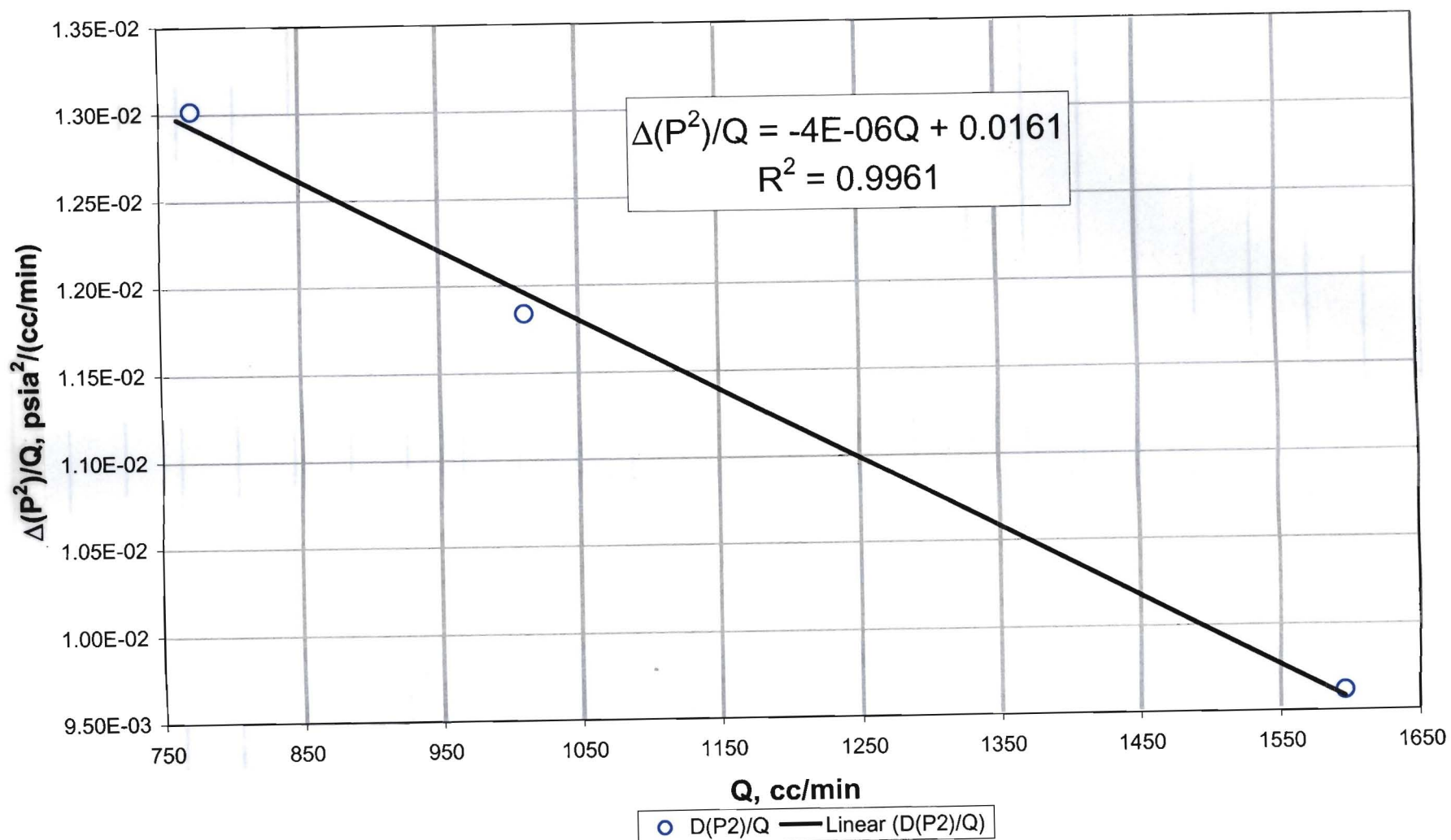
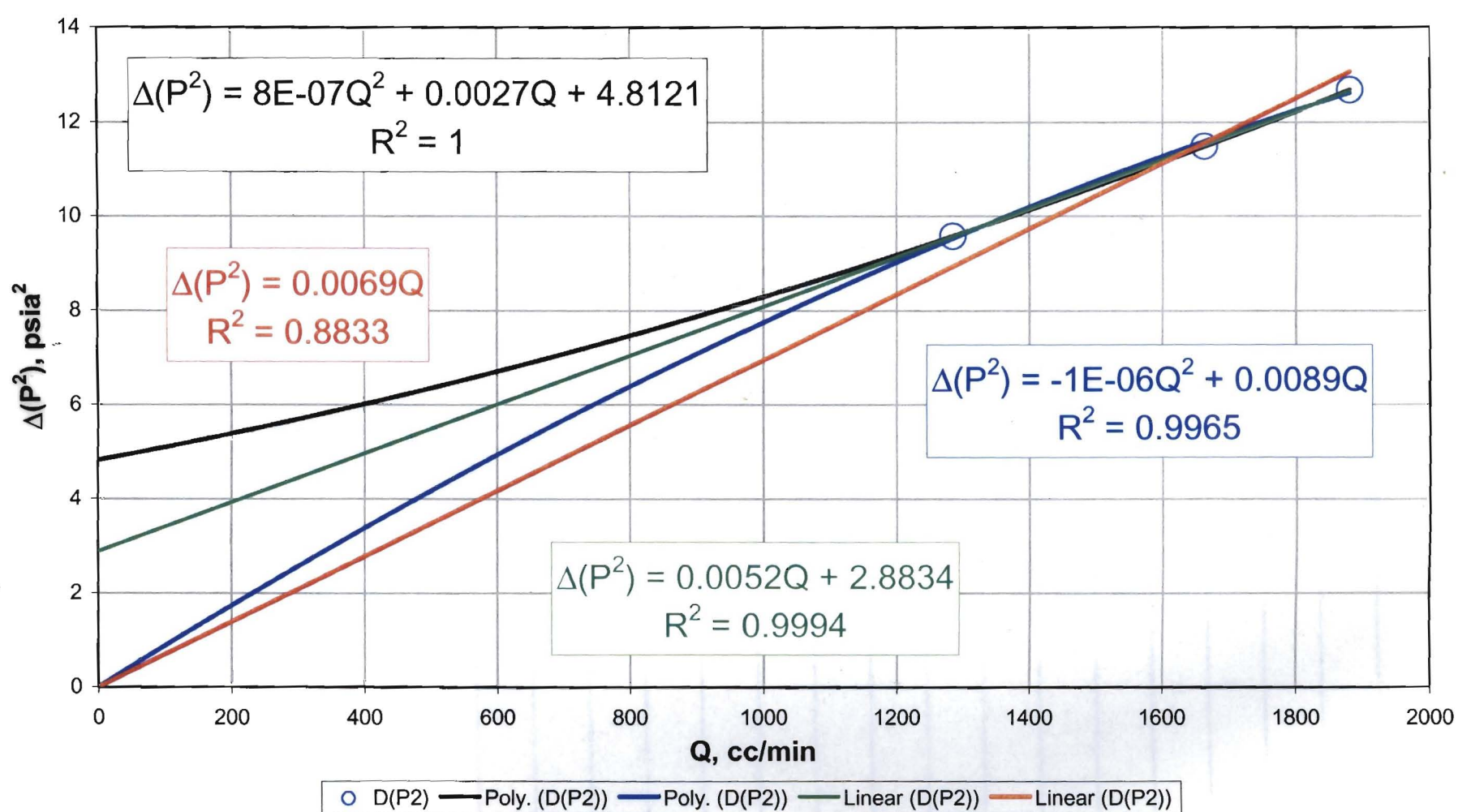


Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect: Drillhole 17

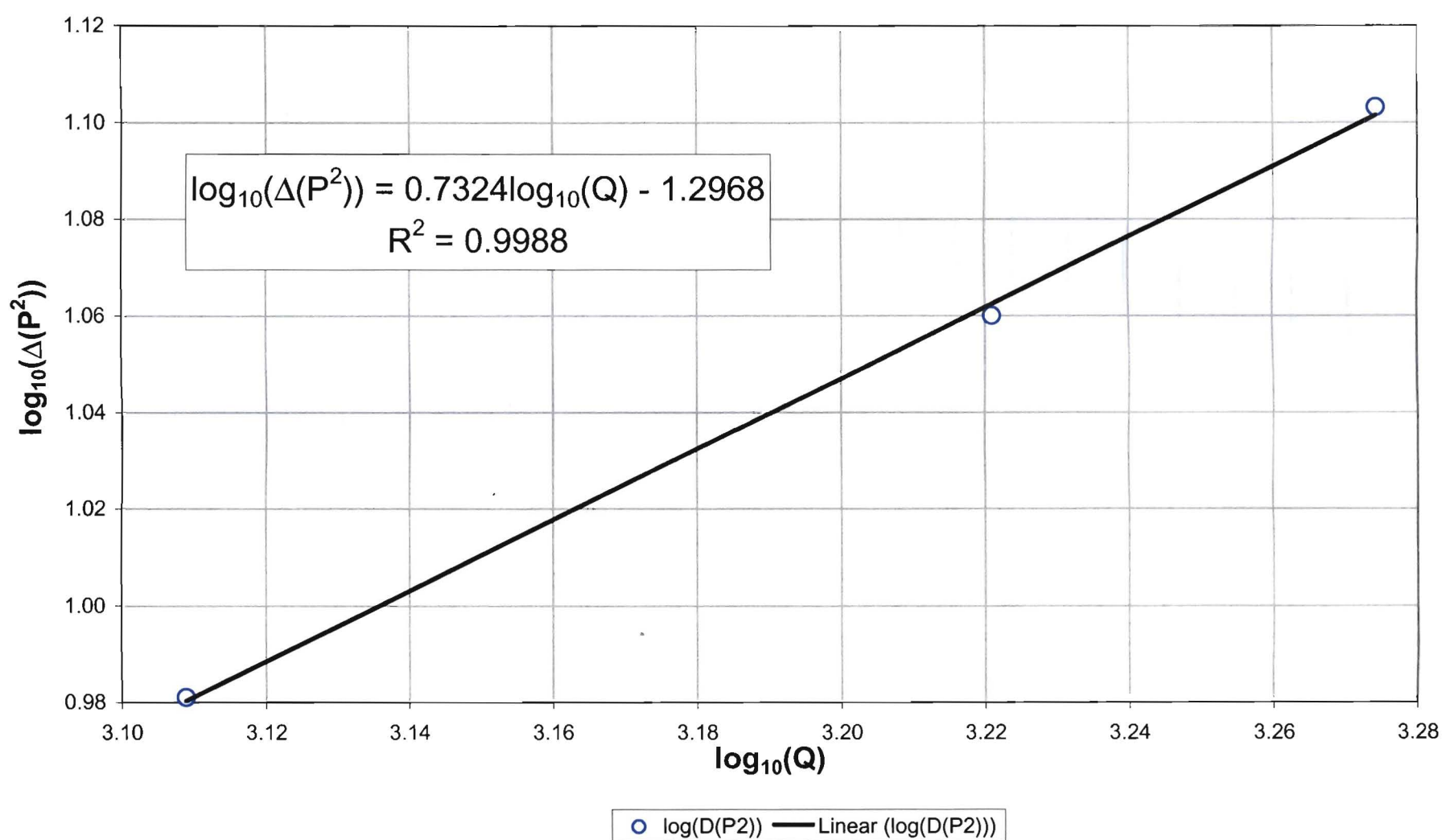


Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 18

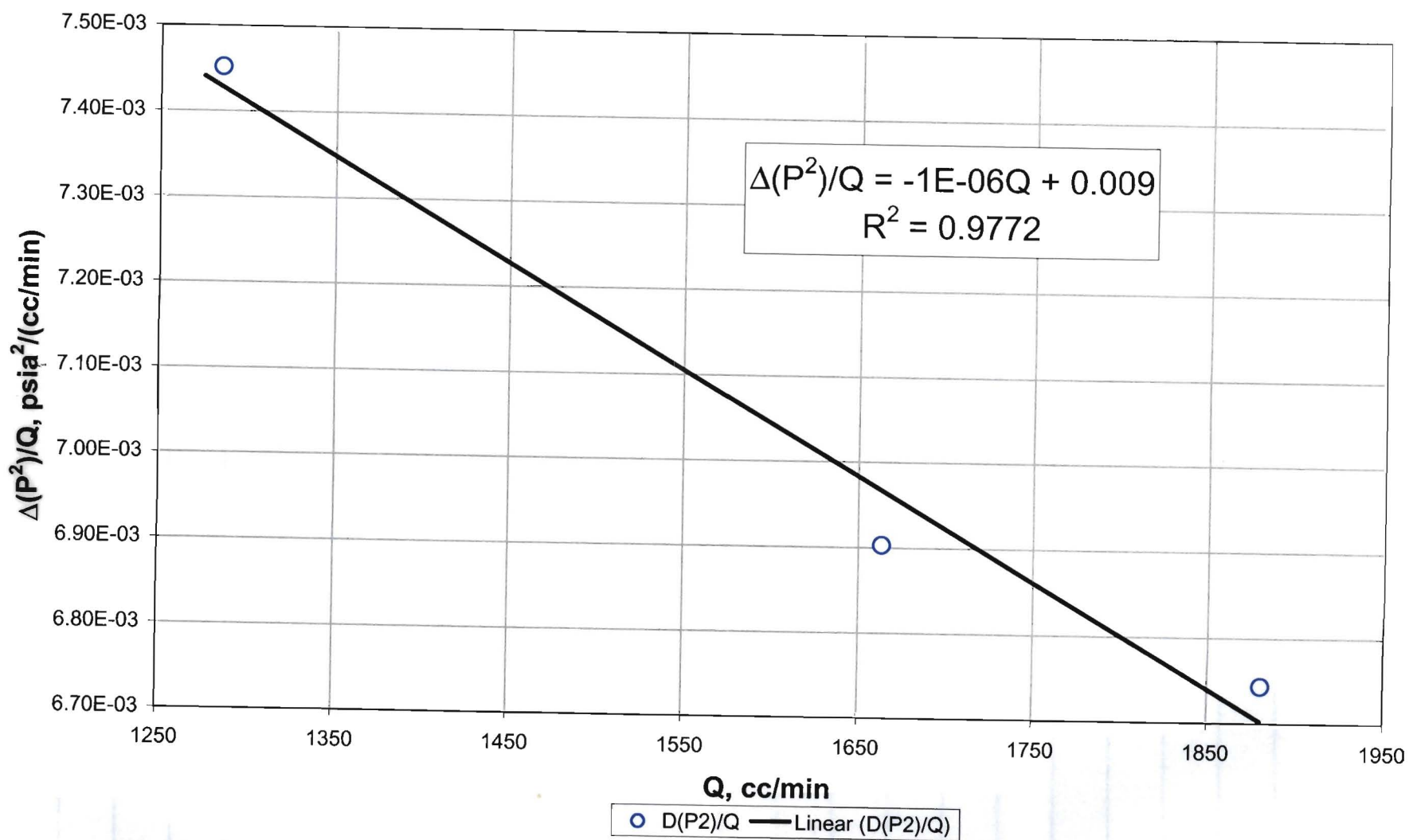


Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of high-velocity flow effects (when the slope is greater than unity)

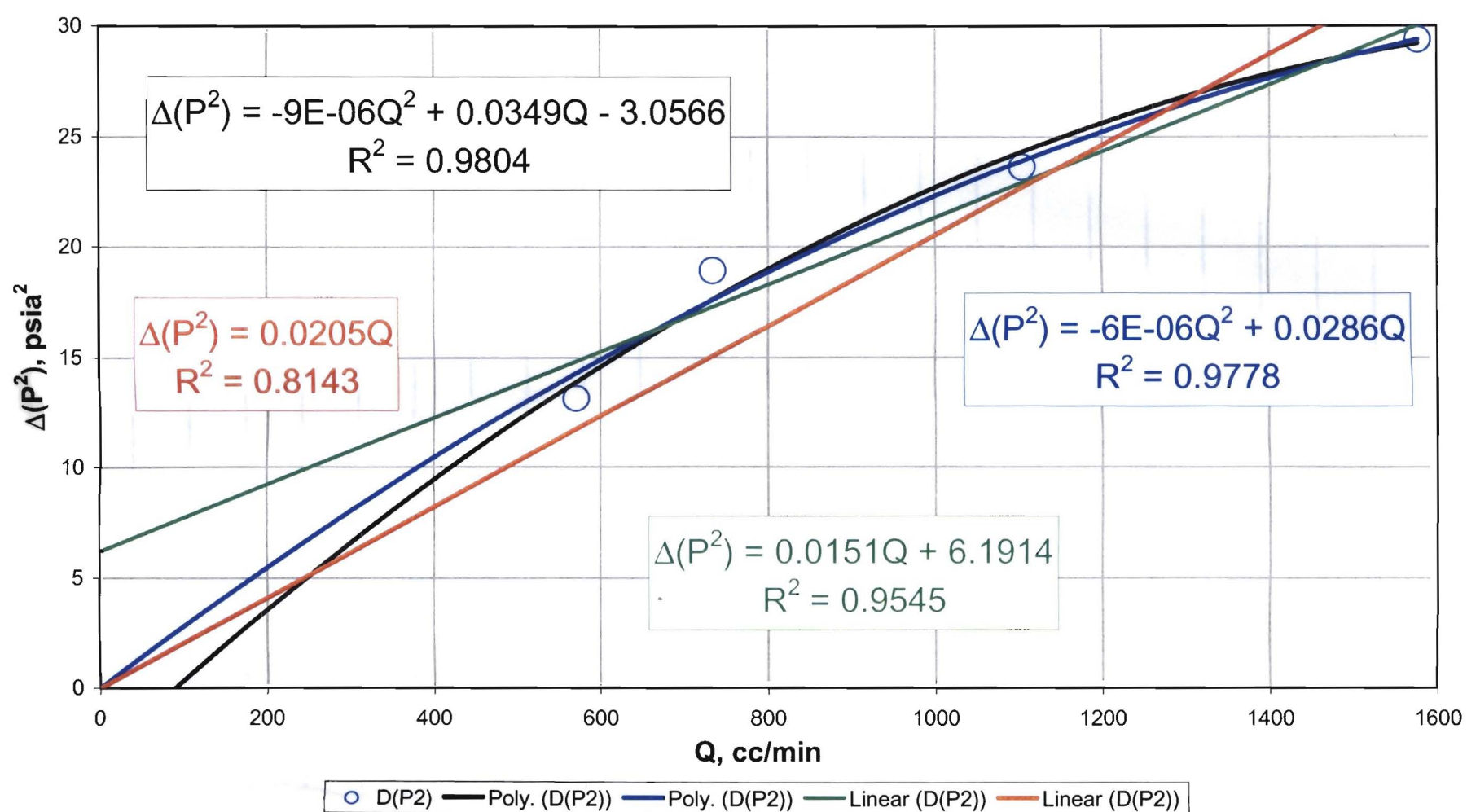
X Transect: Drillhole 18



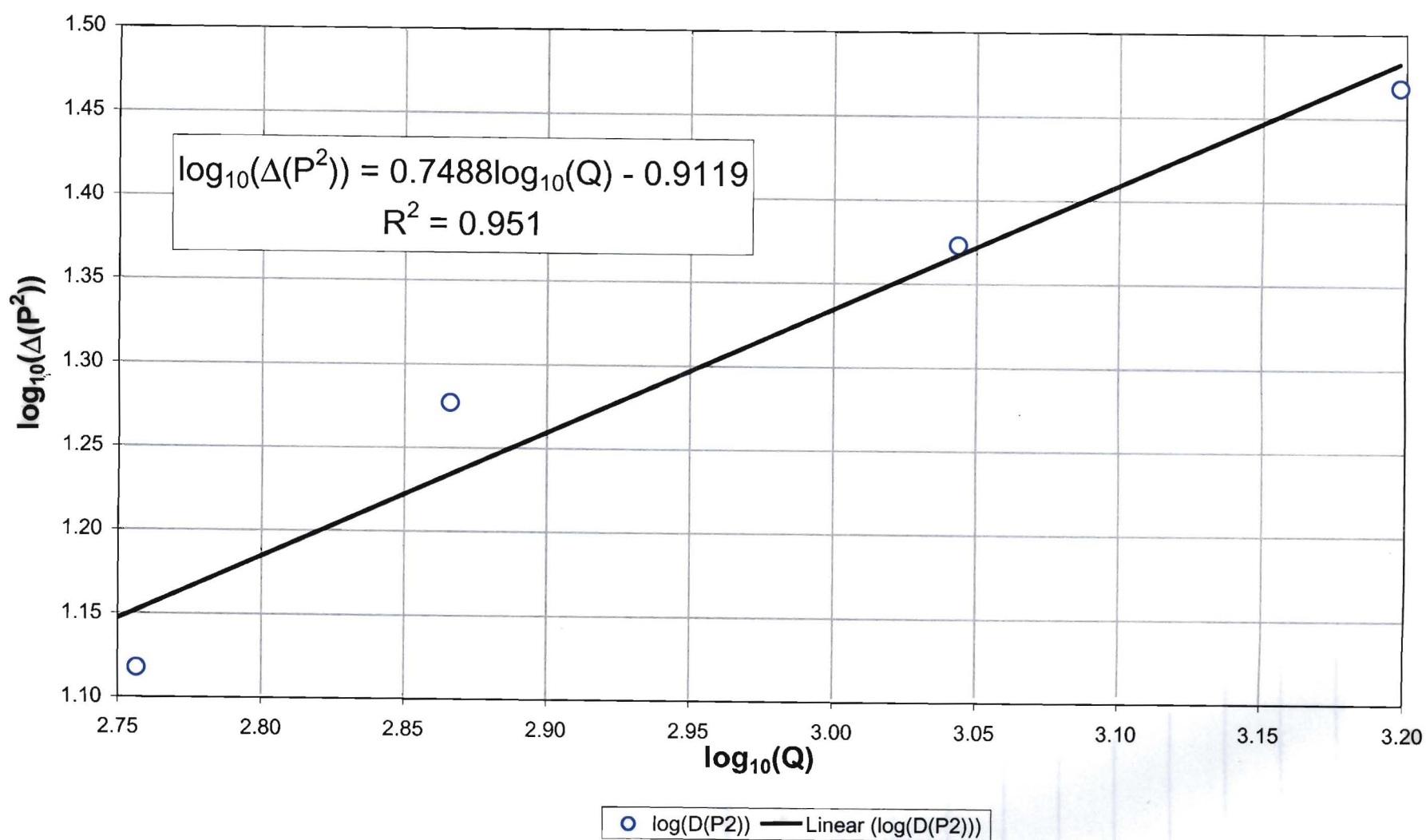
Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect: Drillhole 18



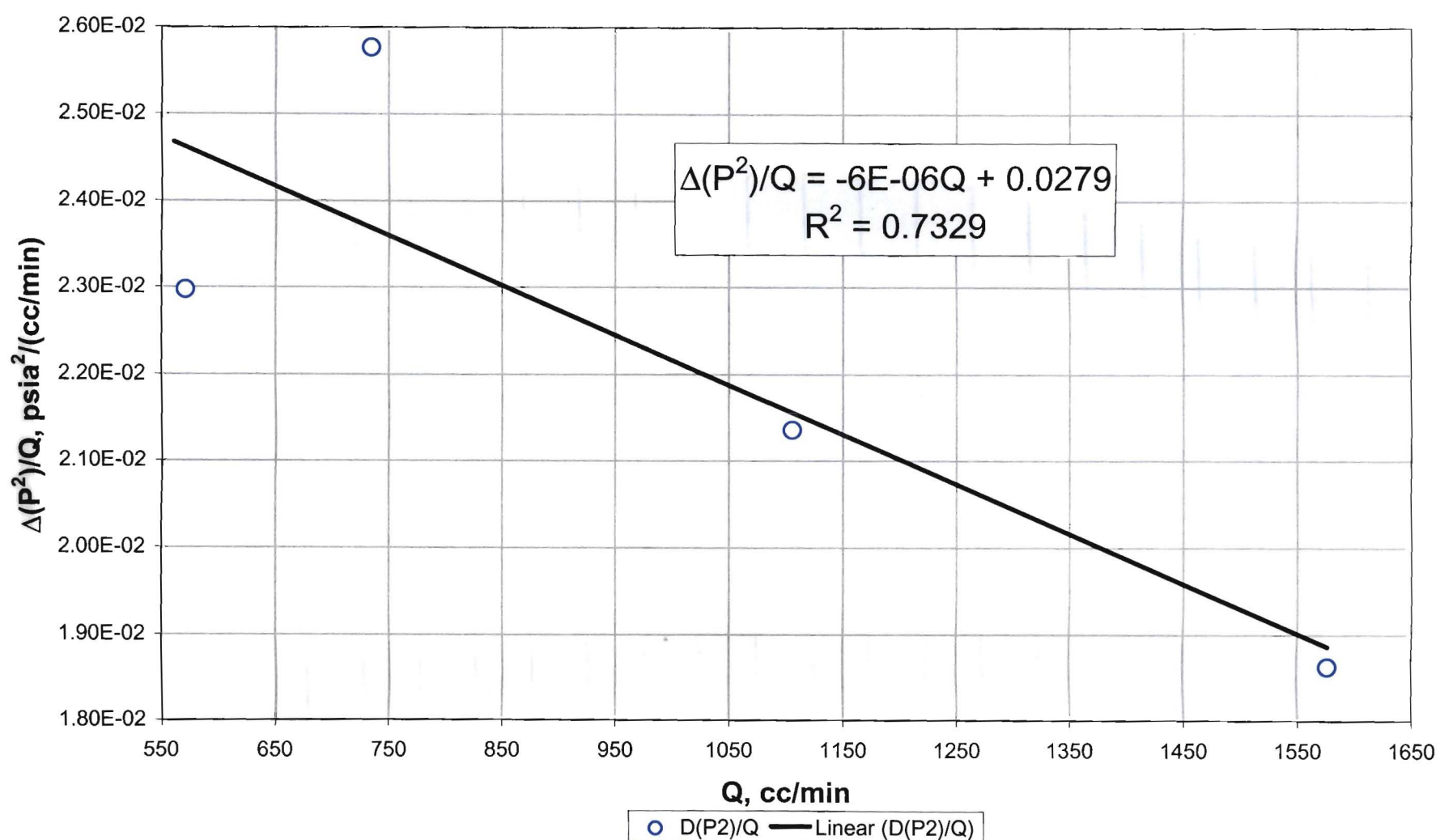
Relationship between steady-state differential pressures squared and flowrate:
 If relationship is linear, with the ordinate intercept nearly zero,
 there is no high velocity flow effect.
 X Transect: Drillhole 19



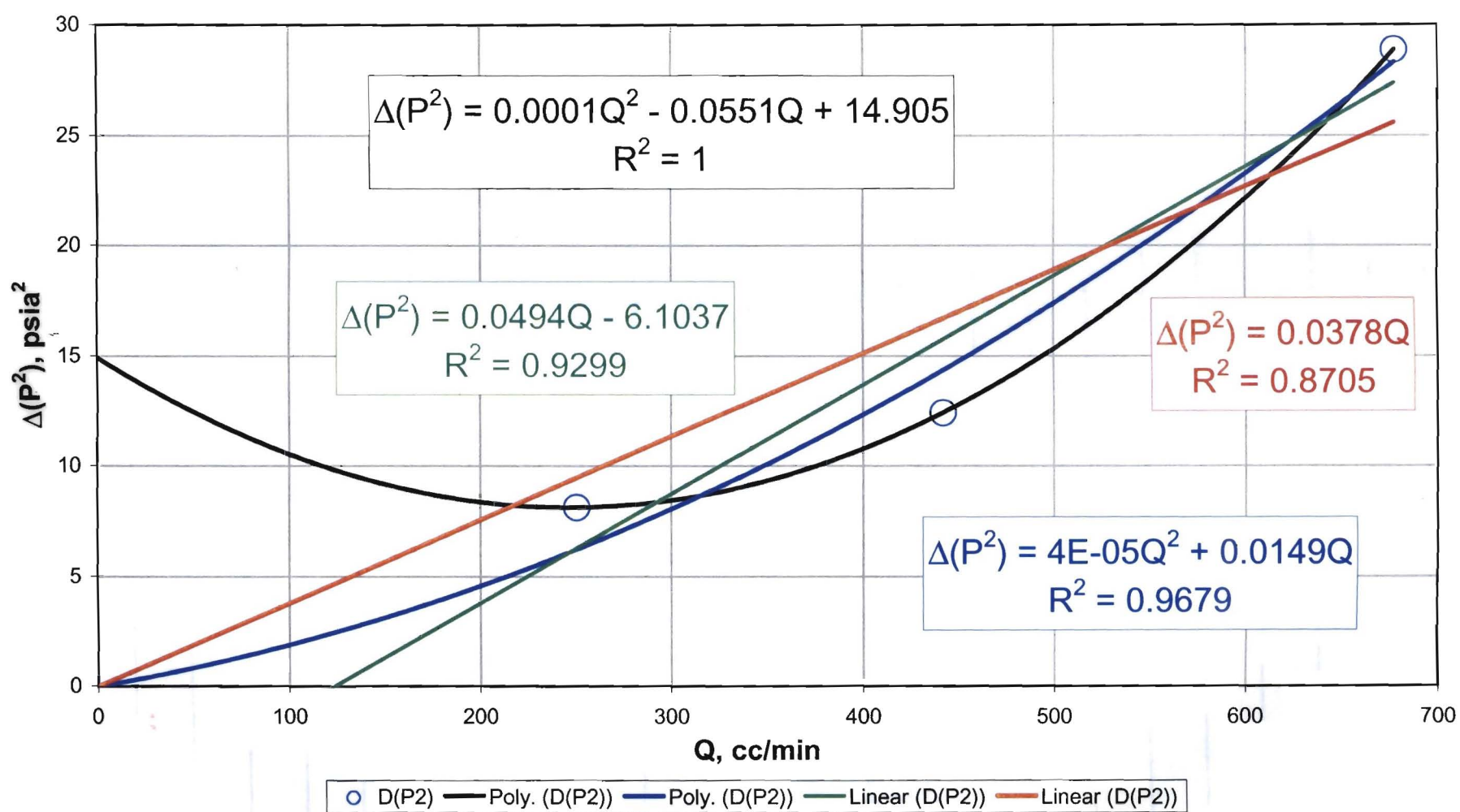
Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of
 high-velocity flow effects (when the slope is greater than unity)
 X Transect: Drillhole 19



Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect: Drillhole 19

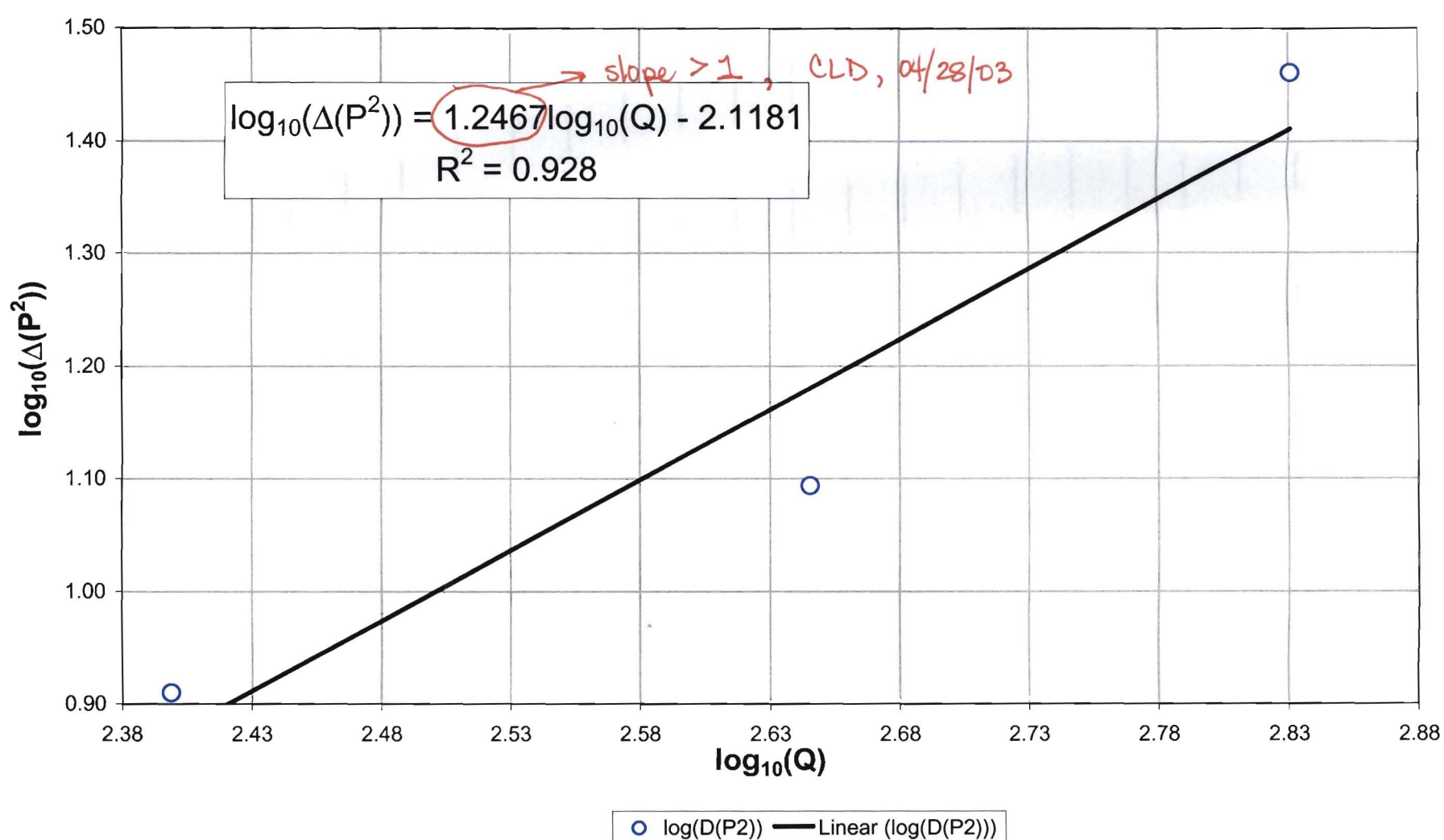


Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 20



Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of high-velocity flow effects (when the slope is greater than unity)

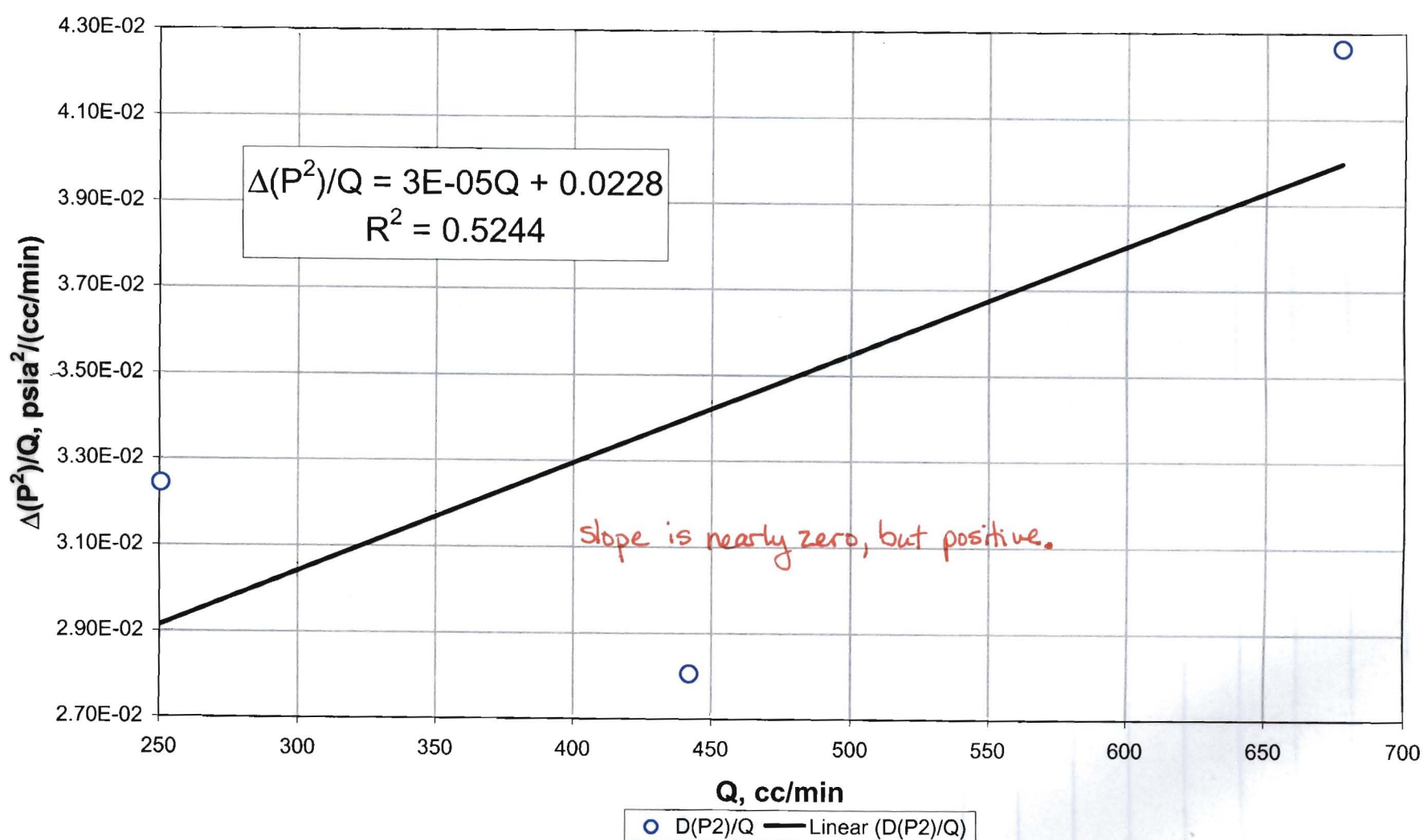
X Transect: Drillhole 20



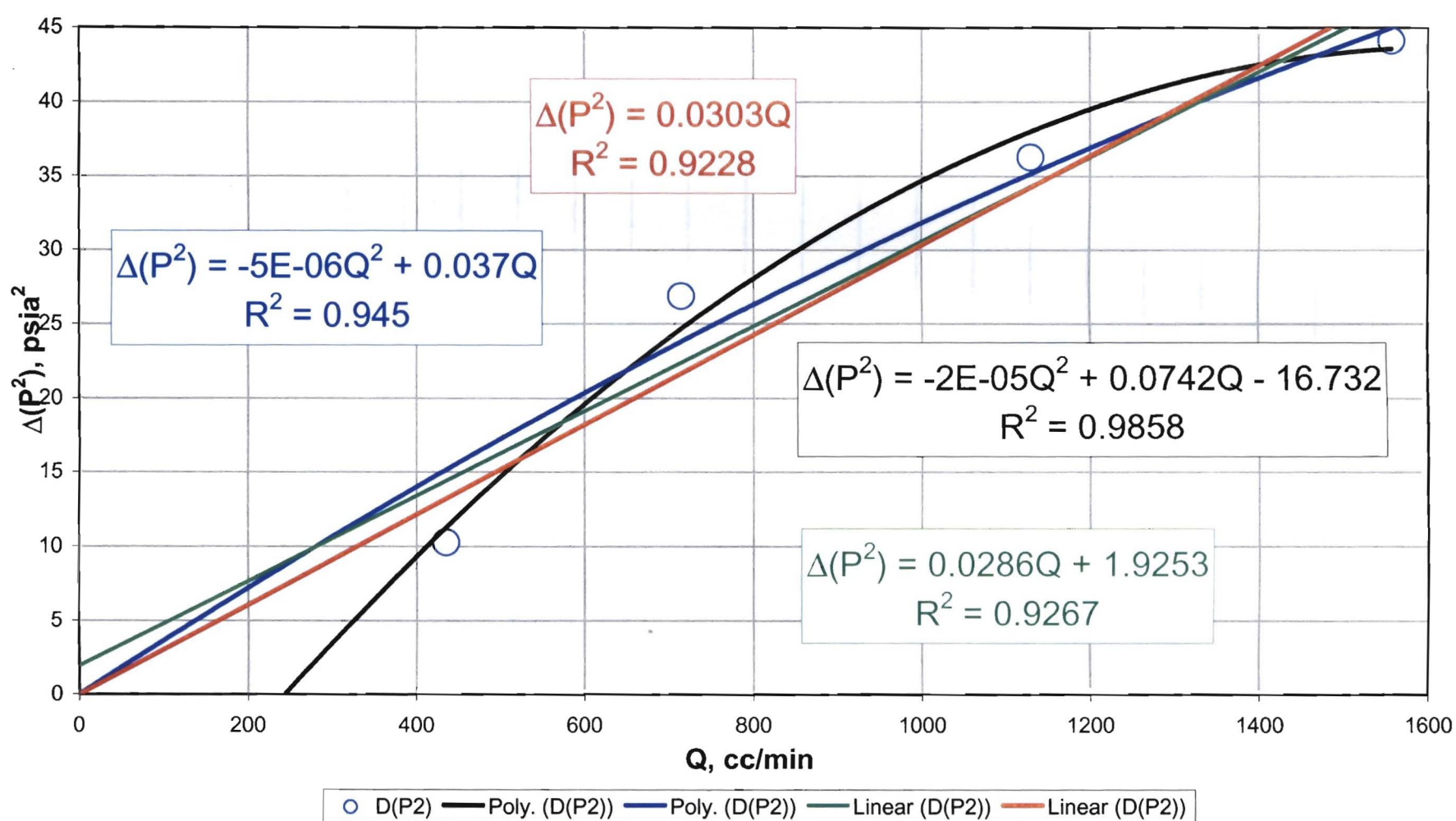
Final check for high velocity flow effects:

High velocity flow effects are present when the slope is non-zero and positive.

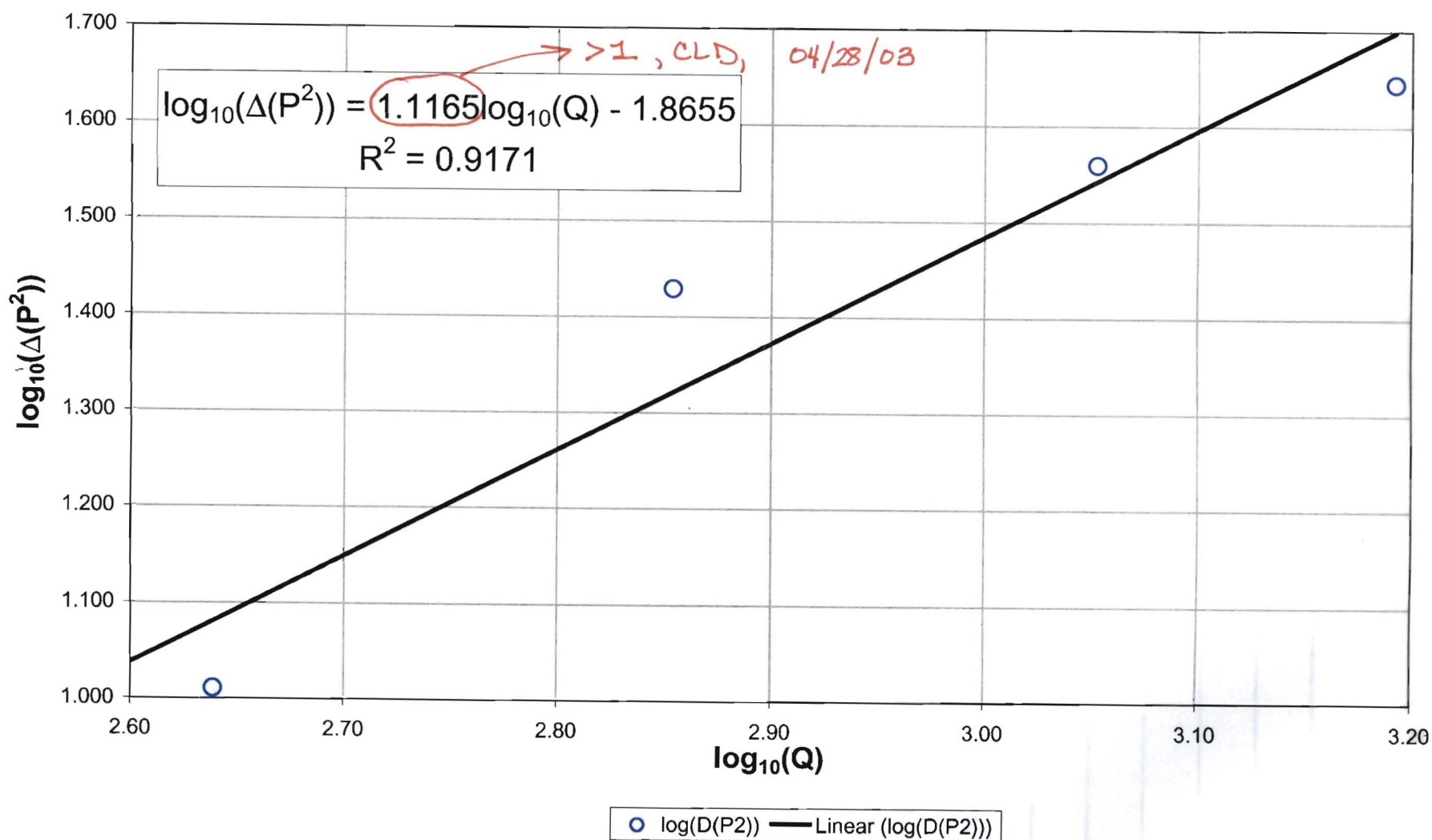
X Transect: Drillhole 20



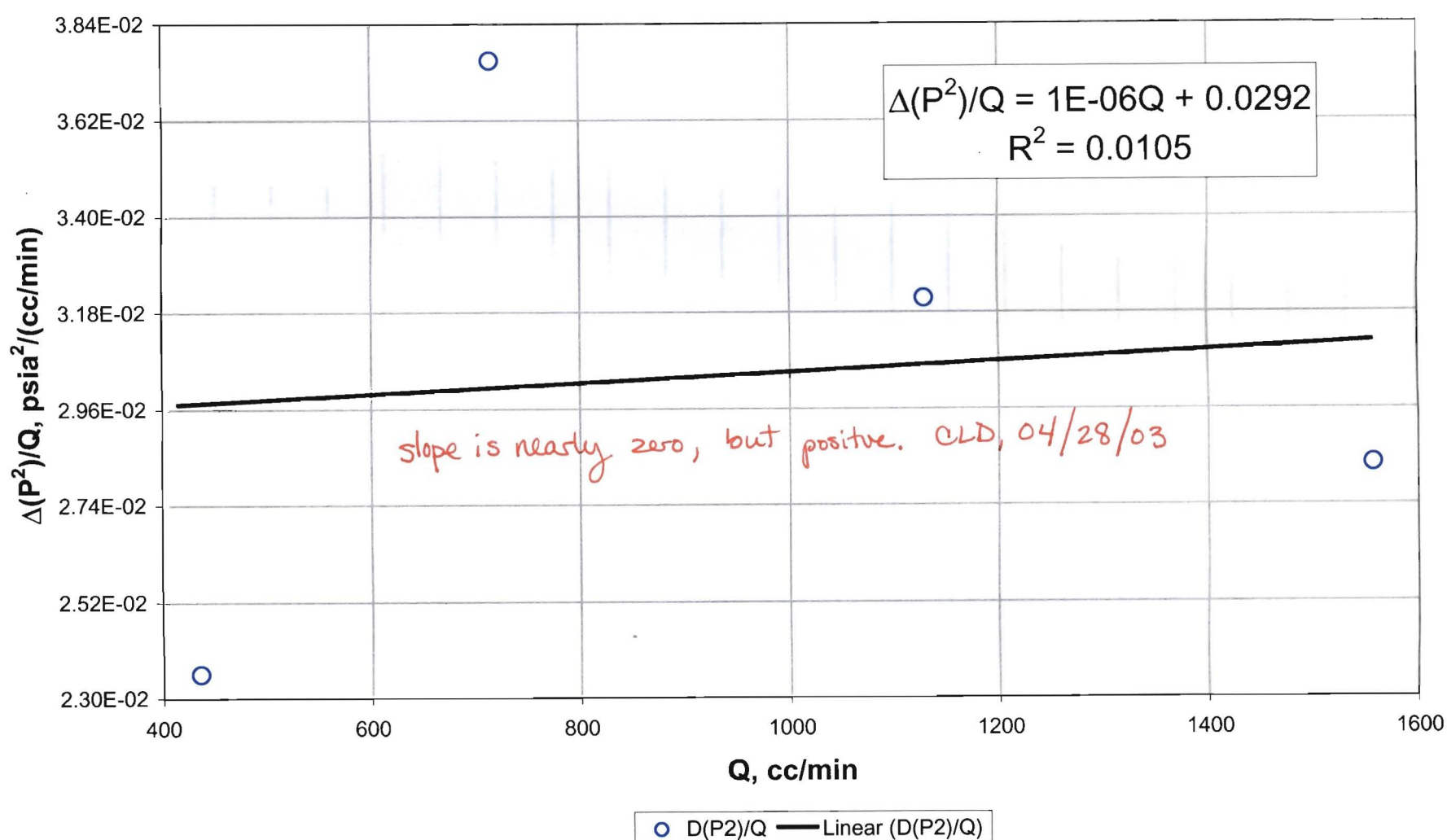
Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 21



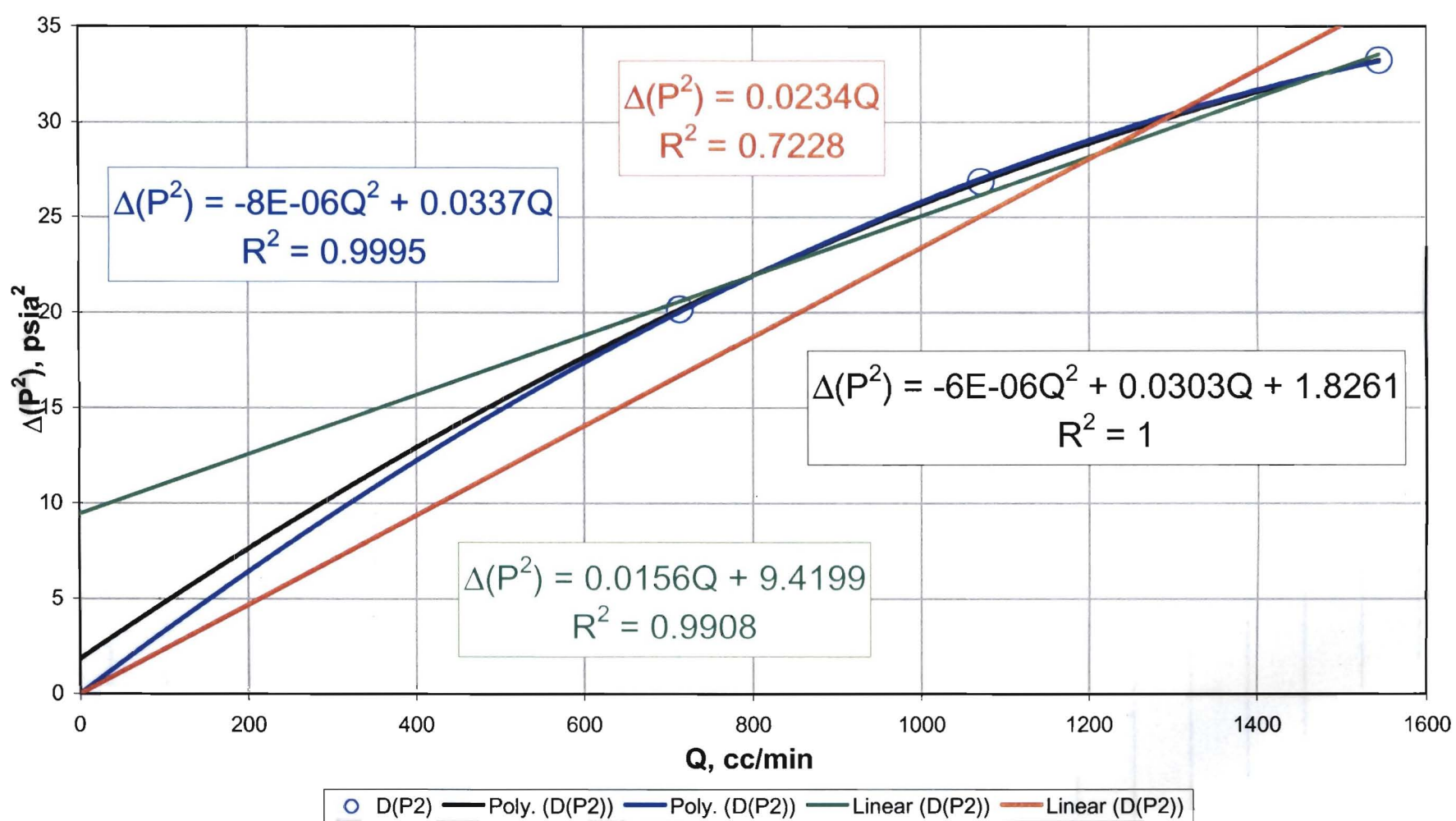
Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of
high-velocity flow effects (when the slope is greater than unity)
X Transect: Drillhole 21



Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect : Drillhole 21

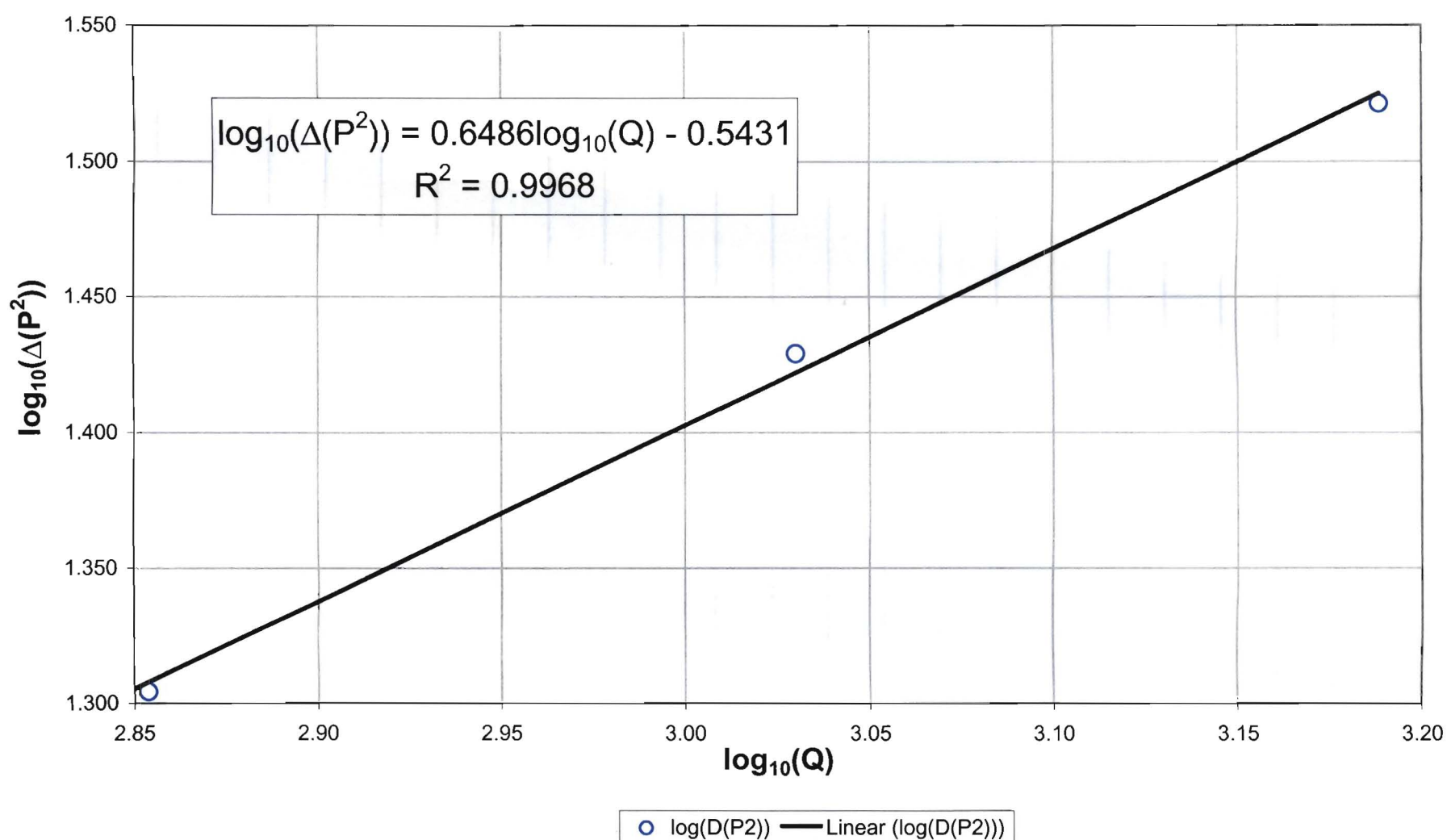


Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 22



Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of high-velocity flow effects (when the slope is greater than unity)

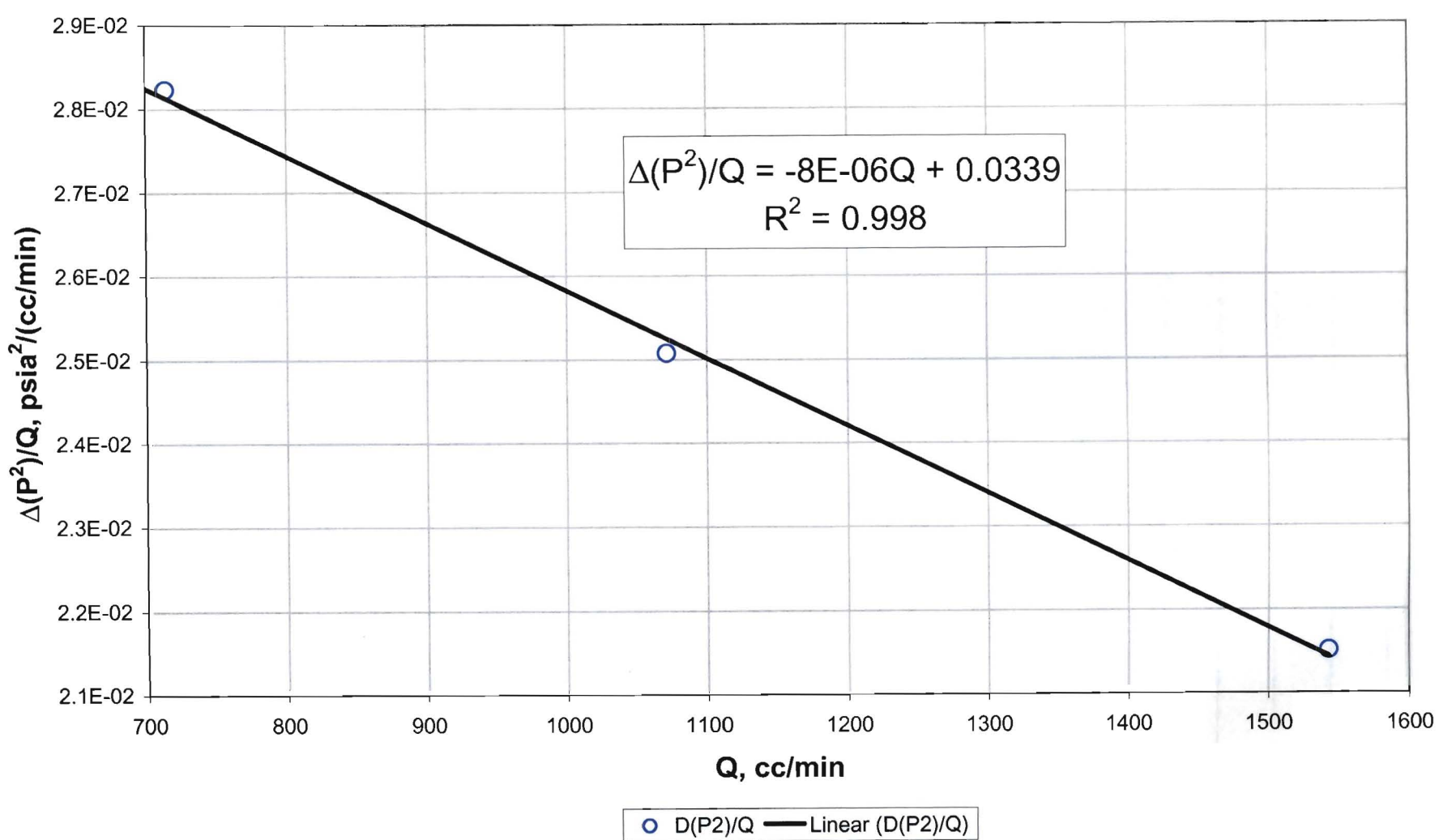
X Transect: Drillhole 22



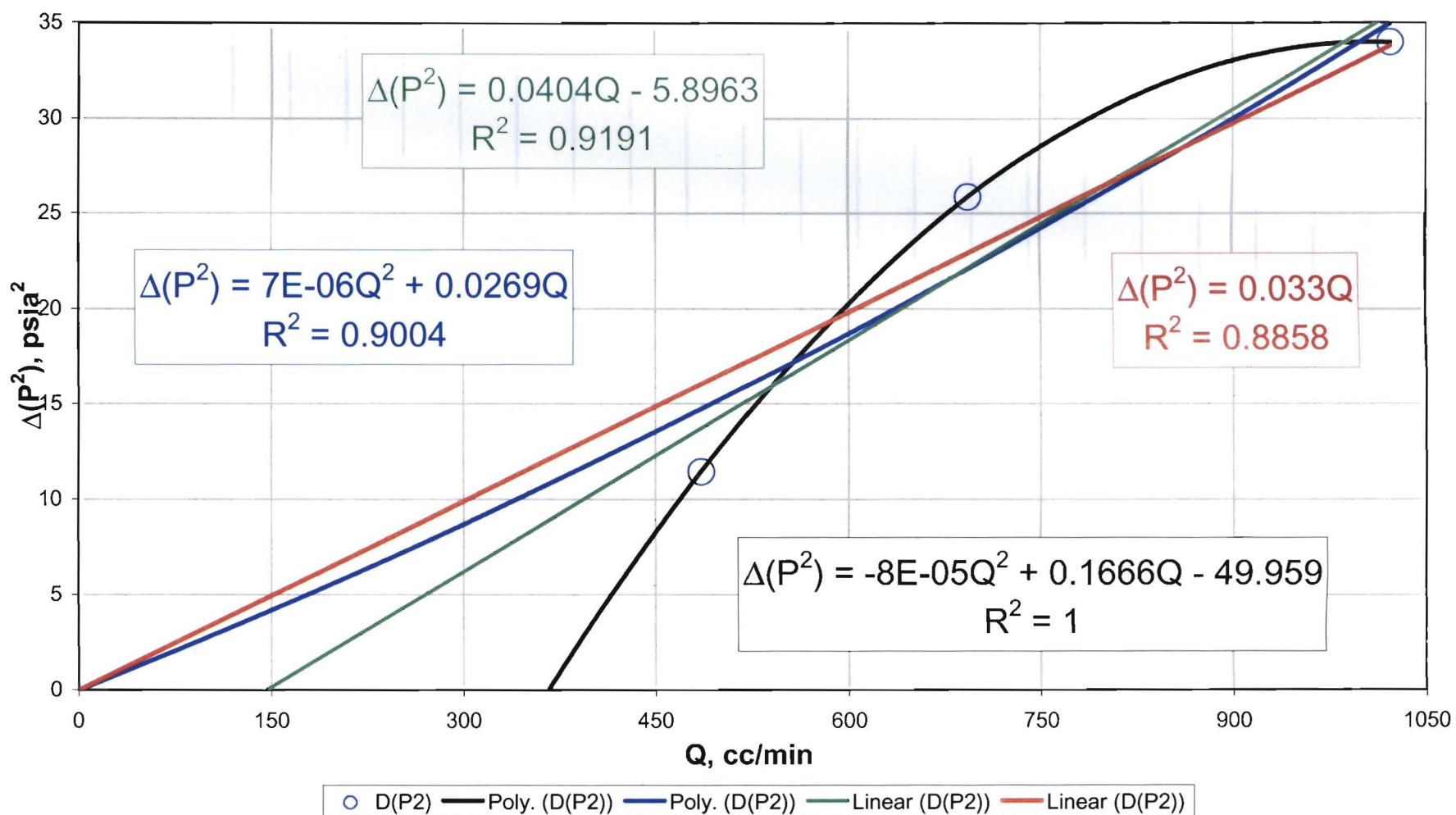
Final check for high velocity flow effects:

High velocity flow effects are present when the slope is non-zero and positive.

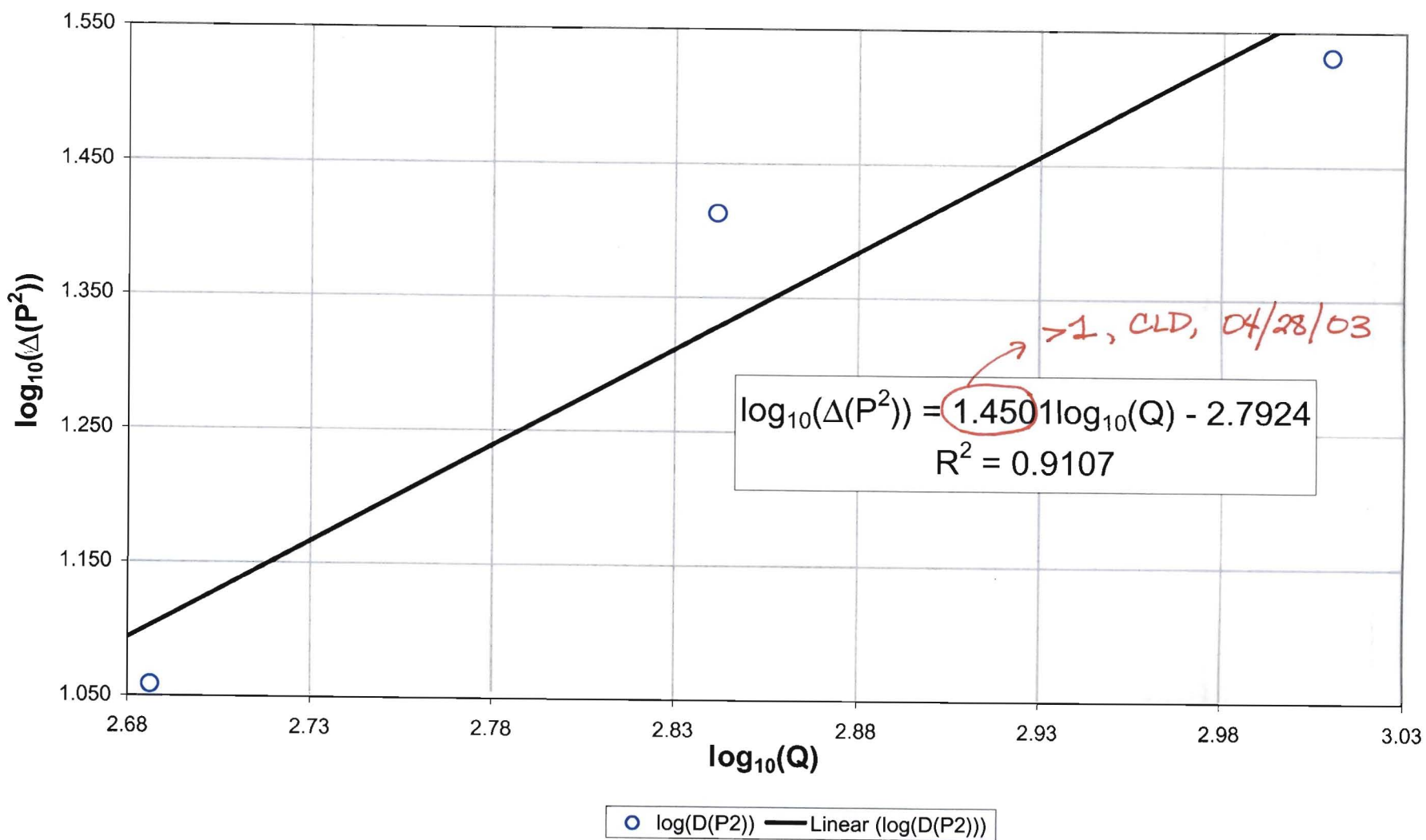
X Transect : Drillhole 22



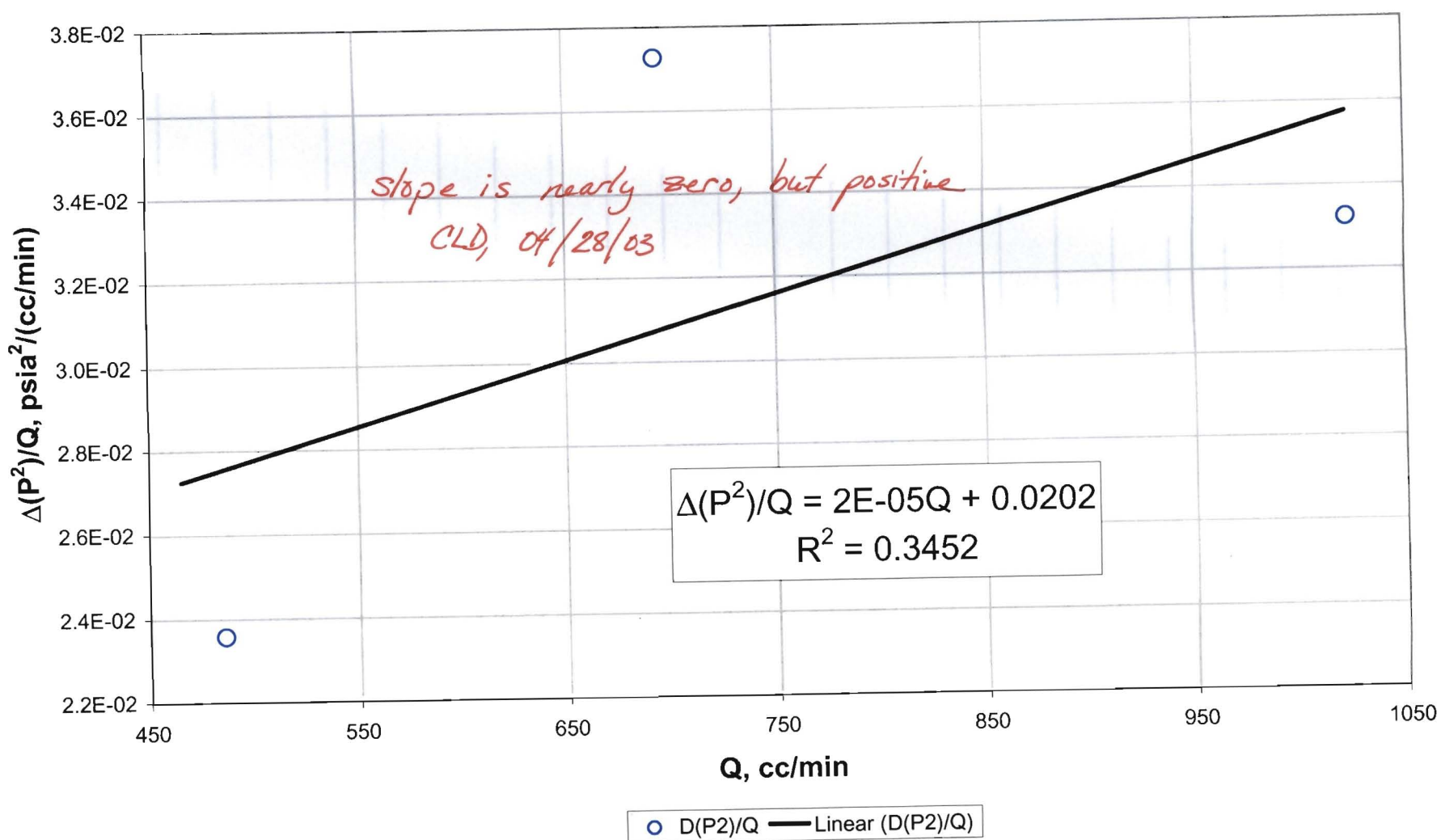
Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 23



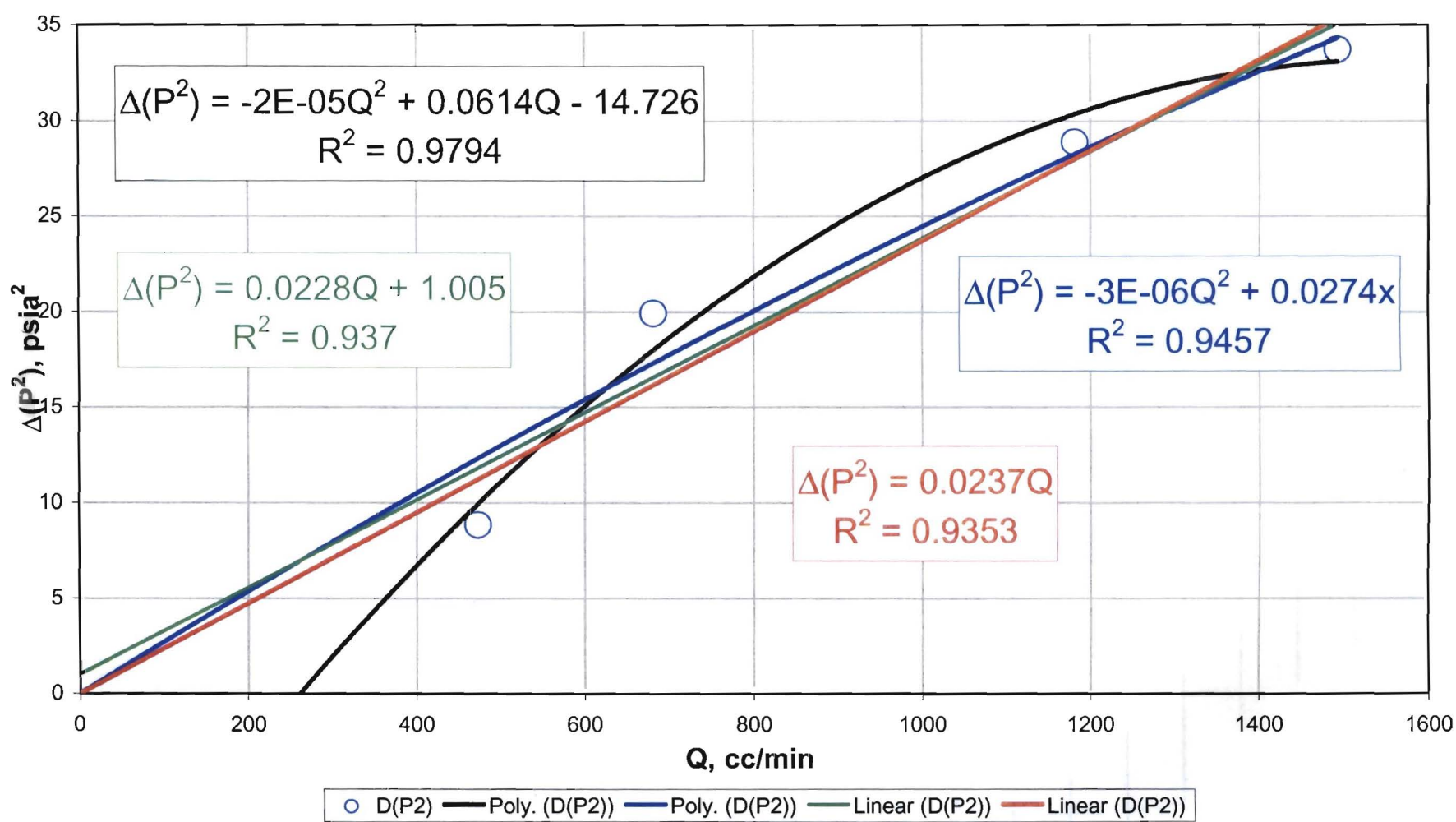
Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of
high-velocity flow effects (when the slope is greater than unity)
X Transect: Drillhole 23



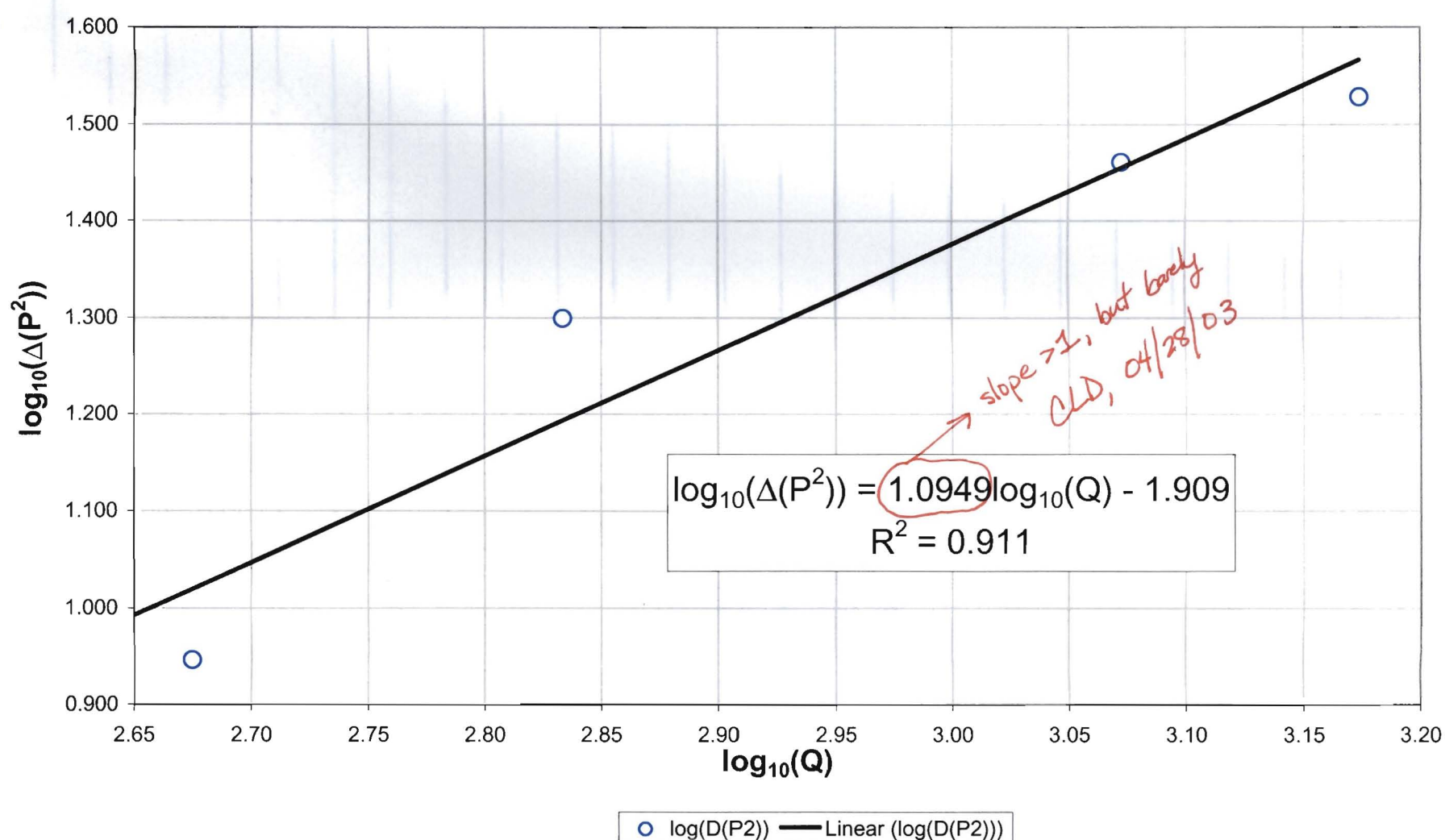
Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect : Drillhole 23



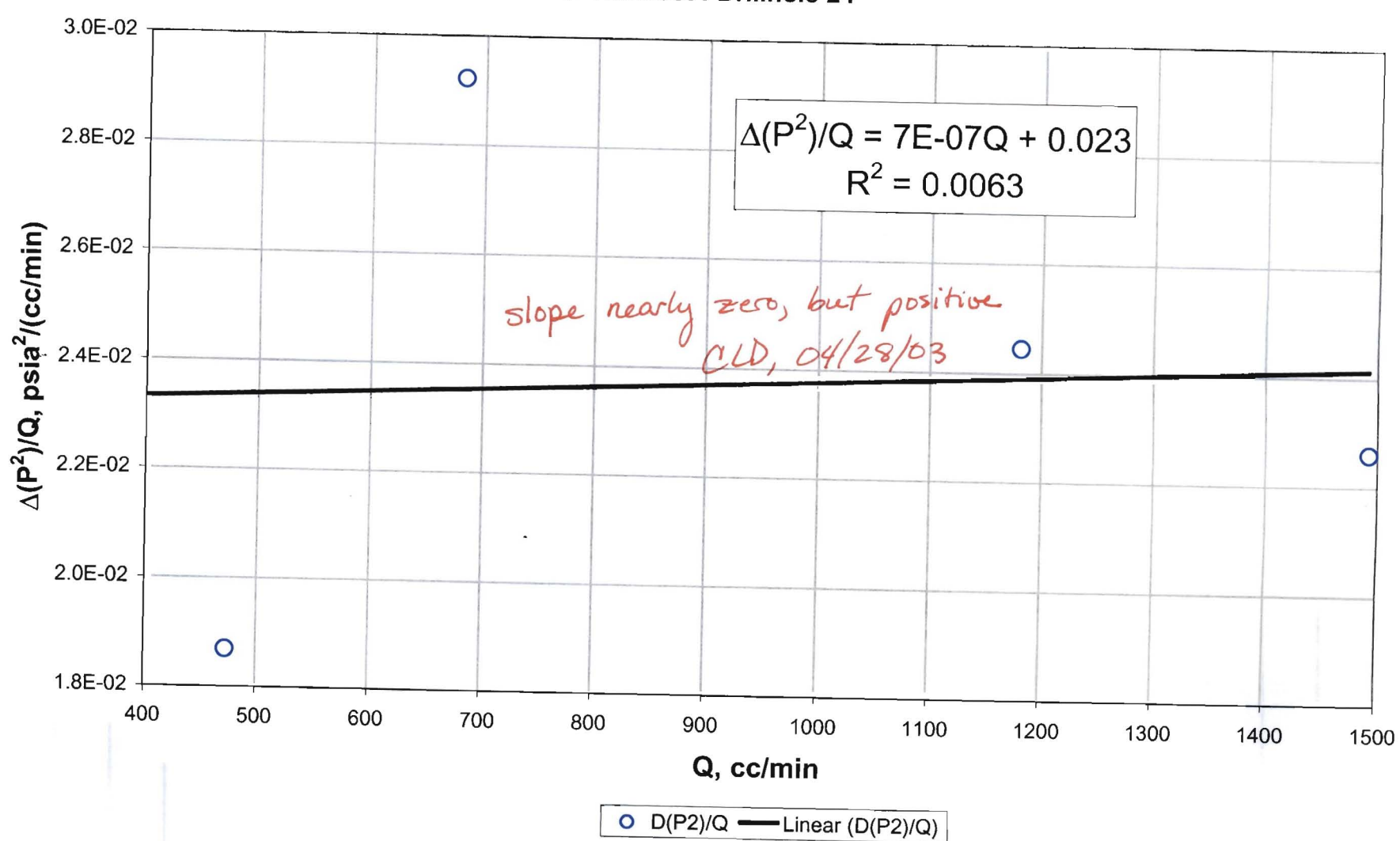
Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 24



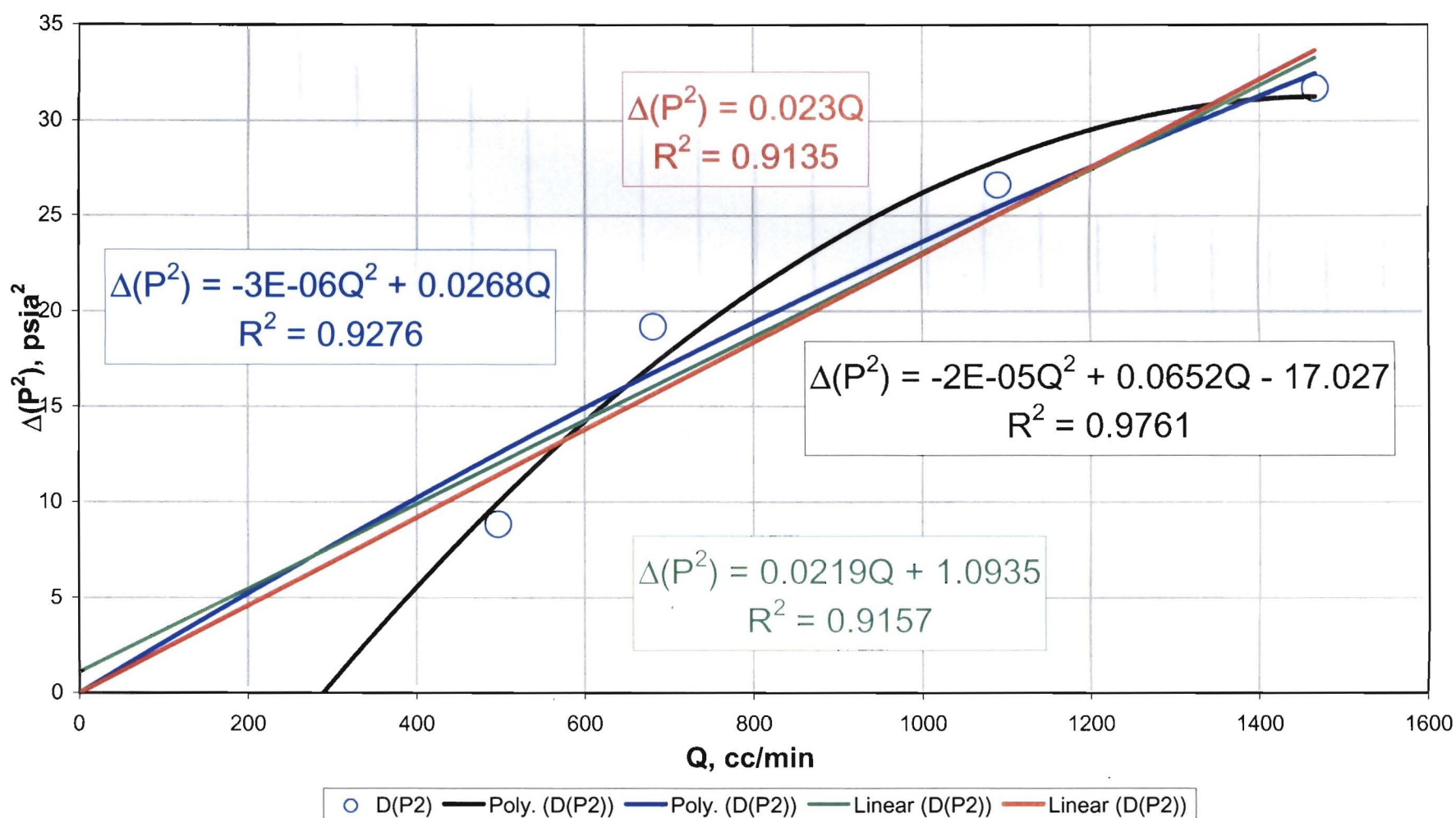
Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of high-velocity flow effects (when the slope is greater than unity)
X Transect: Drillhole 24



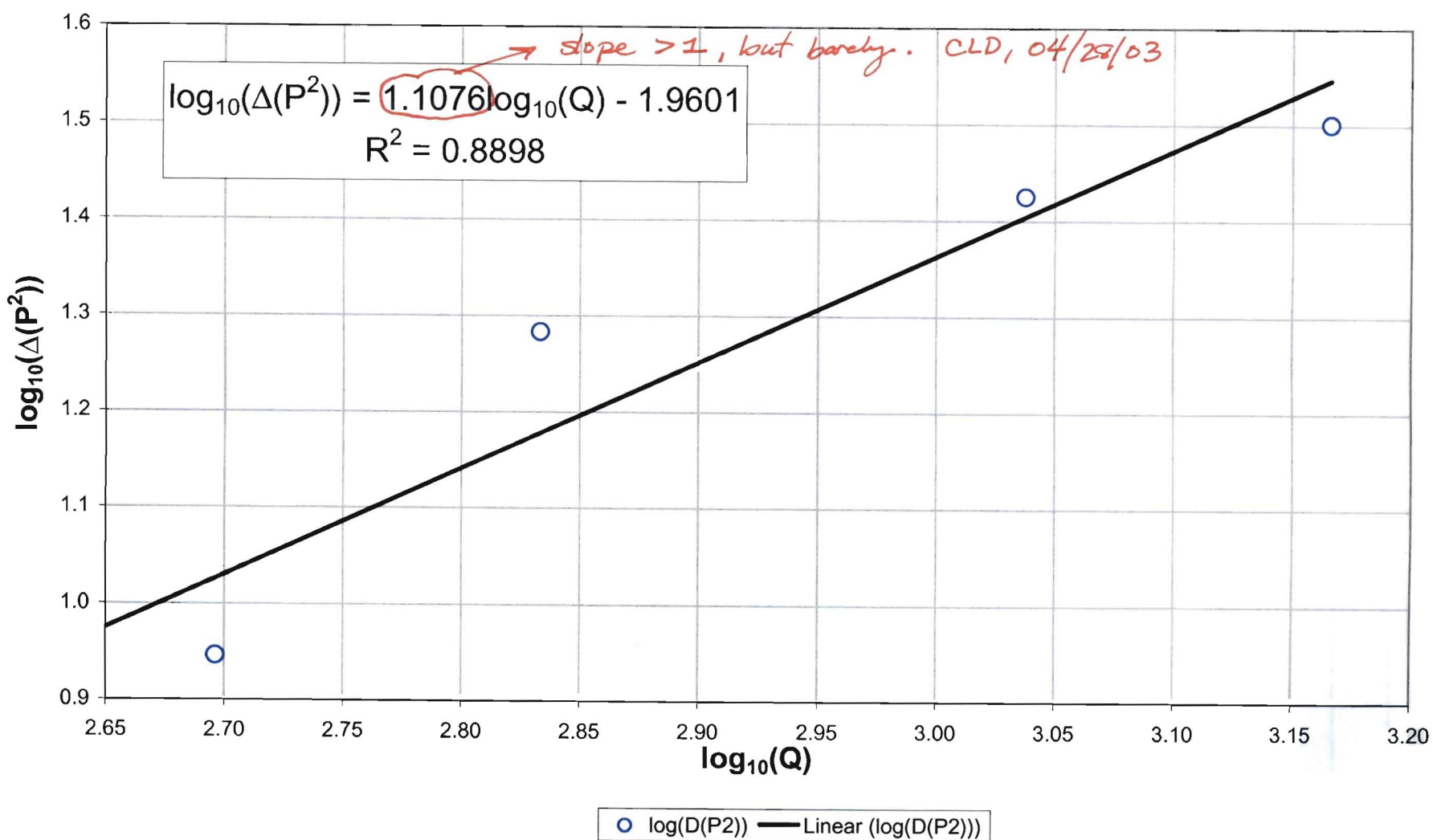
Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect : Drillhole 24



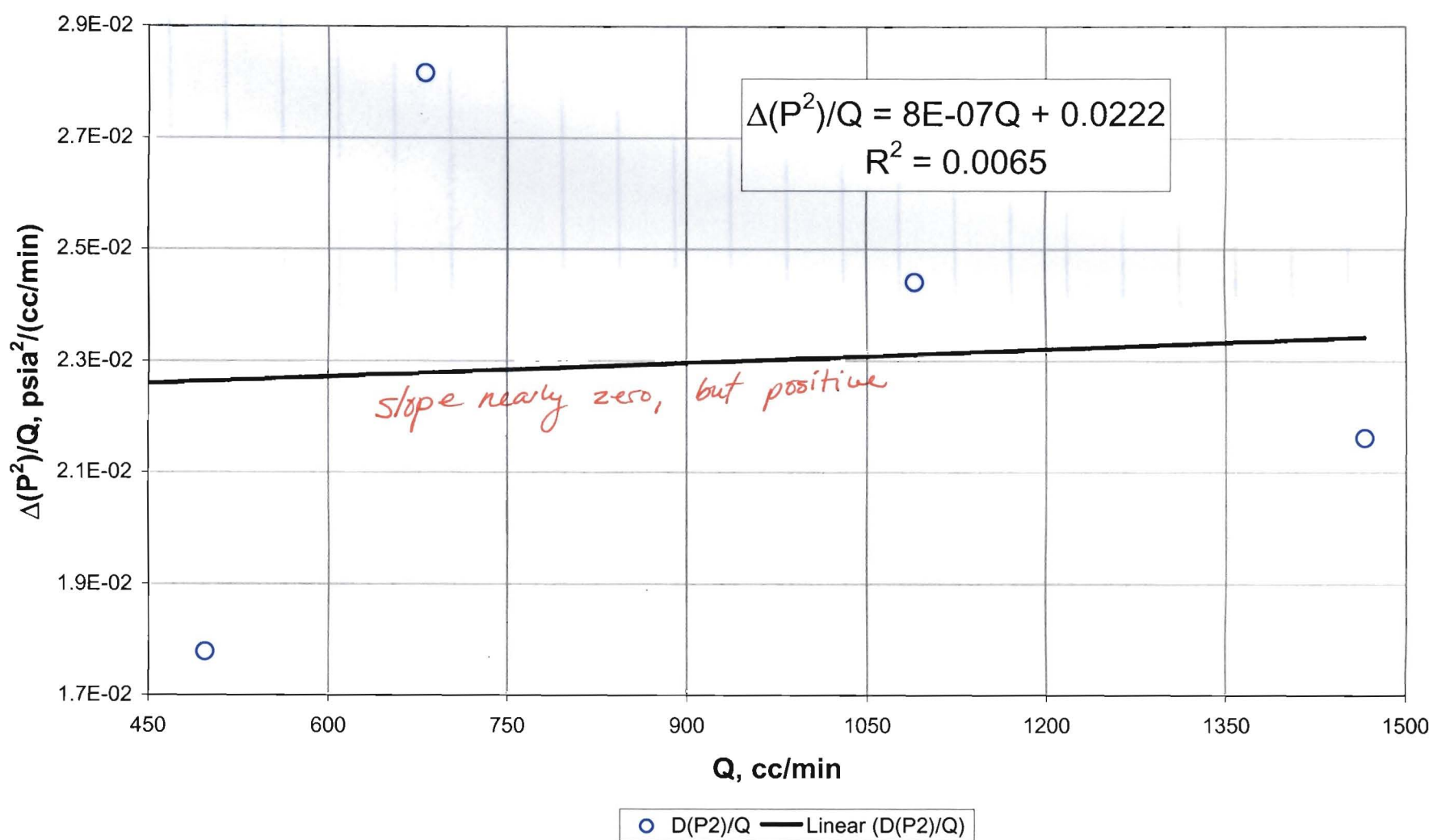
Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 25



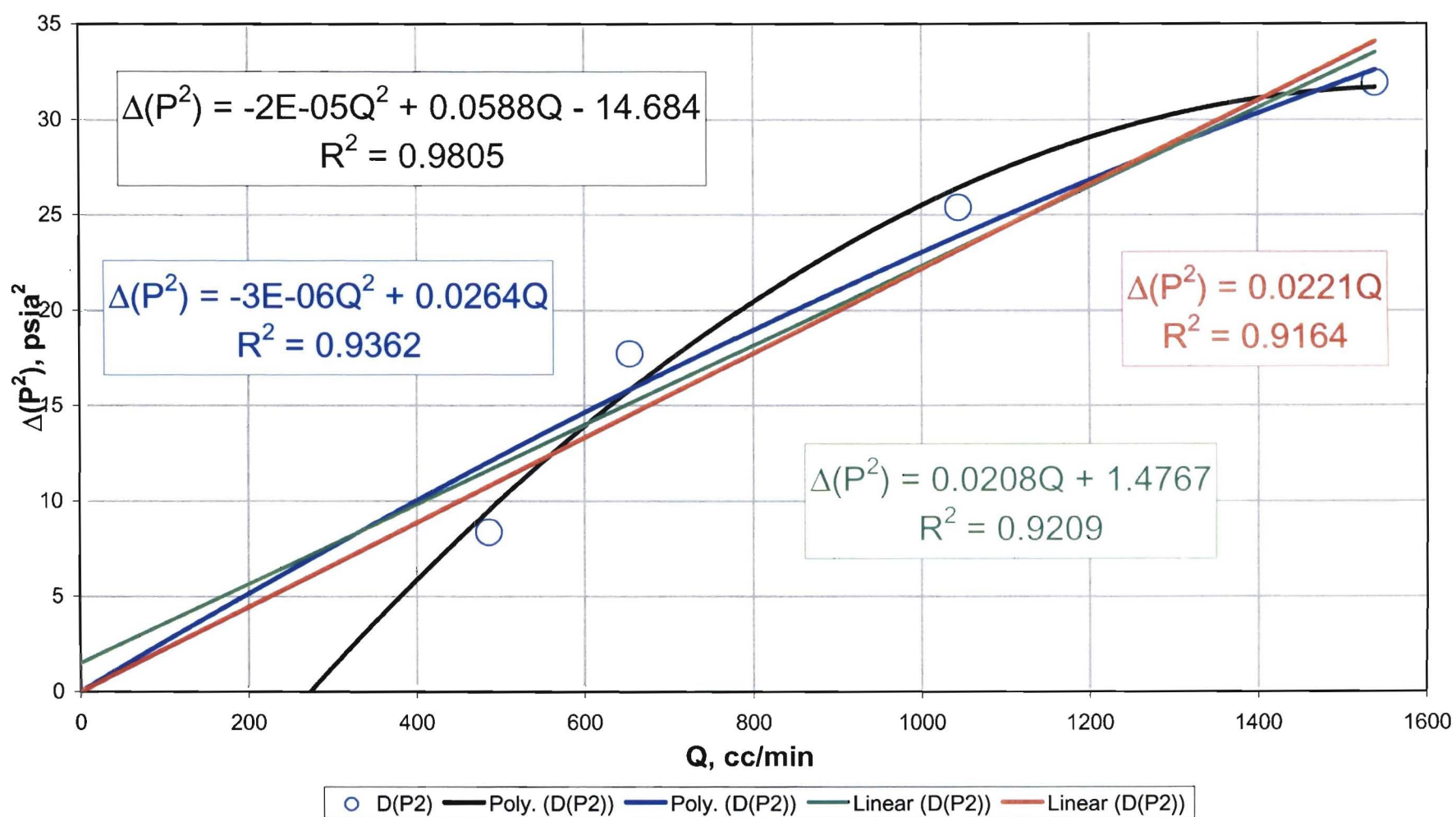
Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of
high-velocity flow effects (when the slope is greater than unity)
X Transect: Drillhole 25



Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect : Drillhole 25

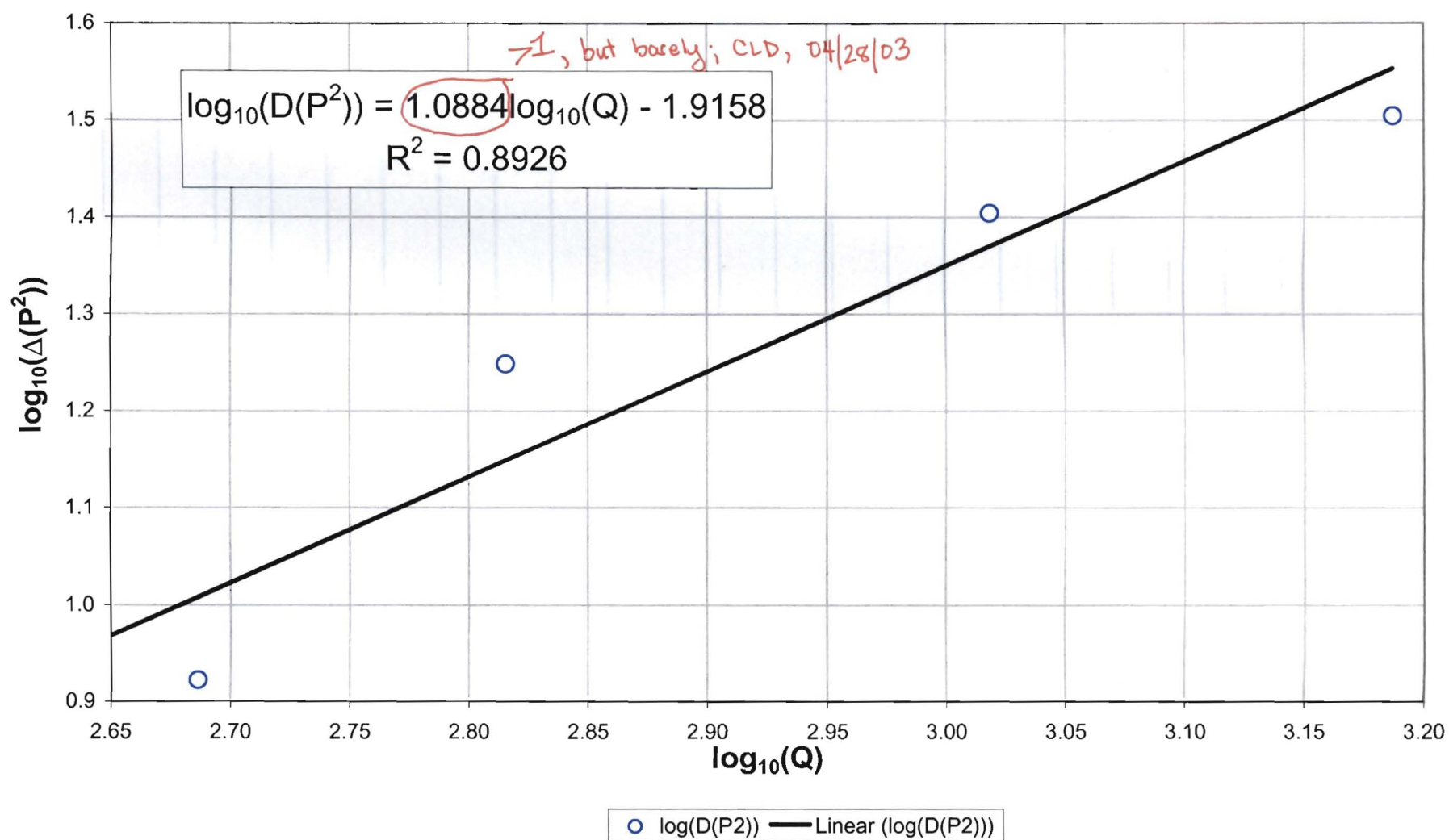


Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 26



Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of high-velocity flow effects (when the slope is greater than unity)

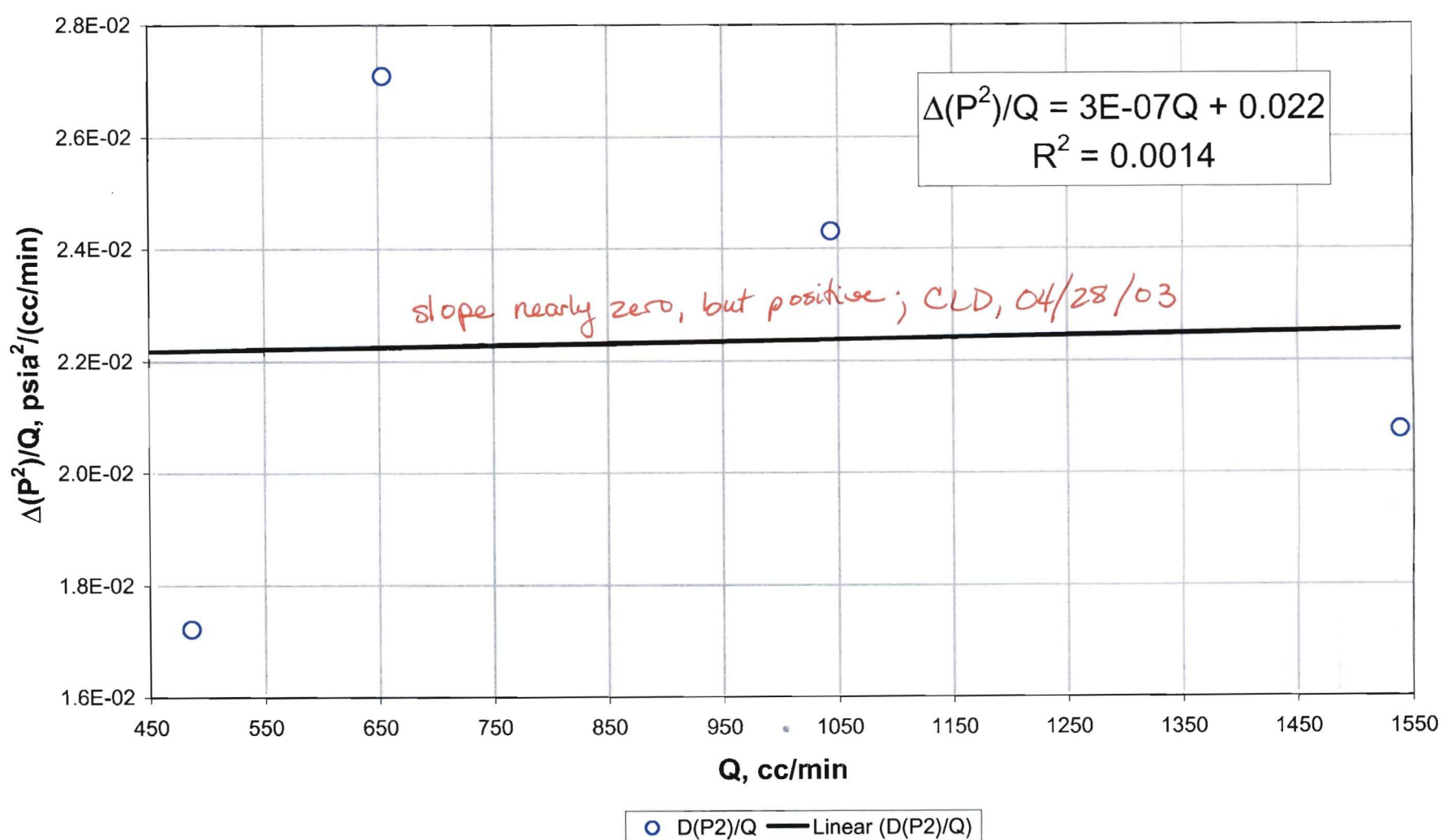
X Transect: Drillhole 26



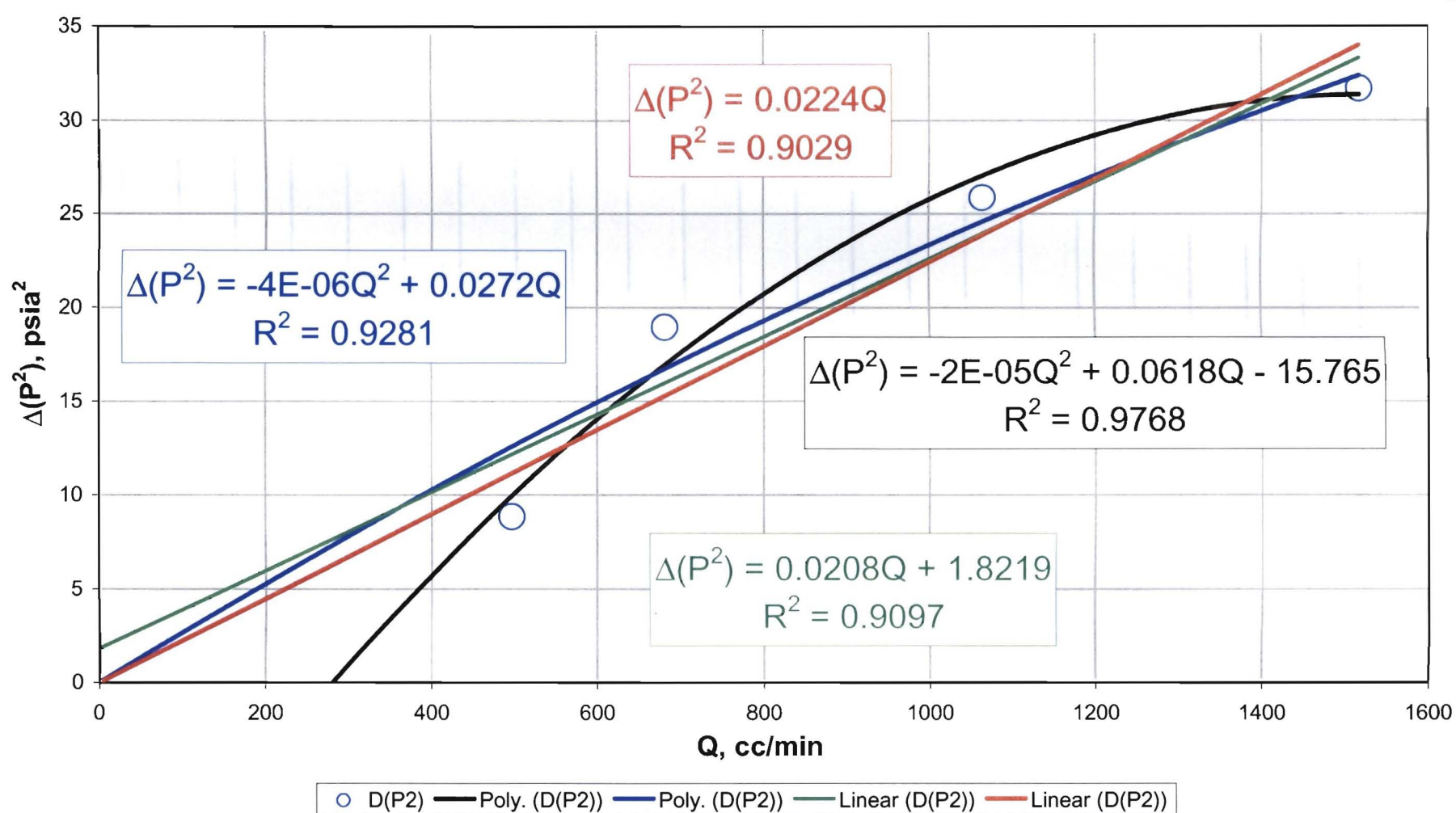
Final check for high velocity flow effects:

High velocity flow effects are present when the slope is non-zero and positive.

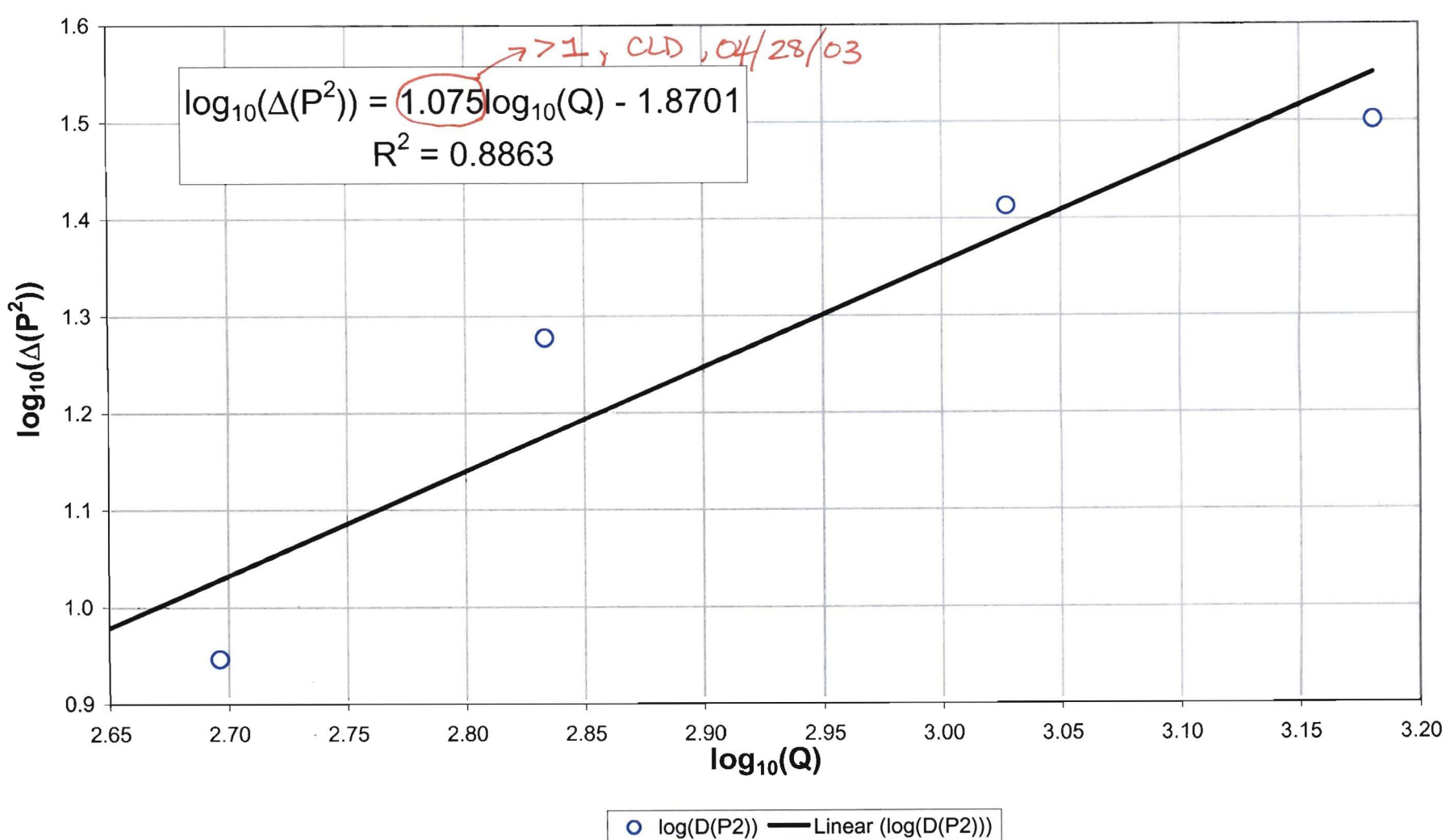
X Transect : Drillhole 26



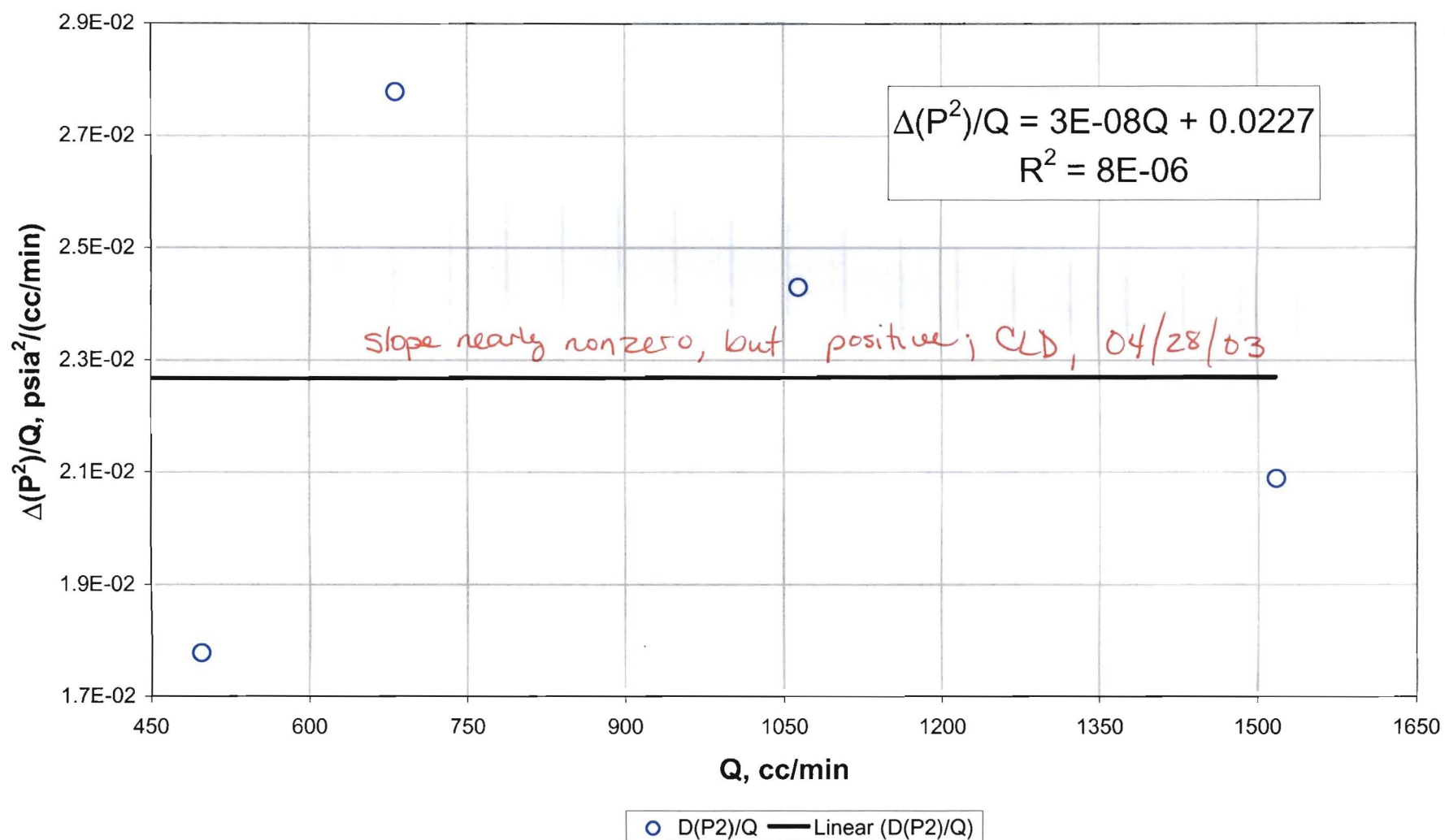
Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 27



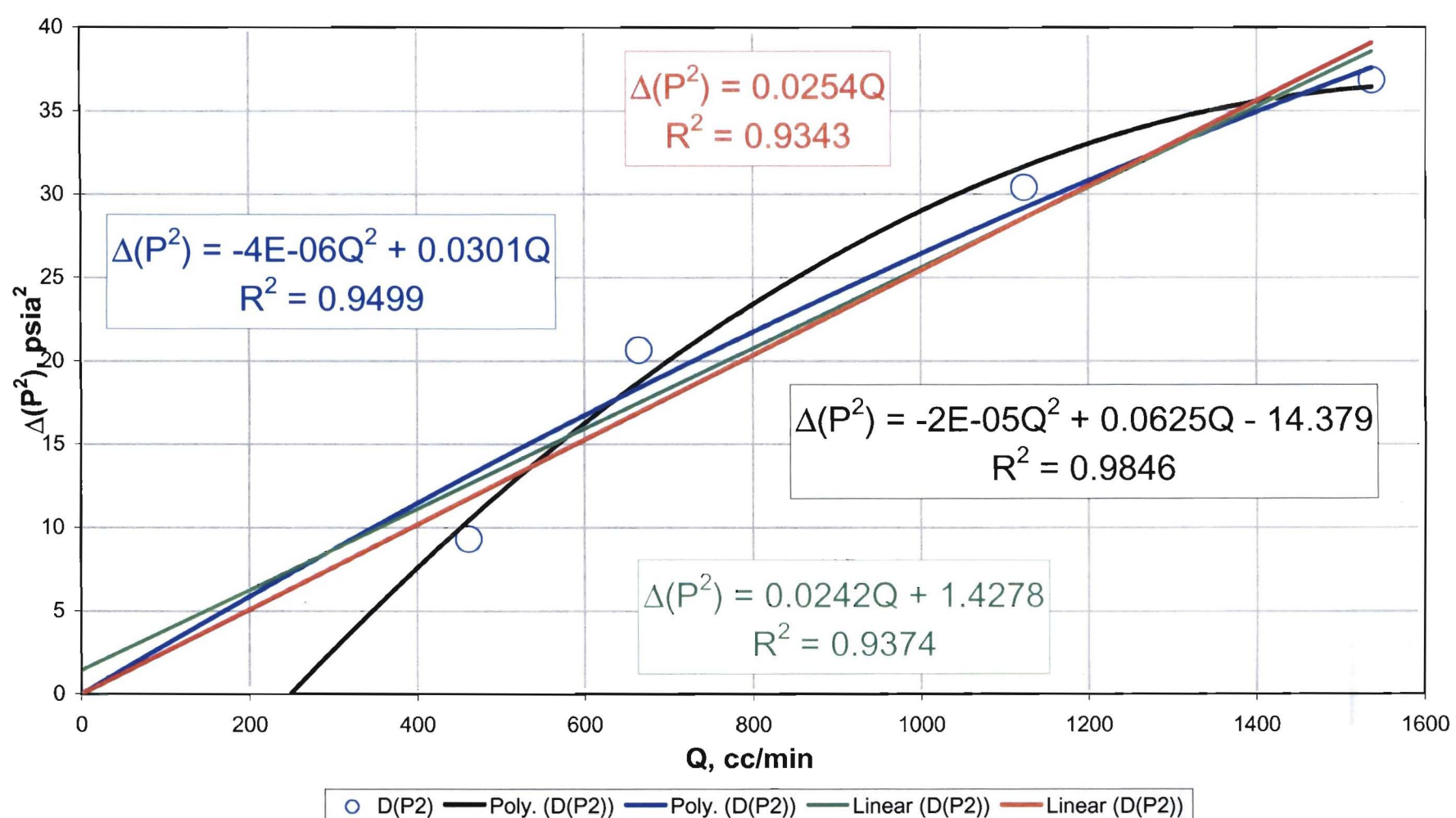
Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of
high-velocity flow effects (when the slope is greater than unity)
X Transect: Drillhole 27



Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect : Drillhole 27

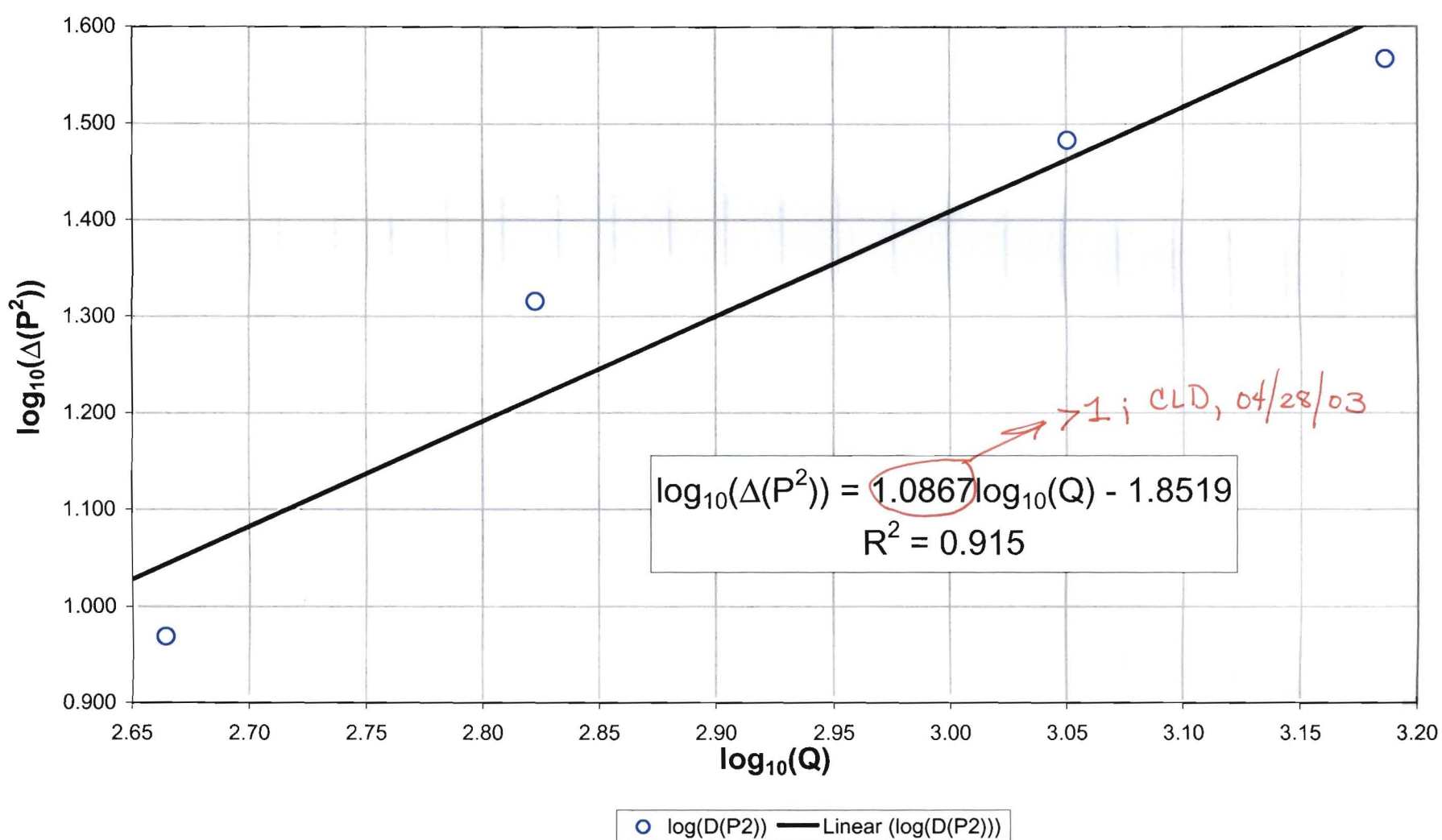


Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 28



Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of high-velocity flow effects (when the slope is greater than unity)

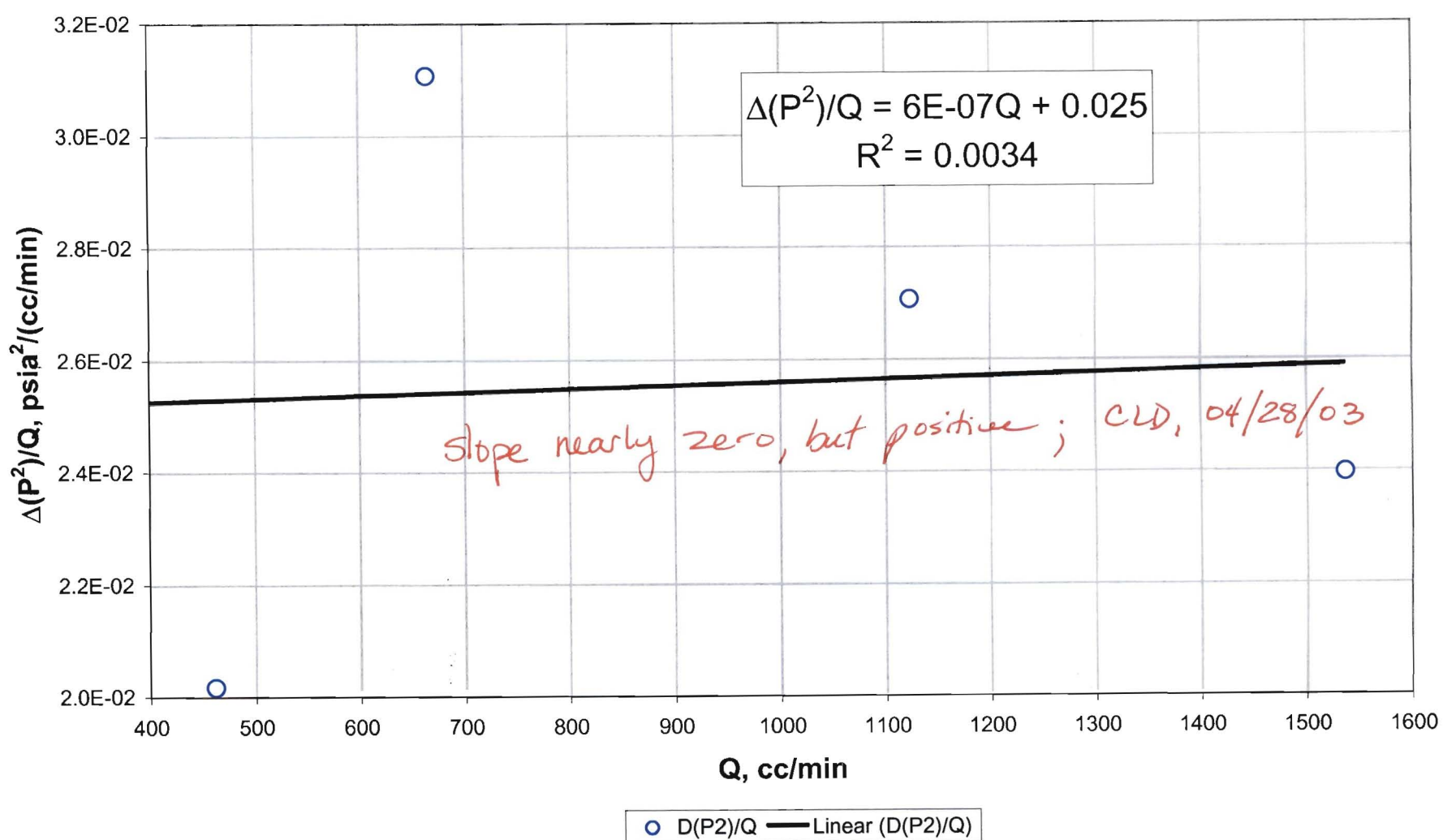
X Transect: Drillhole 28



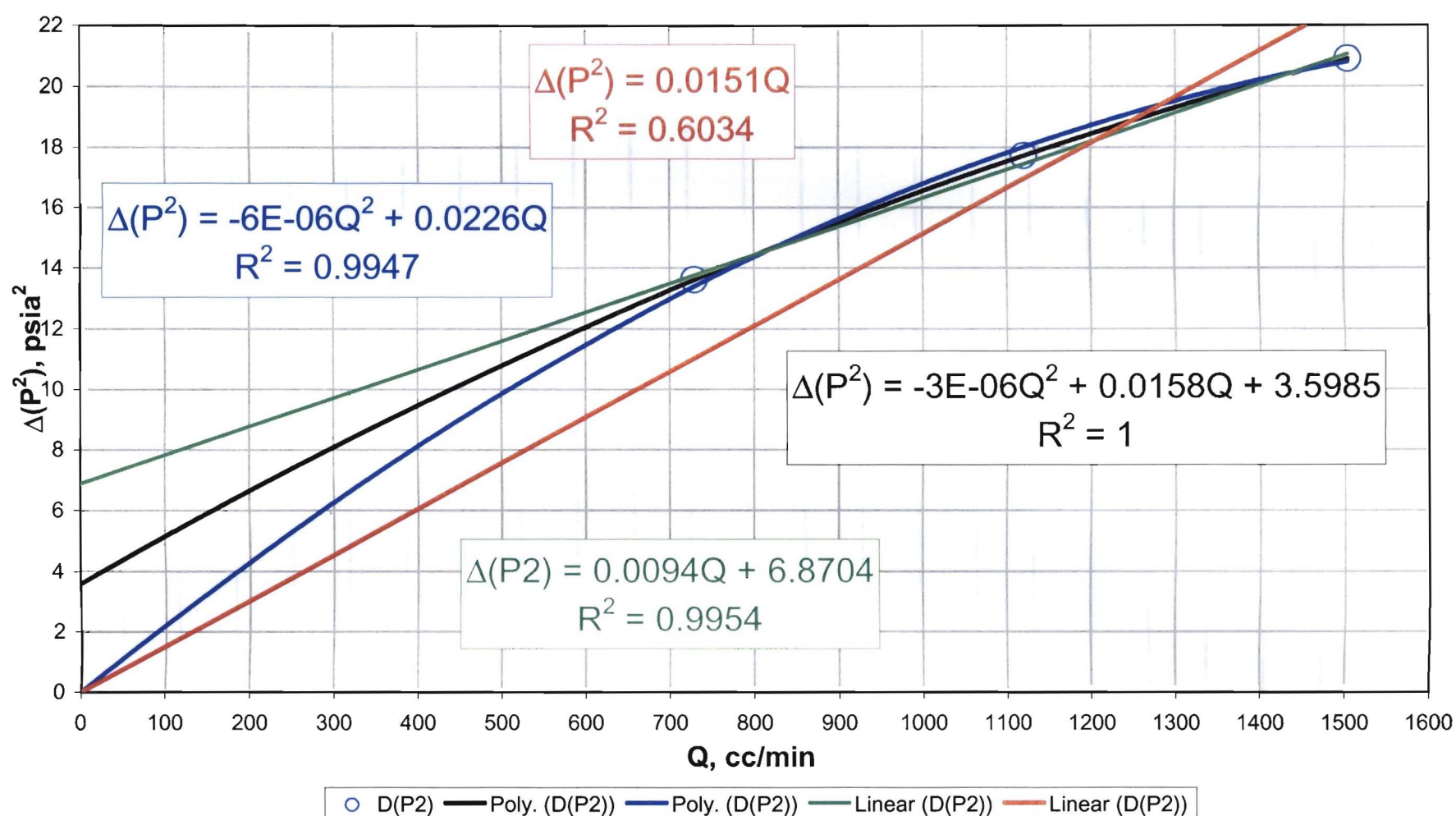
Final check for high velocity flow effects:

High velocity flow effects are present when the slope is non-zero and positive.

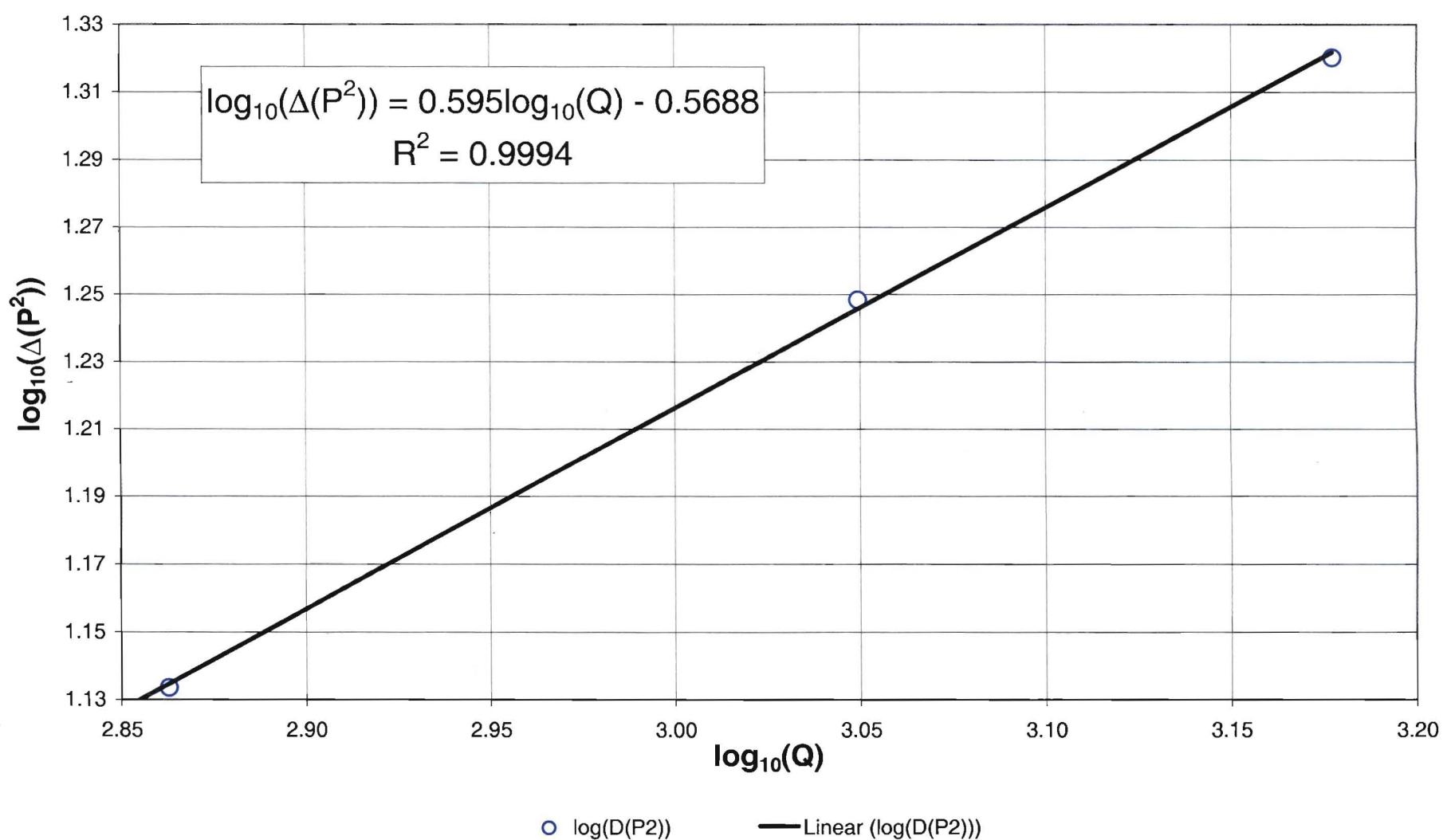
X Transect : Drillhole 28



Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 29



Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of
high-velocity flow effects (when the slope is greater than unity)
X Transect: Drillhole 29

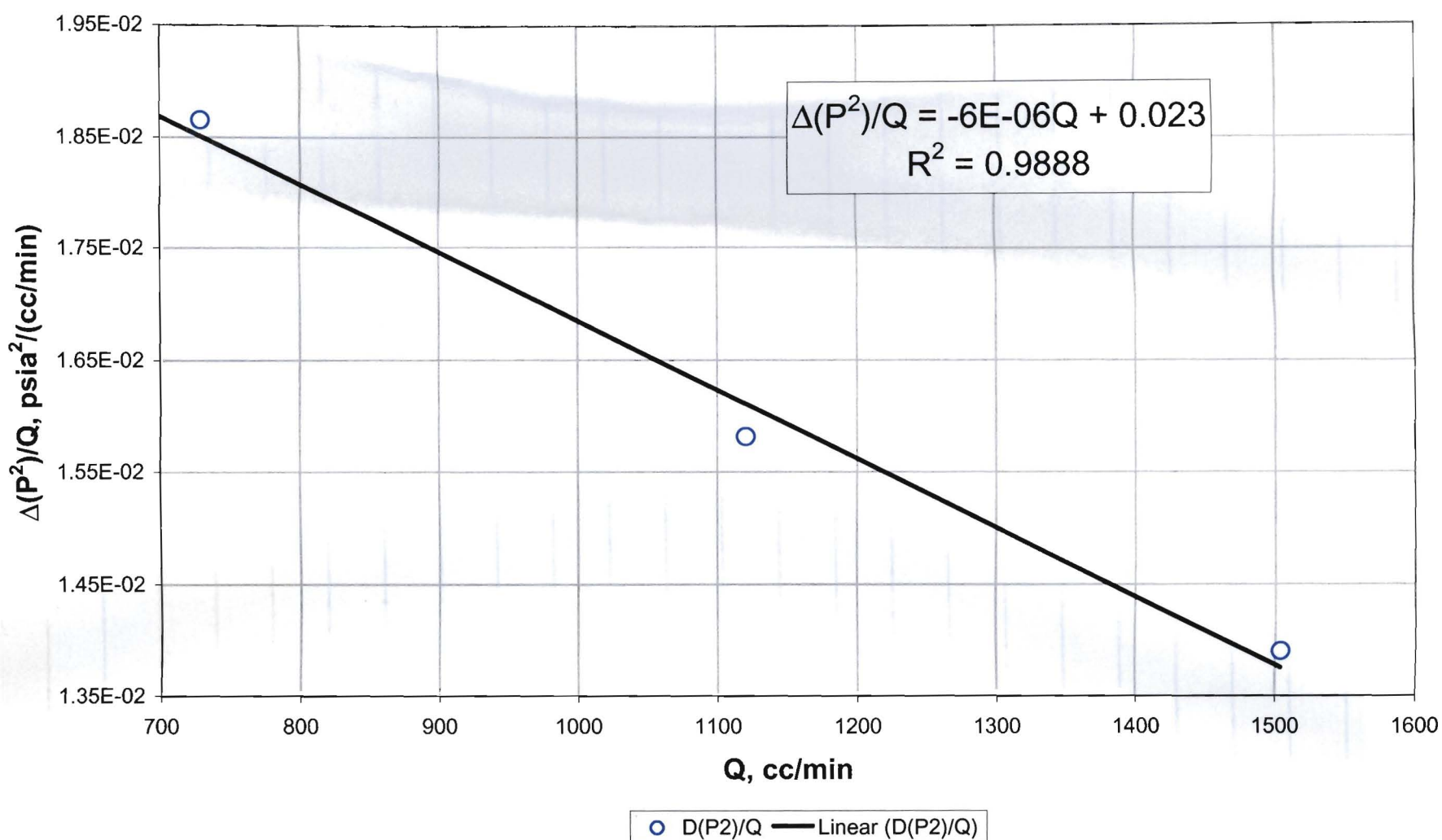


Replacement chart.

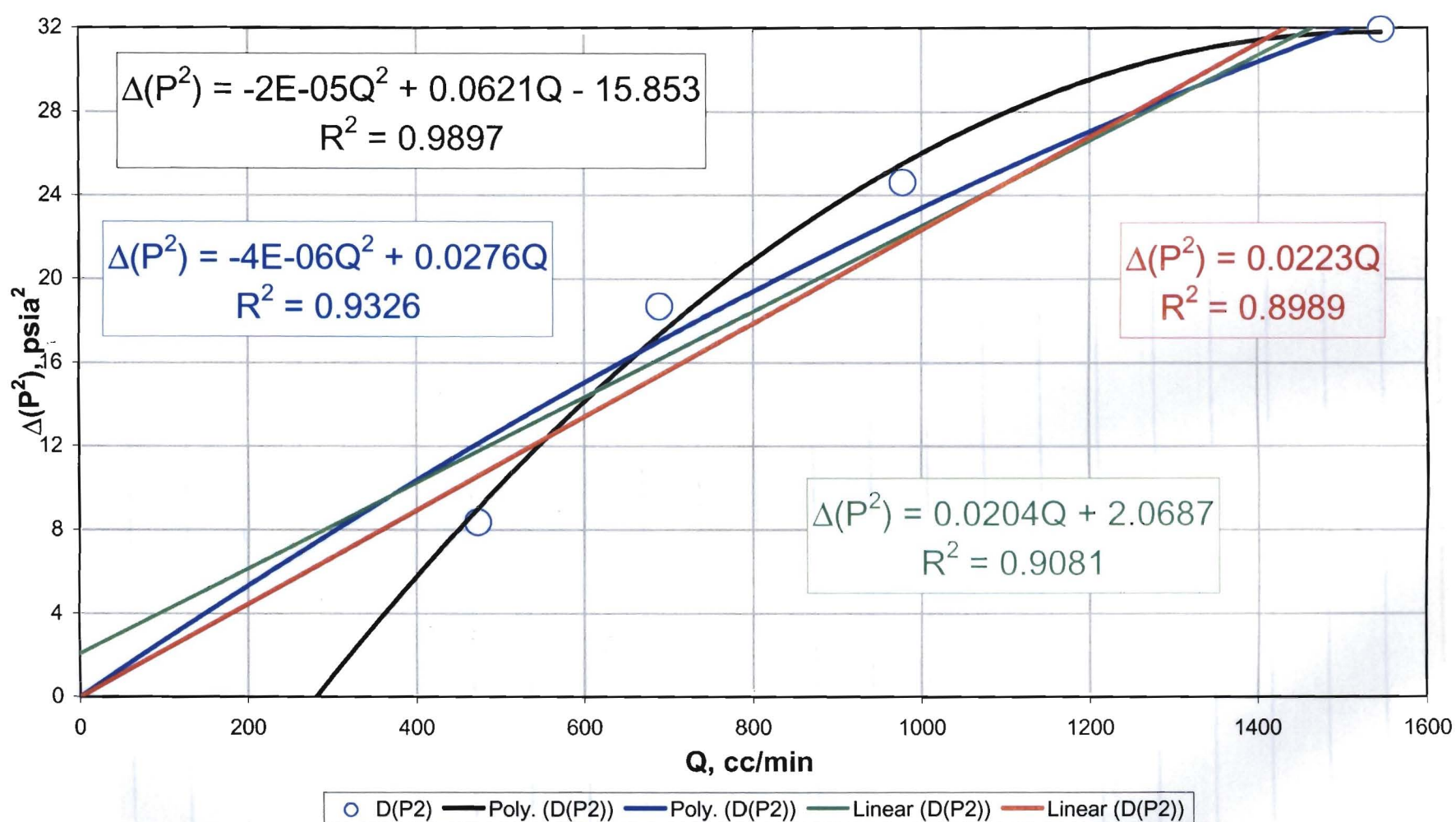
CLD, 05/15/03

Prior chart did not show
one datum.

Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect : Drillhole 29

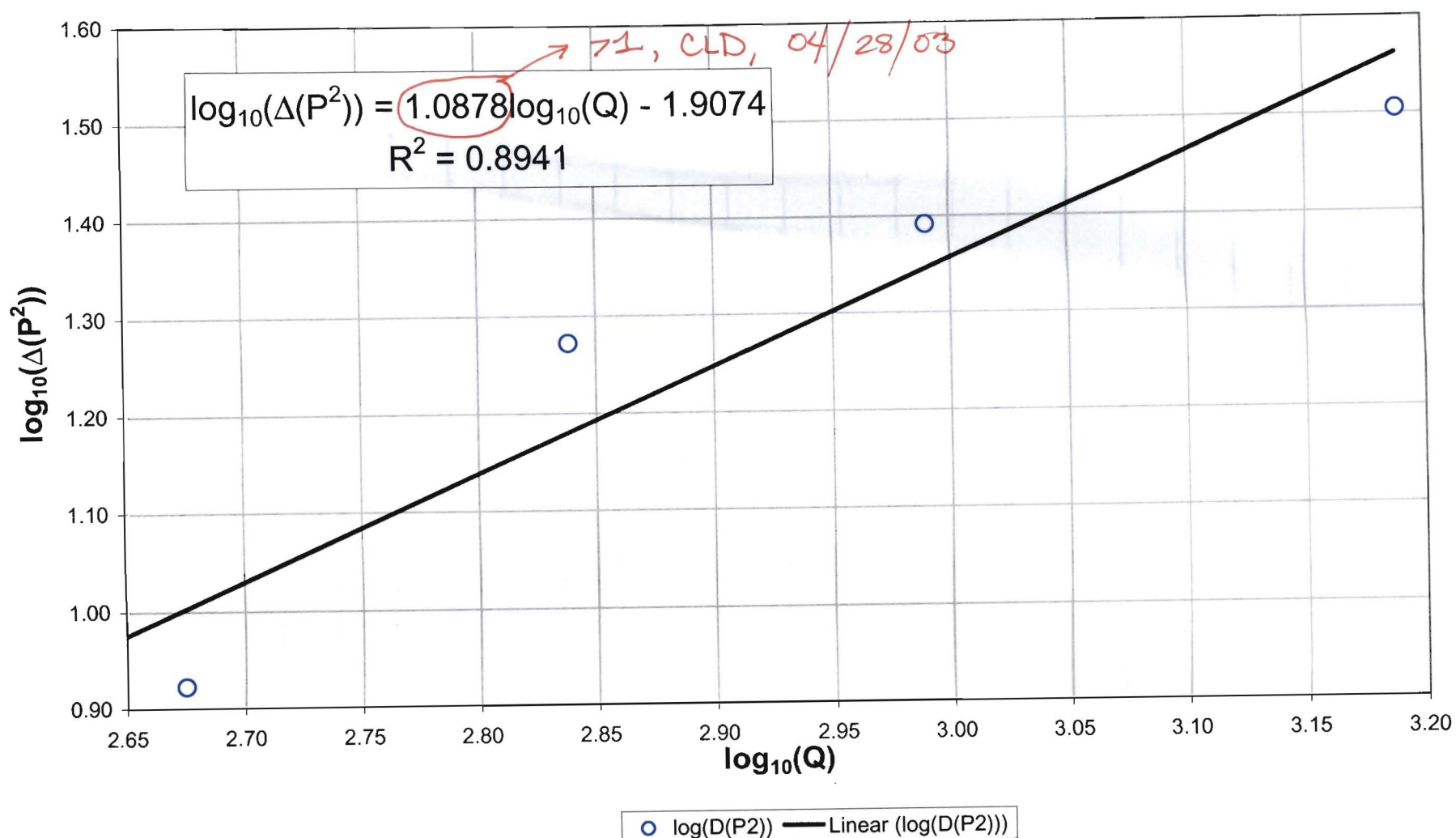


Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 30

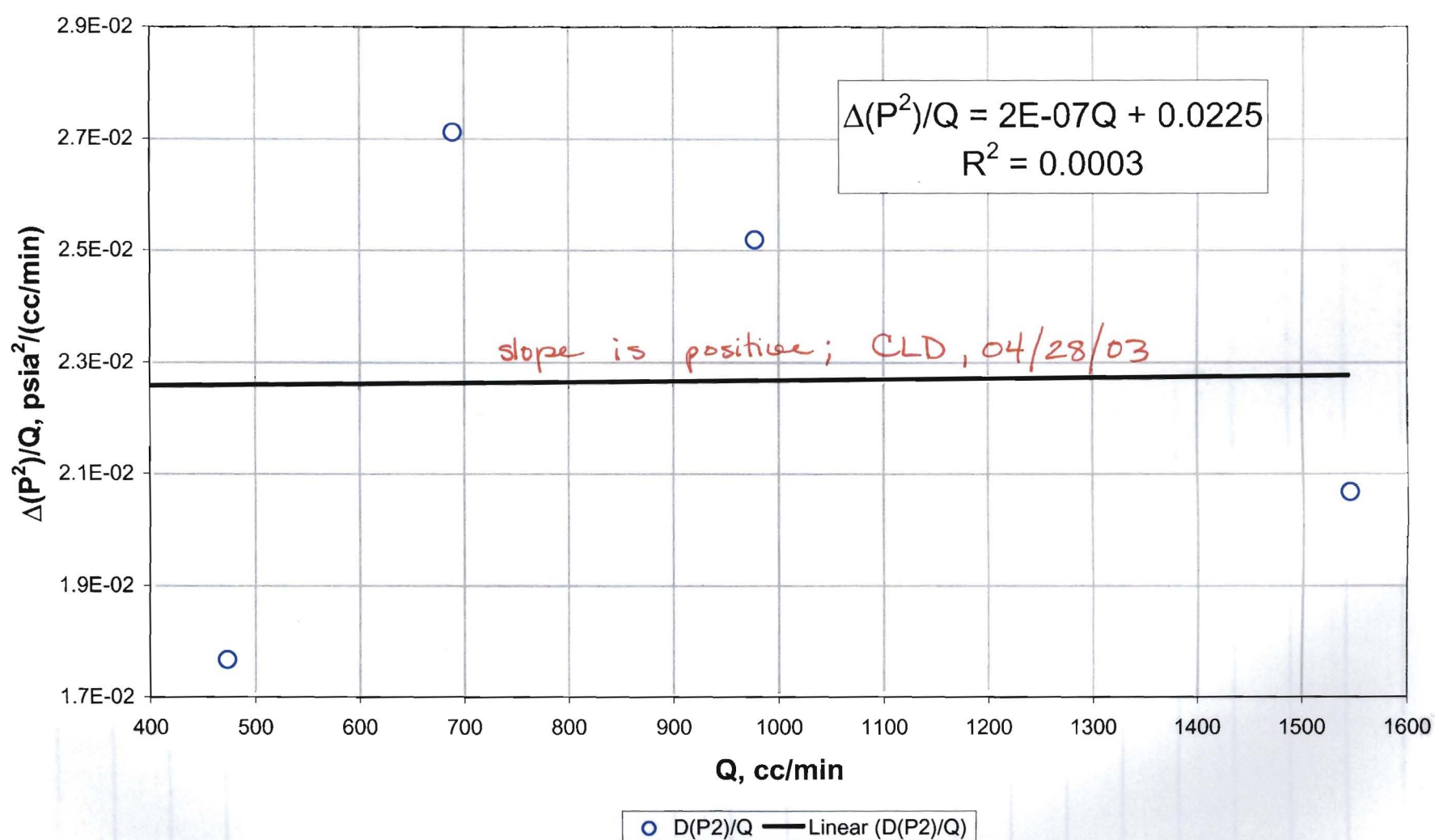


Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of high-velocity flow effects (when the slope is greater than unity)

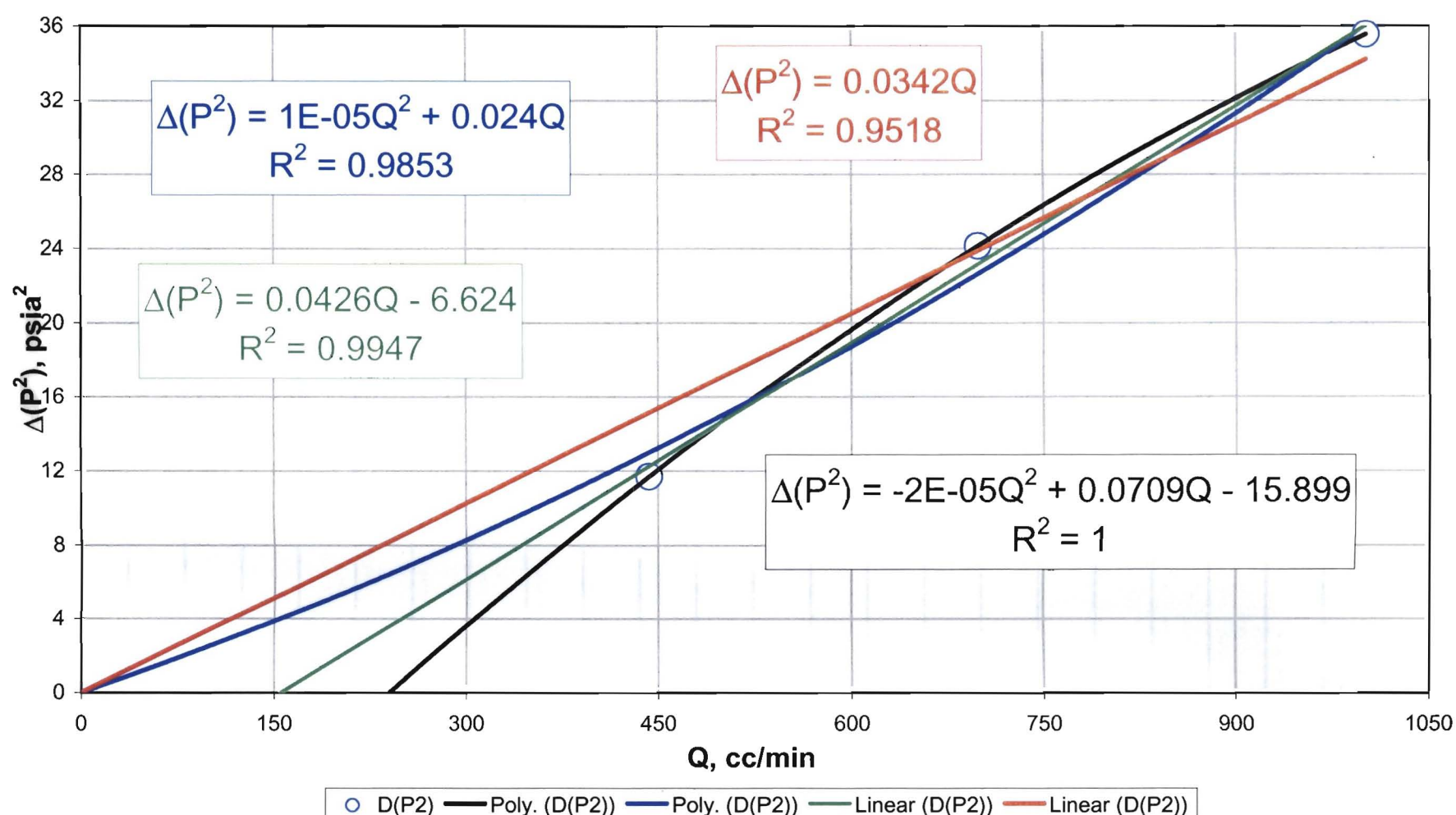
X Transect: Drillhole 30



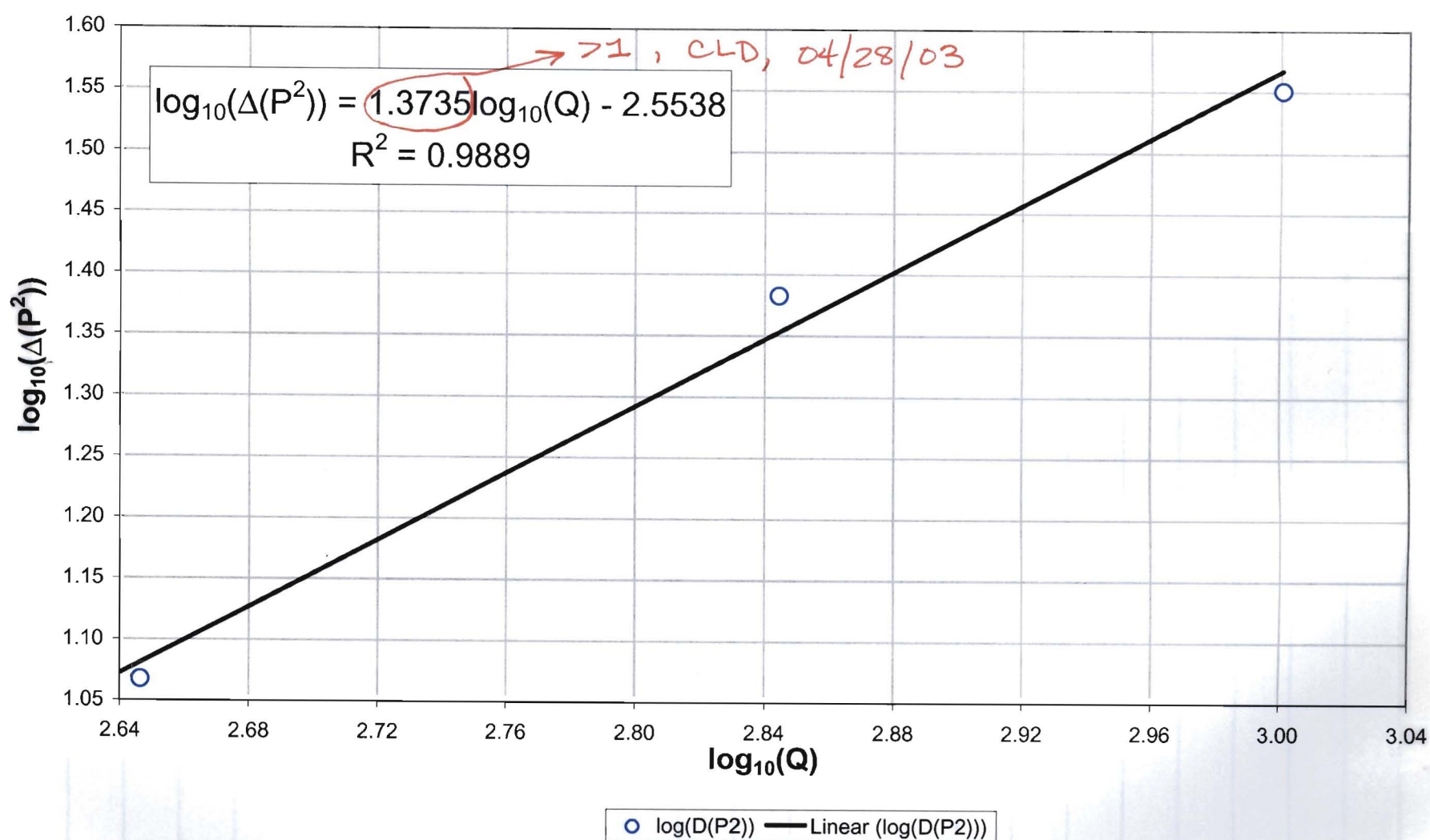
Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect : Drillhole 30



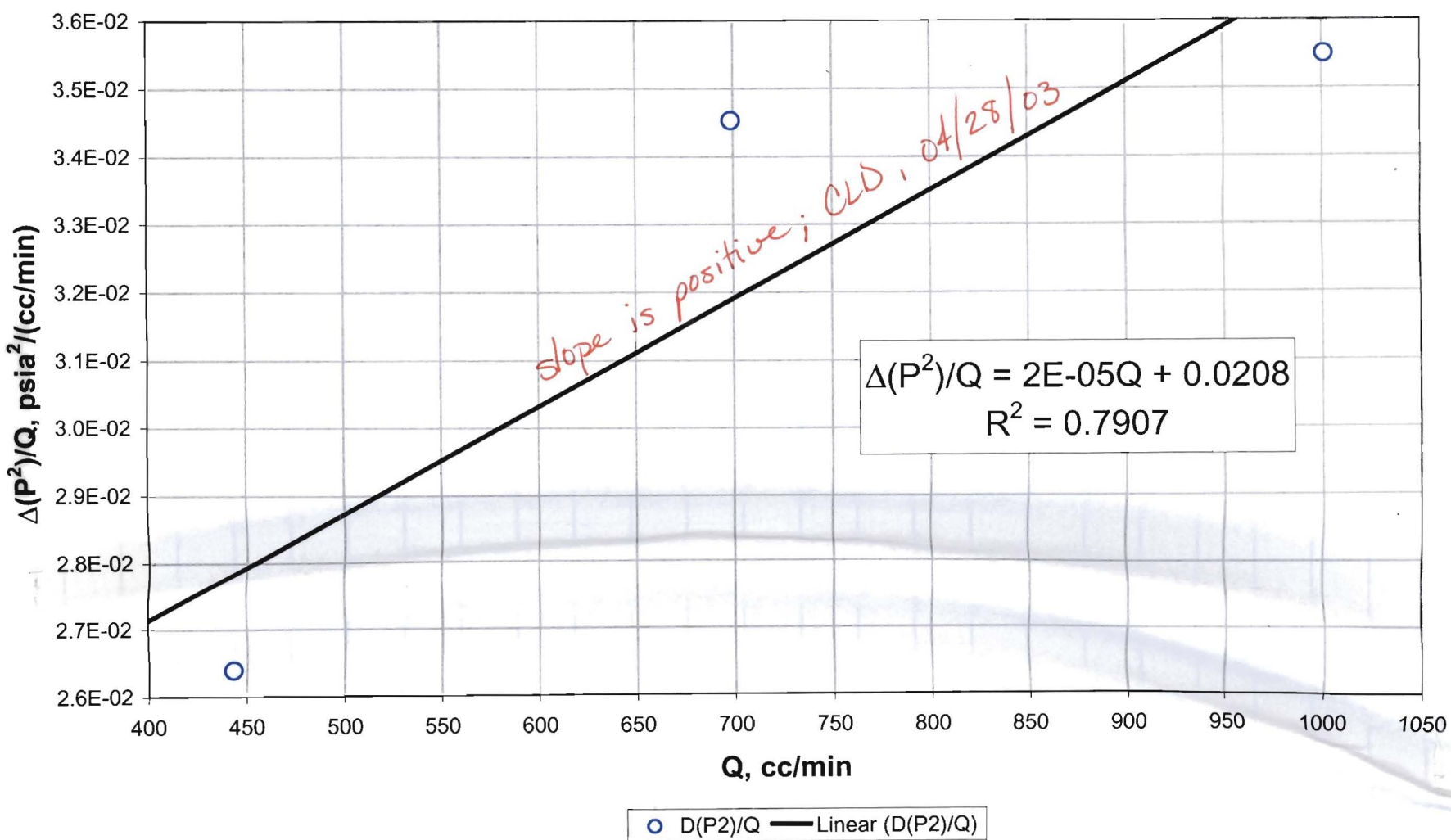
Relationship between steady-state differential pressures squared and flowrate:
If relationship is linear, with the ordinate intercept nearly zero,
there is no high velocity flow effect.
X Transect: Drillhole 31



Log-Log plot of differential pressures squared vs. flowrate--used to identify the presence of high-velocity flow effects (when the slope is greater than unity)
X Transect: Drillhole 31



Final check for high velocity flow effects:
High velocity flow effects are present when the slope is non-zero and positive.
X Transect : Drillhole 31



Possible occurrences of High Velocity Flow:

drillhole	pages
<u>X-φ</u>	<u>41, 103-105</u>
<u>X-11</u>	<u>46 CLD, 05/01/03</u>
<u>X-2φ</u>	<u>50, 136-138</u>
<u>X-21</u>	<u>52, 163-165</u>
<u>X-23</u>	<u>52, 166-168</u>
<u>X-24</u>	<u>53, 172-174</u>
<u>X-25</u>	<u>53, 175-177</u>
<u>X-26</u>	<u>53, 178-180</u>
<u>X-27</u>	<u>54, 181-183</u>
<u>X-28</u>	<u>54, 184-186</u>
<u>X-30</u>	<u>54, 187-189</u>
<u>X-31</u>	<u>55, 193-195</u>
	<u>55, 196-198</u>

12 locations, out of 42.

CLD, ~~off~~ 05/01/03

~~RNM, 08/23/02~~ RNM

Possible occurrences of HVF in the remainder of the X transect (SN # 545):

<u>drill holes</u>	<u>SN 537 pages</u>	<u>SN 545 pages</u>
X - 35	p. 56	13 - 15
X - 36	p. 56	16 - 18
X - 37	p. 56	19 - 21
X - 38	p. 57	22 - 24
X - 39	p. 57	25 - 27
X - 40	p. 57	28 - 30
X - 43	p. 58	31 - 39
X - 44	p. 58	40 - 42
X - 45	p. 58	43 - 45
X - 46	p. 59	46 - 48
X - 47	p. 59	49 - 51
X - 48	p. 59	52 - 54
X - 49	p. 59	55 - 57
X - 50	p. 60	58 - 60
X - 51	p. 60	61 - 63
X - 52	p. 60	64 - 66
X - 53	p. 60	67 - 69
X - 54	p. 61	70 - 72
X - 65	p. 63	103 - 105
X - 69 (not enuf data) Also, X-71, X-72, X-75, X-76, X-77		
X - 70	p. 65	118 - 120
X - 73	p. 65	121 - 123
X - 78	p. 66	127 - 129
X - 82	p. 67	139 - 141
X - 88*	p. 69	157 - 159
X - 98	p. 71	175 - 177

ADDITIONAL INFORMATION FOR SCIENTIFIC NOTEBOOK NO. 537

Document Date:	08/09/2002	
Availability:	Southwest Research Institute® Center for Nuclear Waste Regulatory Analyses 6220 Culebra Road San Antonio, Texas 78228	
Contact:	Southwest Research Institute® Center for Nuclear Waste Regulatory Analyses 6220 Culebra Road San Antonio, TX 78228-5166 Attn.: Director of Administration 210.522.5054	
Data Sensitivity:	☒ "Non-Sensitive" ☐ Sensitive ☐ "Non-Sensitive - Copyright" ☐ Sensitive - Copyright	
Date Generated:	08/09/2002	
Operating System: (including version number)	Windows	
Application Used: (including version number)		
Media Type: (CDs, 3 1/2, 5 1/4 disks, etc.)	1 CD	
File Types: (.exe, .bat, .zip, etc.)	xls	
Remarks: (computer runs, etc.)	Notebook supplemental material	