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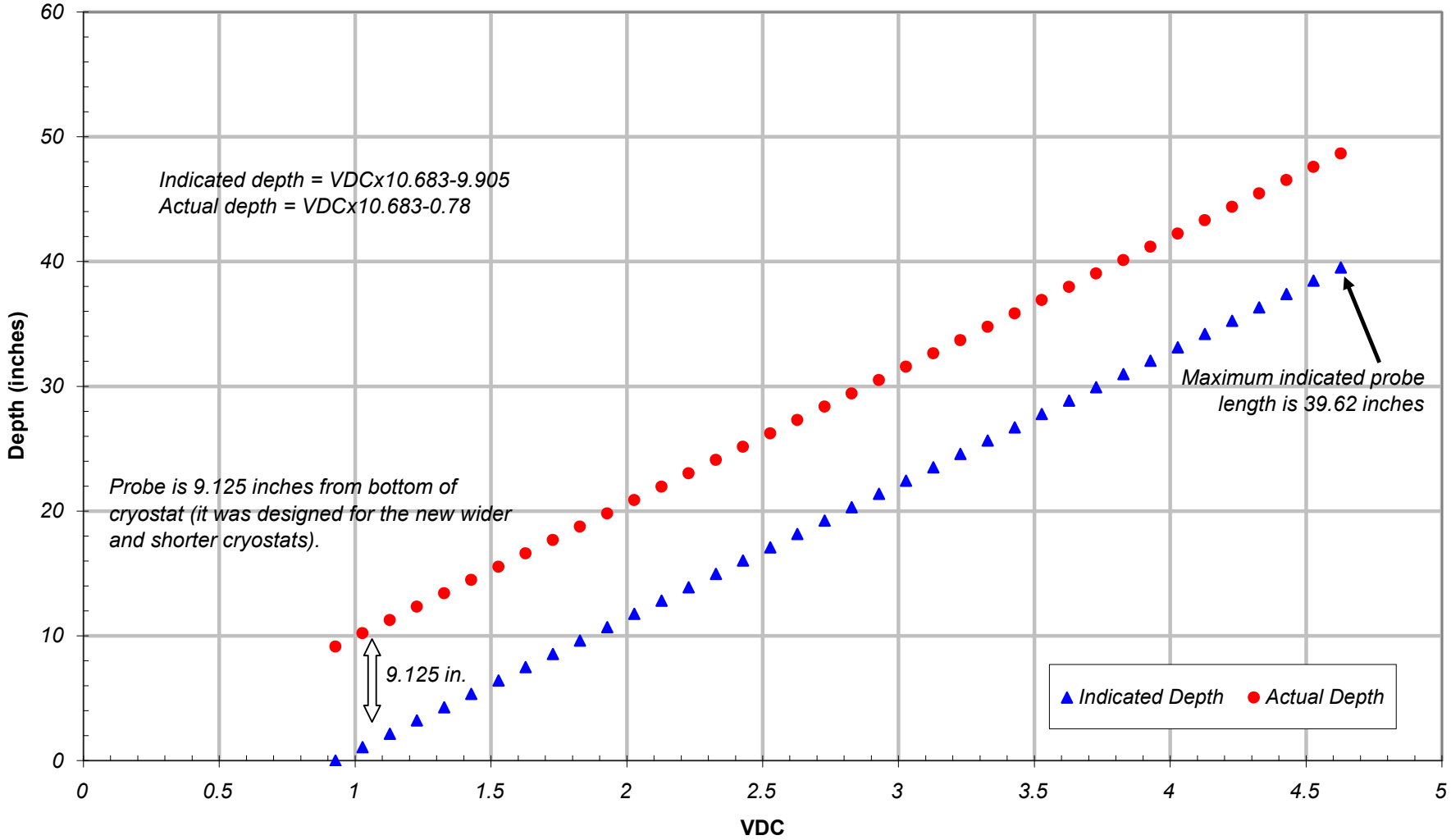
1/30/06

Level Probe Ouput Voltage Relationship



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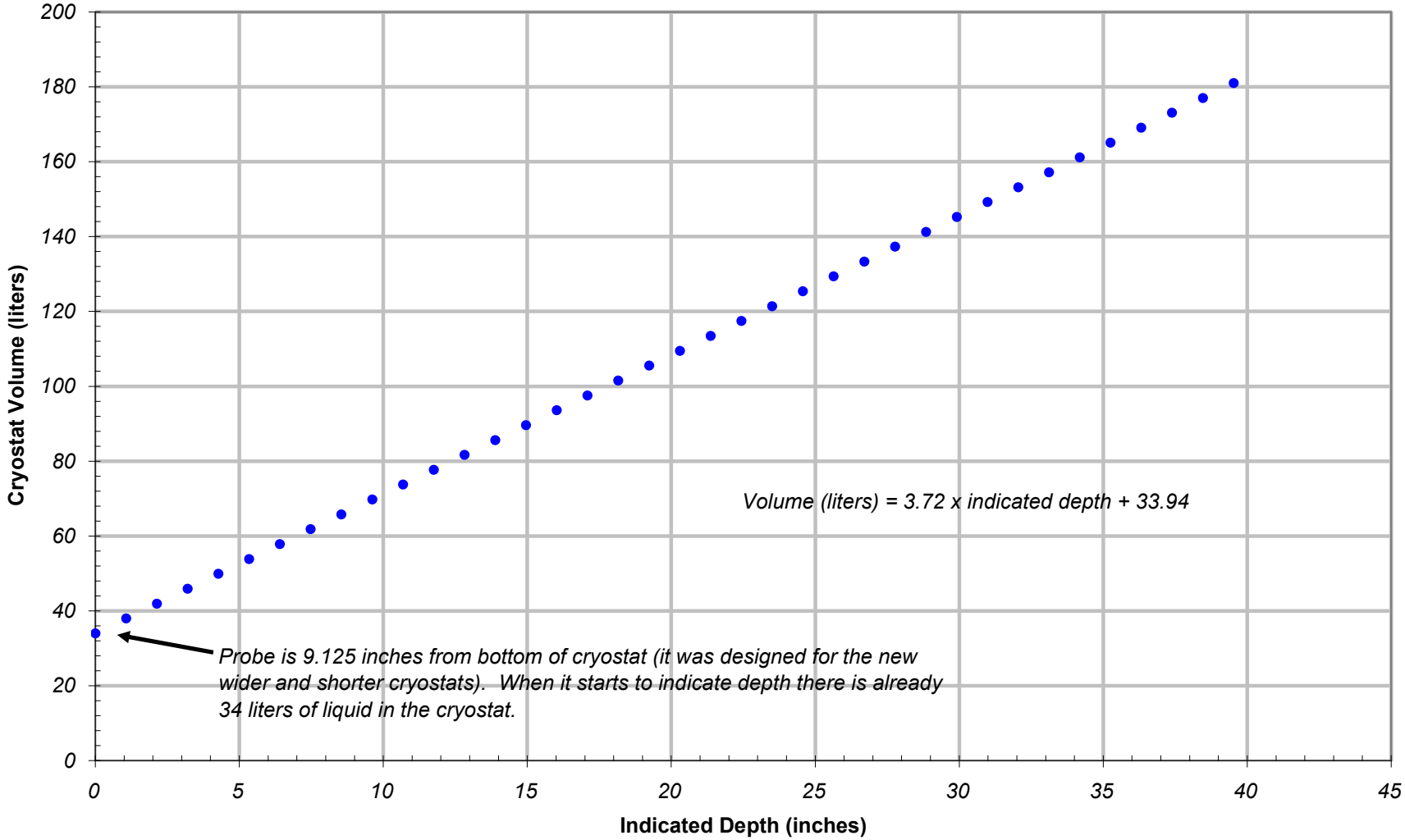
Cryostat Volume vs. Level Probe Indicated Depth



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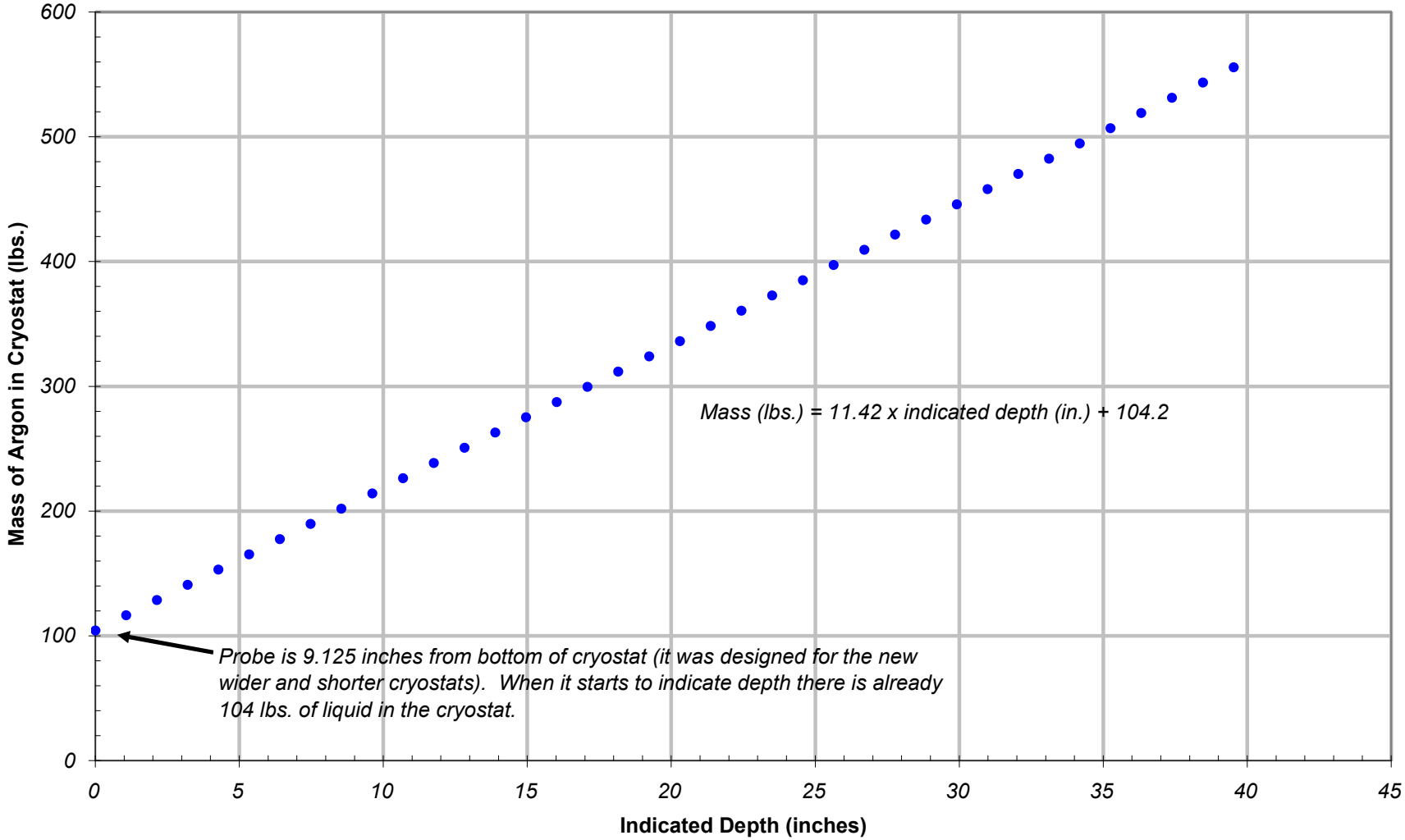
Argon Mass vs. Level Probe Indicated Depth



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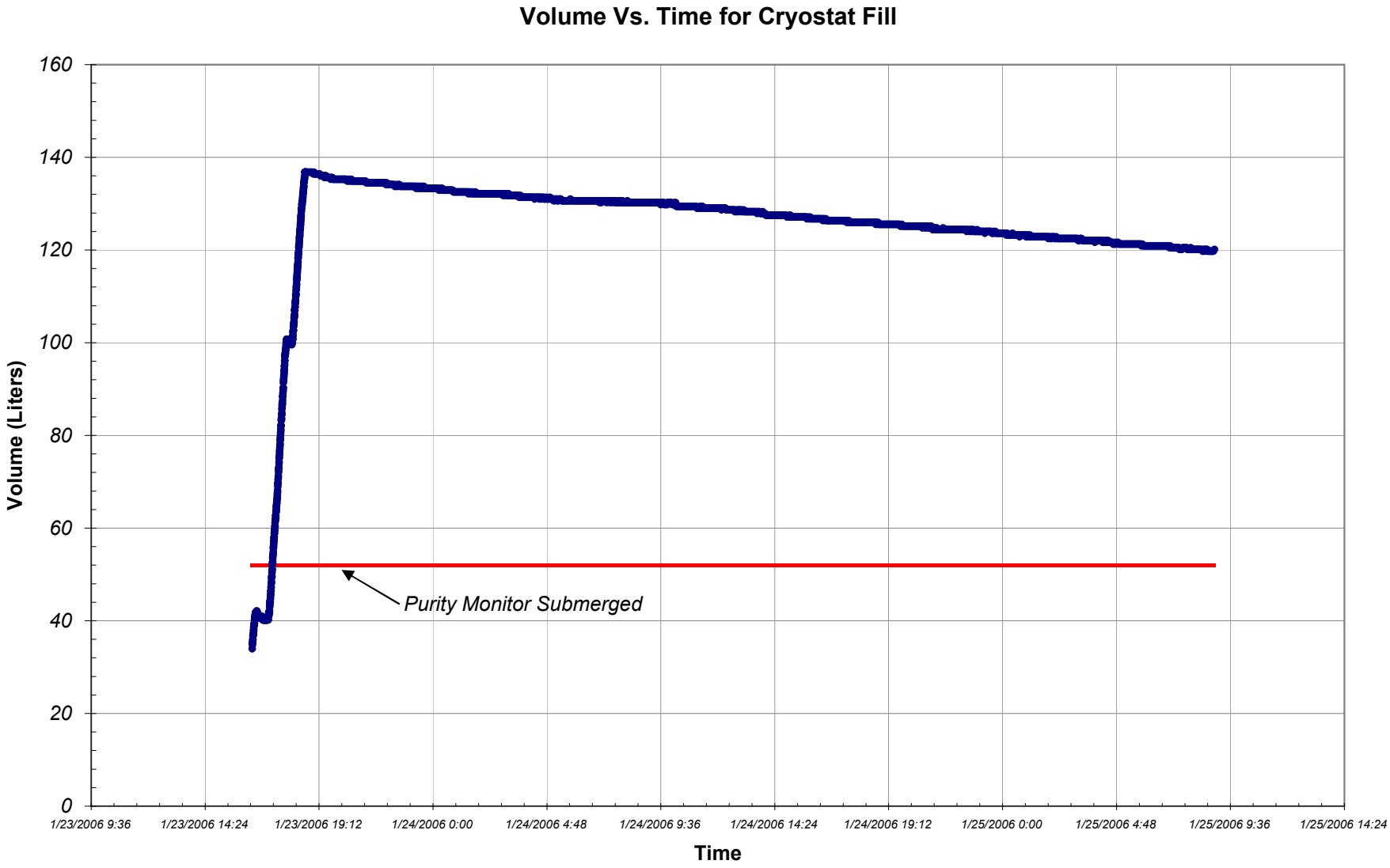
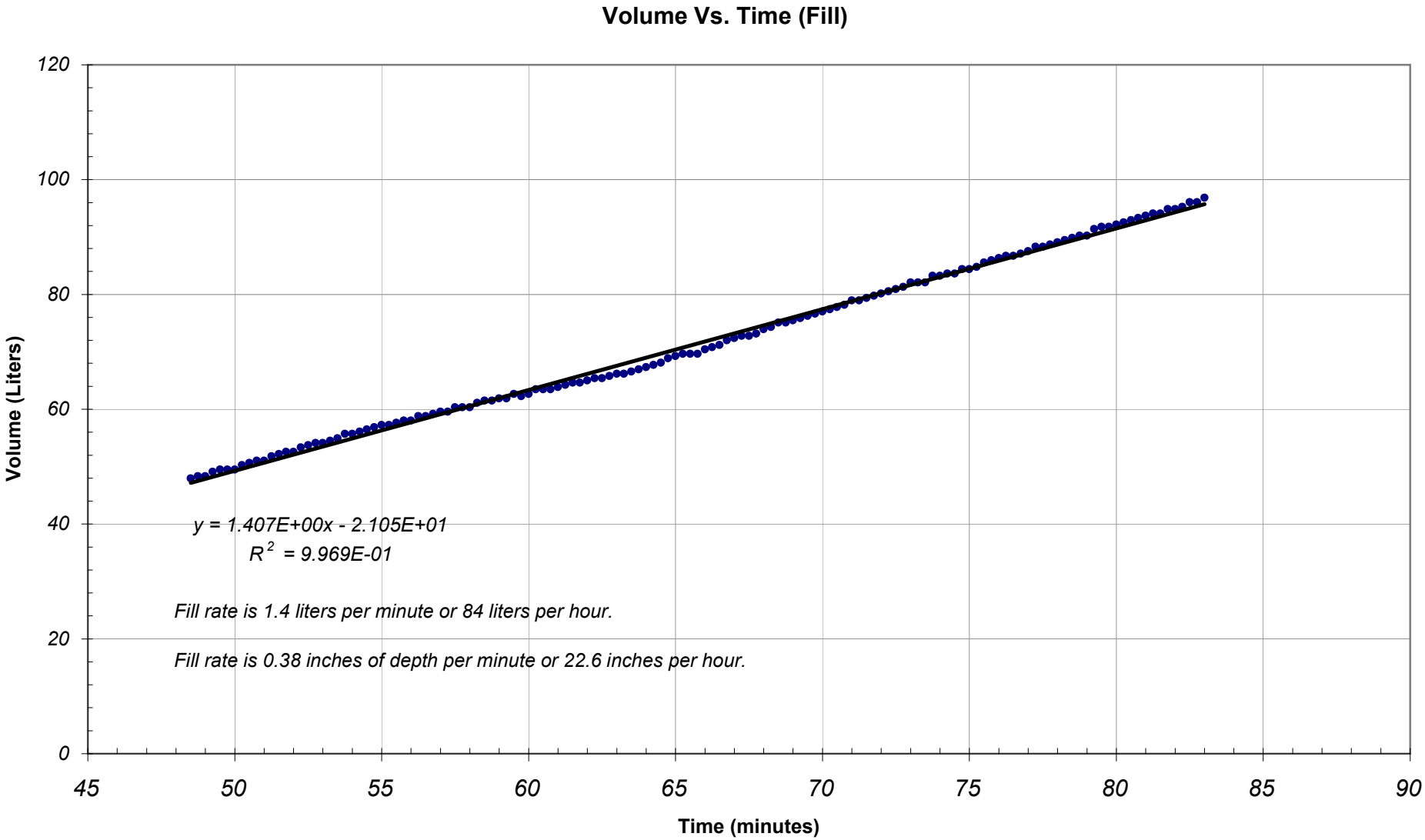
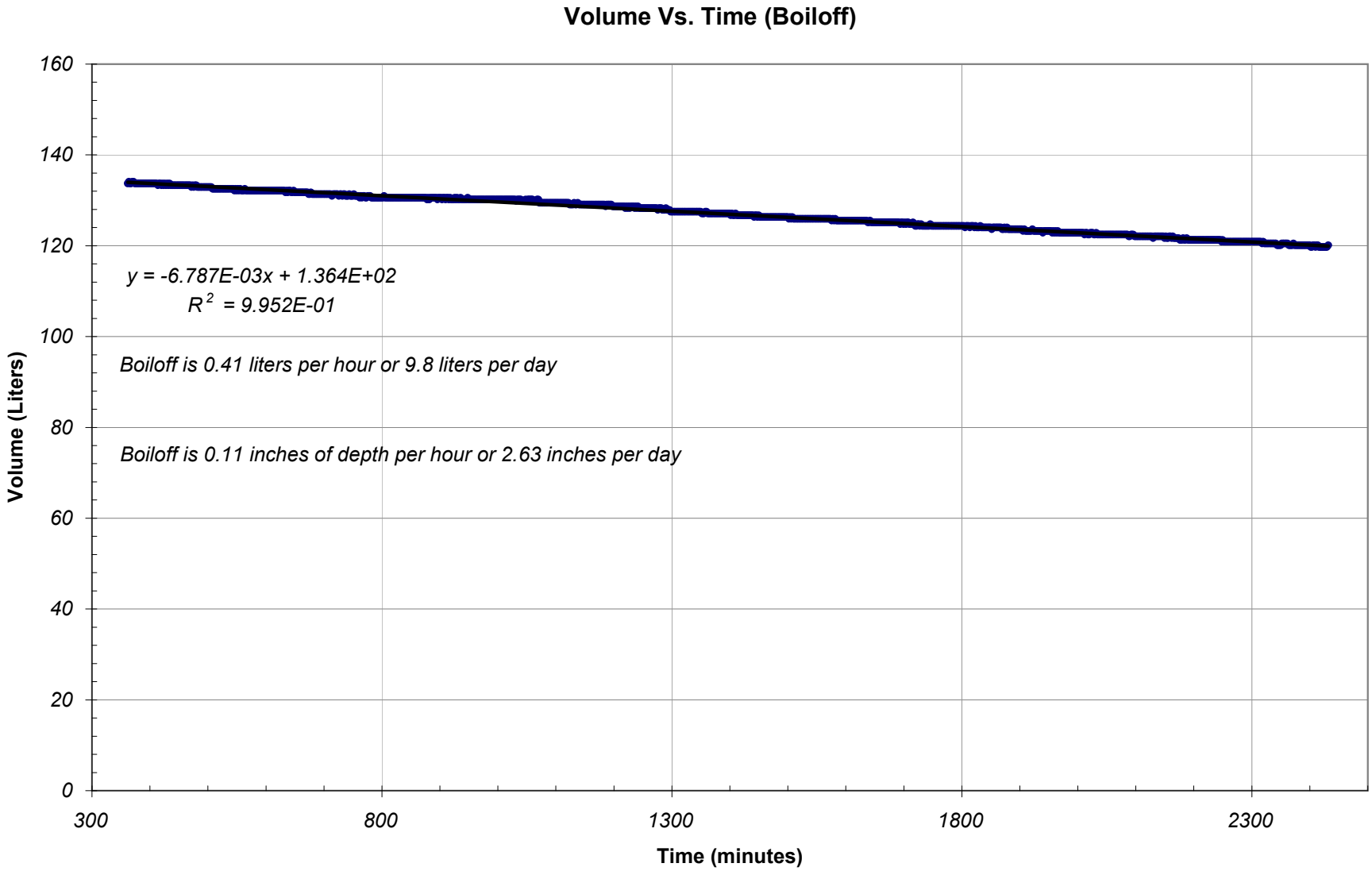
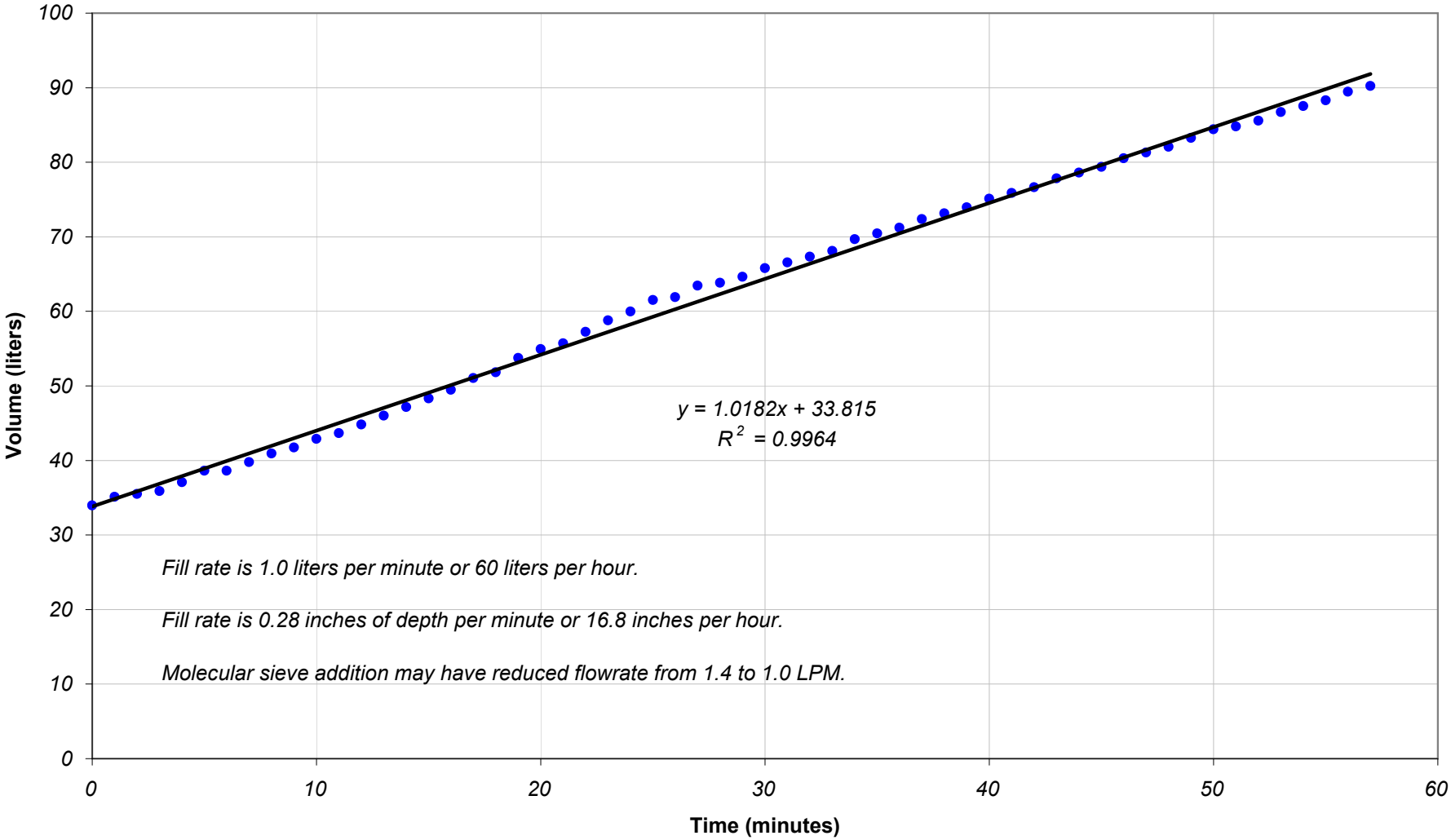
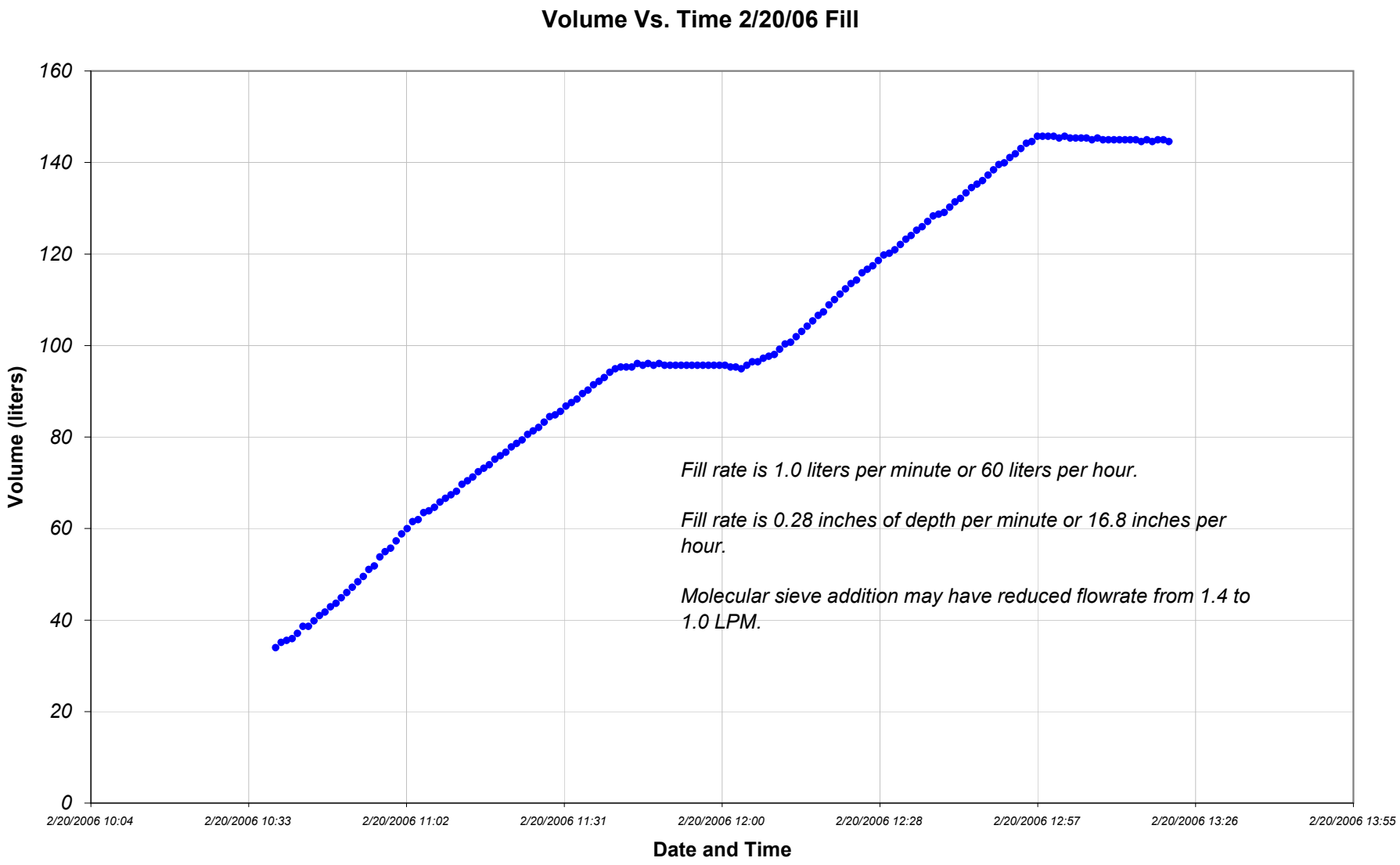



Volume Vs. Time (Fill)
Volume (Liters)
Time (minutes)
120
100
80
60
40
20
0
45
50
55
60
65
70
75
80
85
90
y = 1.407E+00x - 2.105E+01
R2 = 9.969E-01
Fill rate is 1.4 liters per minute or 84 liters per hour.
Fill rate is 0.38 inches of depth per minute or 22.6 inches per hour.


Volume Vs. Time (Boiloff)
160
140
120
100
80
60
40
20
0
Volume (Liters)
300
800
1300
1800
2300
Time (minutes)
y = -6.787E-03x + 1.364E+02
R 2 = 9.952E-01
Boiloff is 0.41 liters per hour or 9.8 liters per day
Boiloff is 0.11 inches of depth per hour or 2.63 inches per day

Volume Vs. Time 2/20/06 Fill




Volume Vs. Time 2/20/06 Fill
Volume (liters)
160
140
120
100
80
60
40
20
0
2/20/2006 10:04
2/20/2006 10:33
2/20/2006 11:02
2/20/2006 11:31
2/20/2006 12:00
2/20/2006 12:28
2/20/2006 12:57
2/20/2006 13:26
2/20/2006 13:55
Date and Time
Fill rate is 1.0 liters per minute or 60 liters per hour.
Fill rate is 0.28 inches of depth per minute or 16.8 inches per hour.
Molecular sieve addition may have reduced flowrate from 1.4 to 1.0 LPM.