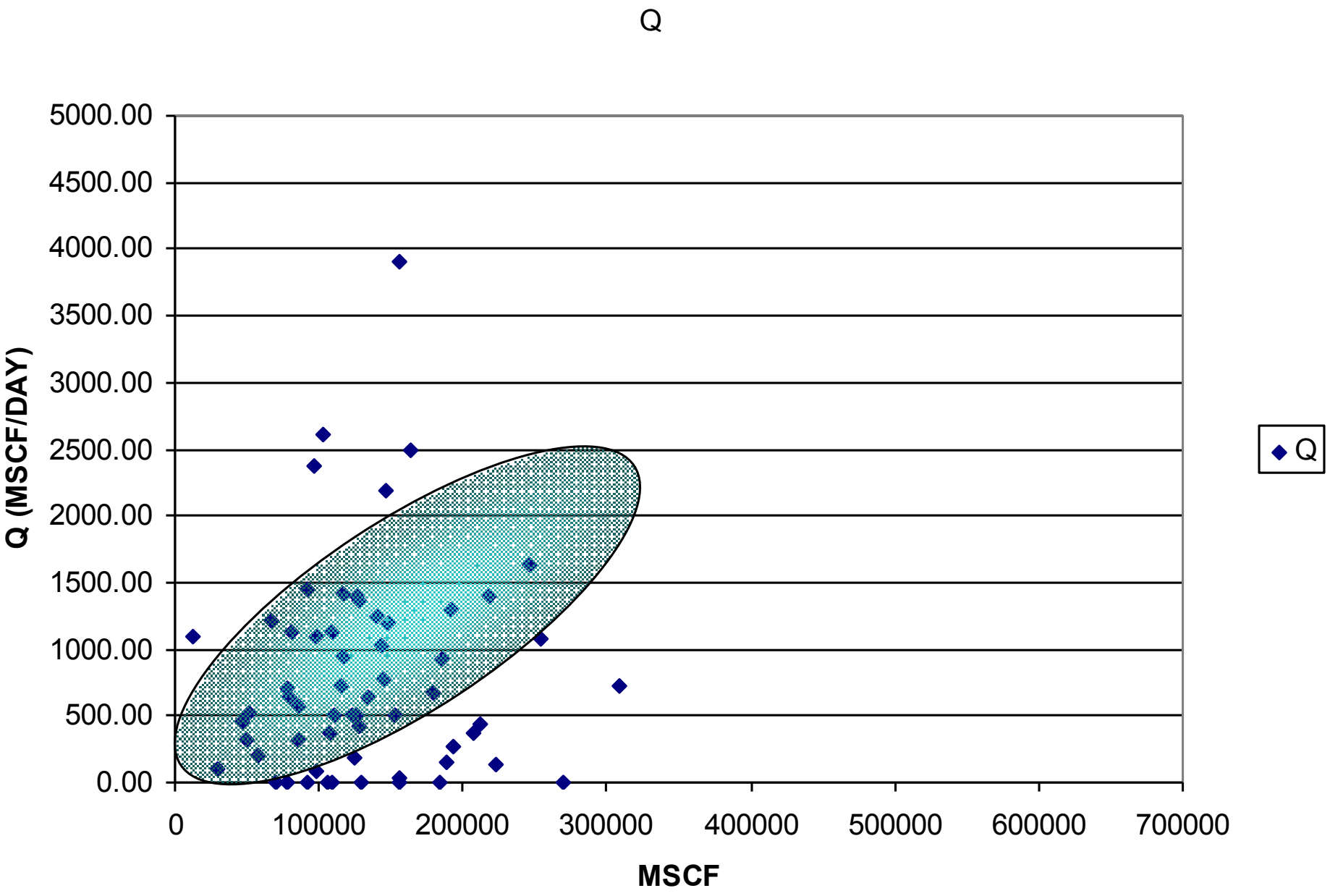



6 Month Gas VS Peak Gas
700000
600000
500000
400000
300000
200000
100000
0
MSCF
0
20000
40000
60000
80000
100000
120000
140000
160000
MS C F


Non-Normalized
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
120
140
160
180
200
42-211-32806:UNIQUE
42-211-32807:UNIQUE
42-211-32814:UNIQUE
42-211-32838:UNIQUE
42-211-32860:UNIQUE
42-211-32908:UNIQUE
42-211-32914:UNIQUE
42-211-32921:UNIQUE


Normalized
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
120
140
160
180
200
42-211-32806:UNIQUE
42-211-32807:UNIQUE
42-211-32814:UNIQUE
42-211-32838:UNIQUE
42-211-32860:UNIQUE
42-211-32908:UNIQUE
42-211-32914:UNIQUE
42-211-32921:UNIQUE


J Vs. 6 Month Gas
J
MSCF
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0
50000
100000
150000
200000
250000
300000
350000
400000
160.18
136.31
135.95
127.33
94.57
72.52
85.50
72.77
57.26
52.84
52.71
43.01
41.57
28.90
16.82
14.01
13.44
7.35
7.14
6.87
4.62
2.70


Q
5000.00
4500.00
4000.00
3500.00
3000.00
2500.00
2000.00
1500.00
1000.00
500.00
0.00
Q (MSCF/DAY)
0
100000
200000
300000
400000
500000
600000
700000
MSCF
Q