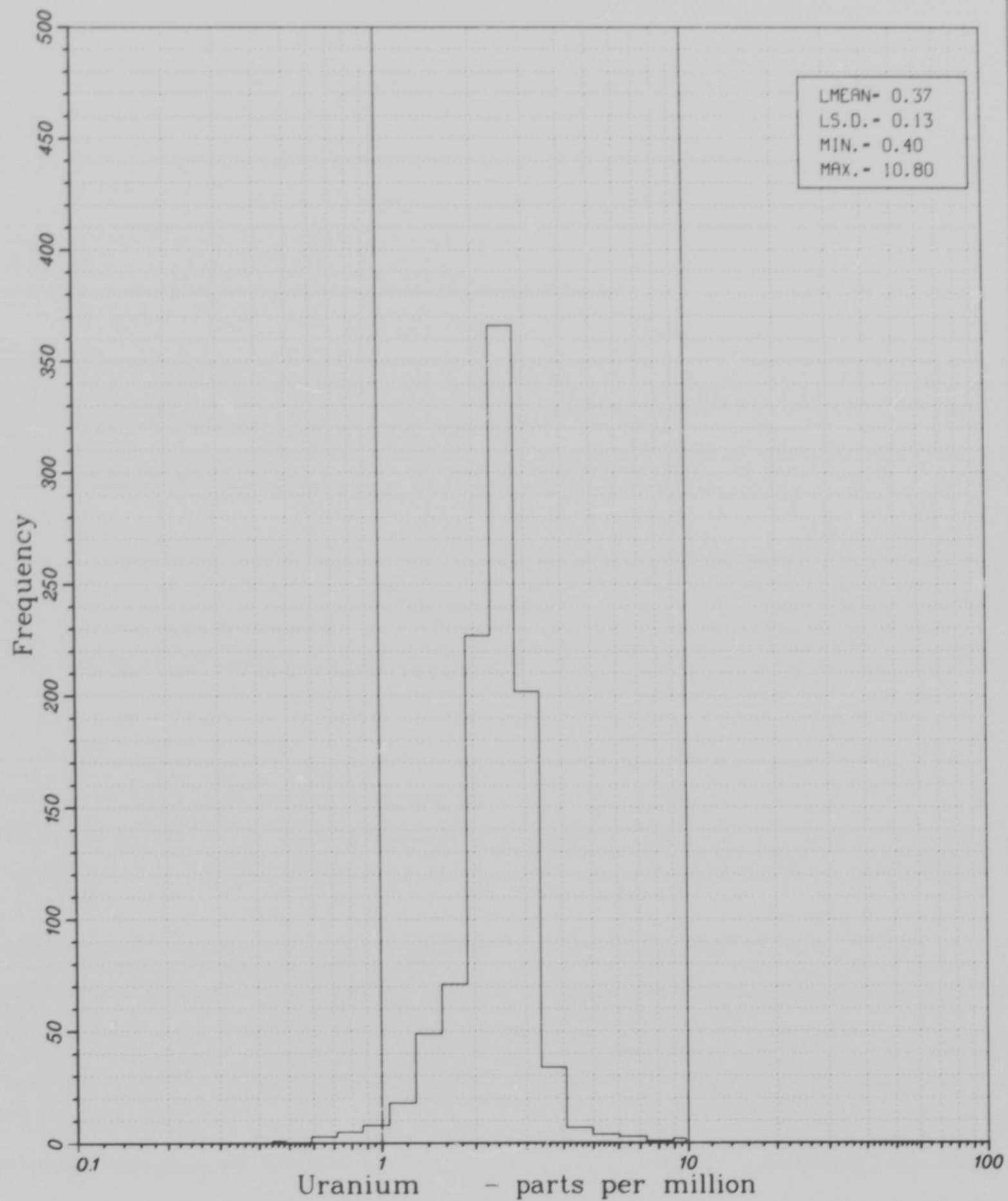


GRAND CANYON 1'x2' Sheet

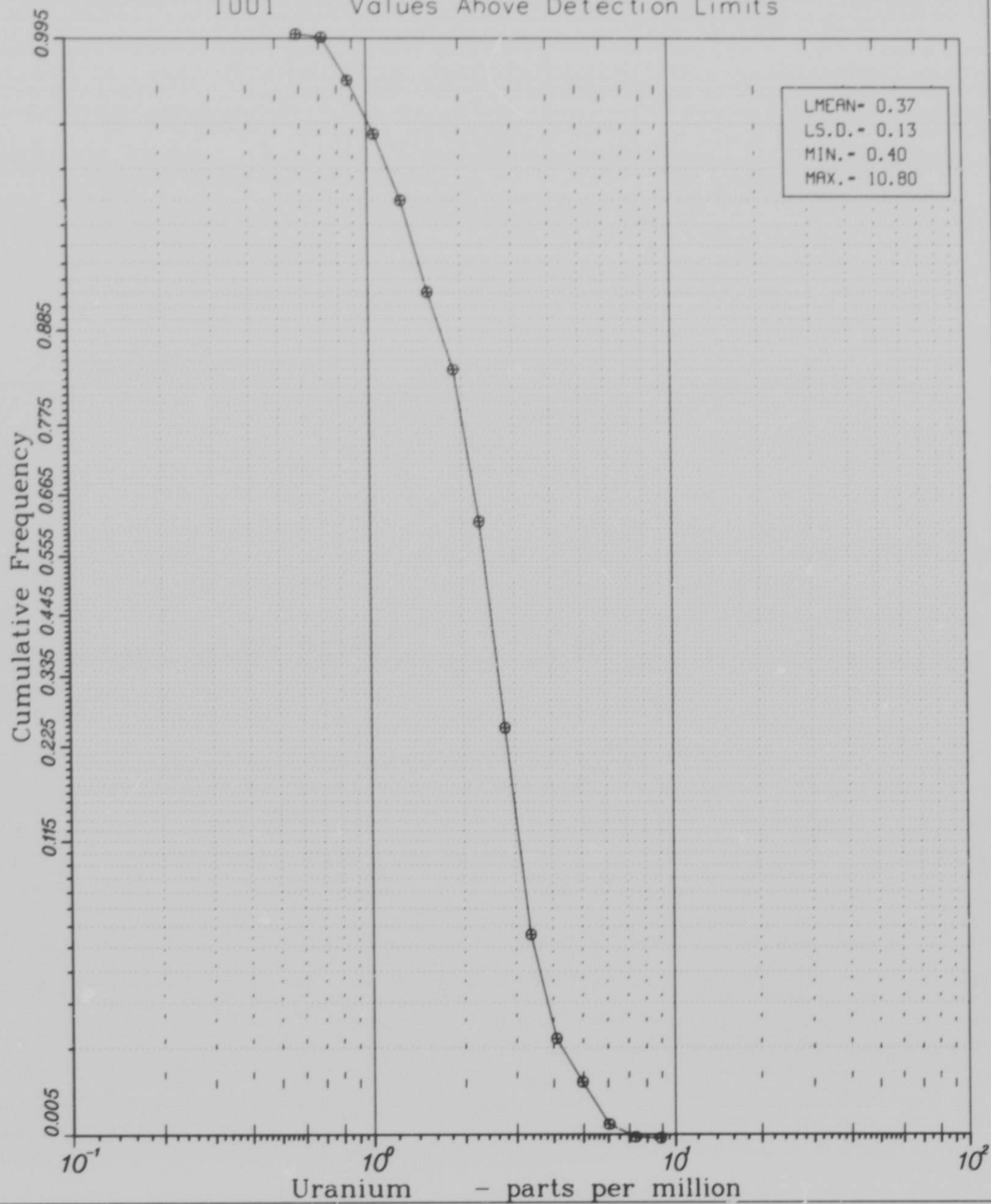
Log Histogram Uranium Values Surface Site

1001 Values Above Detection Limits



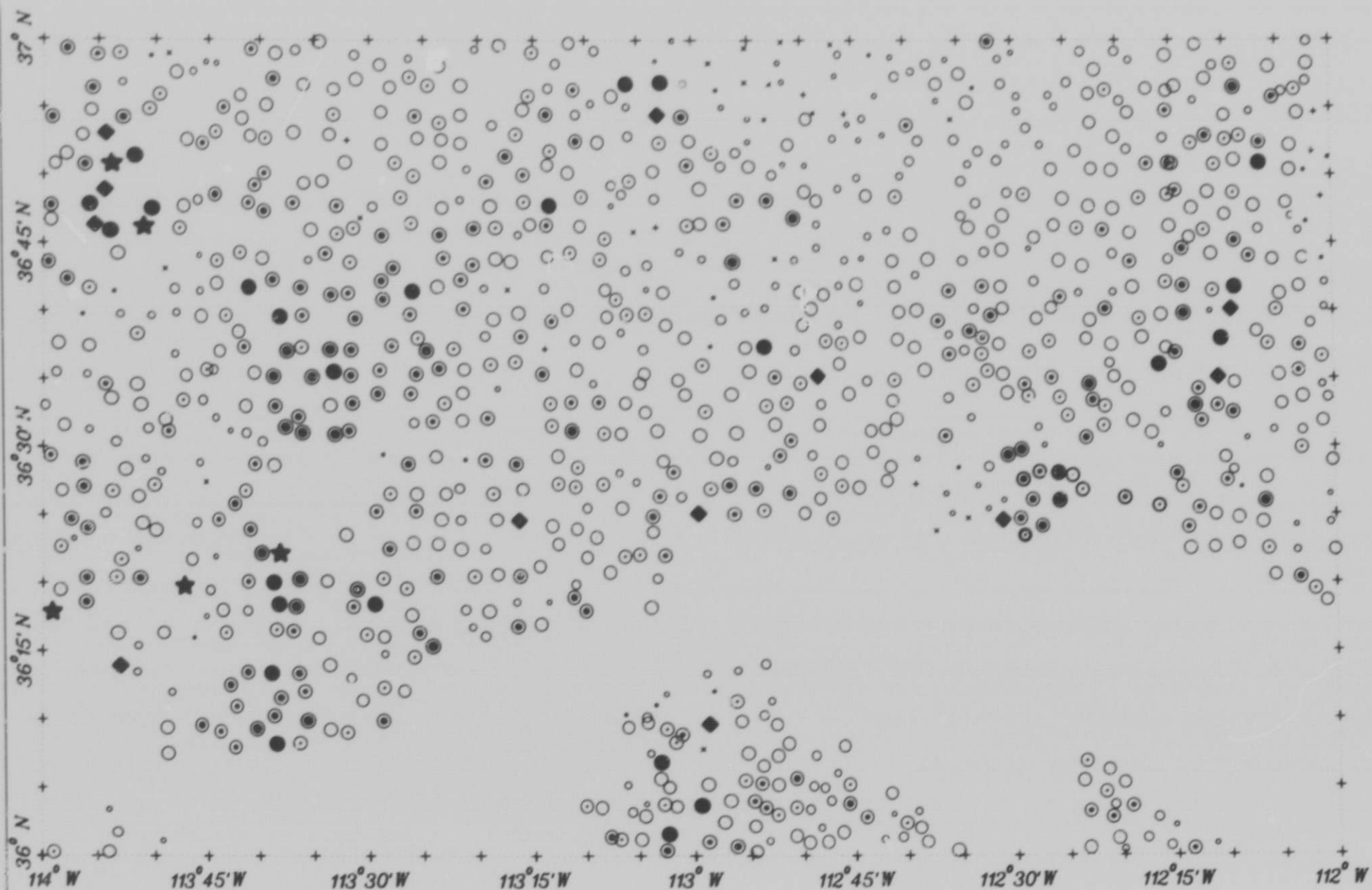
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Uranium Values - Surface Sites

1001 Values Above Detection Limits



GRAND CANYON *1x2° Sheet*
Uranium In Sediments
1001 Values Above D.L.

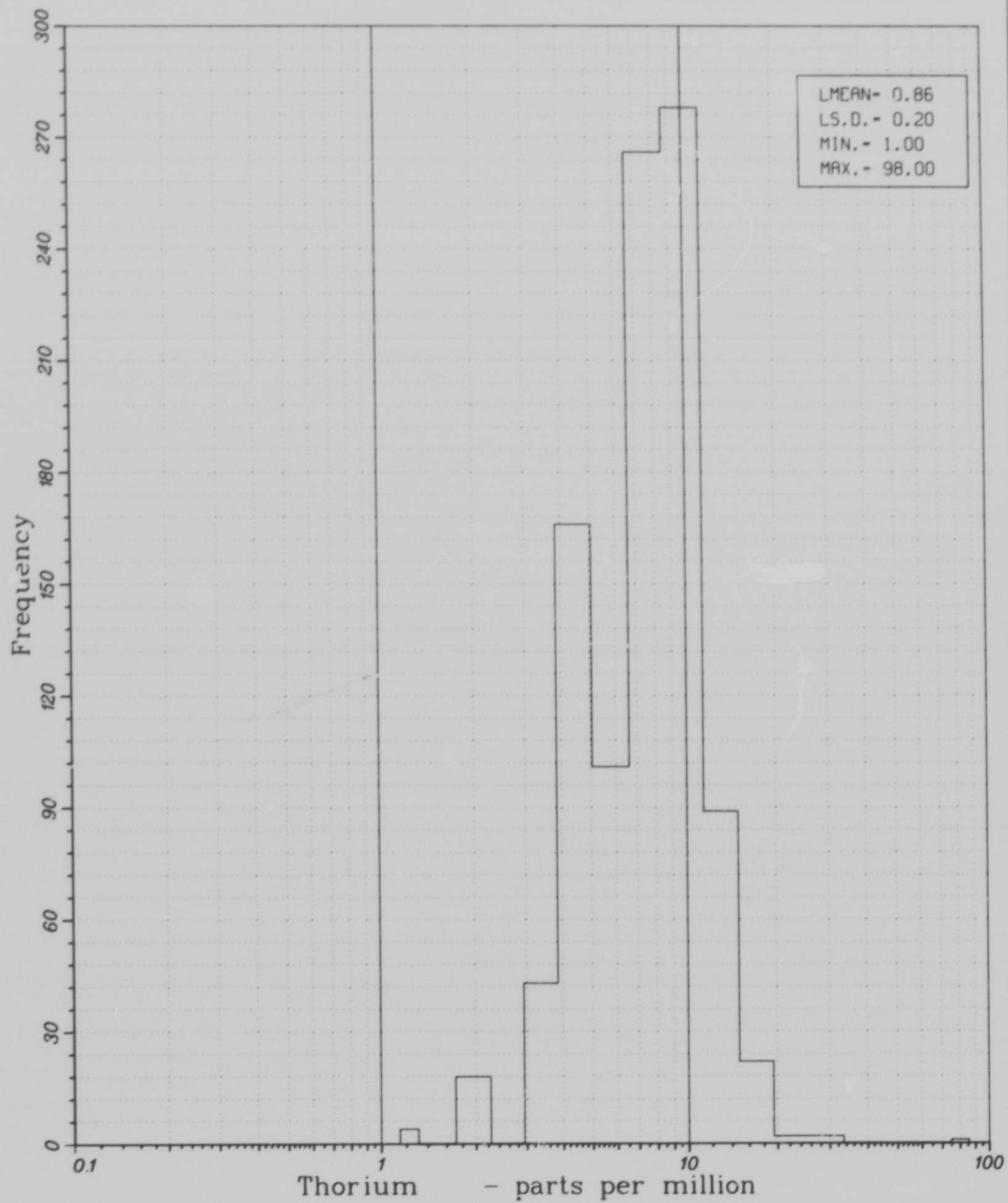
Uranium concentration - p.p.m.				
+ < 0.8	○ 1.3- 1.6	○ 2.1- 2.3	⊙ 2.7- 2.9	● 3.4- 4.0
x 0.8- 1.1	○ 1.6- 1.9	○ 2.3- 2.5	⊙ 2.9- 3.2	◆ 4.0- 6.3
• 1.1- 1.3	○ 1.9- 2.1	⊙ 2.5- 2.7	⊙ 3.2- 3.4	★ > 6.3



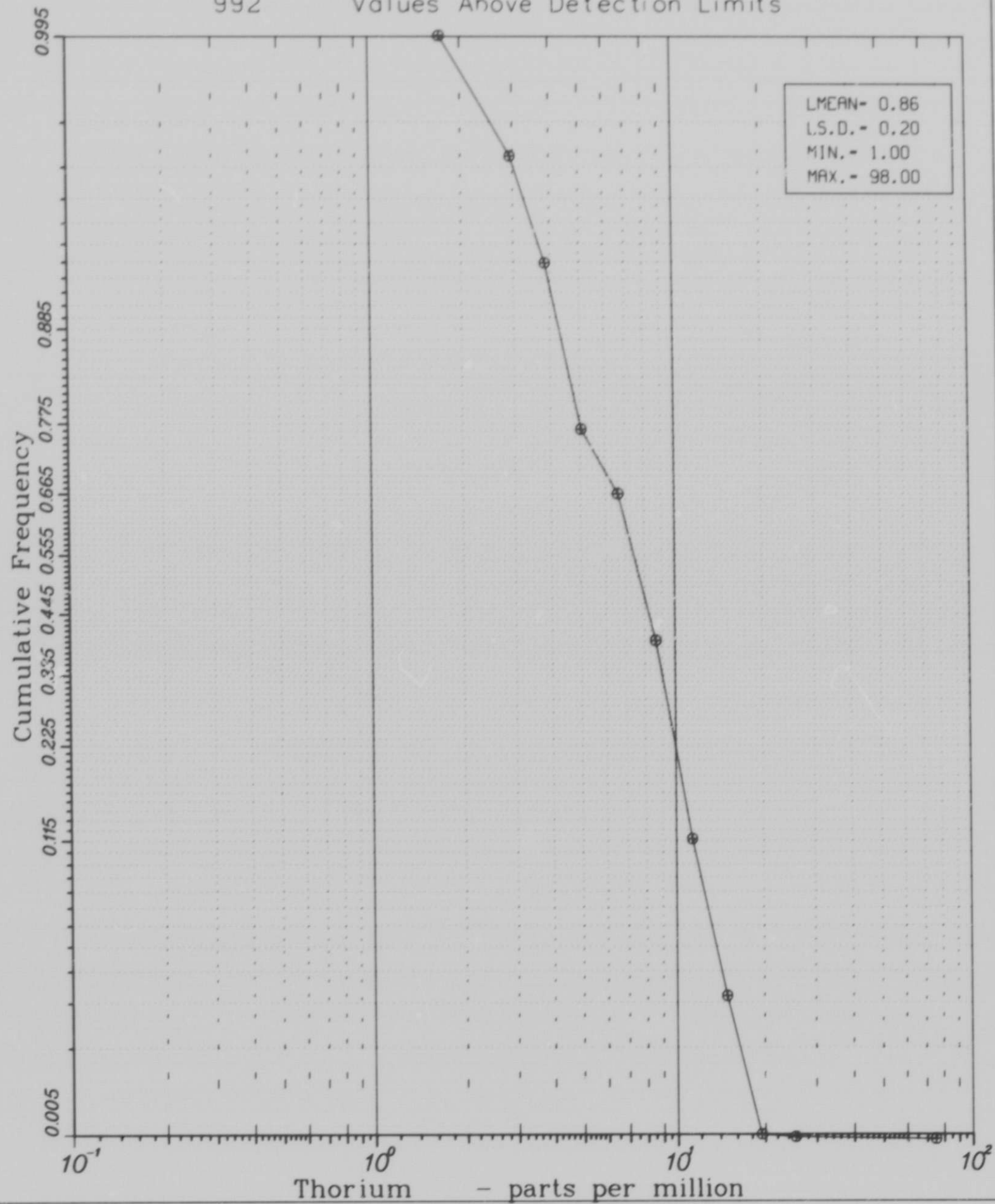
GRAND CANYON 1'x2' Sheet

Log Histogram Thorium Values Surface Site

992 Values Above Detection Limits

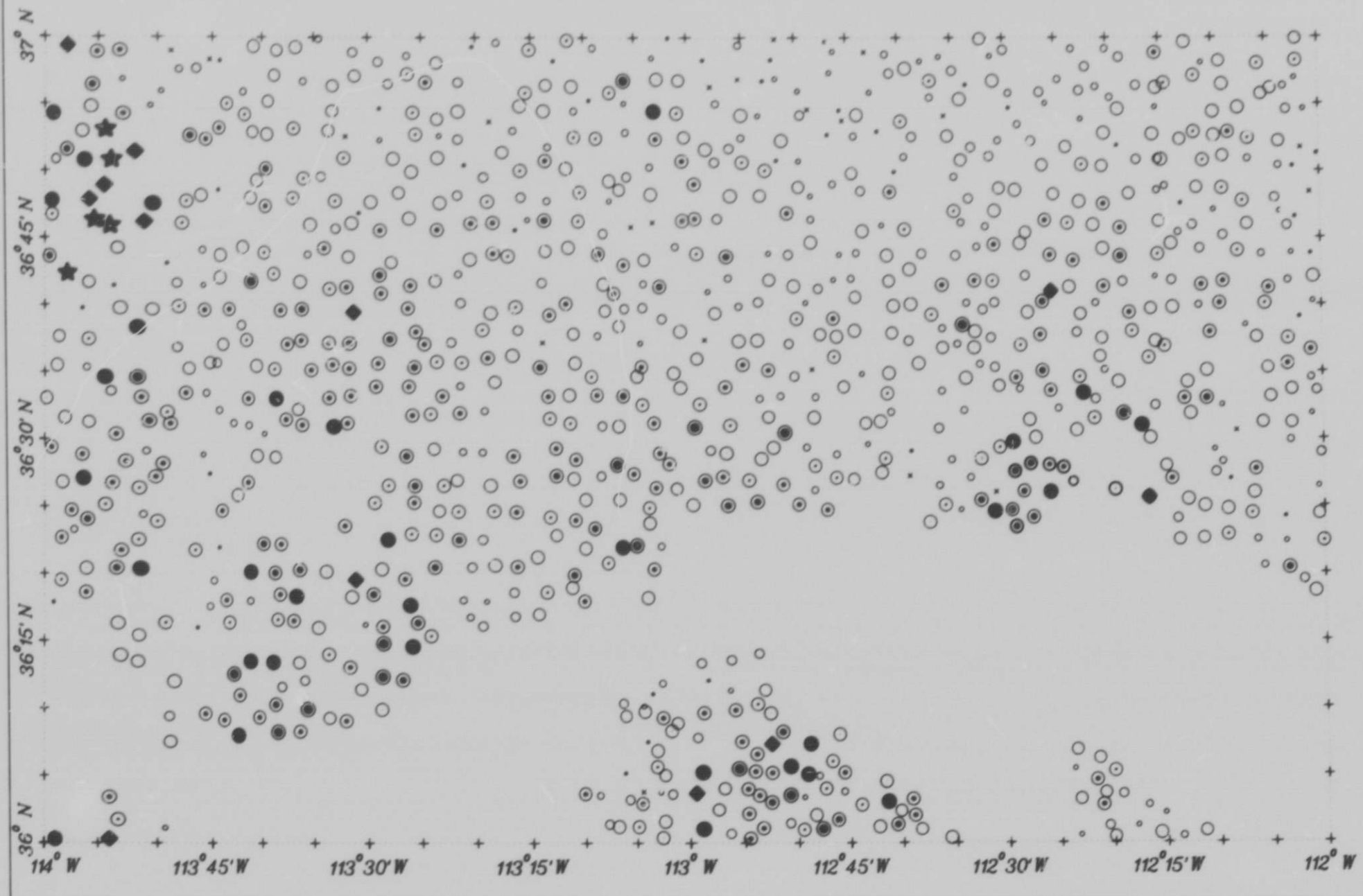


GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Thorium Values - Surface Sites
992 Values Above Detection Limits



GRAND CANYON 1°x2° Sheet
Thorium In Sediments
 992 Values Above D.L.

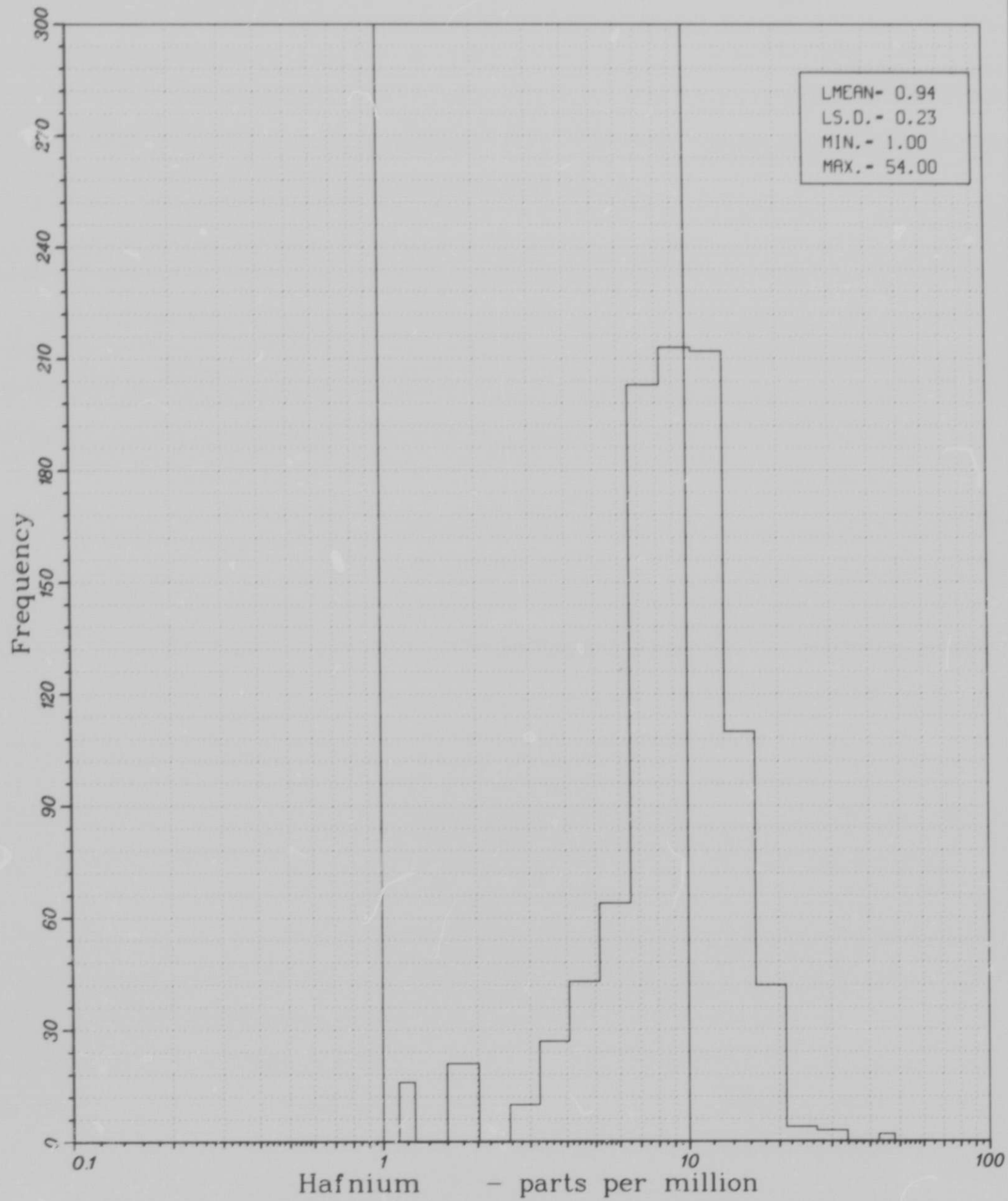
Thorium concentration - p.p.m.				
+ < 2.0	• 3.0- 4.0	○ 6.0- 7.0	⊙ 9.0- 11.0	● 13.0- 15.0
* 2.0- 2.0	○ 4.0- 5.0	○ 7.0- 8.0	⊙ 11.0- 12.0	◆ 15.0- 19.0
• 2.0- 3.0	○ 5.0- 6.0	⊙ 8.0- 9.0	● 12.0- 13.0	★ > 19.0



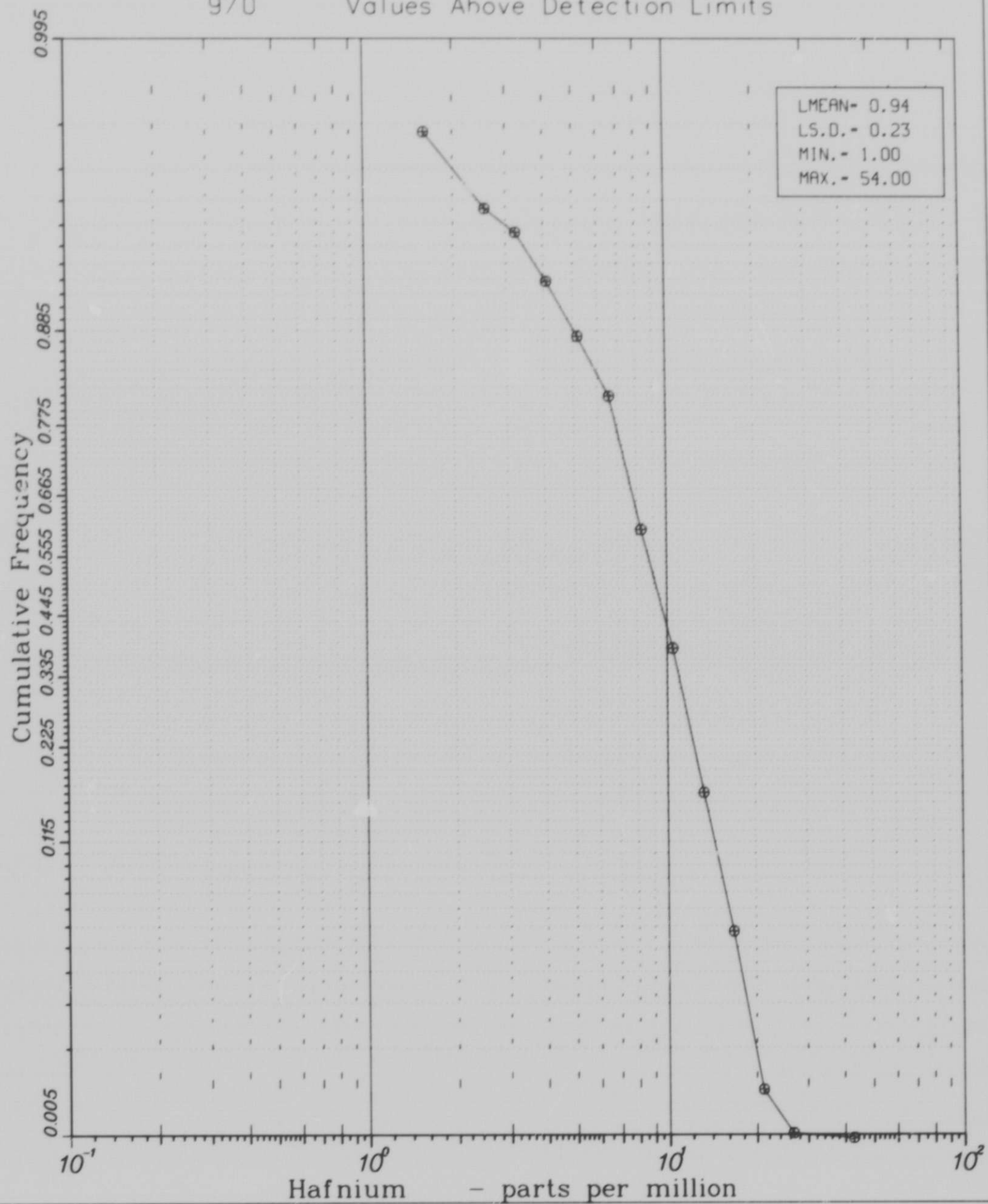
GRAND CANYON 1'x2' Sheet

Log Histogram of Hafnium Values Surface Site

970 Values Above Detection Limits



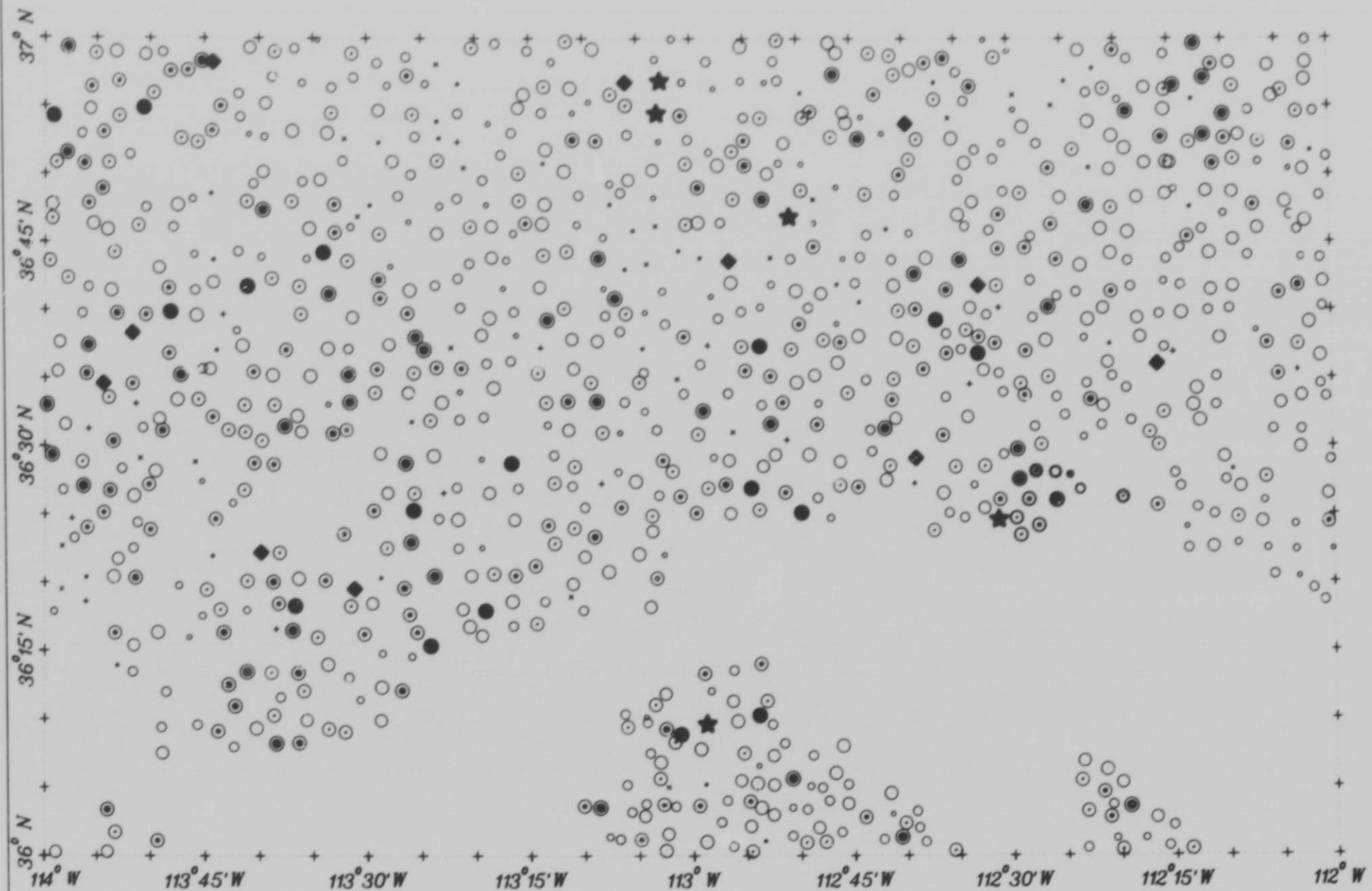
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Hafnium Values - Surface Sites
970 Values Above Detection Limits



GRAND CANYON 1x2' Sheet
 Hafnium In Sediments
 970 Values Above D.L.

Hafnium concentration - p.p.m.

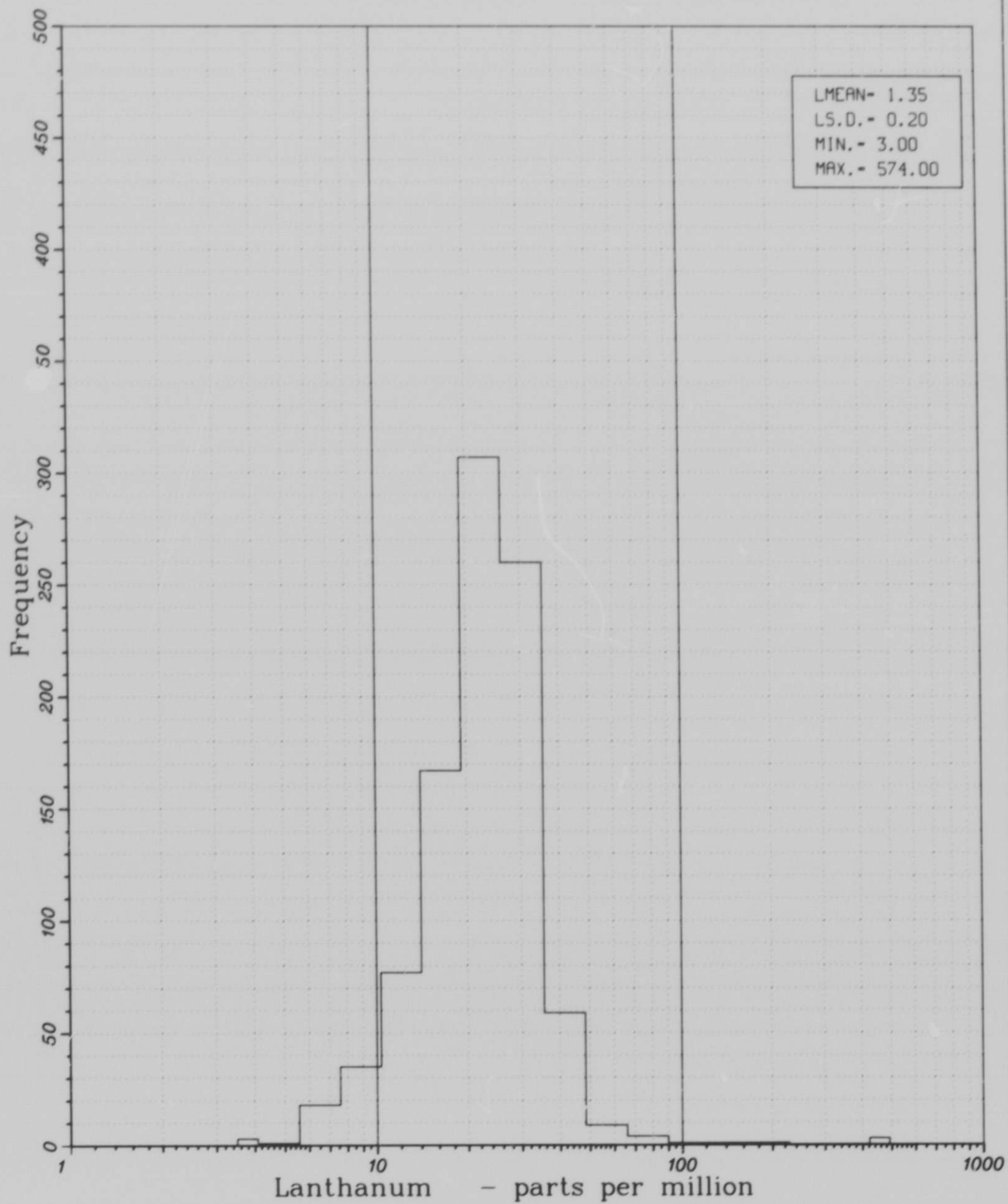
+ < 1.0	o 4.0- 5.0	○ 8.0- 9.0	⊙ 12.0- 14.0	● 17.0- 19.0
x 1.0- 2.0	o 5.0- 6.0	○ 9.0- 10.0	⊙ 14.0- 15.0	◆ 19.0- 25.0
• 2.0- 4.0	○ 6.0- 8.0	⊙ 10.0- 12.0	⊙ 15.0- 17.0	★ > 25.0



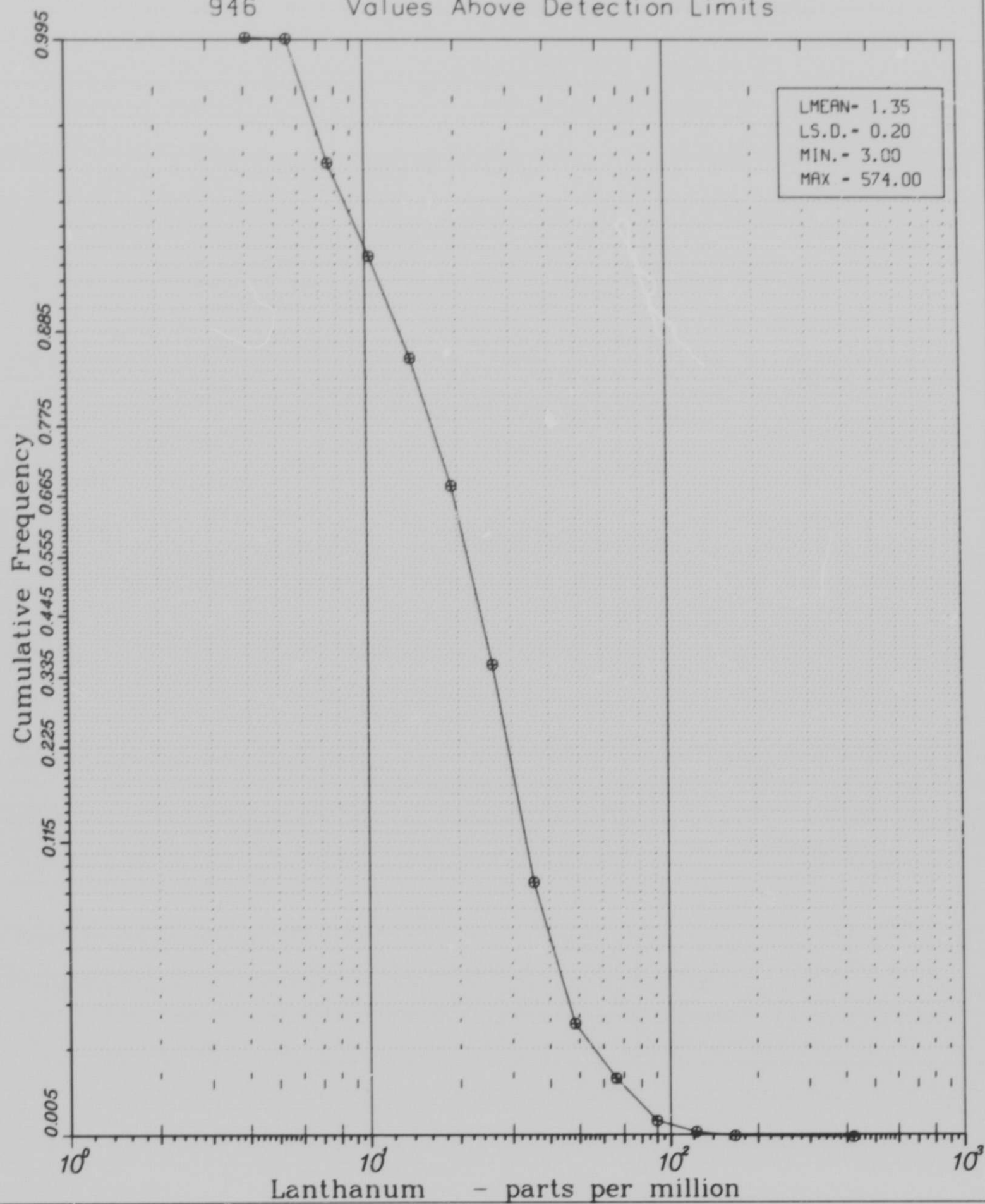
GRAND CANYON 1'x2' Sheet

Log Histogram Lanthanum Values Surface Site

946 Values Above Detection Limits



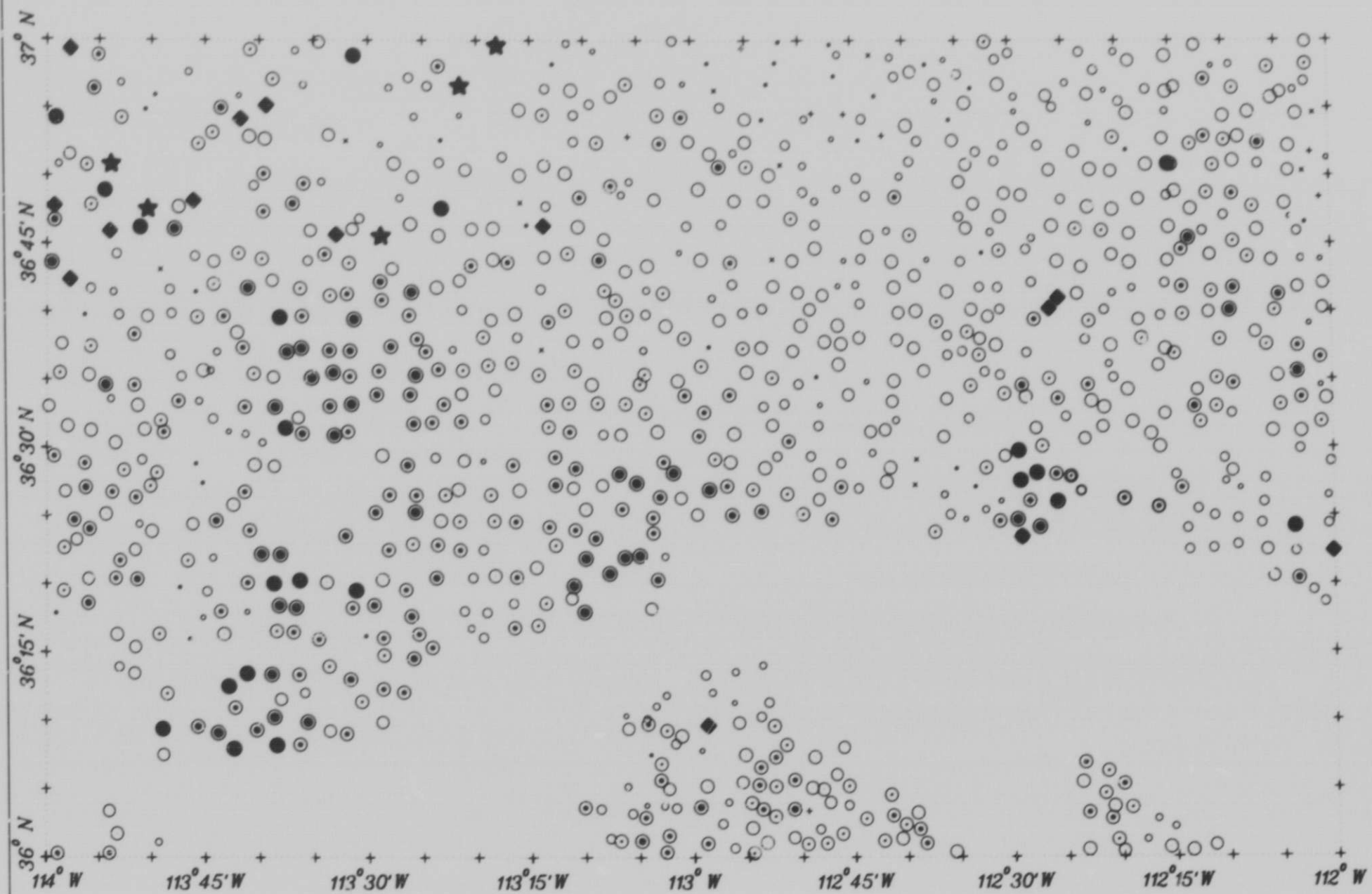
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Lanthanum Values - Surface Sites
946 Values Above Detection Limits



GRAND CANYON 1x2° Sheet
Lanthanum In Sediments
 946 Values Above D.L.

Lanthanum concentration - p.p.m.

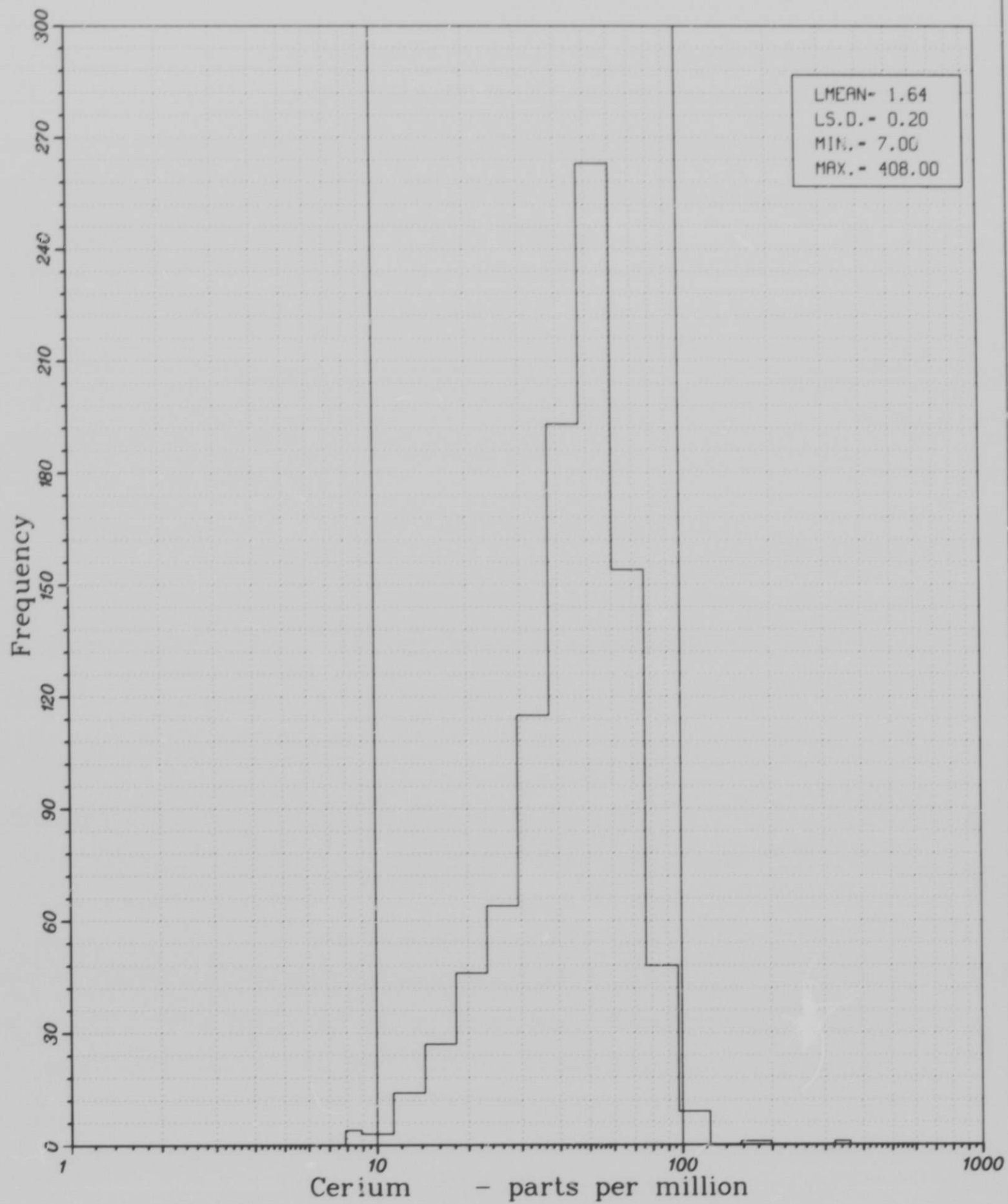
+ < 6.0	• 10.0- 12.0	○ 19.0- 22.0	⊙ 28.0- 32.0	● 38.0- 46.0
* 6.0- 7.0	○ 12.0- 15.0	○ 22.0- 25.0	⊙ 32.0- 35.0	◆ 46.0- 110.0
• 7.0- 10.0	○ 15.0- 19.0	⊙ 25.0- 28.0	⊙ 35.0- 38.0	★ > 110.0



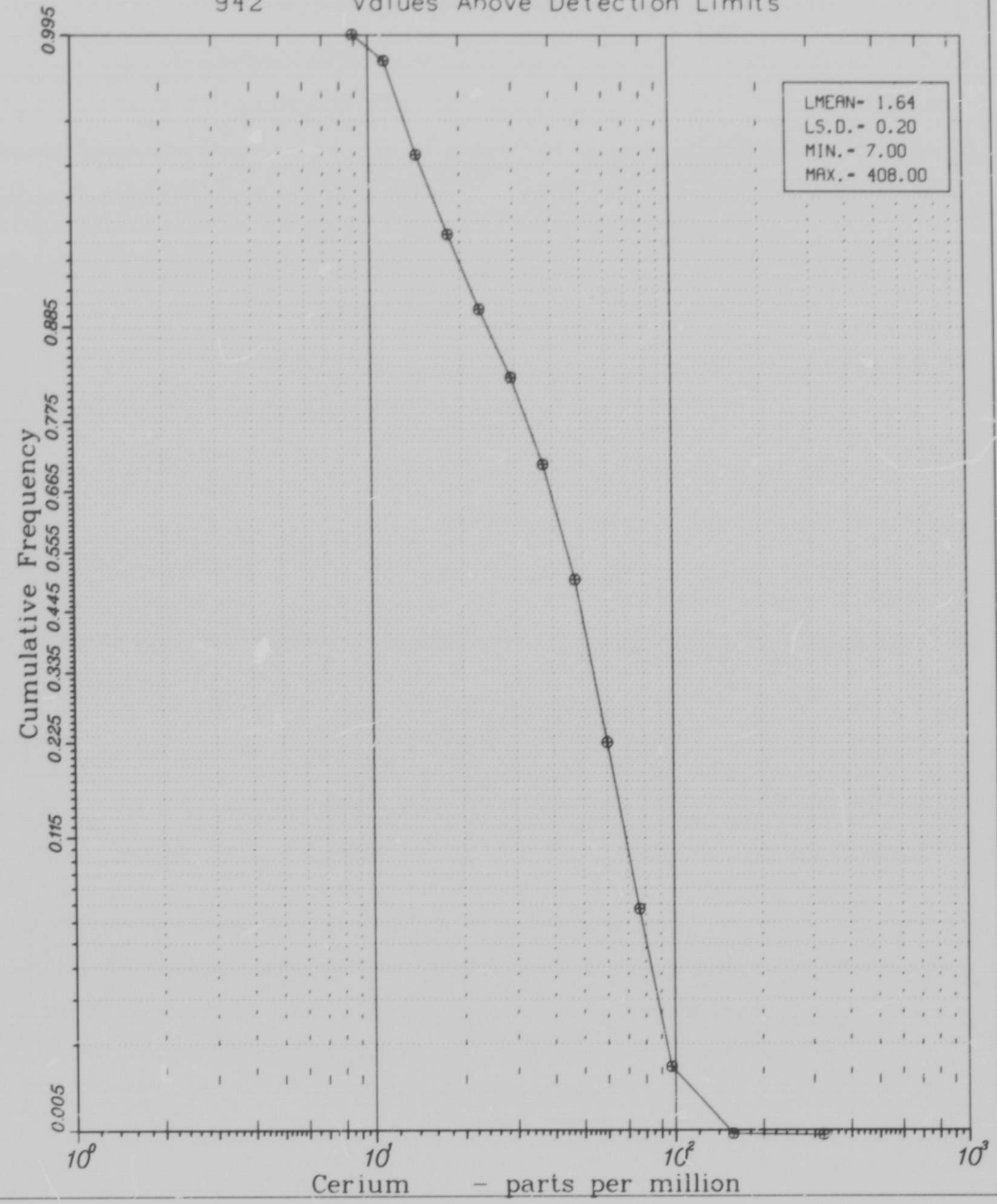
GRAND CANYON 1'x2' Sheet

Log Histogram Cerium Values Surface Site

942 Values Above Detection Limits

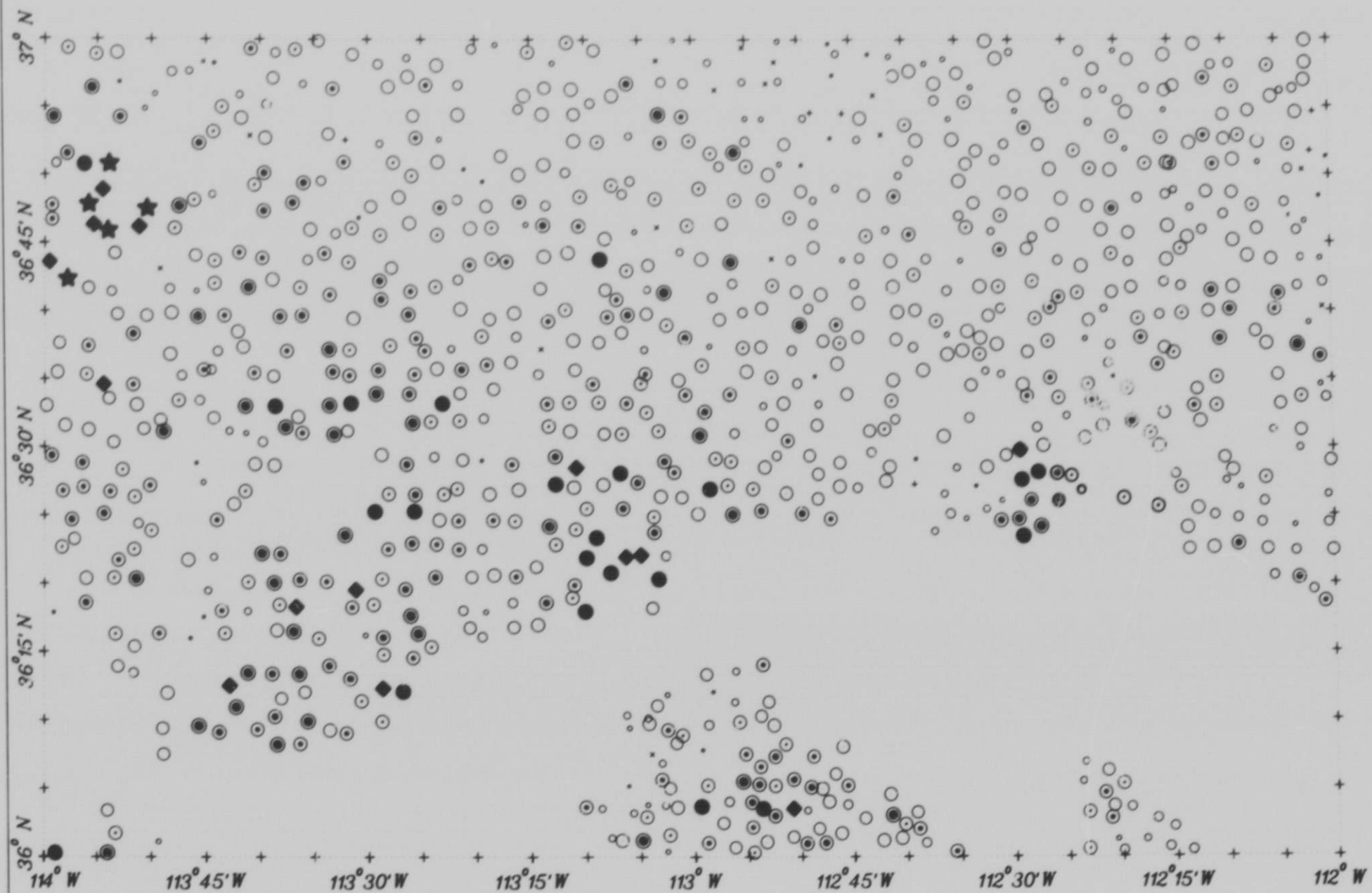
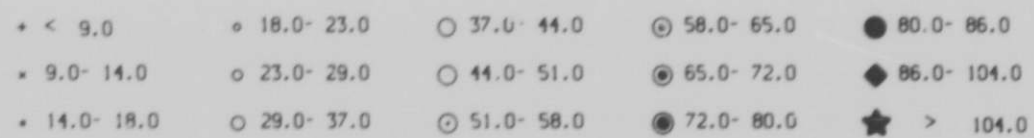


GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Cerium Values - Surface Sites
942 Values Above Detection Limits



GRAND CANYON *1x2° Sheet*
Cerium In Sediments
942 Values Above D.L.

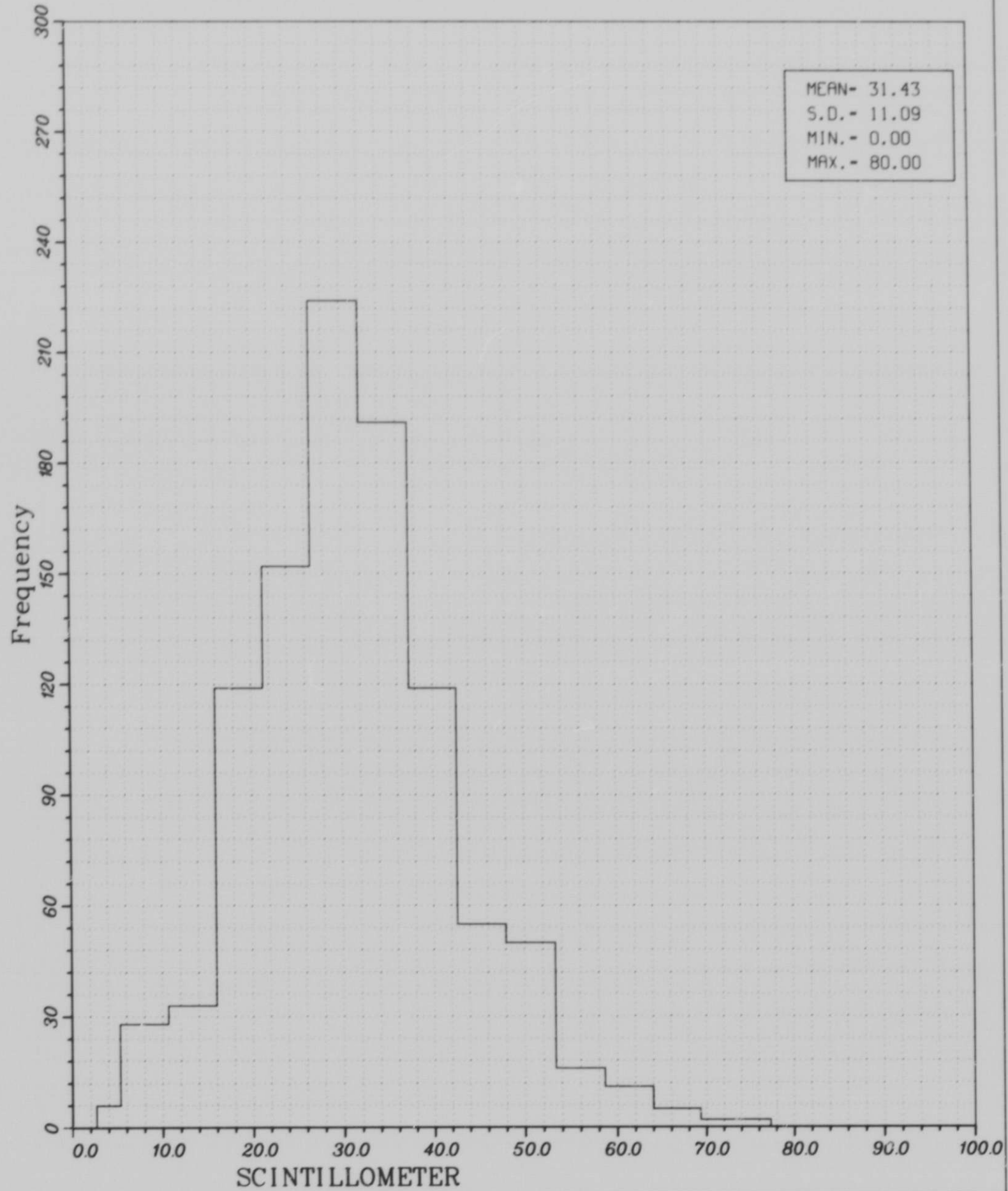
Cerium concentration - p.p.m.



GRAND CANYON 1'x2' Sheet

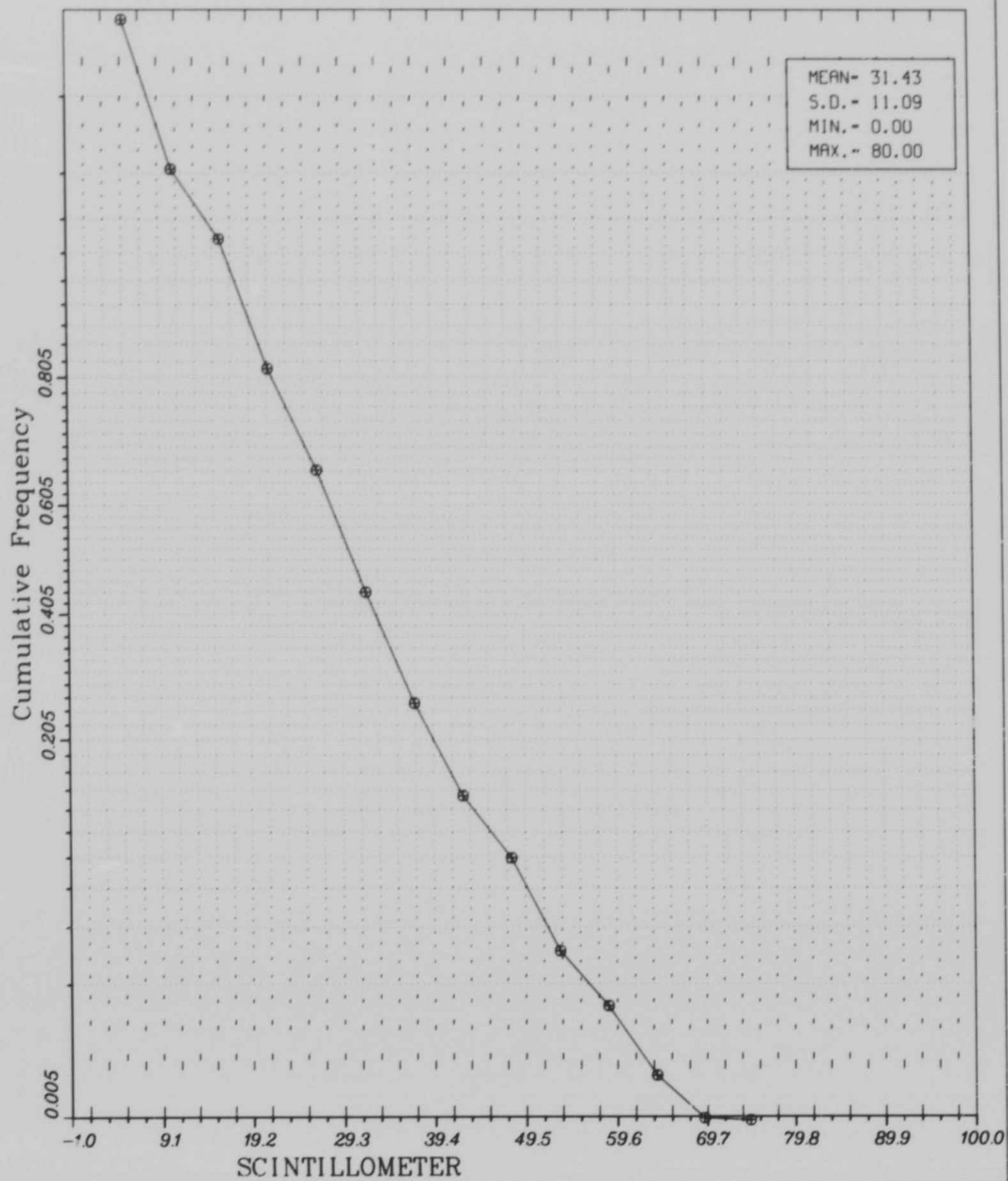
Histogram SCINTILLOMETER Values - Surface Sites

1013 Values Above Detection Limits



SCINTILLOMETER

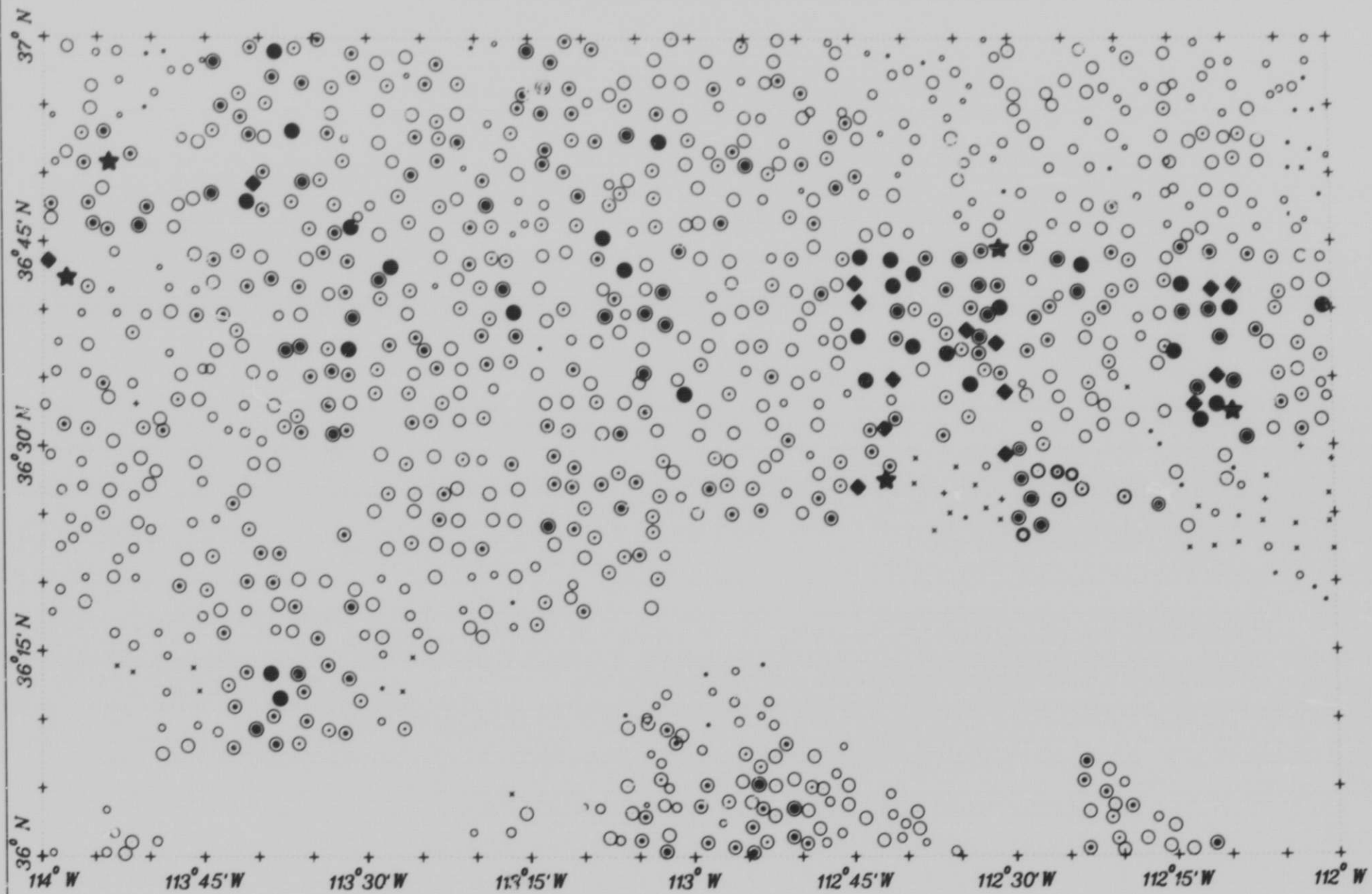
GRAND CANYON 1'x2' Sheet
Cumulative Frequency Plot
SCINTILLOMETER Values - Surface Sites
1013 Values Above Detection Limits



GRAND CANYON 1x2' Sheet
 SCINTILLOMETER In Sediments
 1013 Values Above D.L.

SCINTILLOMETER

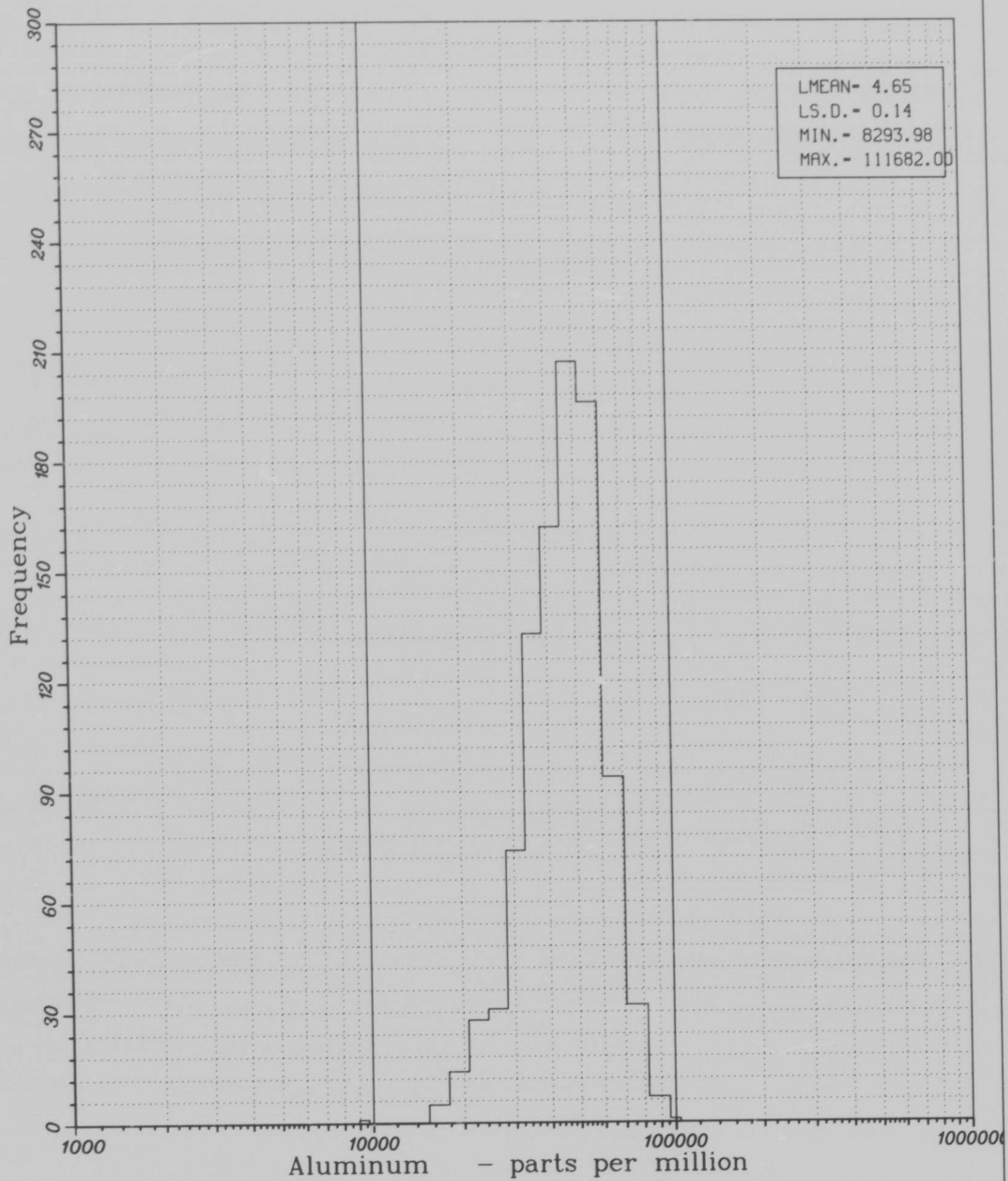
+ < 5.00	○ 15.00- 18.00	○ 25.00- 29.00	⊙ 36.00- 42.00	● 50.00- 58.00
* 5.00- 10.00	○ 18.00- 20.00	○ 29.00- 32.00	⊙ 42.00- 46.00	◆ 58.00- 65.00
• 10.00- 15.00	○ 20.00- 25.00	⊙ 32.00- 36.00	⊙ 46.00- 50.00	★ > 65.00



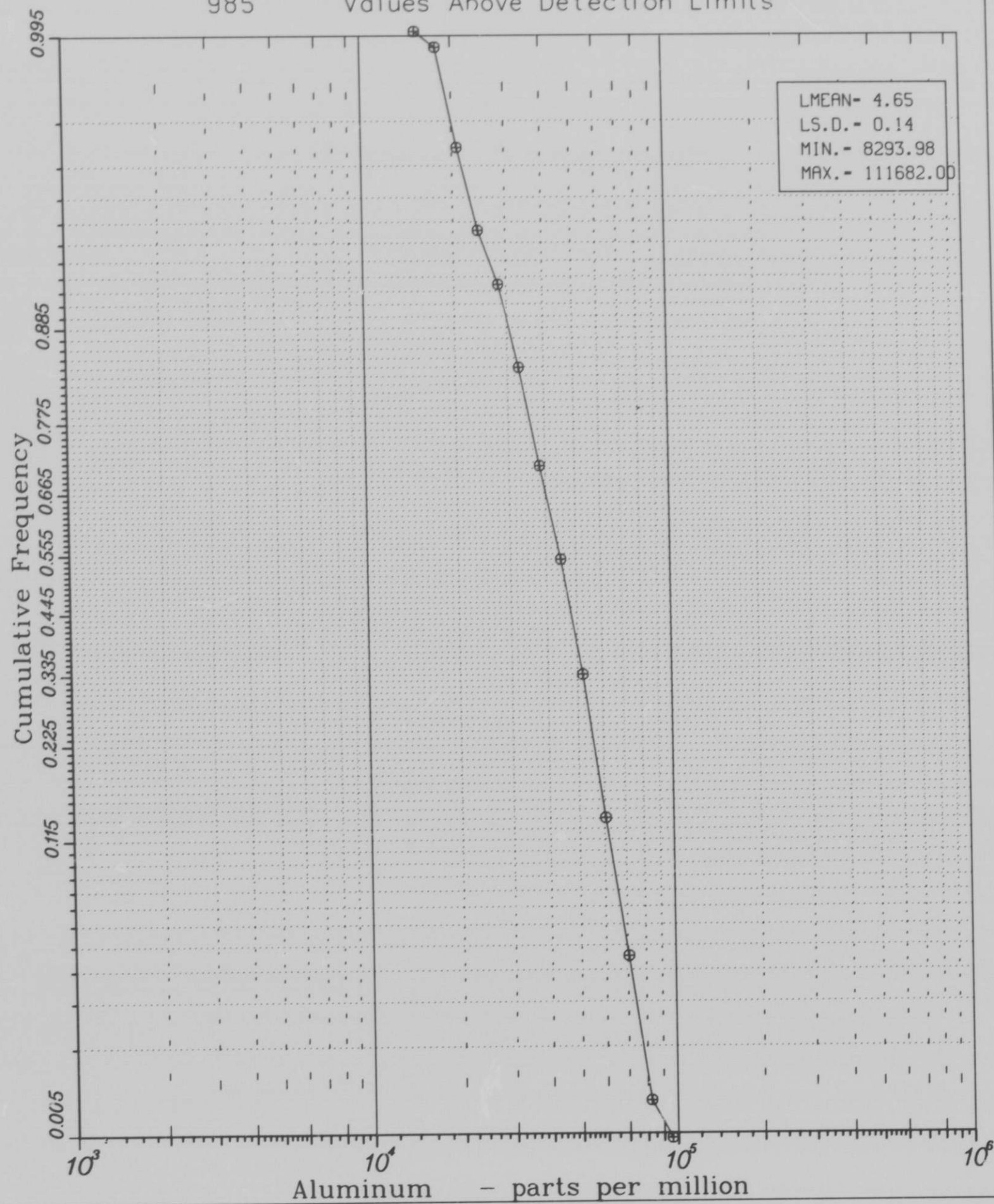
GRAND CANYON 1'x2' Sheet

Log Histogram Aluminum Values Surface Site

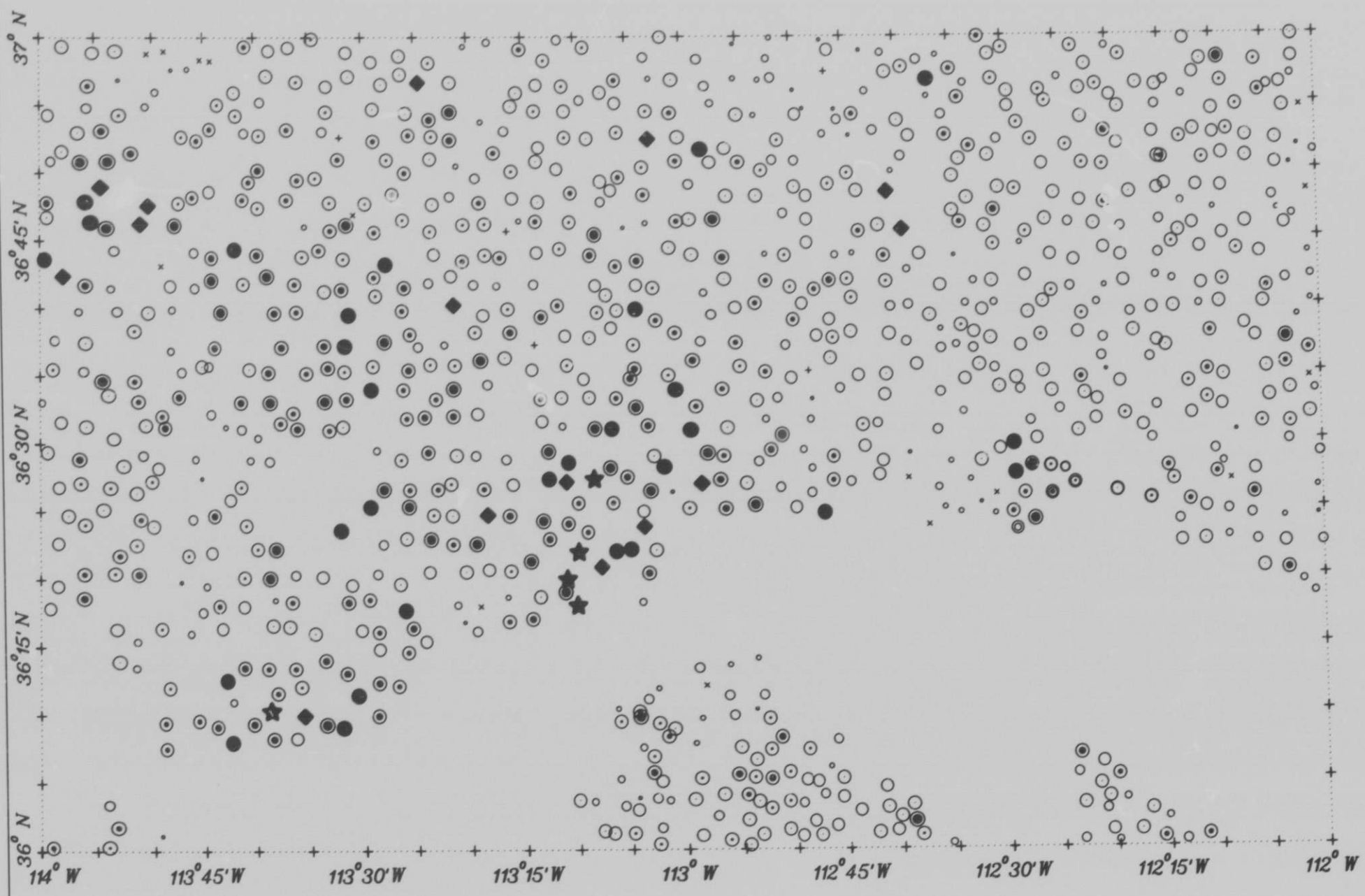
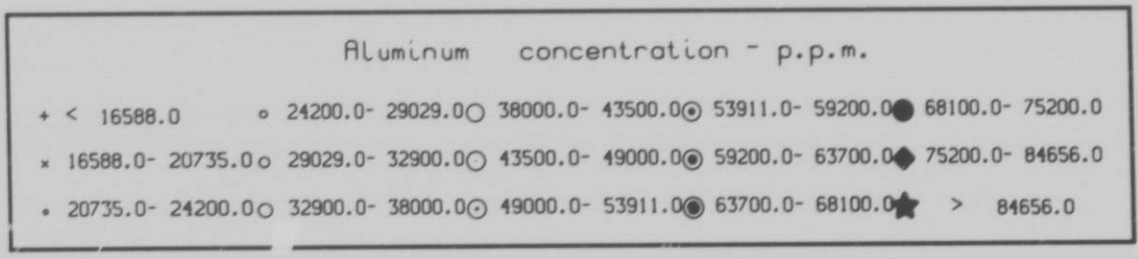
985 Values Above Detection Limits



GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Aluminum Values - Surface Sites
985 Values Above Detection Limits



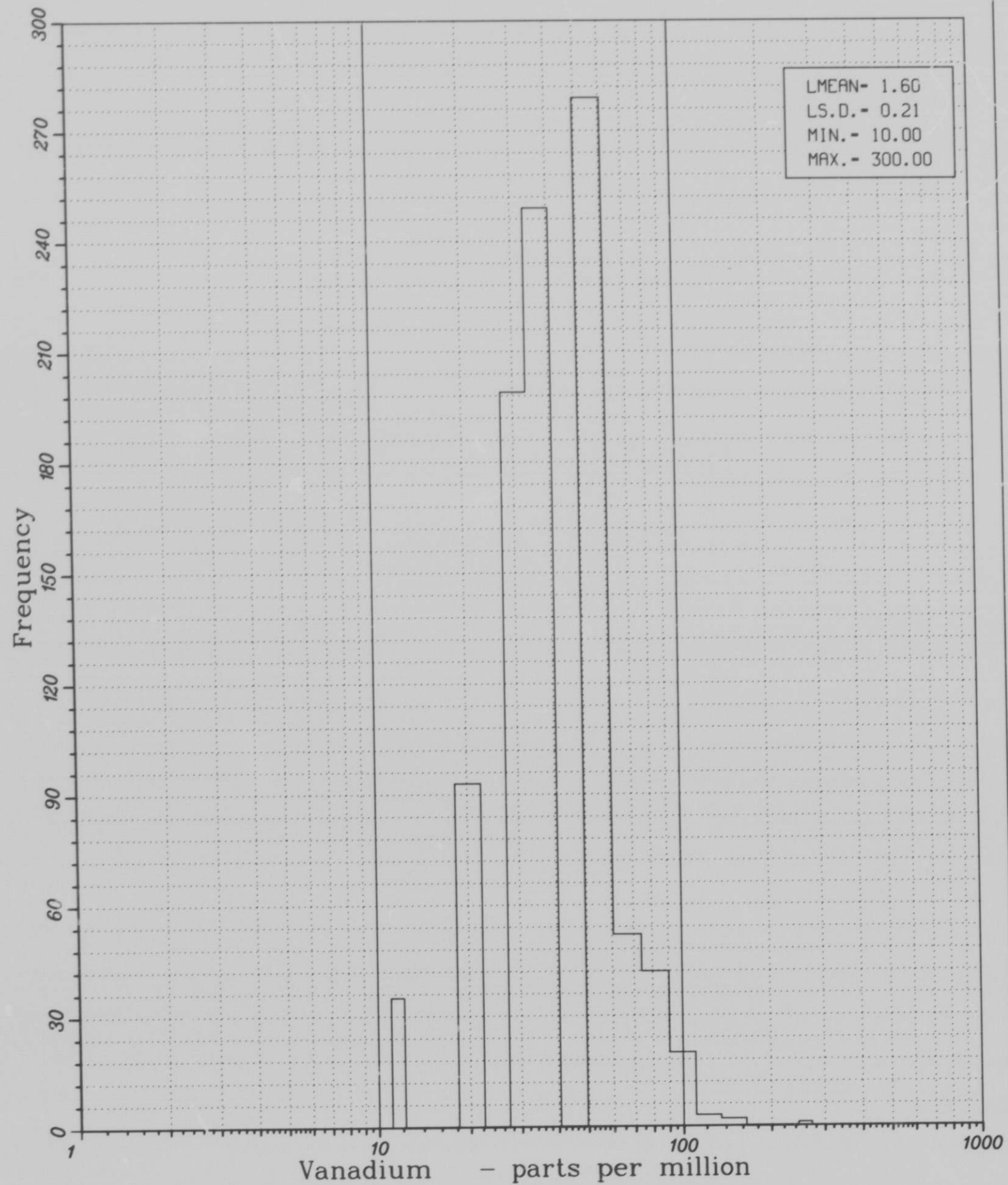
GRAND CANYON 1x2' Sheet
 Aluminum In Sediments
 985 Values Above D.L.



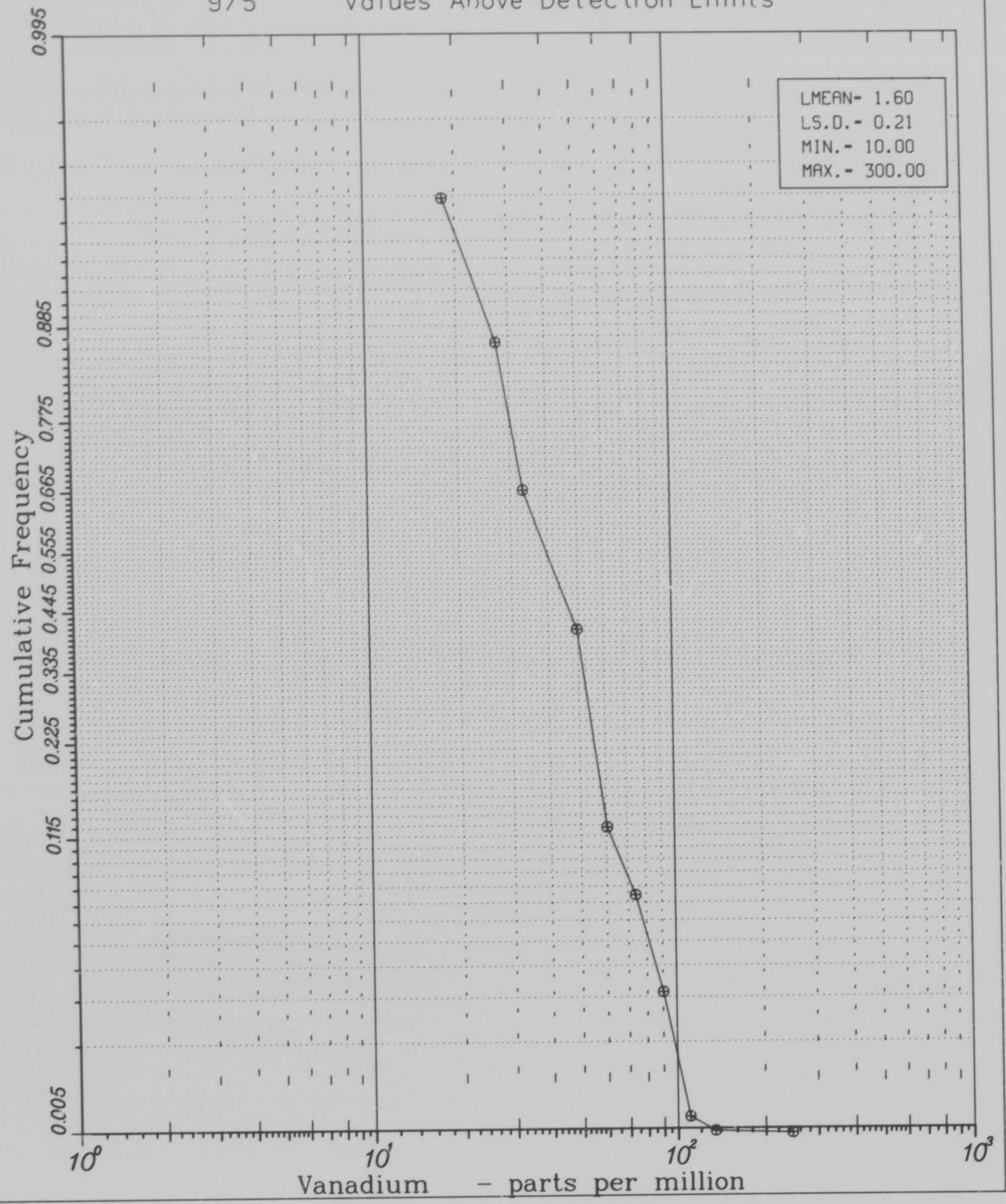
GRAND CANYON 1'x2' Sheet

Log Histogram Vanadium Values Surface Site

975 Values Above Detection Limits



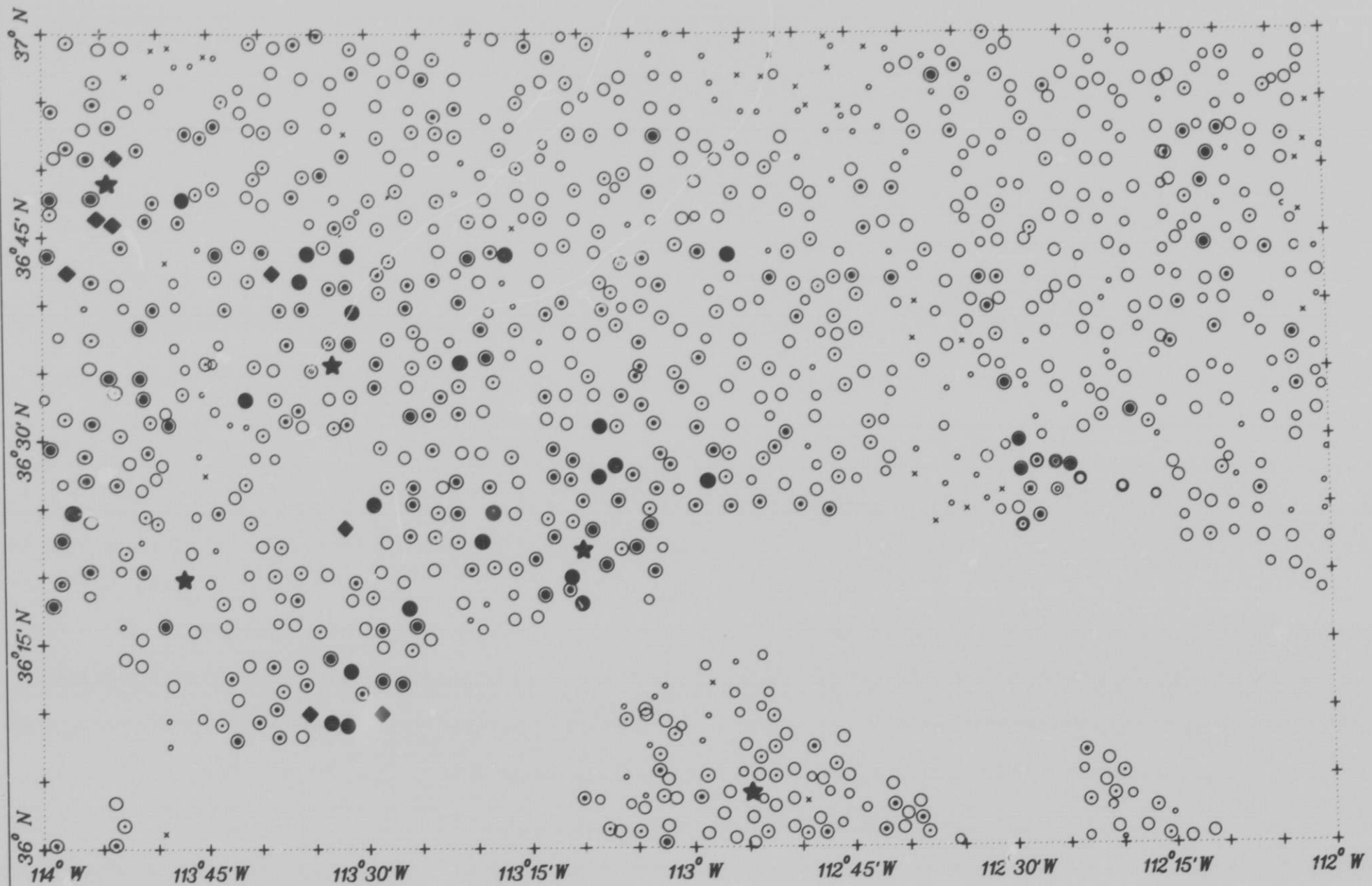
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Vanadium Values - Surface Sites
975 Values Above Detection Limits



GRAND CANYON 1x2° Sheet
 Vanadium In Sediments
 975 Values Above D.L.

Vanadium concentration - p.p.m.

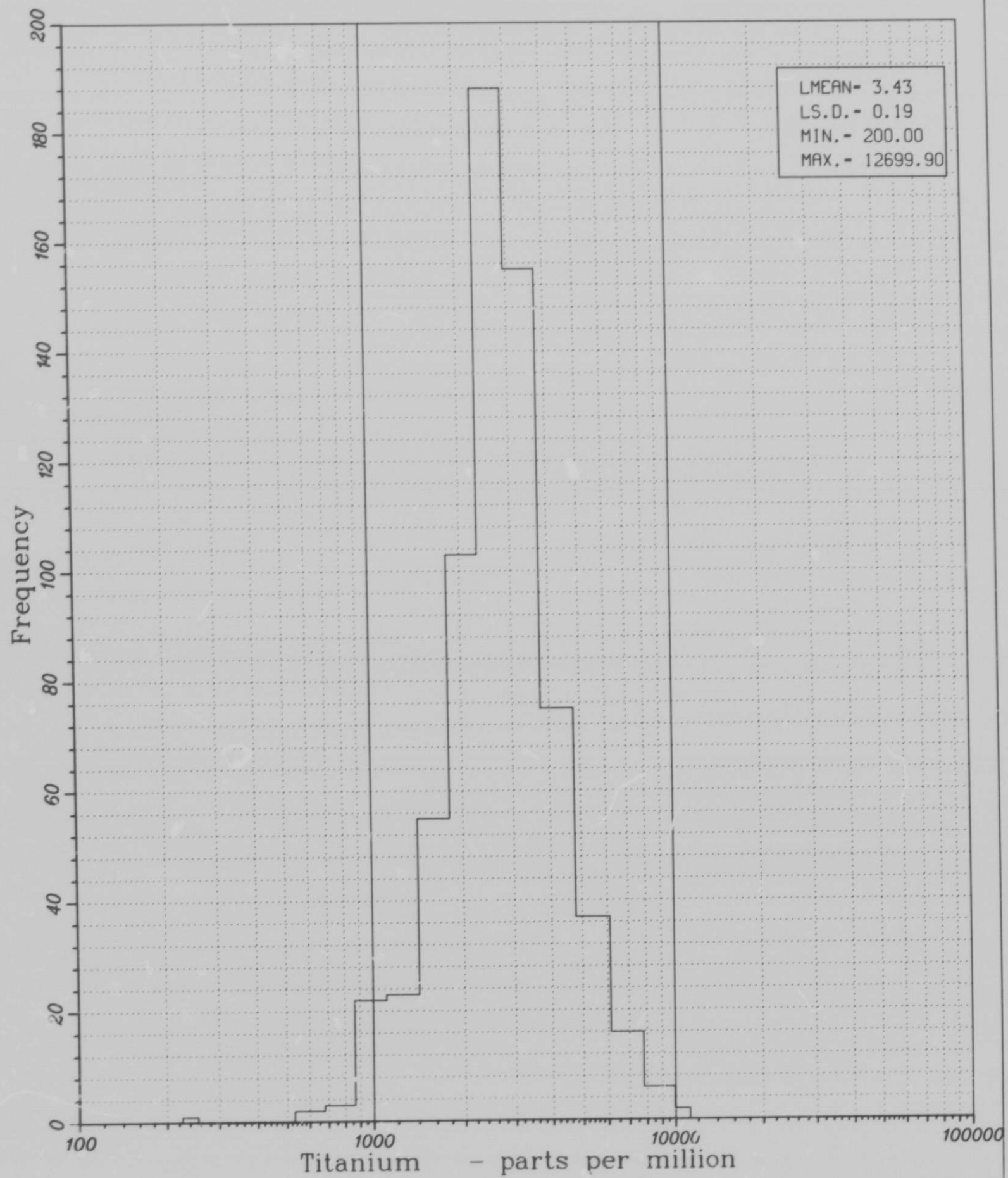
+ < 10.0	○ 20.0- 20.0	○ 30.0- 40.0	⊙ 50.0- 60.0	● 80.0- 100.0
x 10.0- 10.0	○ 20.0- 30.0	○ 40.0- 40.0	⊙ 60.0- 70.0	◆ 100.0- 120.0
• 10.0- 20.0	○ 30.0- 30.0	⊙ 40.0- 50.0	⊙ 70.0- 80.0	★ > 120.0



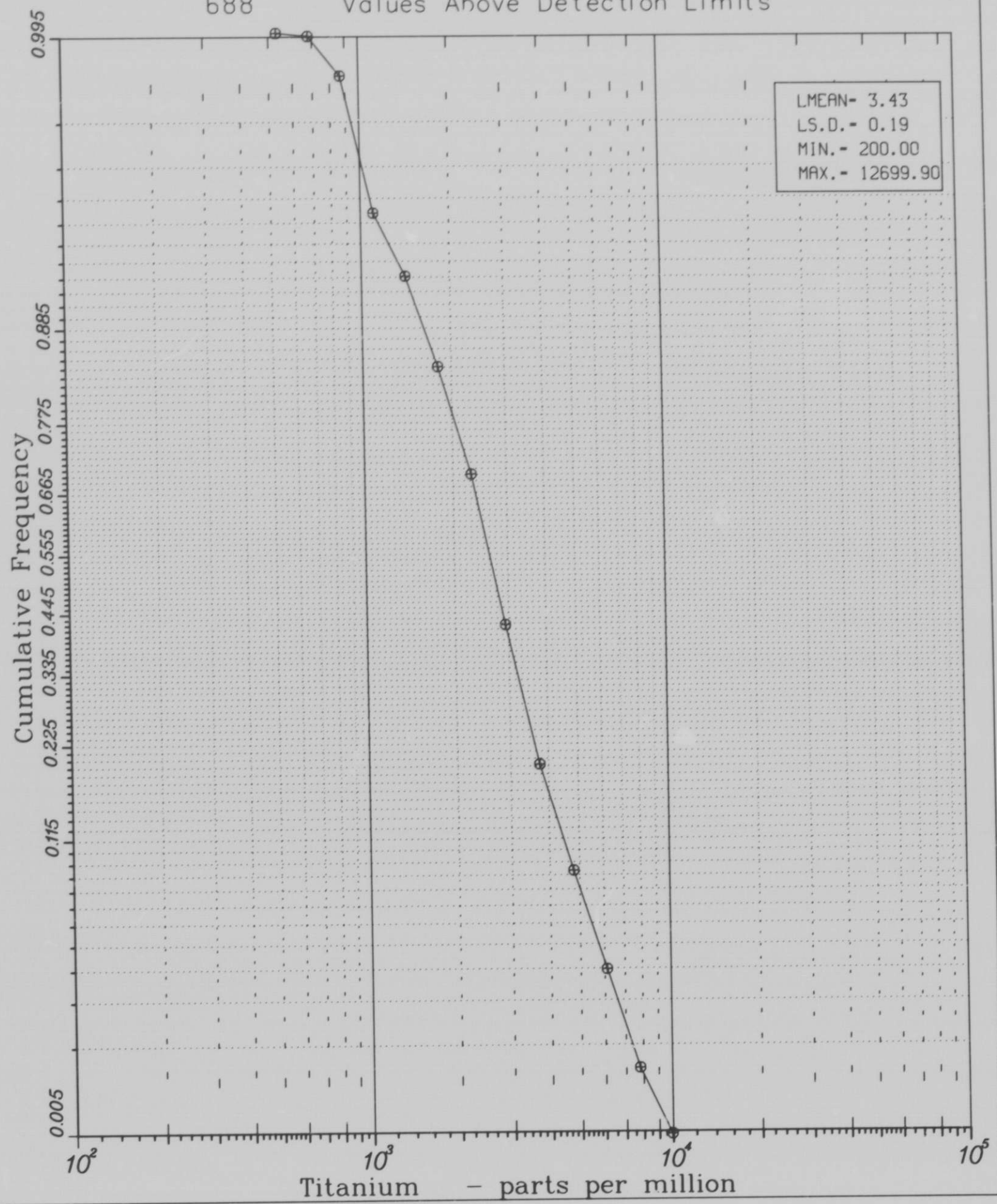
GRAND CANYON 1°x2° Sheet

Log Histogram Titanium Values Surface Site

688 Values Above Detection Limits



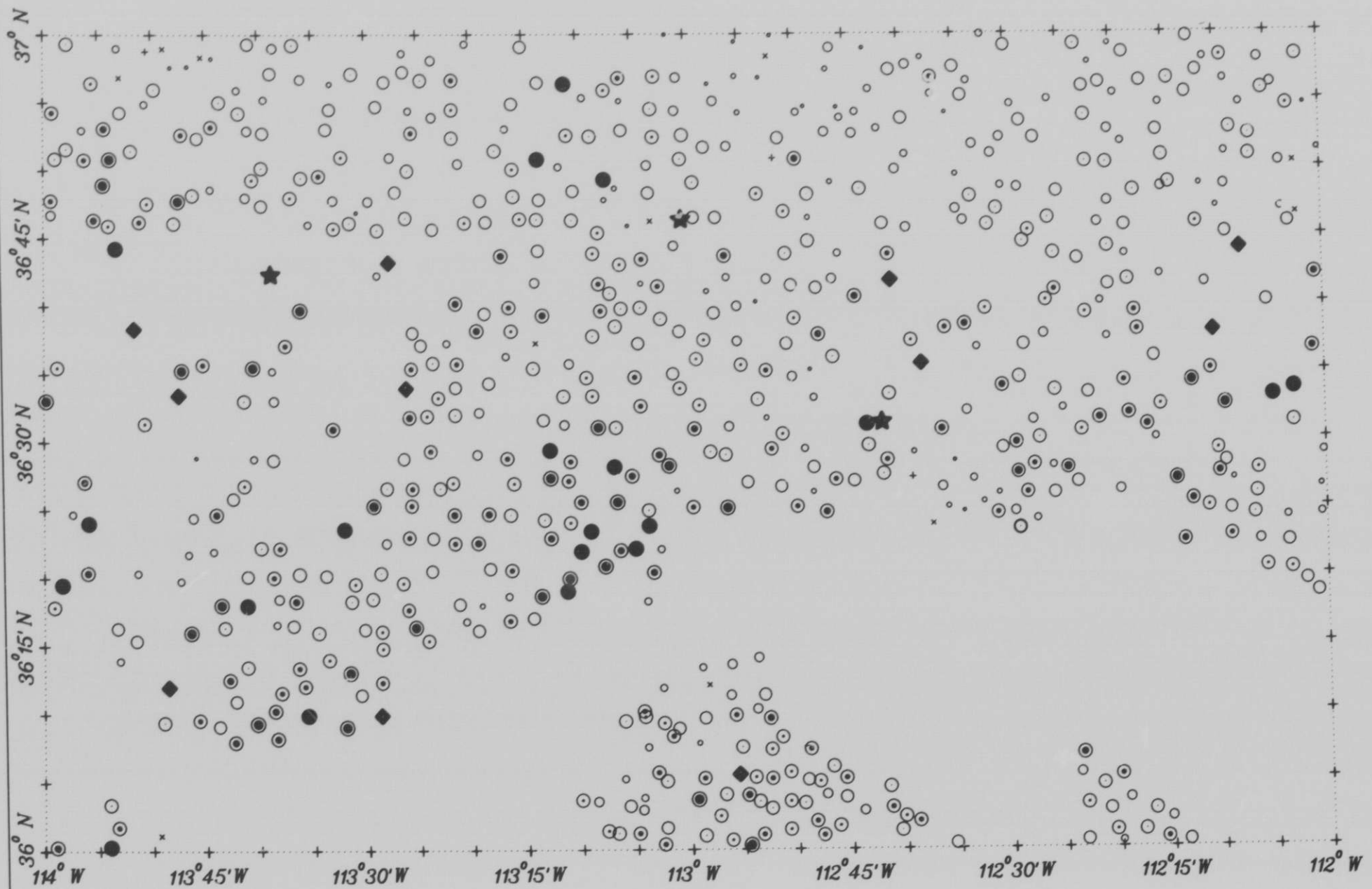
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Titanium Values - Surface Sites
688 Values Above Detection Limits



GRAND CANYON *1x2' Sheet*
Titanium In Sediments
688 Values Above D.L.

Titanium concentration - p.p.m.

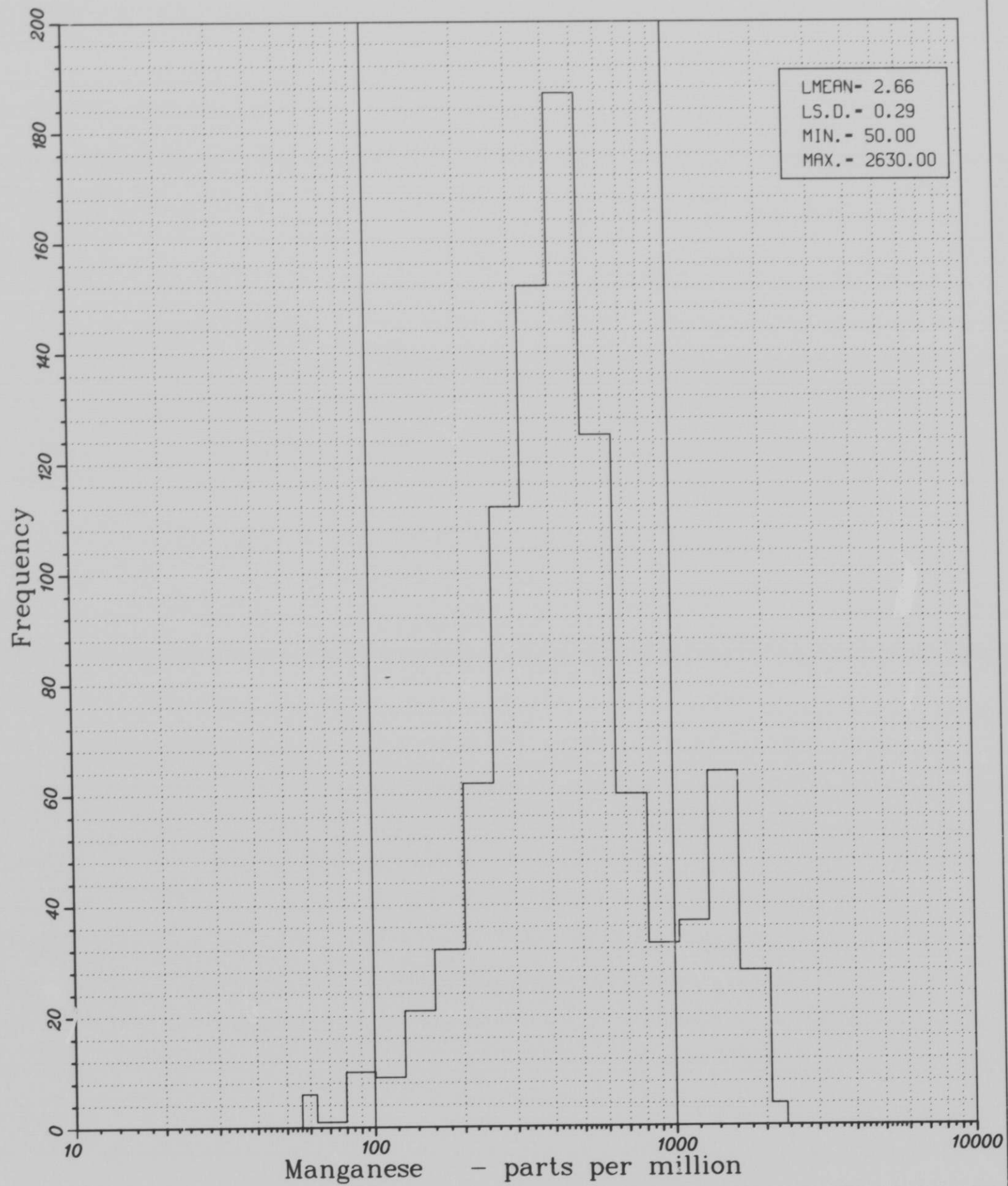
+ < 600.0	○ 1200.0- 1500.0	○ 2200.0- 2600.0	⊙ 3400.0- 4000.0	● 5400.0- 6800.0
x 600.0- 900.0	○ 1500.0- 1900.0	○ 2600.0- 3000.0	⊙ 4000.0- 4700.0	◆ 6800.0- 9000.0
• 900.0- 1200.0	○ 1900.0- 2200.0	⊙ 3000.0- 3400.0	⊙ 4700.0- 5400.0	★ > 9000.0



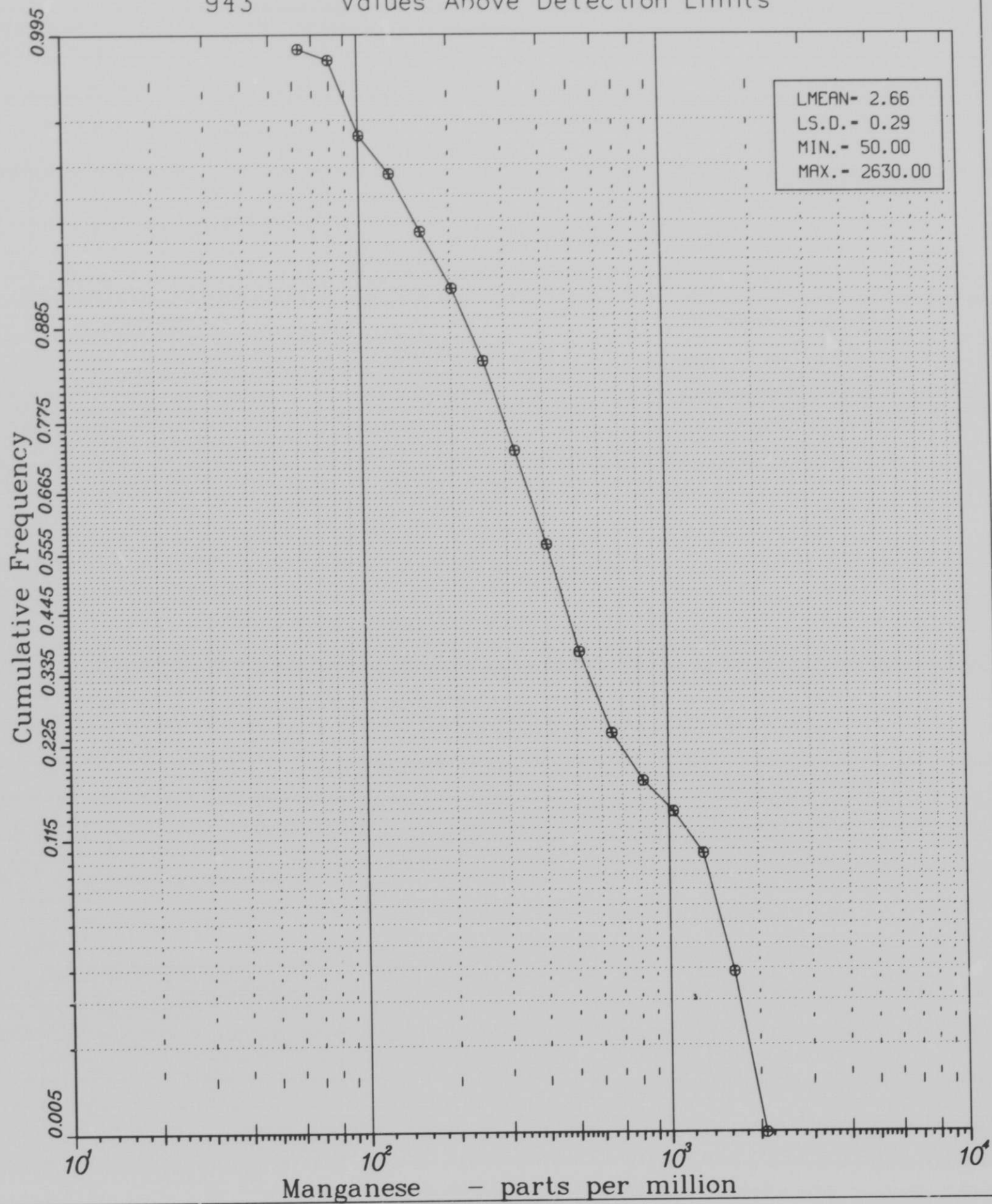
GRAND CANYON 1'x2' Sheet

Log Histogram Manganese Values Surface Site

943 Values Above Detection Limits



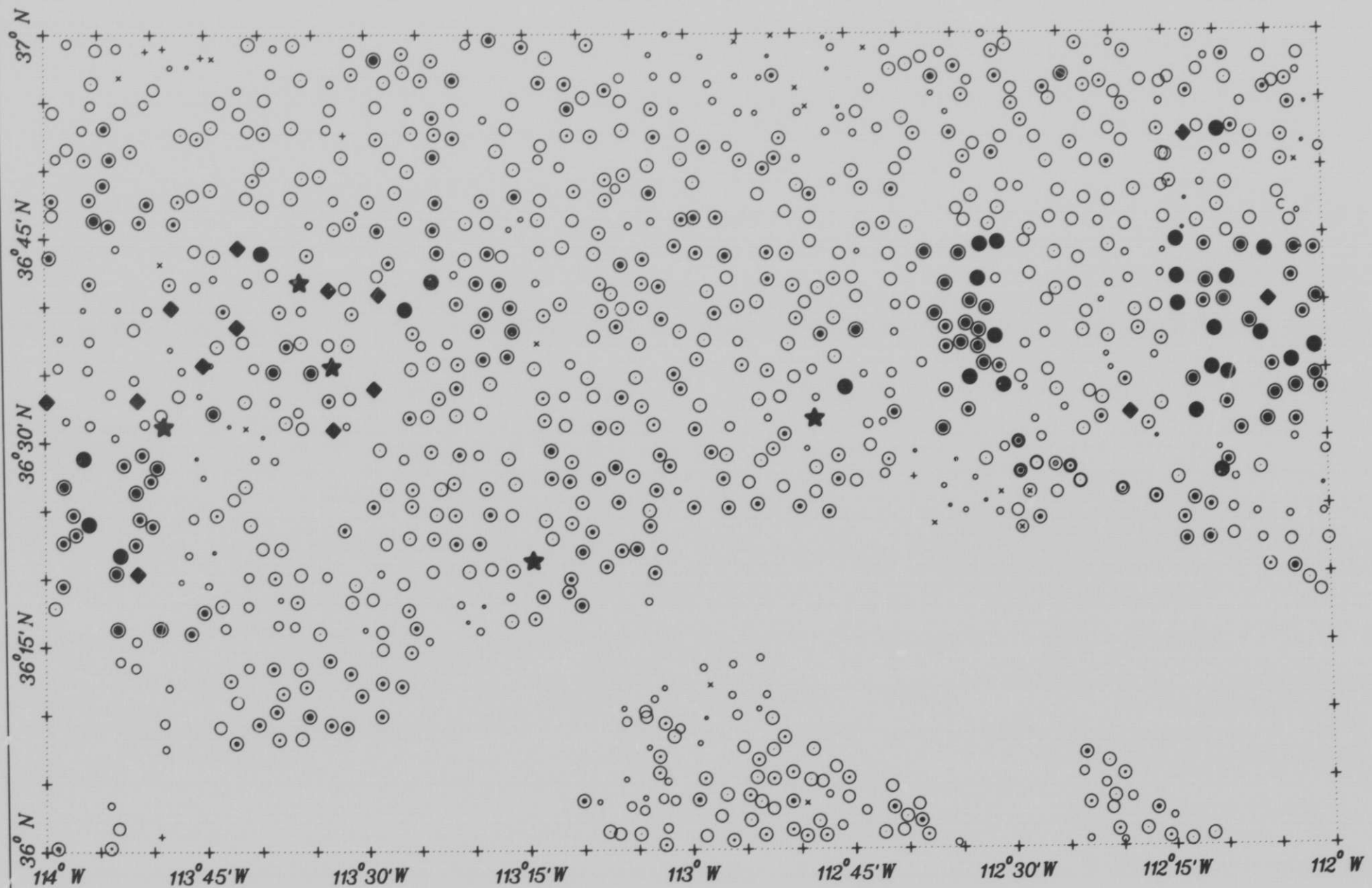
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Manganese Values - Surface Sites
943 Values Above Detection Limits



GRAND CANYON *1x2° Sheet*
Manganese In Sediments
943 Values Above D.L.

Manganese concentration - p.p.m.

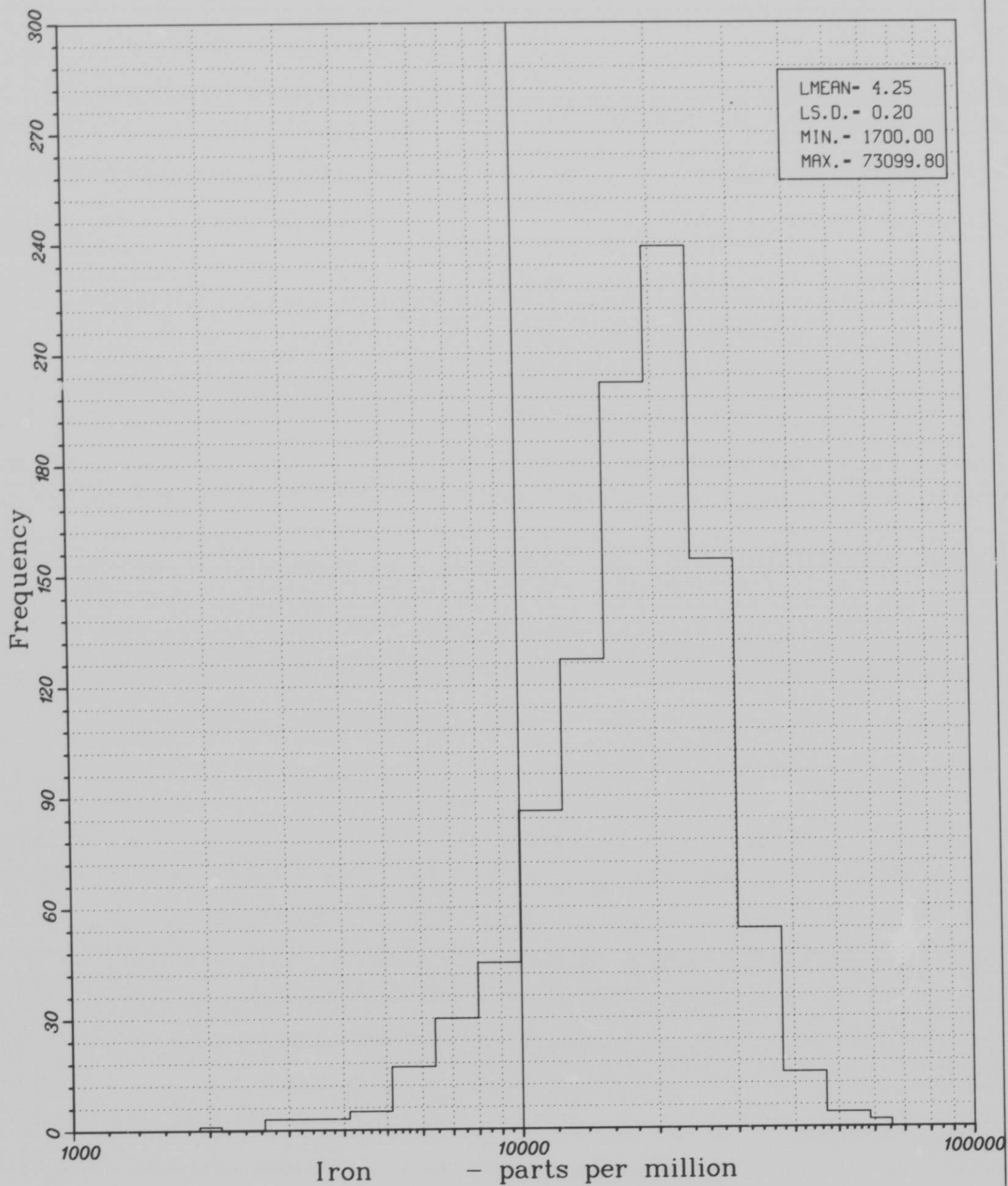
+ < 60.0	○ 160.0- 210.0	○ 330.0- 400.0	⊙ 580.0- 880.0	● 1540.0- 1820.0
x 60.0- 110.0	○ 210.0- 260.0	○ 400.0- 480.0	⊙ 880.0- 1360.0	◆ 1820.0- 2010.0
• 110.0- 160.0	○ 260.0- 330.0	⊙ 480.0- 580.0	⊙ 1360.0- 1540.0	★ > 2010.0



GRAND CANYON 1'x2' Sheet

Log Histogram Iron Values Surface Site

987 Values Above Detection Limits

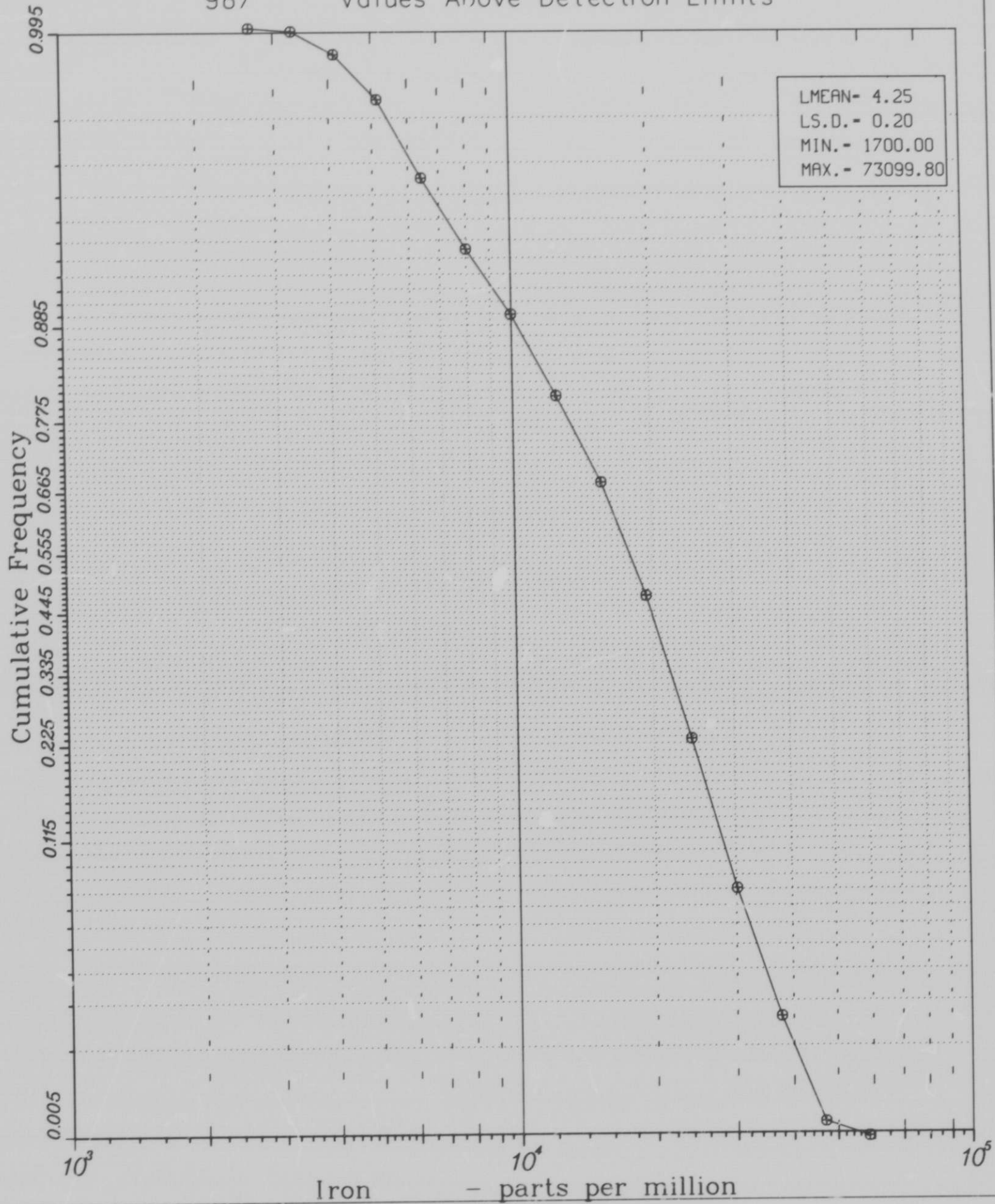


GRAND CANYON 1'x2' Sheet

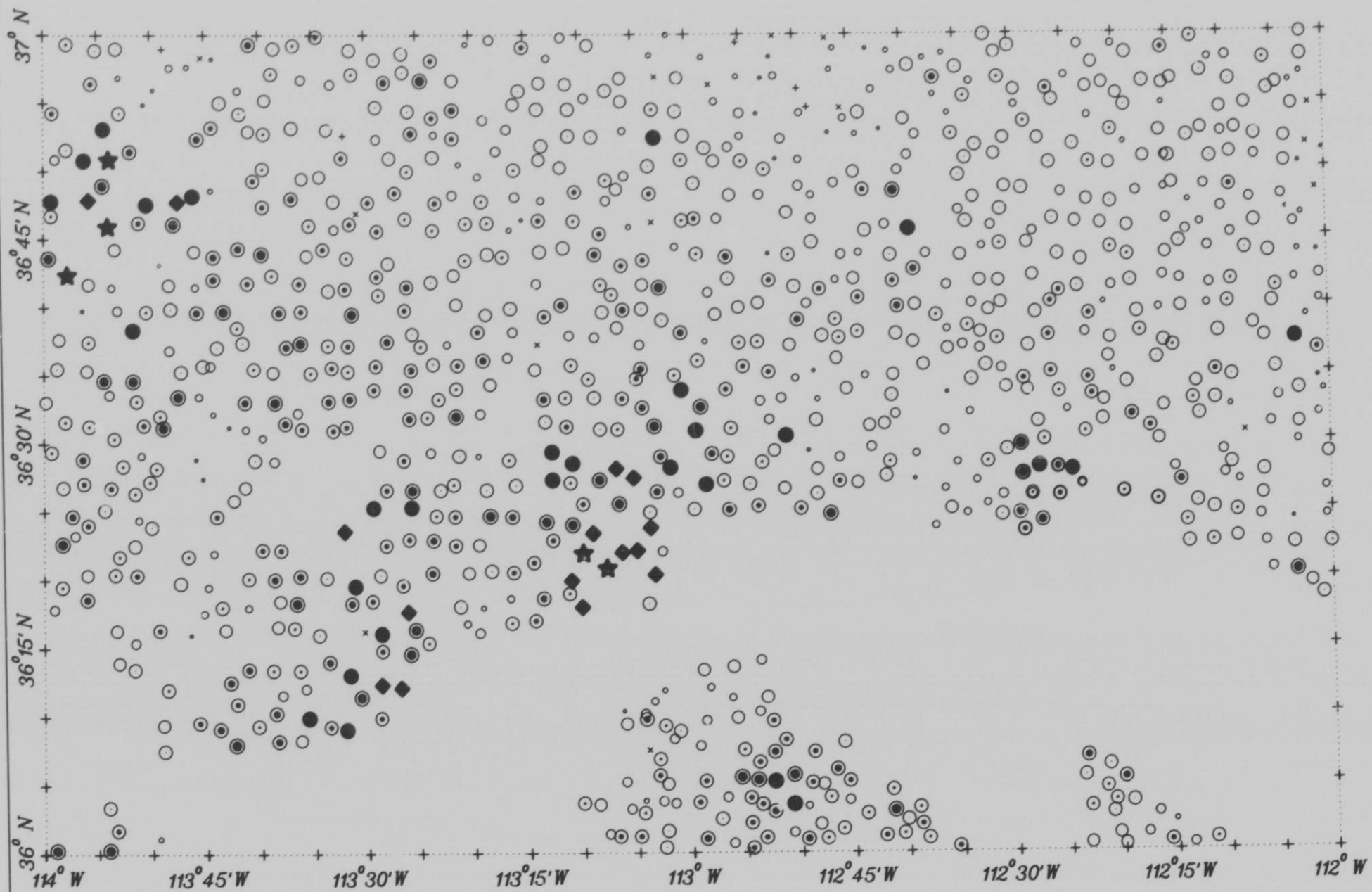
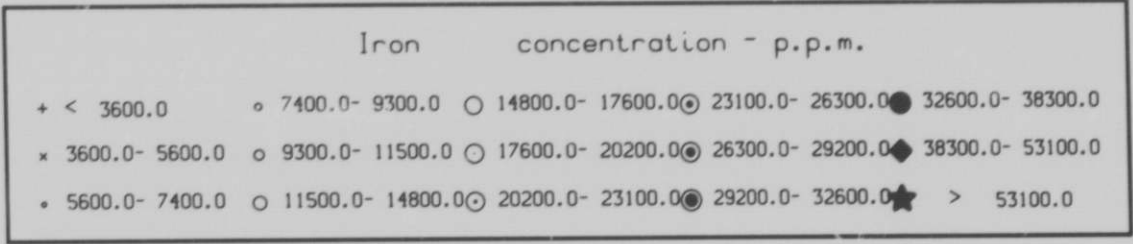
Log Cumulative Frequency Plot

Iron Values - Surface Sites

987 Values Above Detection Limits



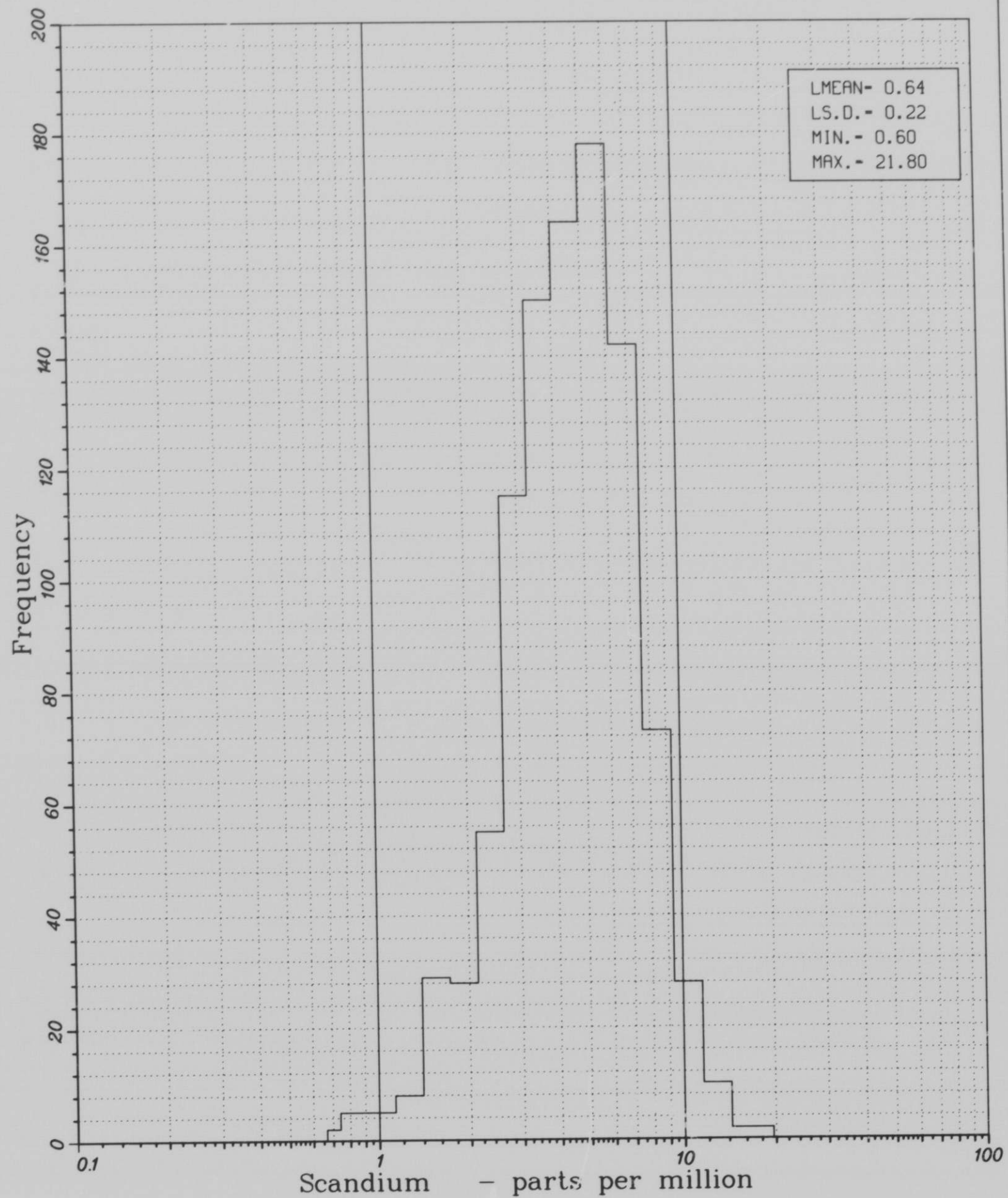
GRAND CANYON 1'x2' Sheet
 Iron In Sediments
 987 Values Above D.L.



GRAND CANYON 1'x2' Sheet

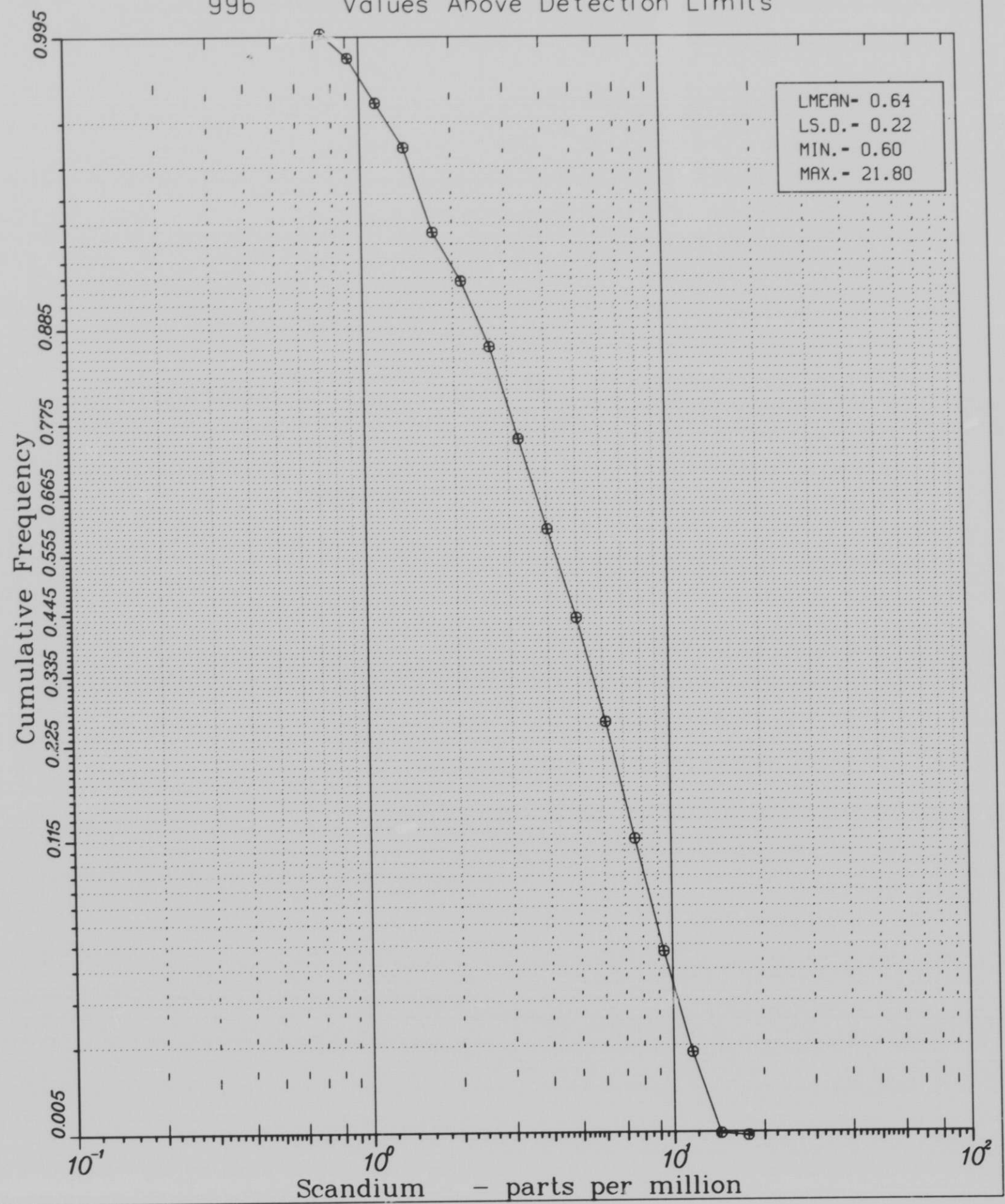
Log Histogram Scandium Values Surface Site

996 Values Above Detection Limits



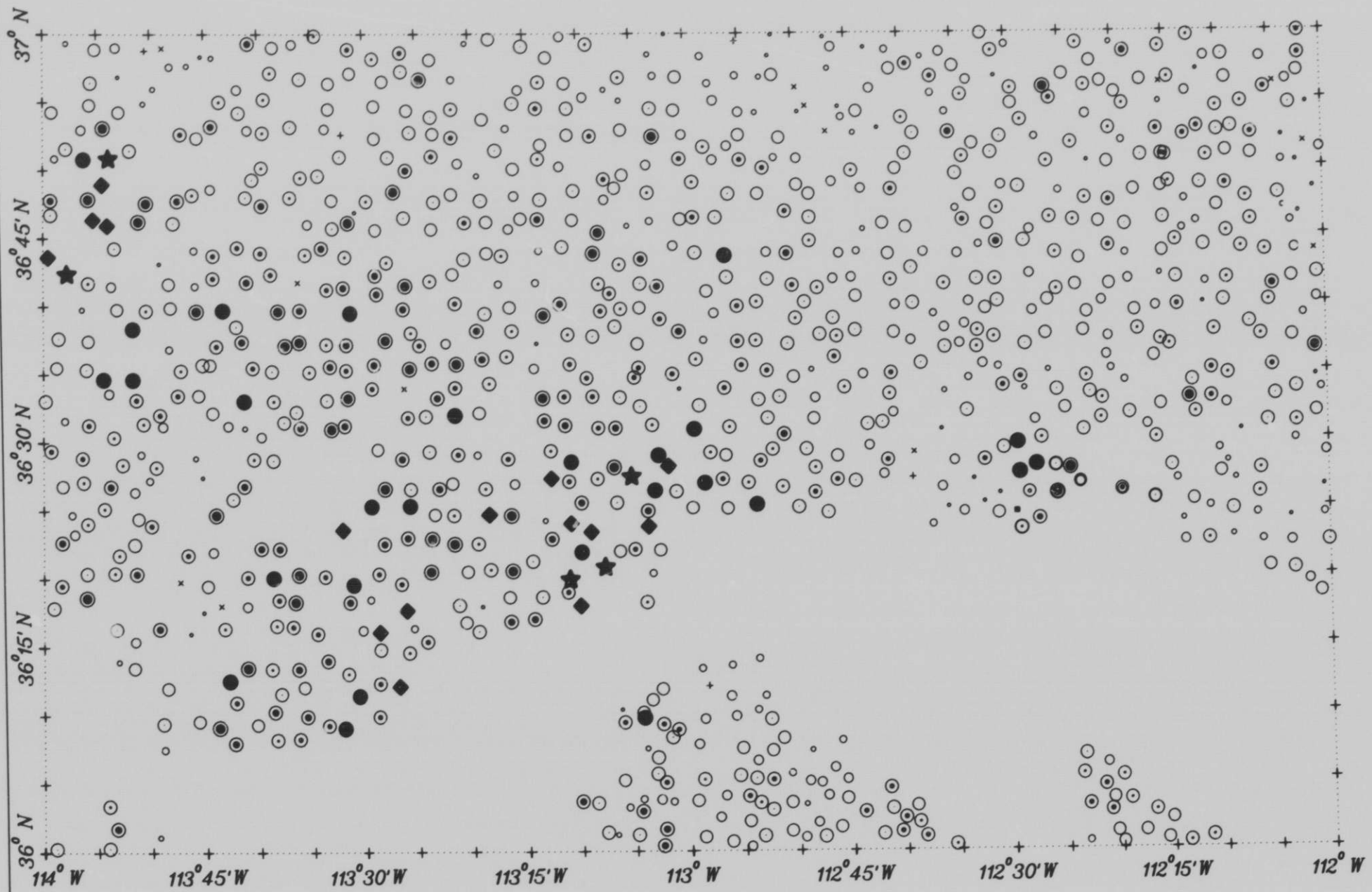
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Scandium Values - Surface Sites

996 Values Above Detection Limits



GRAND CANYON *1x2' Sheet*
Scandium In Sediments
996 **Values Above D.L.**

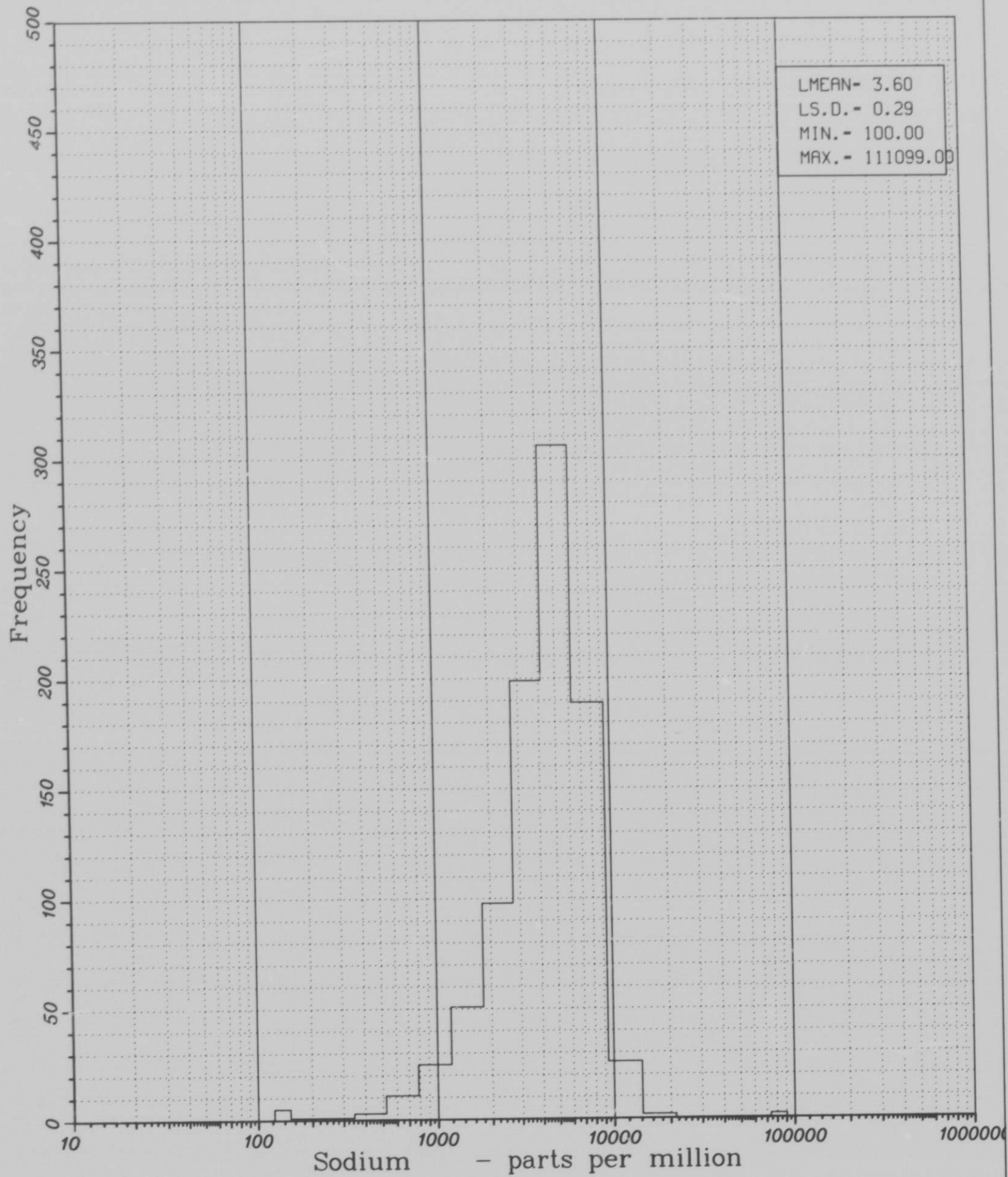
Scandium concentration - p.p.				
+ < 0.8	o 1.8- 2.3	○ 3.4- 4.2	⊙ 6.0- 7.0	● 9.0- 11.0
x 0.8- 1.3	o 2.3- 2.8	○ 4.2- 5.0	⊙ 7.0- 8.0	◆ 11.0- 13.9
• 1.3- 1.8	○ 2.8- 3.4	○ 5.0- 6.0	⊙ 8.0- 9.0	★ > 13.9



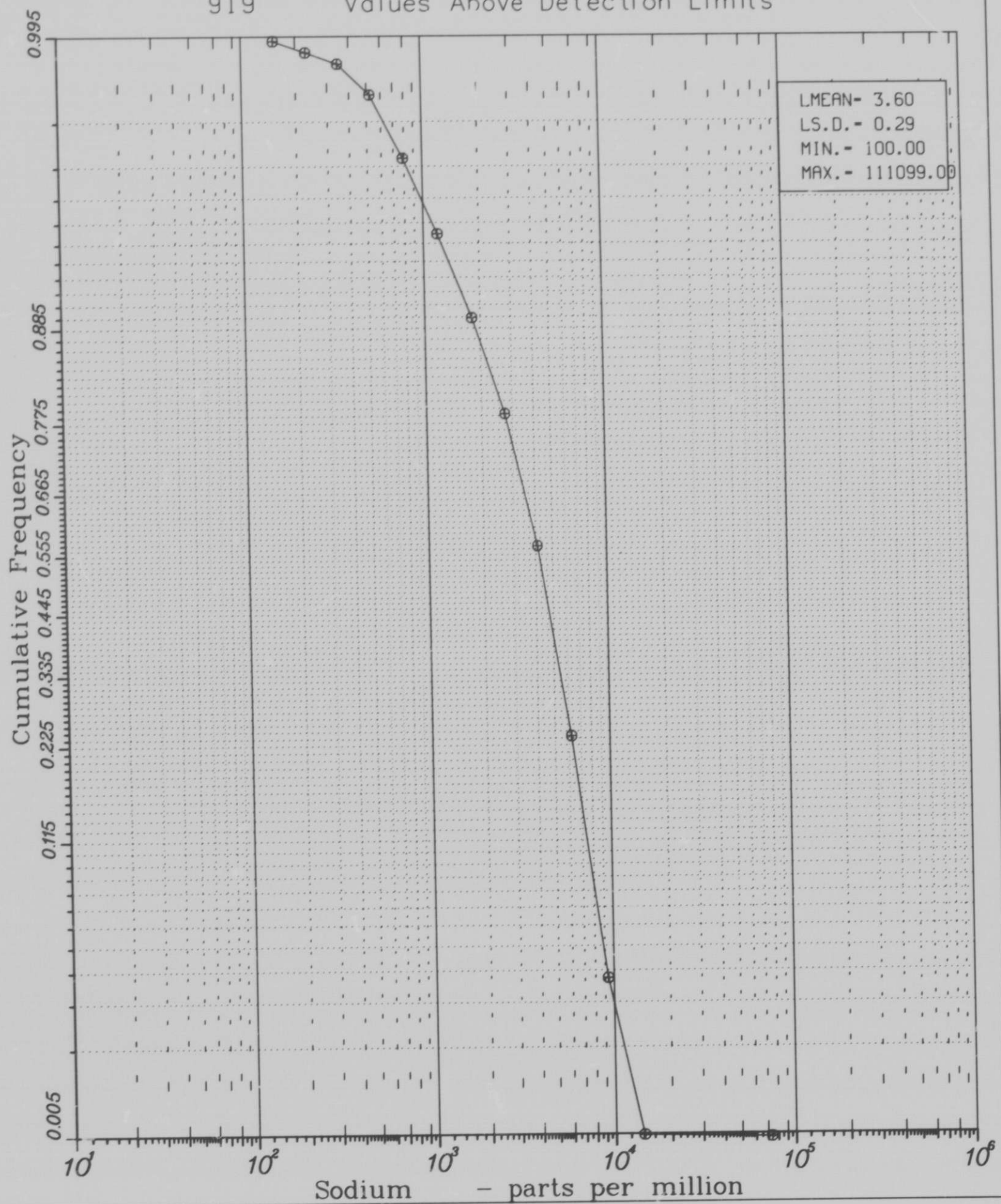
GRAND CANYON 1'x2' Sheet

Log Histogram Sodium Values Surface Site

919 Values Above Detection Limits

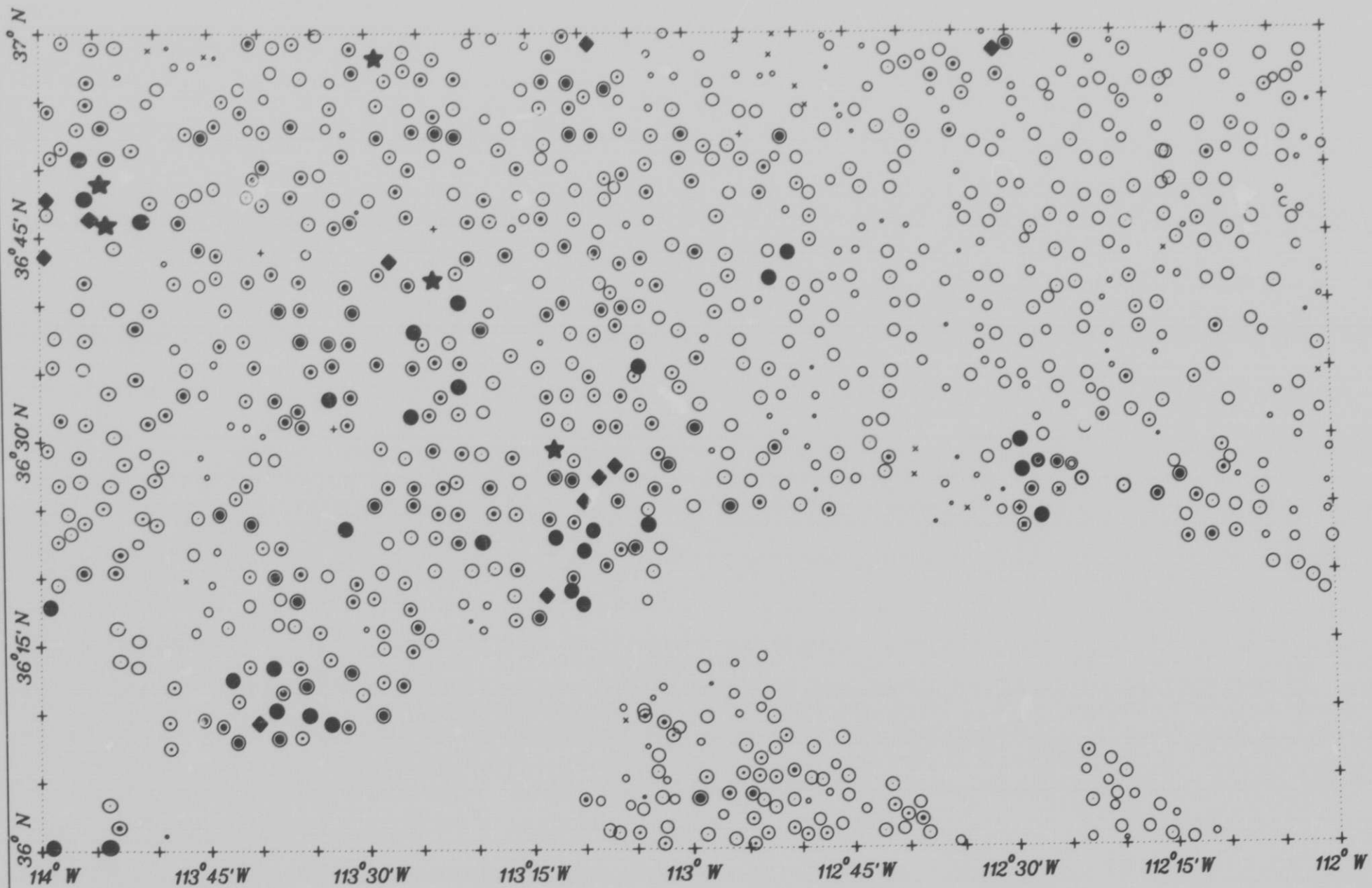


GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Sodium Values - Surface Sites
919 Values Above Detection Limits



GRAND CANYON *1°x2° Sheet*
Sodium **In Sediments**
919 **Values Above D.L.**

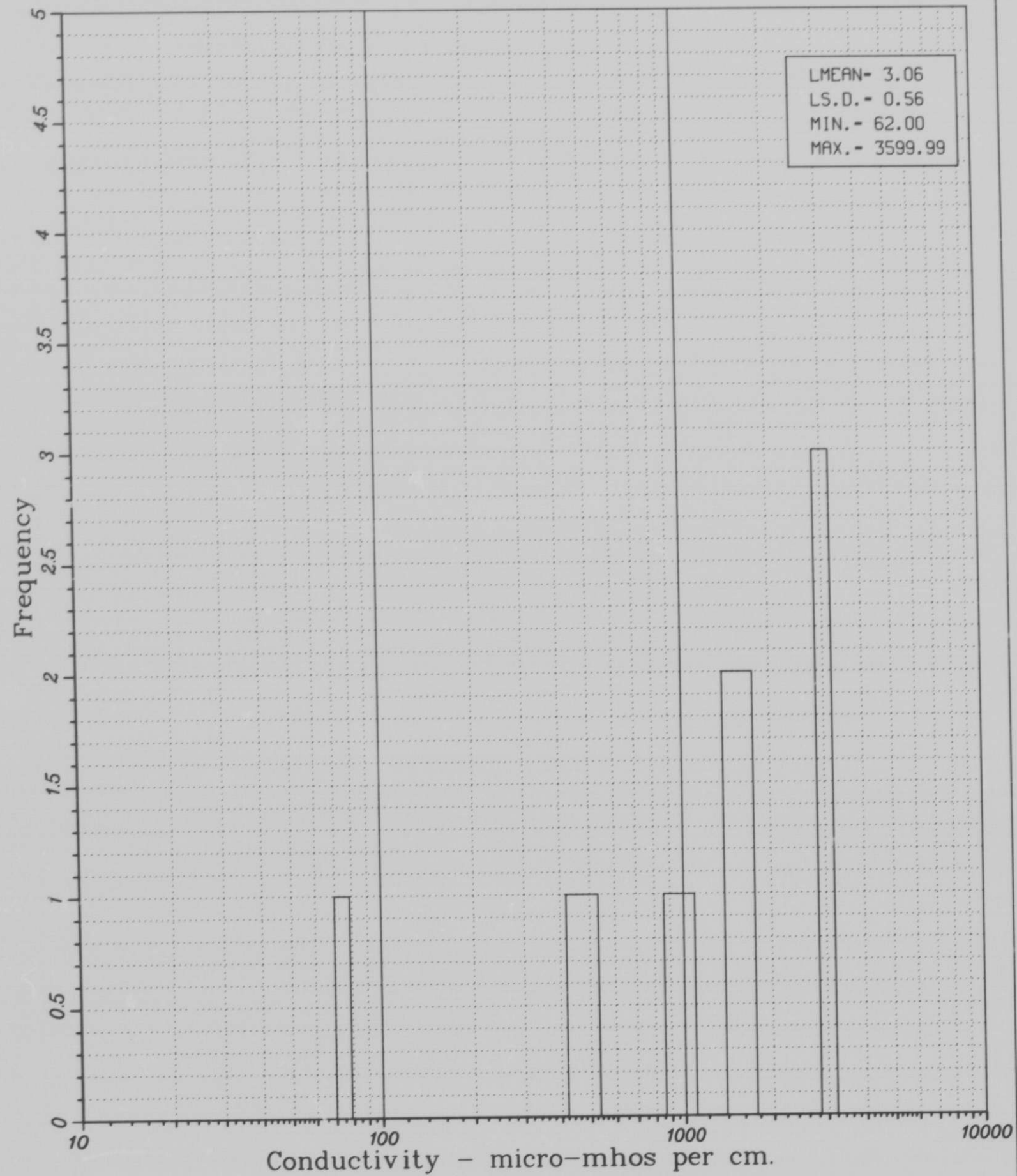
Sodium concentration - p.p.m.					
+ < 100.0	○ 1100.0- 1600.0	○ 3200.0- 4000.0	⊙ 5900.0- 6900.0	● 8500.0- 10100.0	
x 100.0- 700.0	○ 1600.0- 2400.0	○ 4000.0- 5000.0	⊙ 6900.0- 7700.0	◆ 10100.0- 11200.0	
• 700.0- 1100.0	○ 2400.0- 3200.0	⊙ 5000.0- 5900.0	⊙ 7700.0- 8500.0	★ > 11200.0	



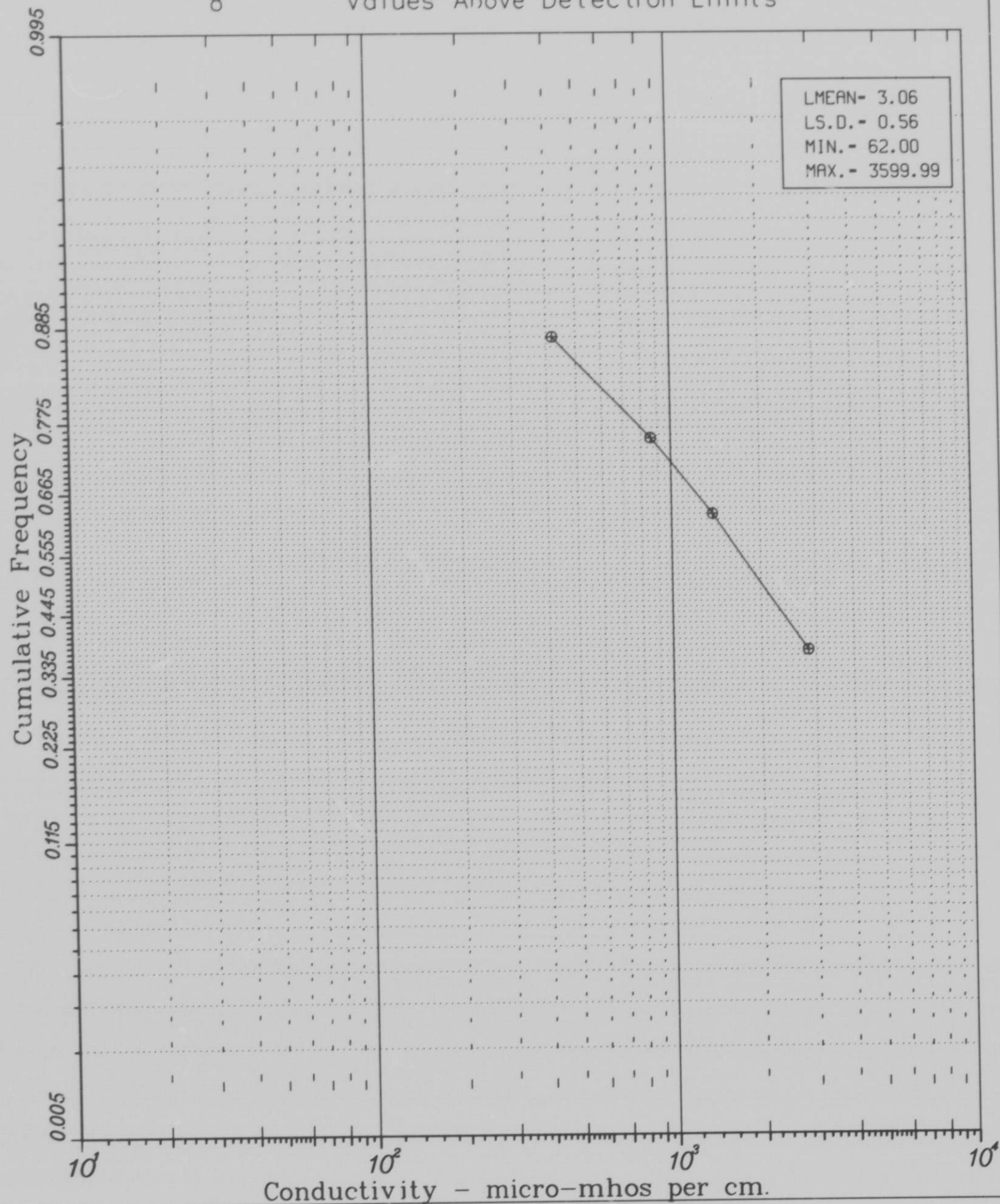
GRAND CANYON 1'x2' Sheet

Log Histogram Conductivity Values Surface Site

8 Values Above Detection Limits



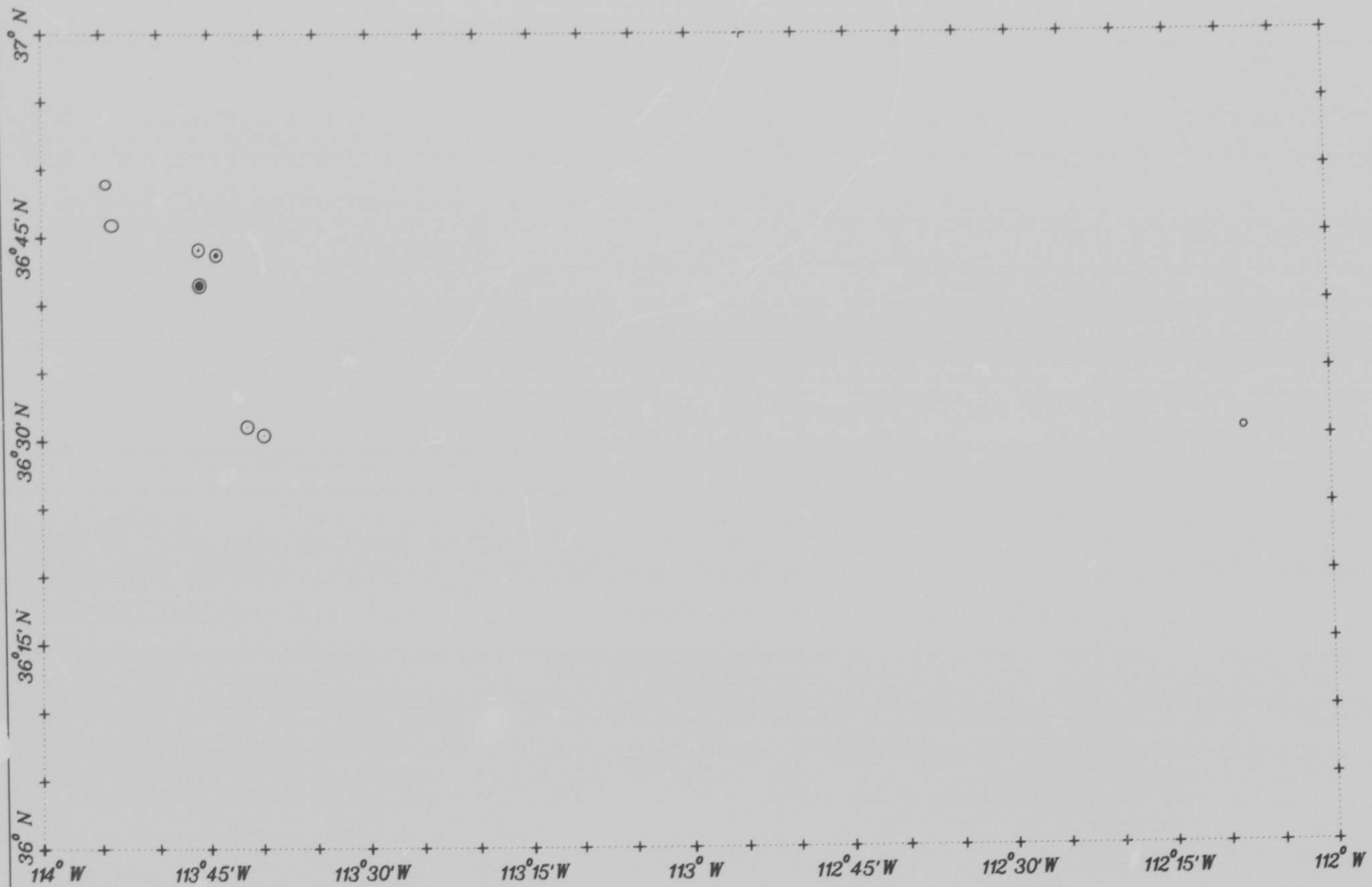
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Conductivity Values - Surface Sites
8 Values Above Detection Limits



GRAND CANYON *1x2° Sheet*
Conductivity In Surface Water
8 **Values Above D.L.**

Conductivity - micro-mhos per cm.

+ < 62.0	o 62.0- 62.0	○ 520.0- 900.0	⊙ 3400.0- 3500.0	● 3600.0- 3600.0
x 62.0- 62.0	o 62.0- 62.0	○ 900.0- 1500.0	⊙ 3500.0- 3500.0	◆ 3600.0- 3600.0
o 62.0- 62.0	○ 62.0- 520.0	⊙ 1500.0- 3400.0	⊙ 3500.0- 3600.0	★ > 3600.0

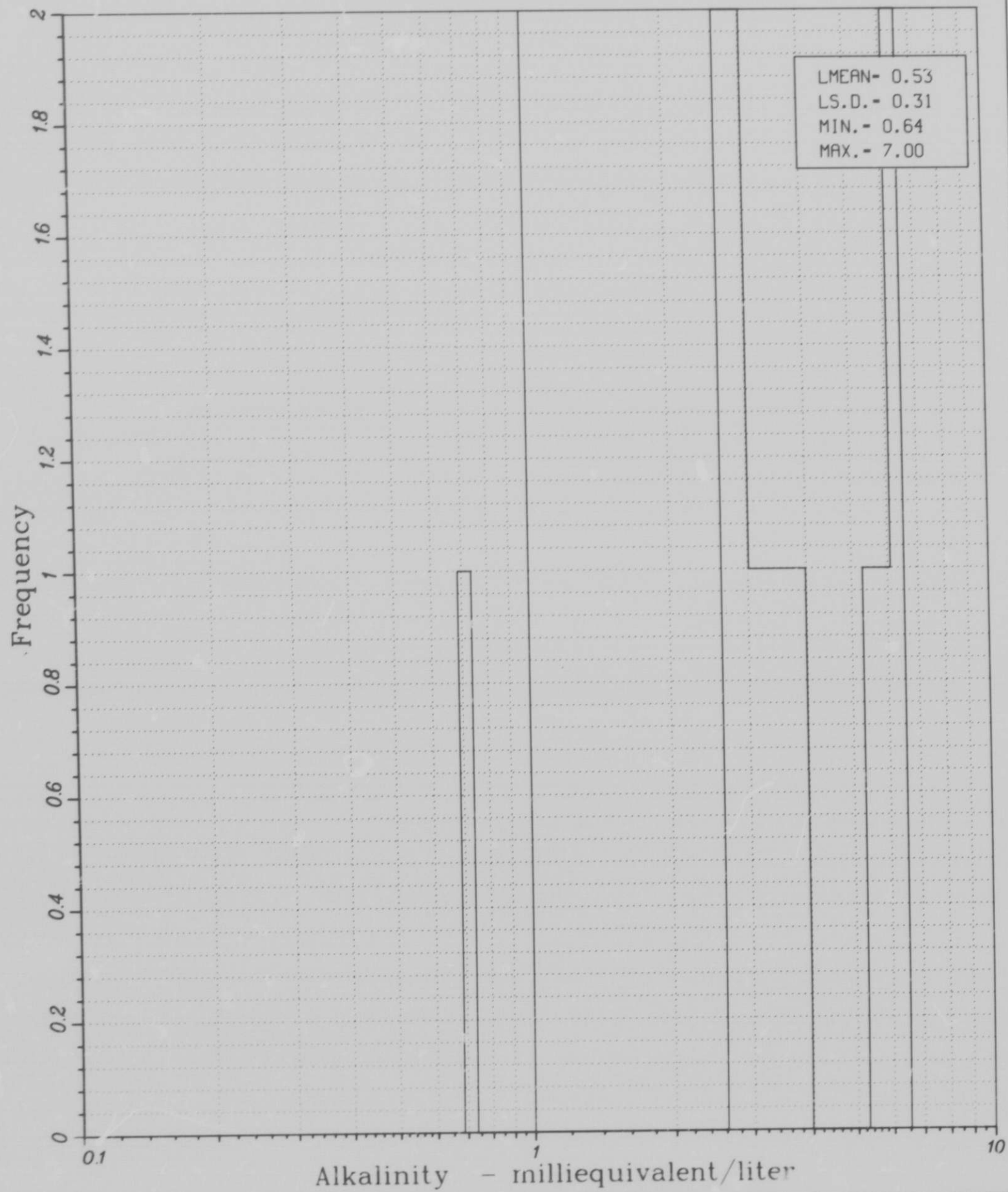


GRAND CANYON 1'x2' Sheet

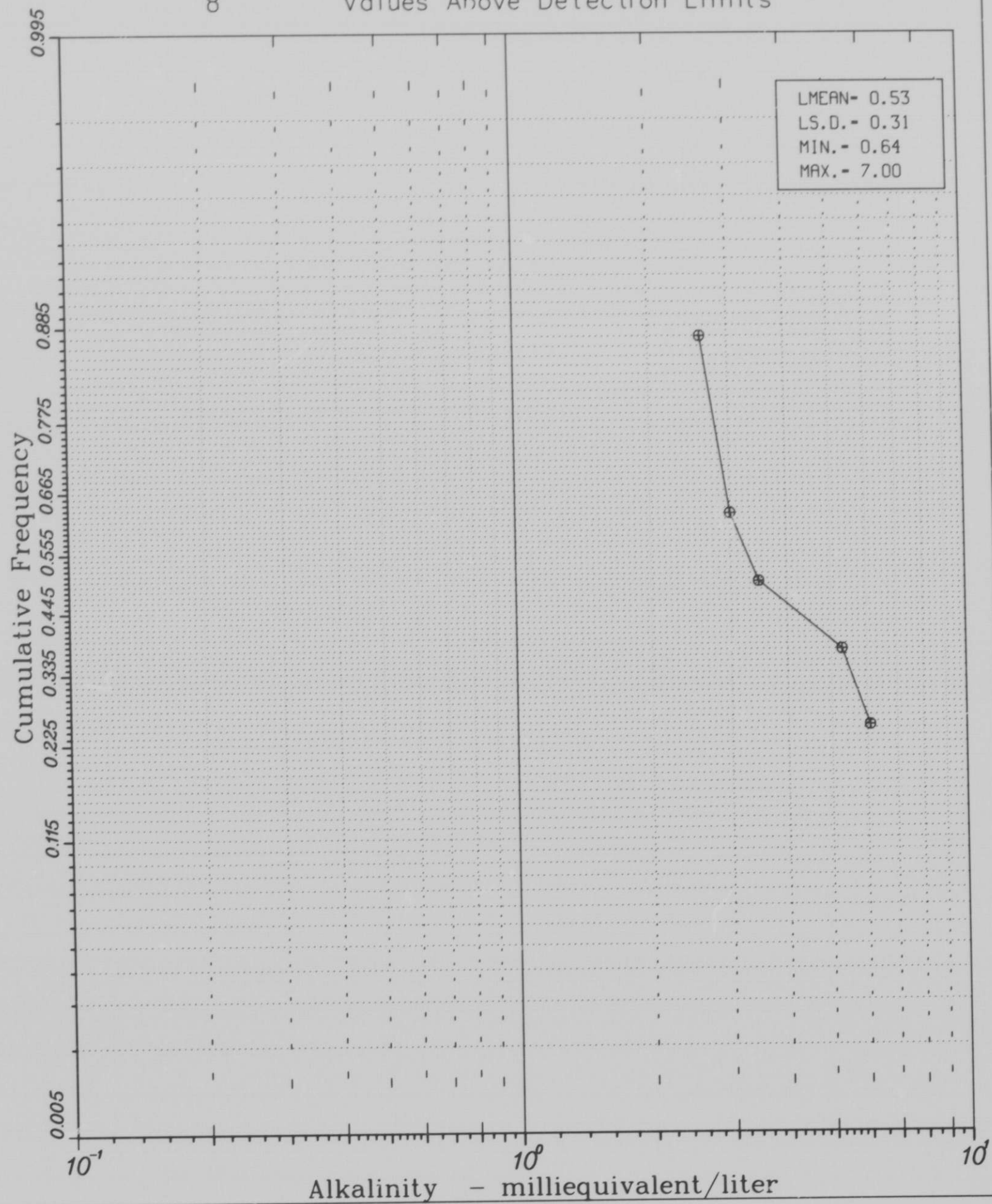
Log Histogram Alkalinity Values Surface Site

8

Values Above Detection Limits



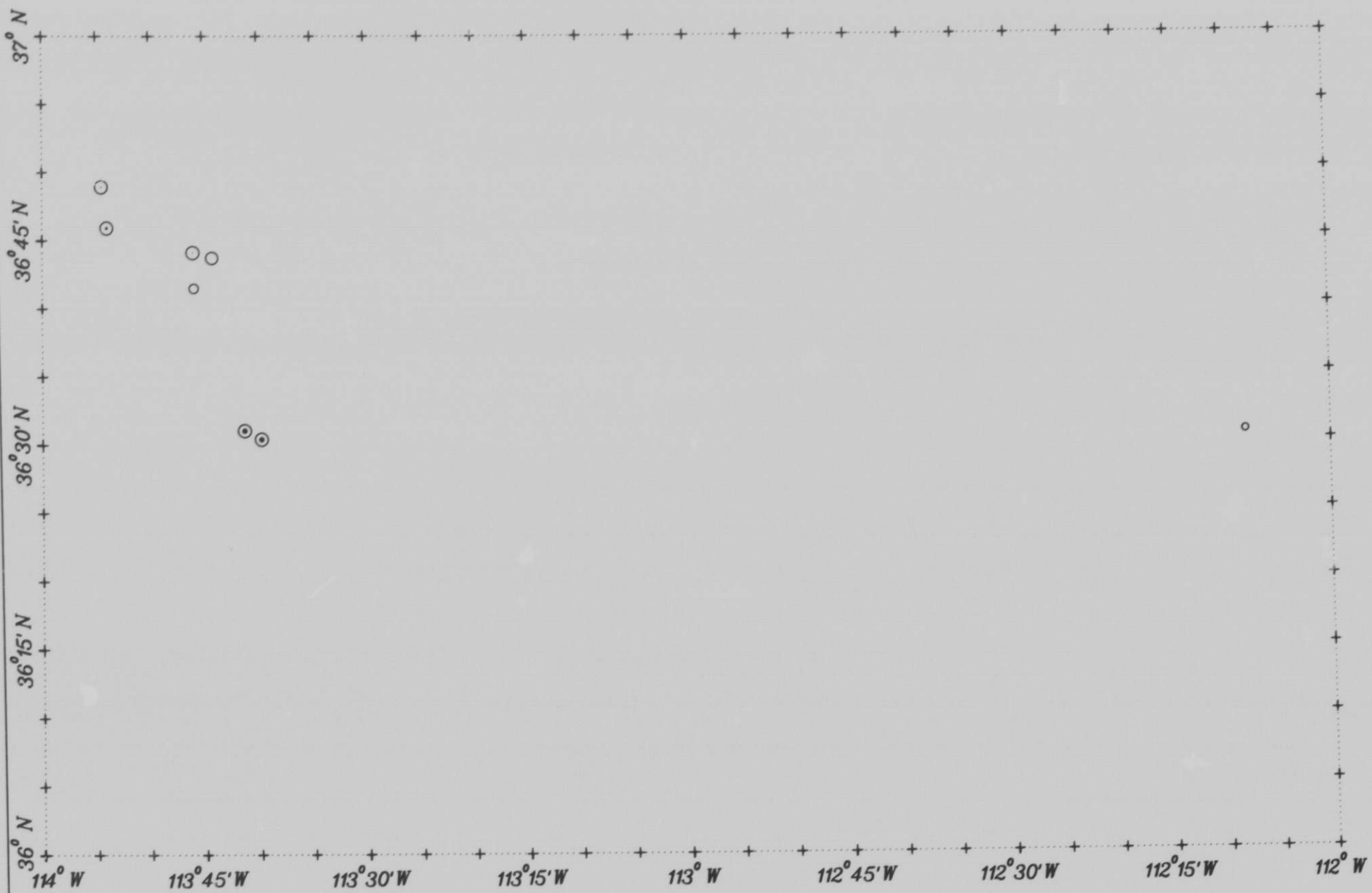
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Alkalinity Values - Surface Sites
8 Values Above Detection Limits



GRAND CANYON 1x2° Sheet
Alkalinity In Surface Water
8 Values Above D.L.

Alkalinity - milliequivalent/liter

+ < 0.64	o 0.64- 0.64	○ 2.70- 3.00	⊙ 5.70- 7.00	● 7.00- 7.00
x 0.64- 0.64	o 0.64- 0.64	○ 3.00- 3.60	⊙ 7.00- 7.00	◆ 7.00- 7.00
• 0.64- 0.64	○ 0.64- 2.70	⊙ 3.60- 5.70	⊙ 7.00- 7.00	★ > 7.00

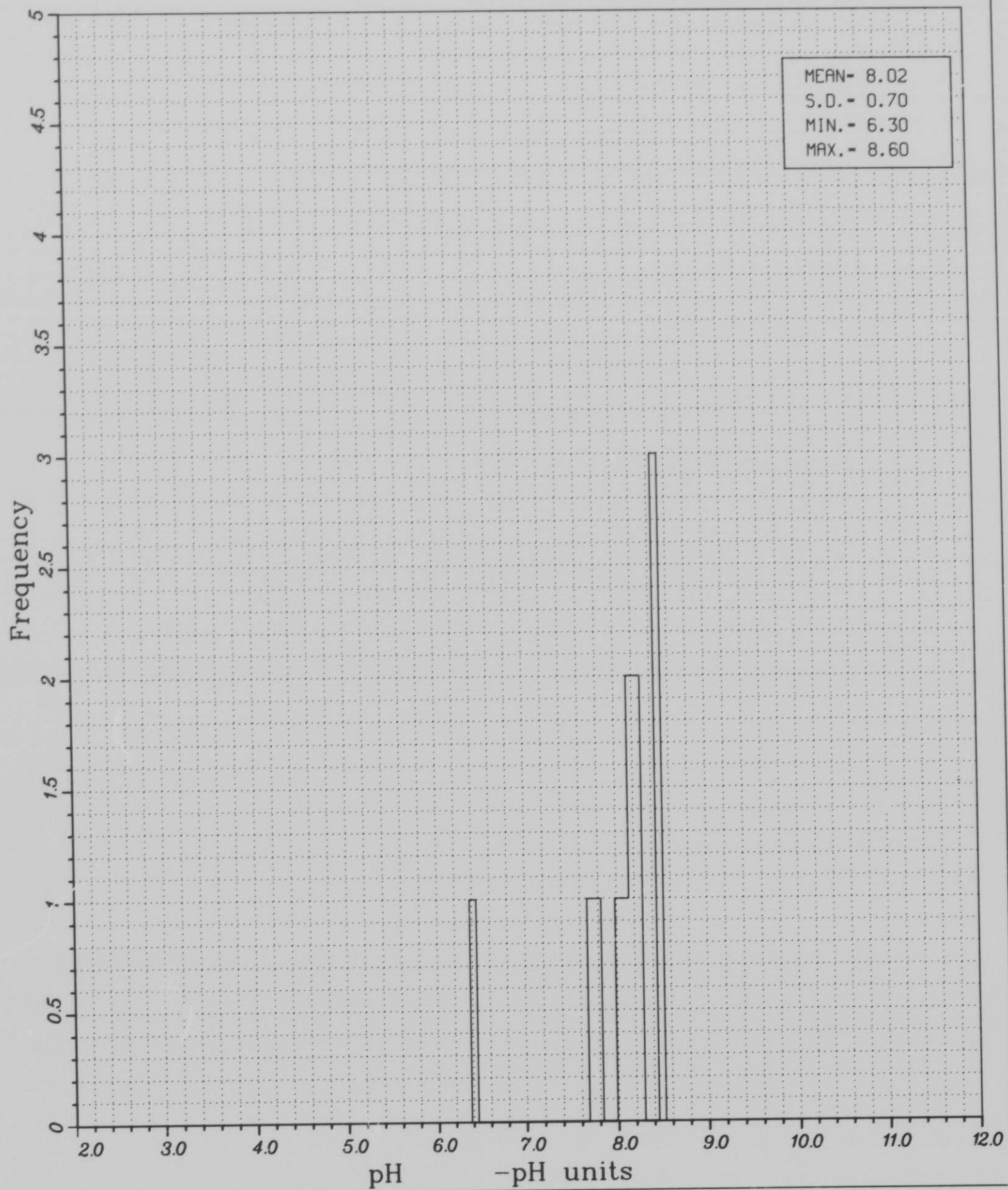


GRAND CANYON 1'x2' Sheet

Histogram pH Values - Surface Sites

8

Values Above Detection Limits



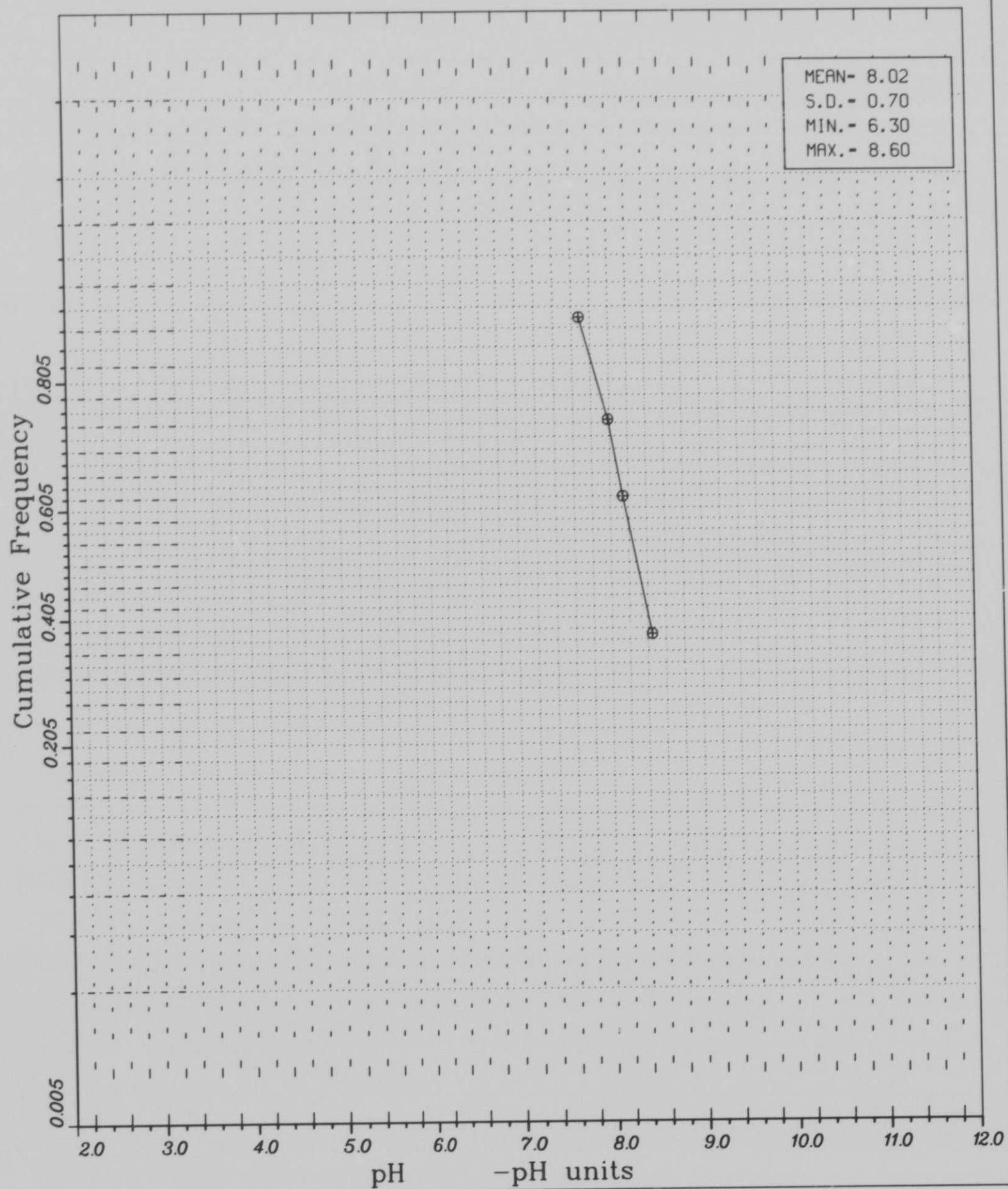
GRAND CANYON 1'x2' Sheet

Cumulative Frequency Plot

pH Values - Surface Sites

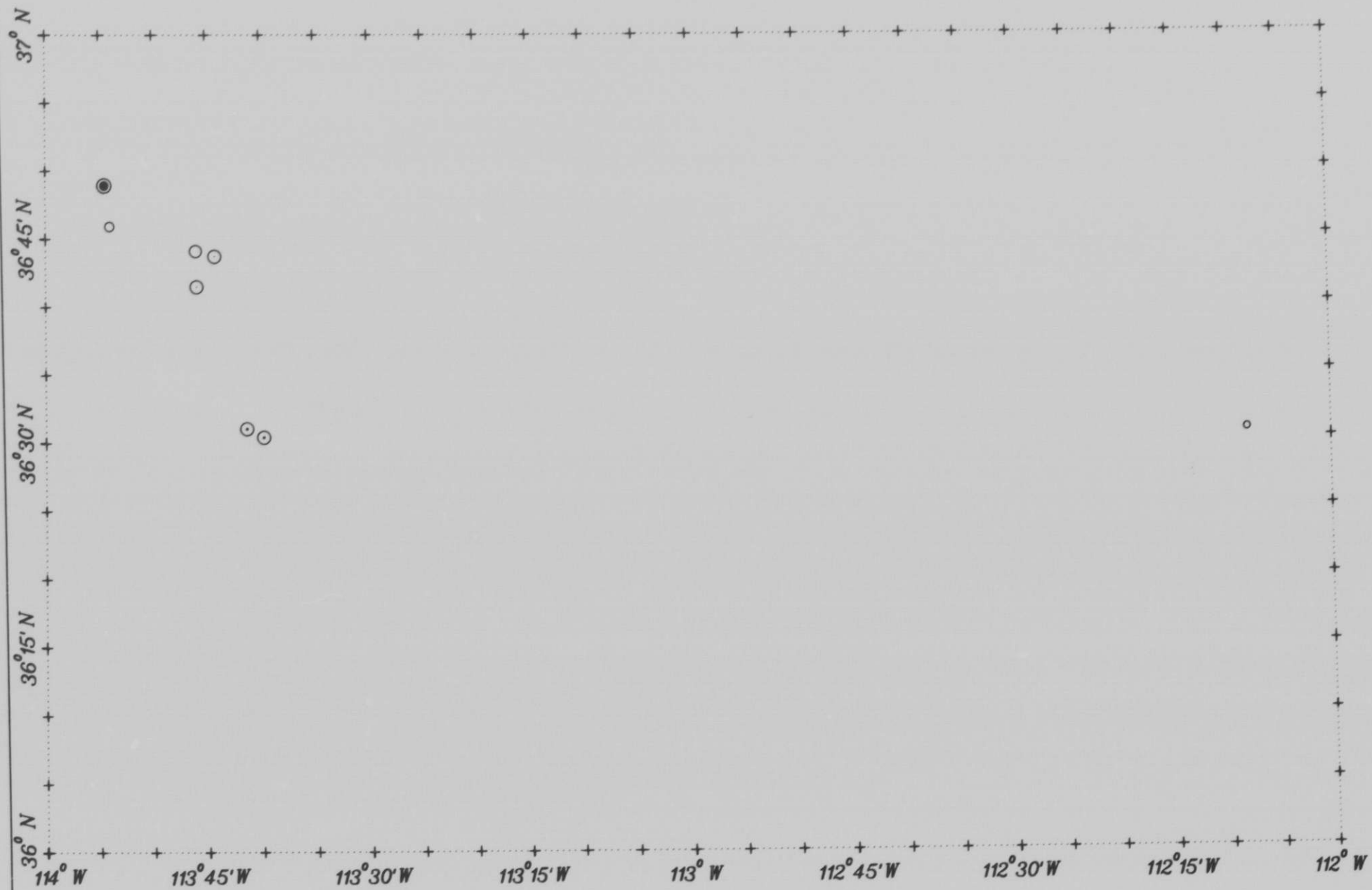
8

Values Above Detection Limits



GRAND CANYON *1x2° Sheet*
8 pH **In Surface Water**
Values Above D.L.

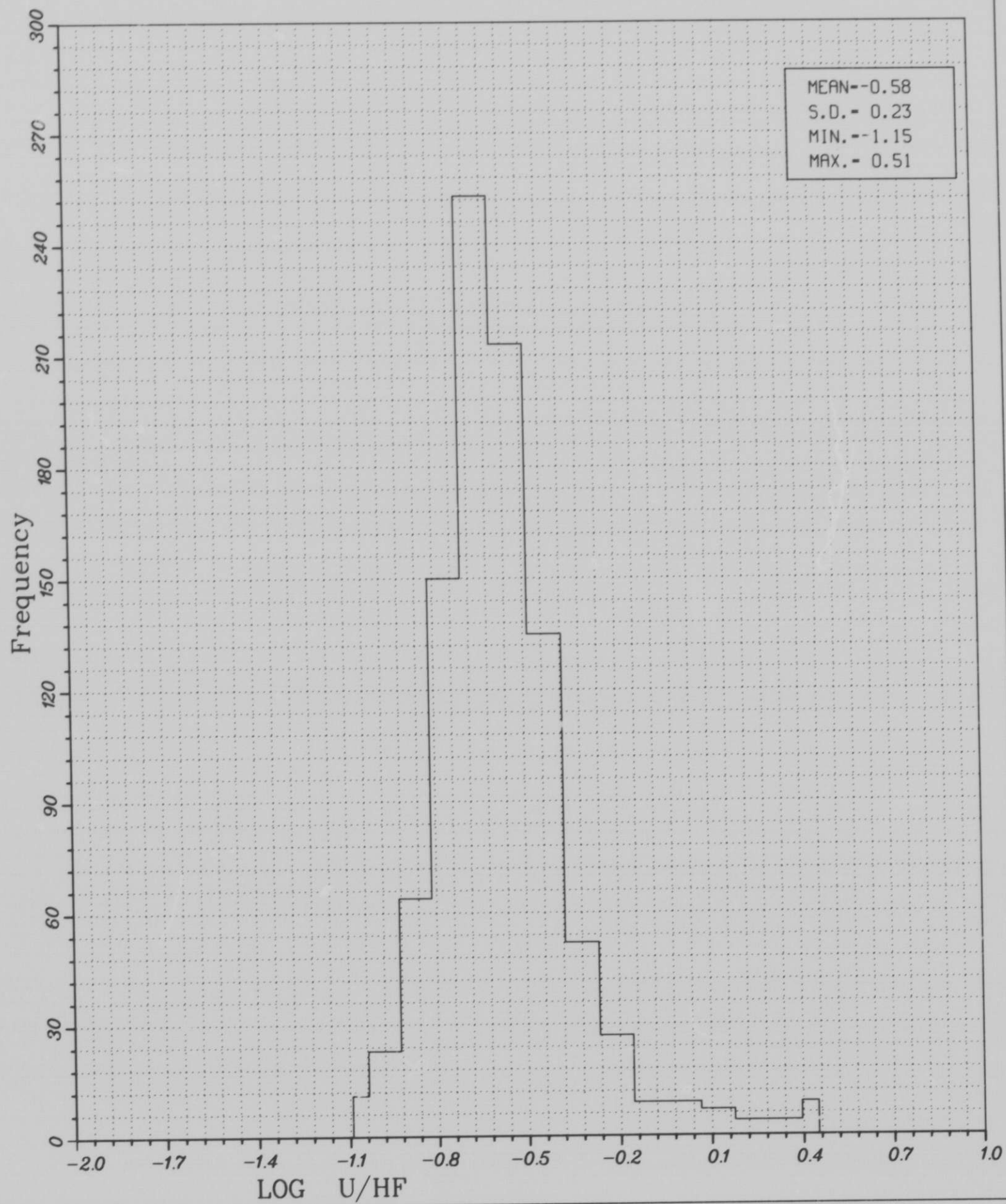
pH		-pH units		
+ < 6.3	o 6.3- 6.3	○ 7.8- 8.1	⊙ 8.5- 8.5	● 8.6- 8.6
x 6.3- 6.3	o 6.3- 6.3	○ 8.1- 8.2	⊙ 8.5- 8.5	◆ 8.6- 8.6
• 6.3- 6.3	○ 6.3- 7.8	⊙ 8.2- 8.5	⊙ 8.5- 8.6	★ > 8.6



GRAND CANYON 1'x2' Sheet

Histogram LOG U/HF Values - Surface Sites

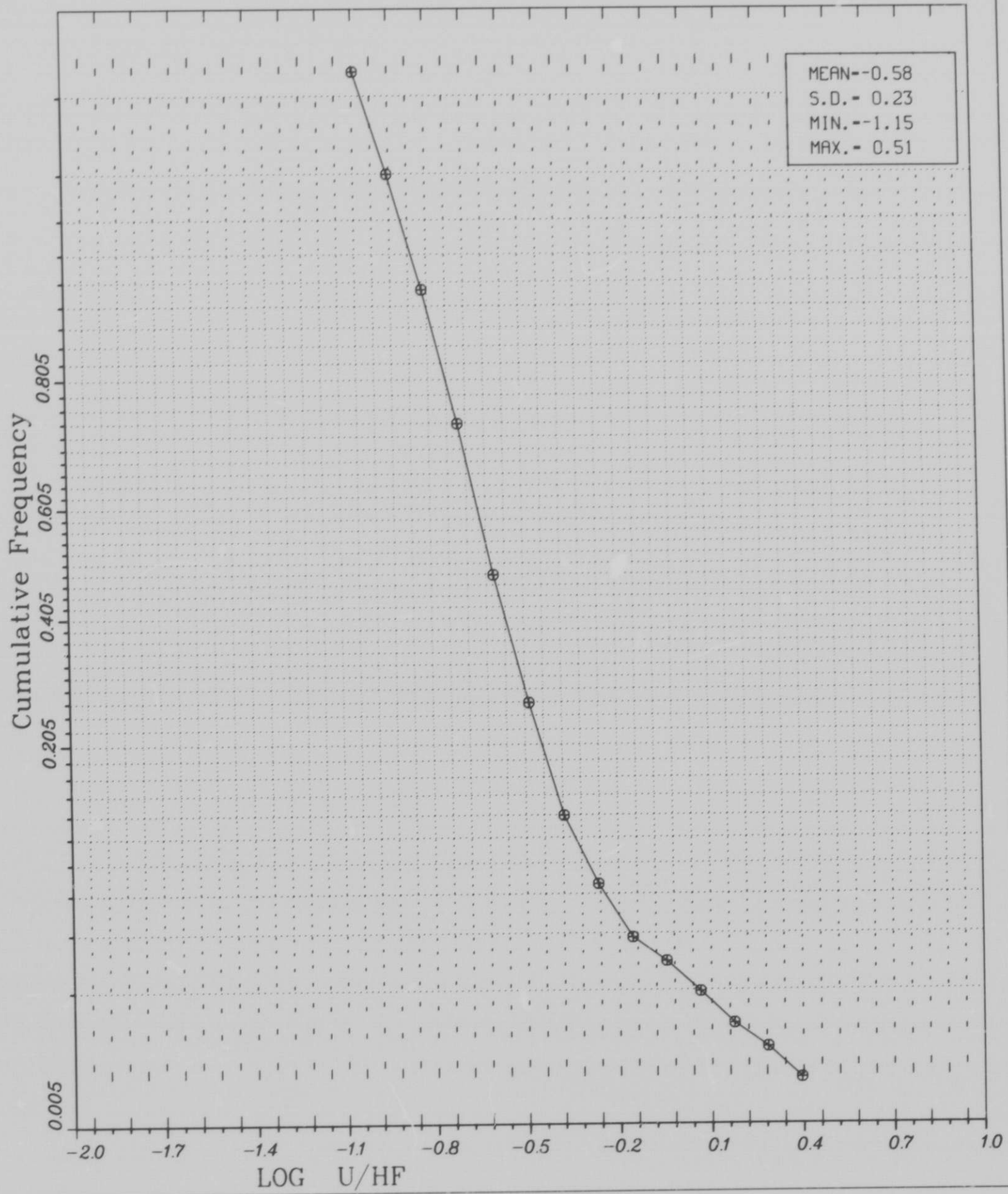
970 Values Above Detection Limits



GRAND CANYON 1'x2' Sheet

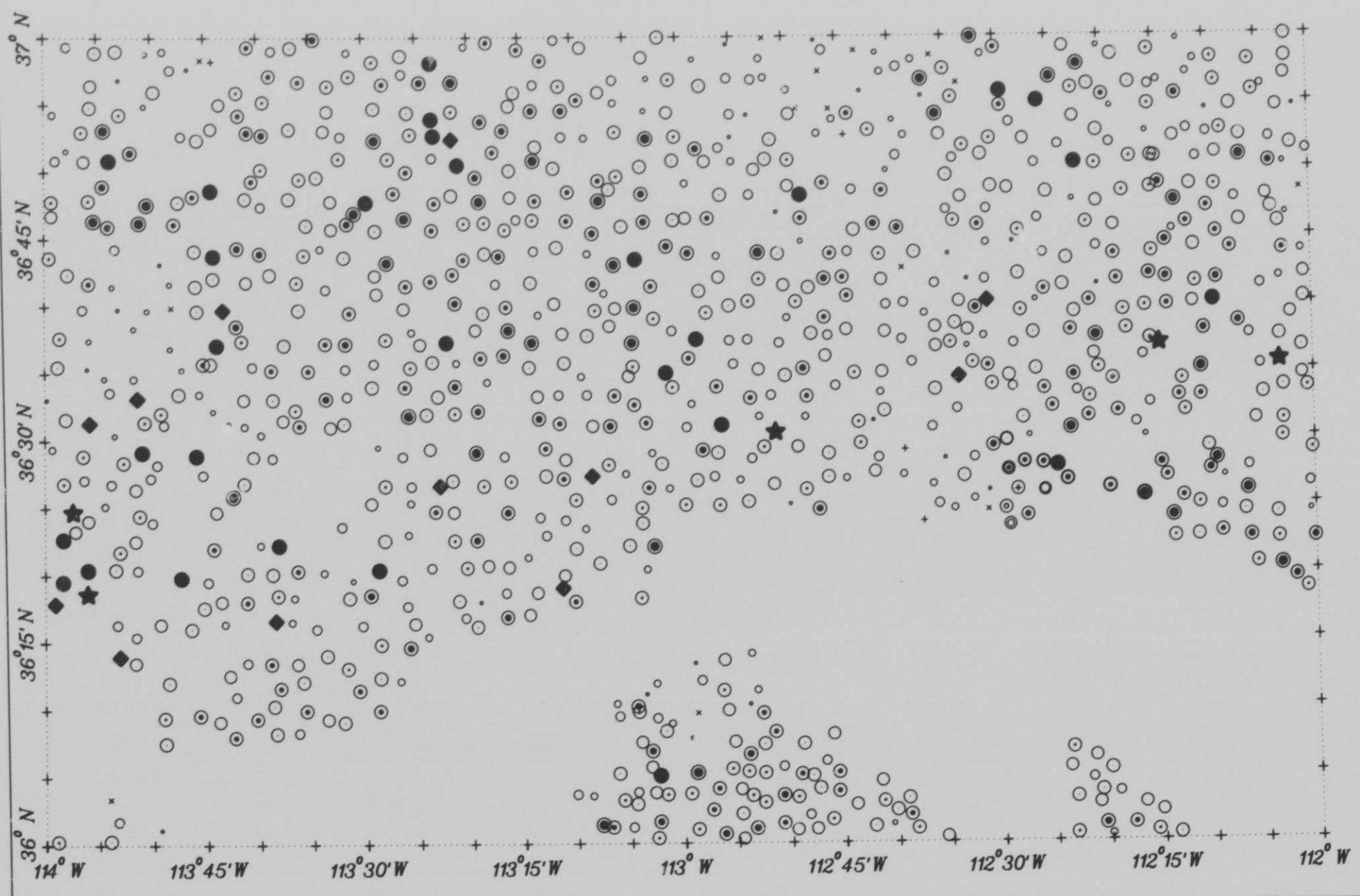
Cumulative Frequency Plot

LOG U/HF Values - Surface Sites
970 Values Above Detection Limits



GRAND CANYON *1x2' Sheet*
 LOG U/HF In Sediments
 970 Values Above D.L.

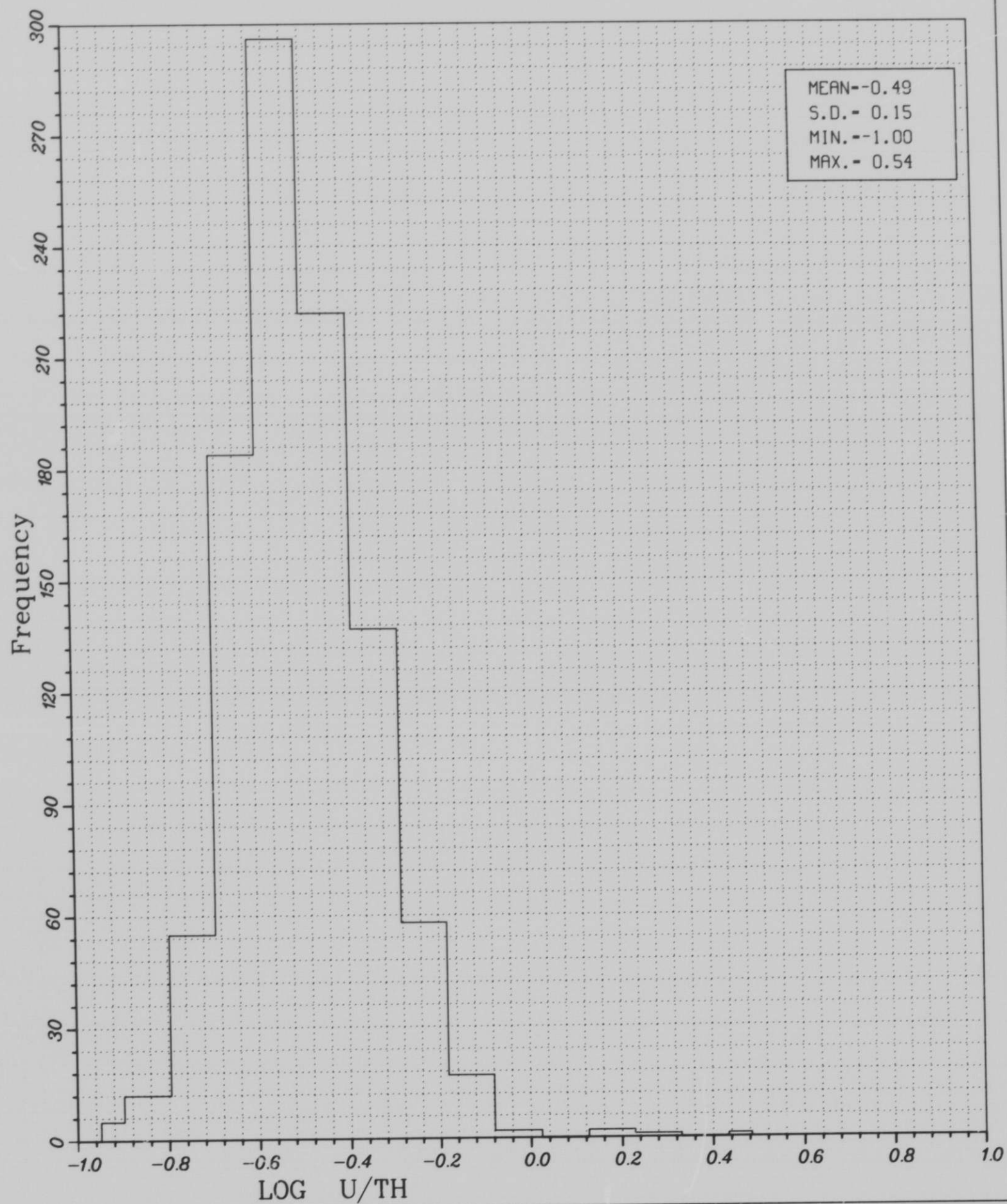
LOG U/HF				
+ < -1.08	o -0.89--0.84	○ -0.70--0.64	⊙ -0.50--0.42	● -0.20- 0.11
x -1.08--0.97	o -0.84--0.76	○ -0.64--0.57	⊙ -0.42--0.32	◆ 0.11- 0.43
• -0.97--0.89	○ -0.76--0.70	⊙ -0.57--0.50	⊙ -0.32--0.20	★ > 0.43



GRAND CANYON 1°x2° Sheet

Histogram LOG U/TH Values - Surface Sites

992 Values Above Detection Limits

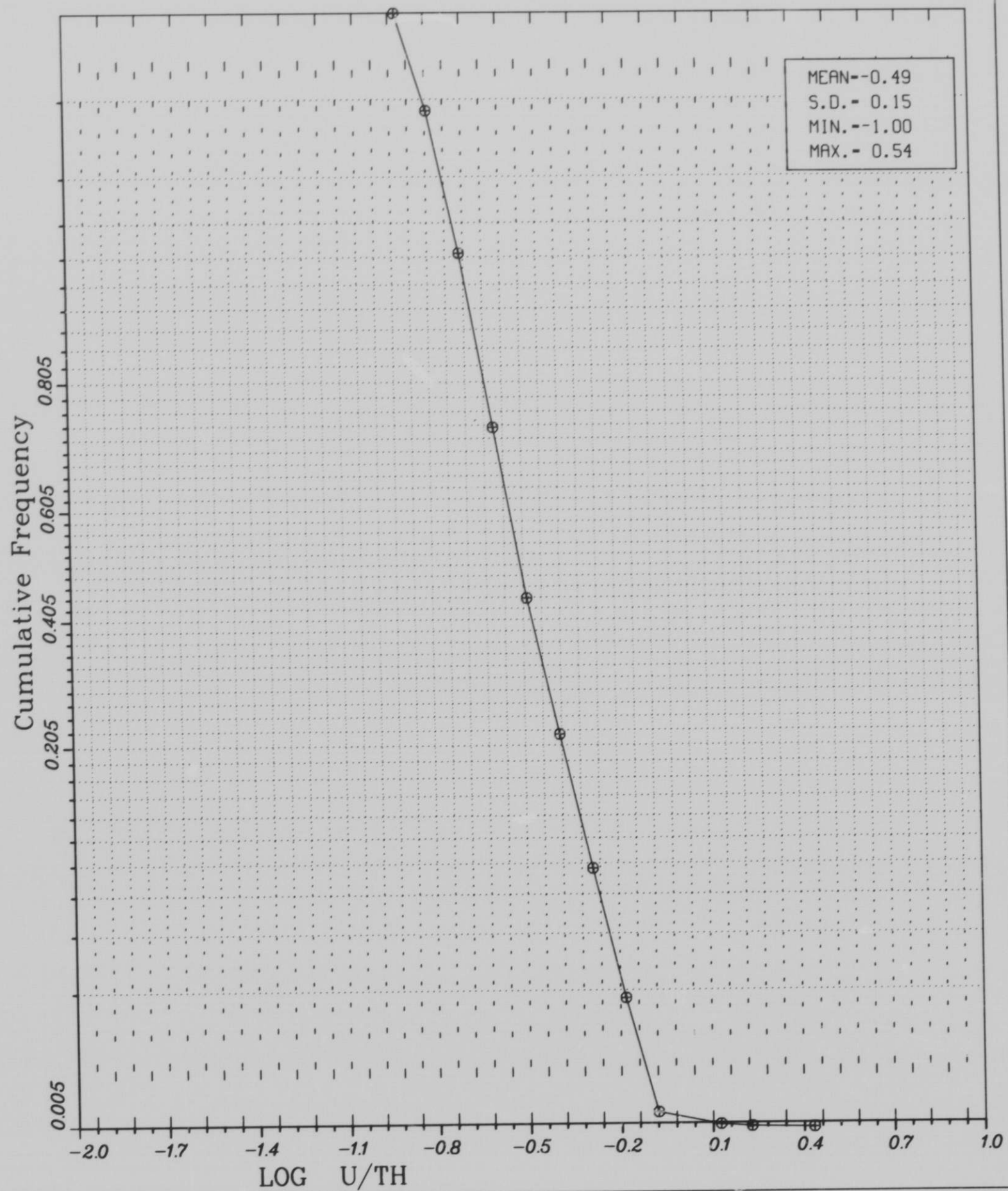


GRAND CANYON 1'x2' Sheet

Cumulative Frequency Plot

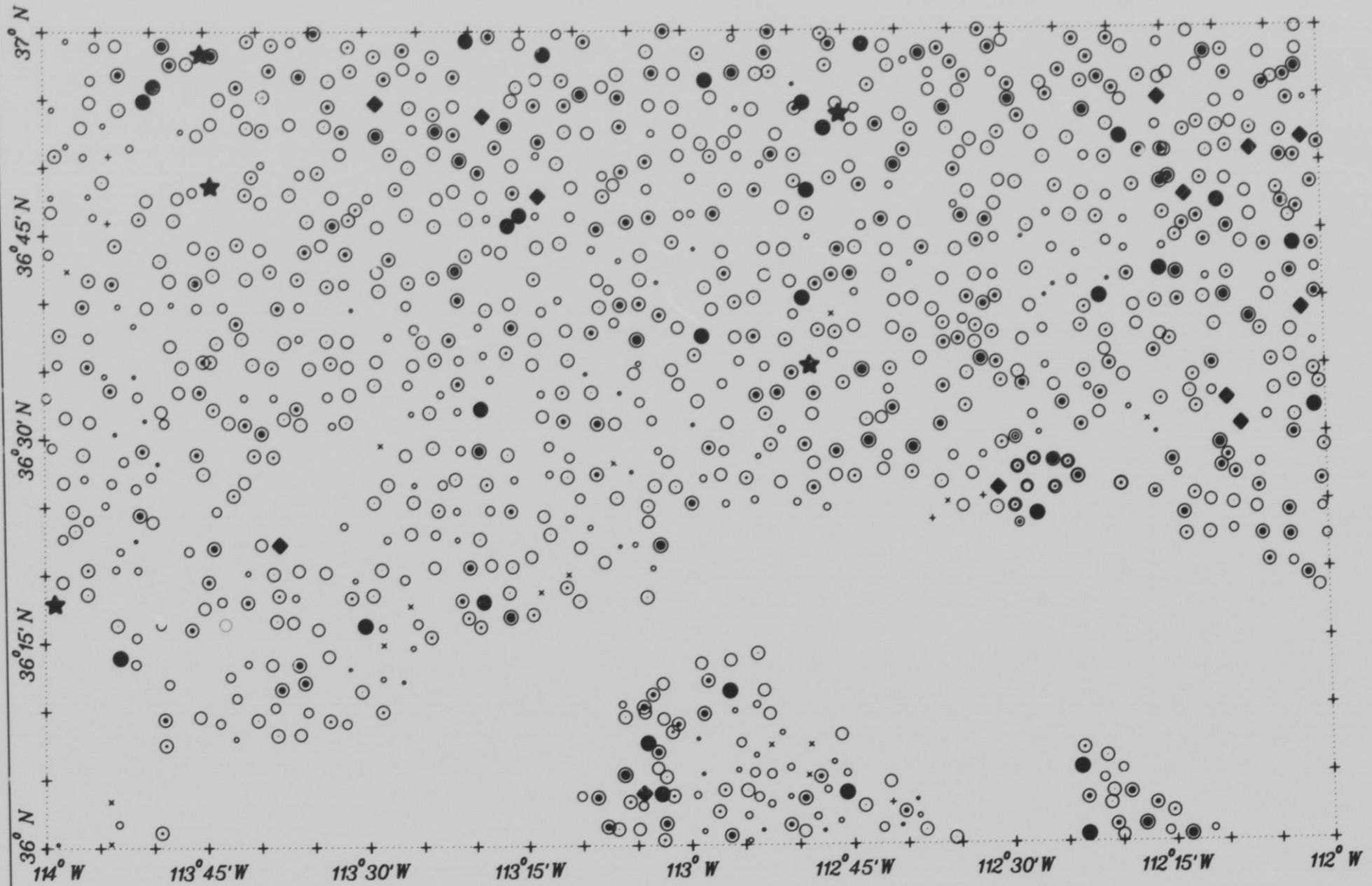
LOG U/TH Values - Surface Sites

992 Values Above Detection Limits



GRAND CANYON 1x2' Sheet
 LOG U/TH In Sediments
 992 Values Above D.L.

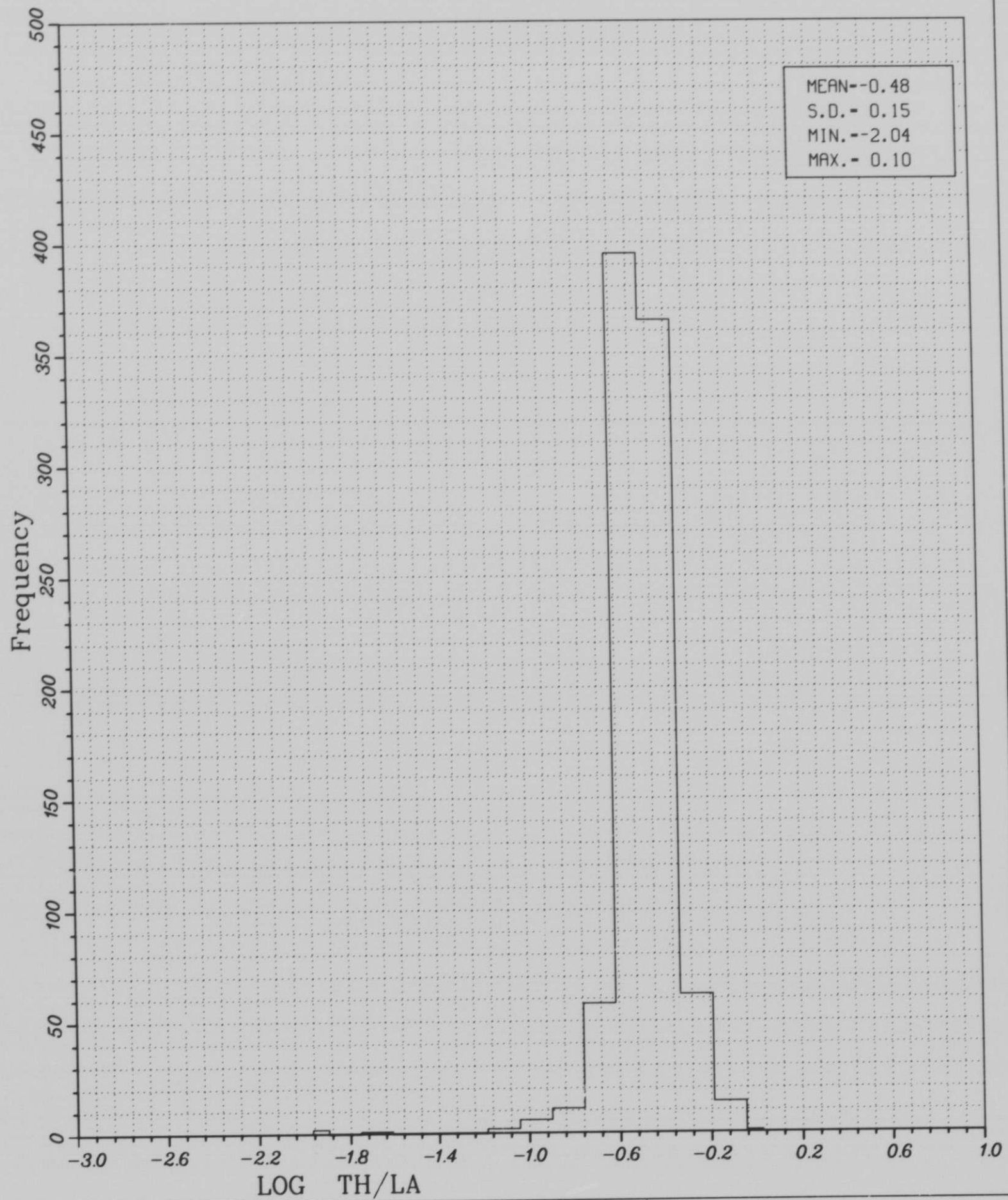
LOG U/TH				
+ < -0.90	○ -0.72--0.67	○ -0.58--0.54	⊙ -0.43--0.36	● -0.25--0.17
x -0.90--0.78	○ -0.67--0.63	○ -0.54--0.48	⊙ -0.36--0.28	◆ -0.17- 0.00
• -0.78--0.72	○ -0.63--0.58	○ -0.48--0.43	⊙ -0.28--0.25	★ > 0.00



GRAND CANYON 1°x2° Sheet

Histogram LOG TH/LA Values - Surface Sites

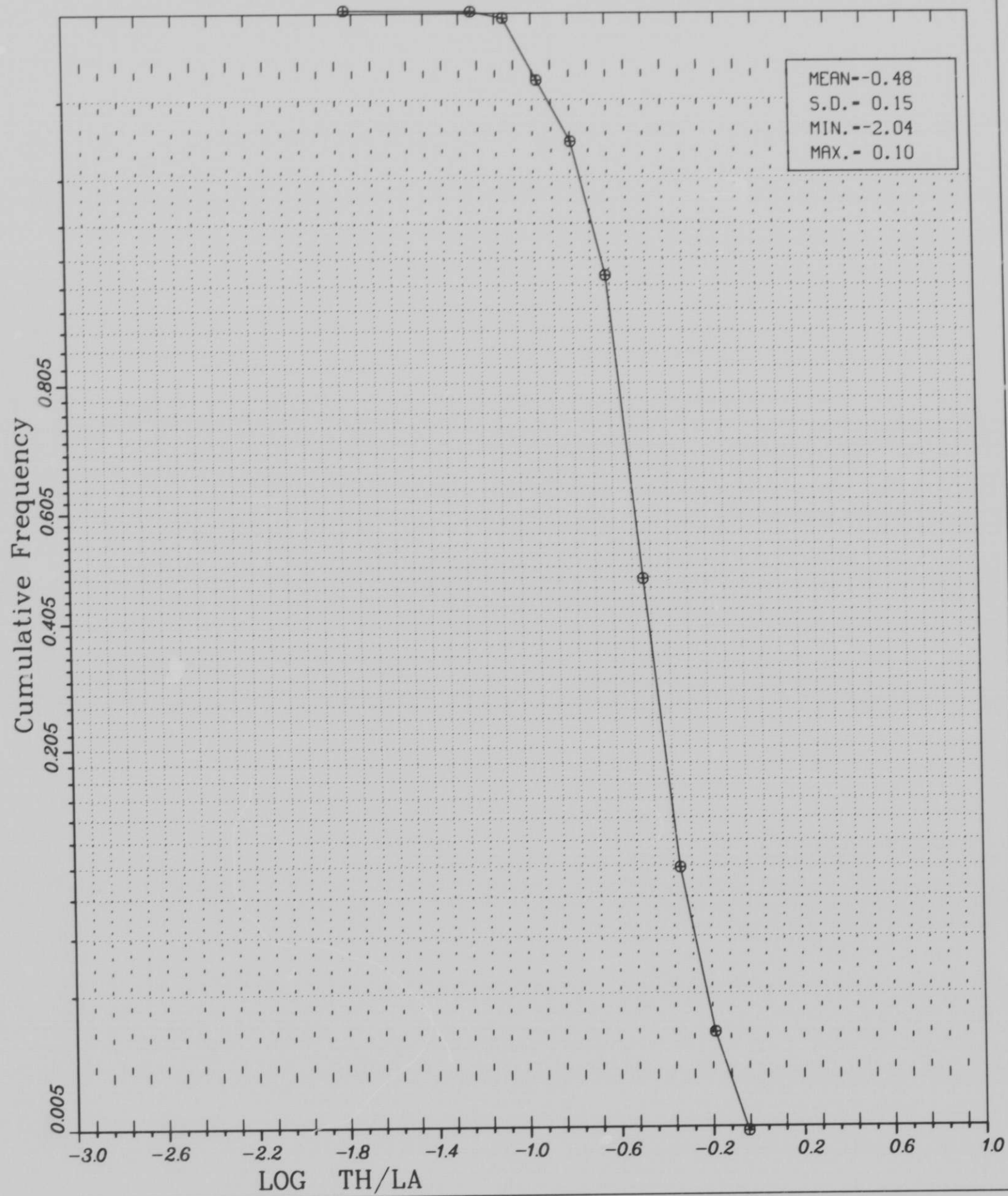
917 Values Above Detection Limits



GRAND CANYON 1'x2' Sheet

Cumulative Frequency Plot

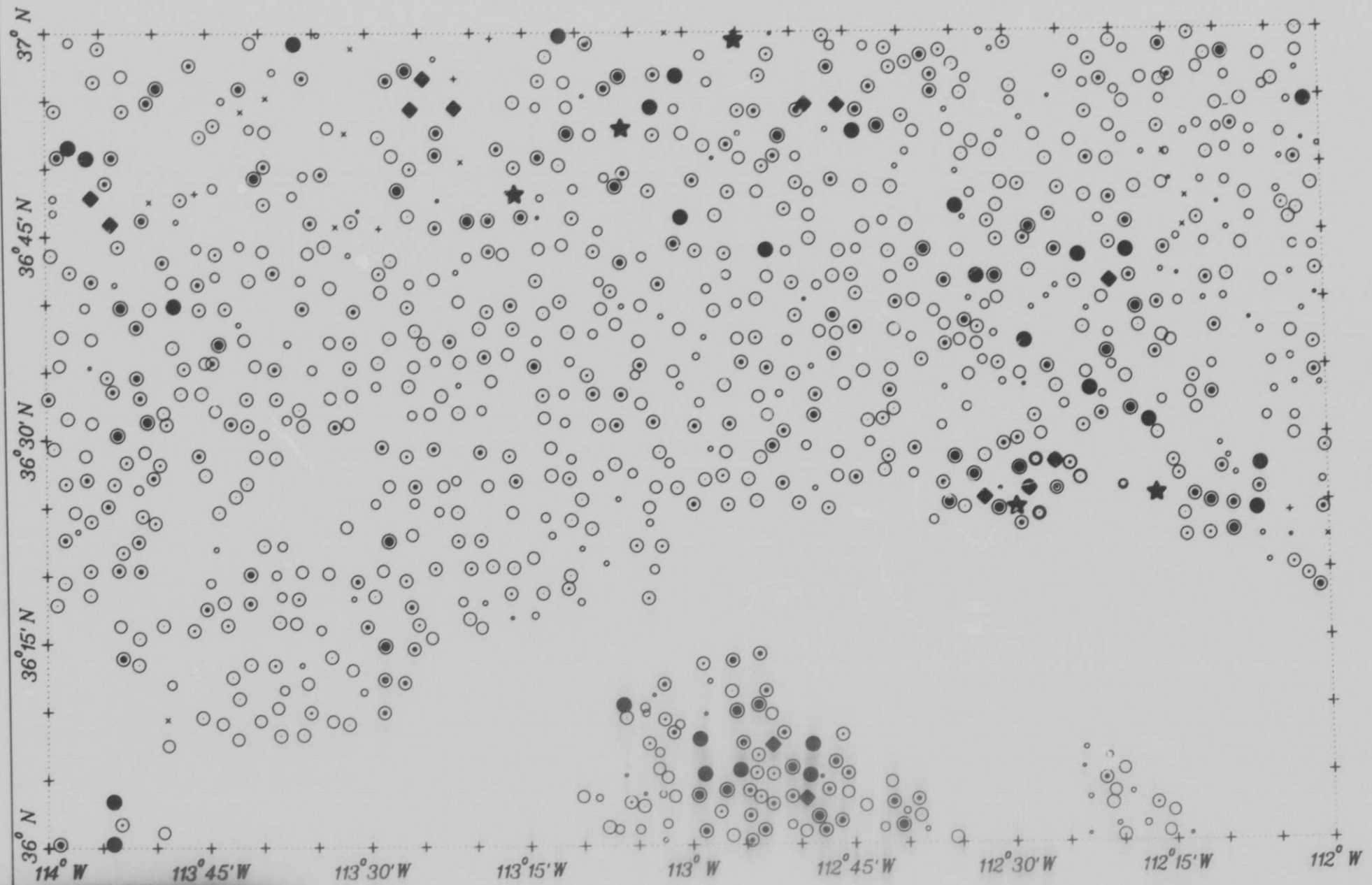
LOG TH/LA Values - Surface Sites
917 Values Above Detection Limits



GRAND CANYON 1'x2' Sheet
 LOG TH/LA In Sediments
 917 Values Above D.L.

LOG TH.

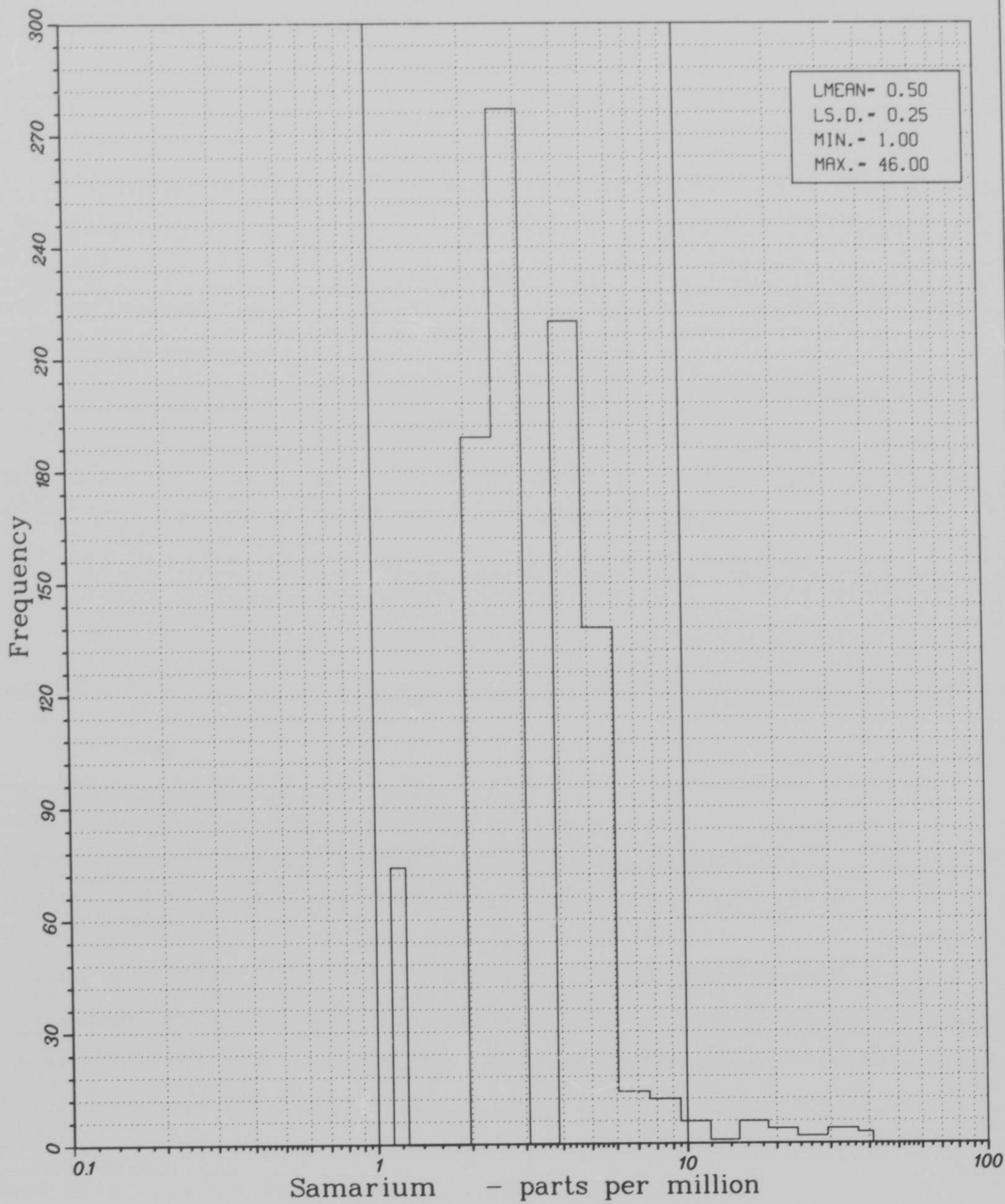
+ < -1.14	○ -0.68--0.60	○ -0.52--0.49	⊙ -0.42--0.37	● -0.28--0.22
x -1.14--0.80	○ -0.60--0.57	○ -0.49--0.46	⊙ -0.37--0.33	◆ -0.22--0.10
• -0.80--0.68	○ -0.57--0.52	○ -0.46--0.42	⊙ -0.33--0.28	★ > -0.10



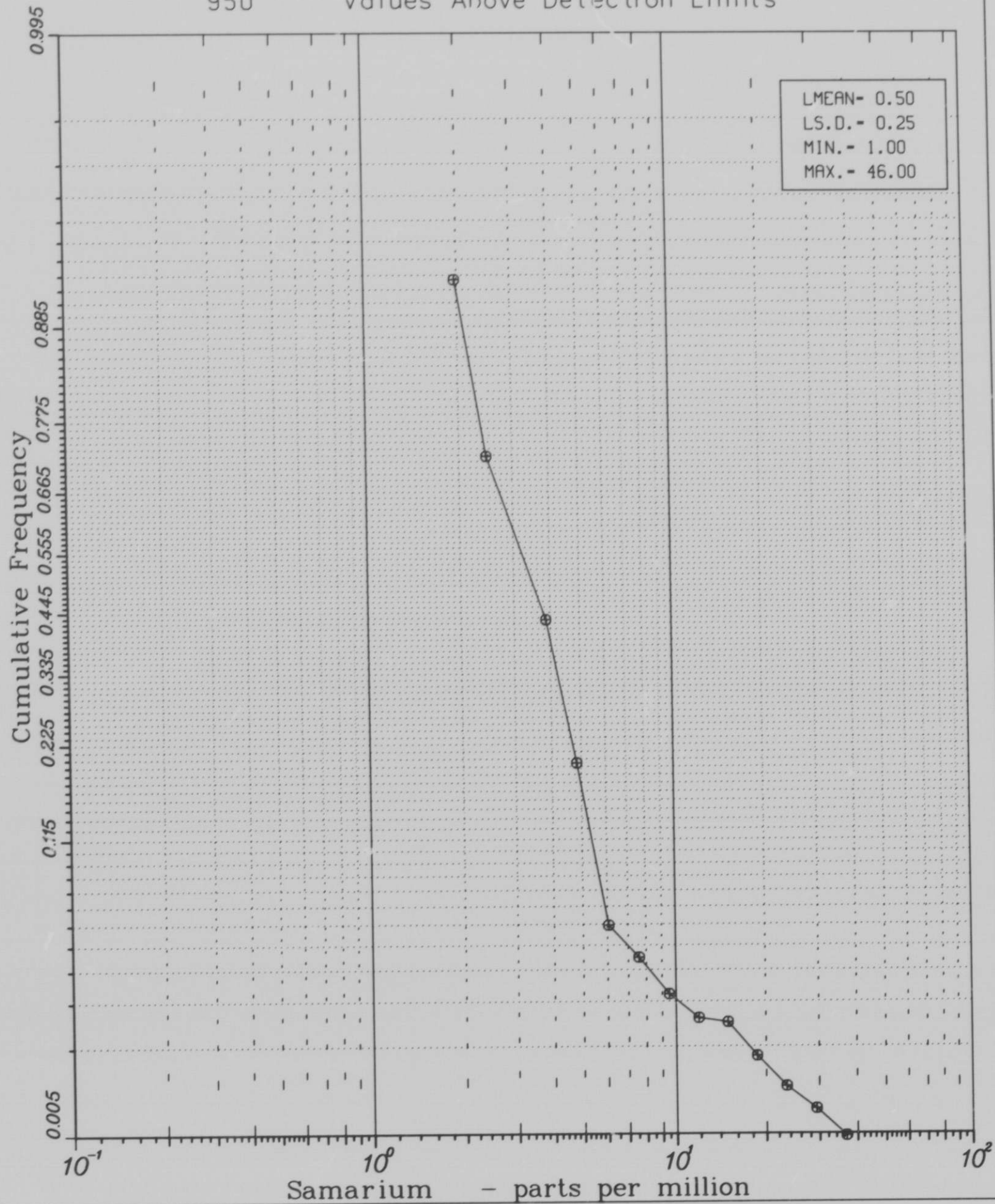
GRAND CANYON 1'x2' Sheet

Log Histogram Samarium Values Surface Site

950 Values Above Detection Limits

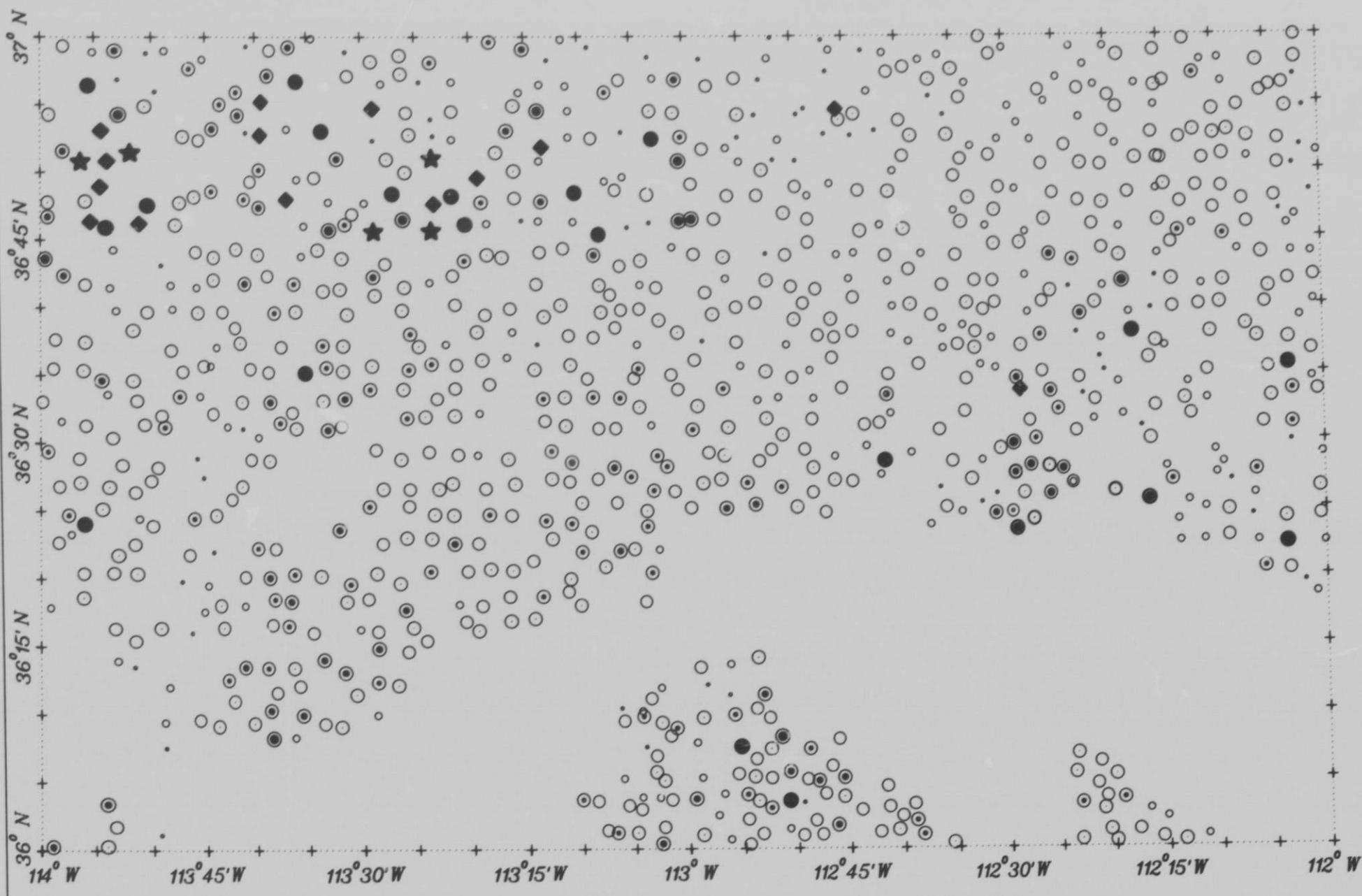


GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Samarium Values - Surface Sites
950 Values Above Detection Limits



GRAND CANYON 1x2° Sheet
 Samarium In Sediments
 950 Values Above D.L.

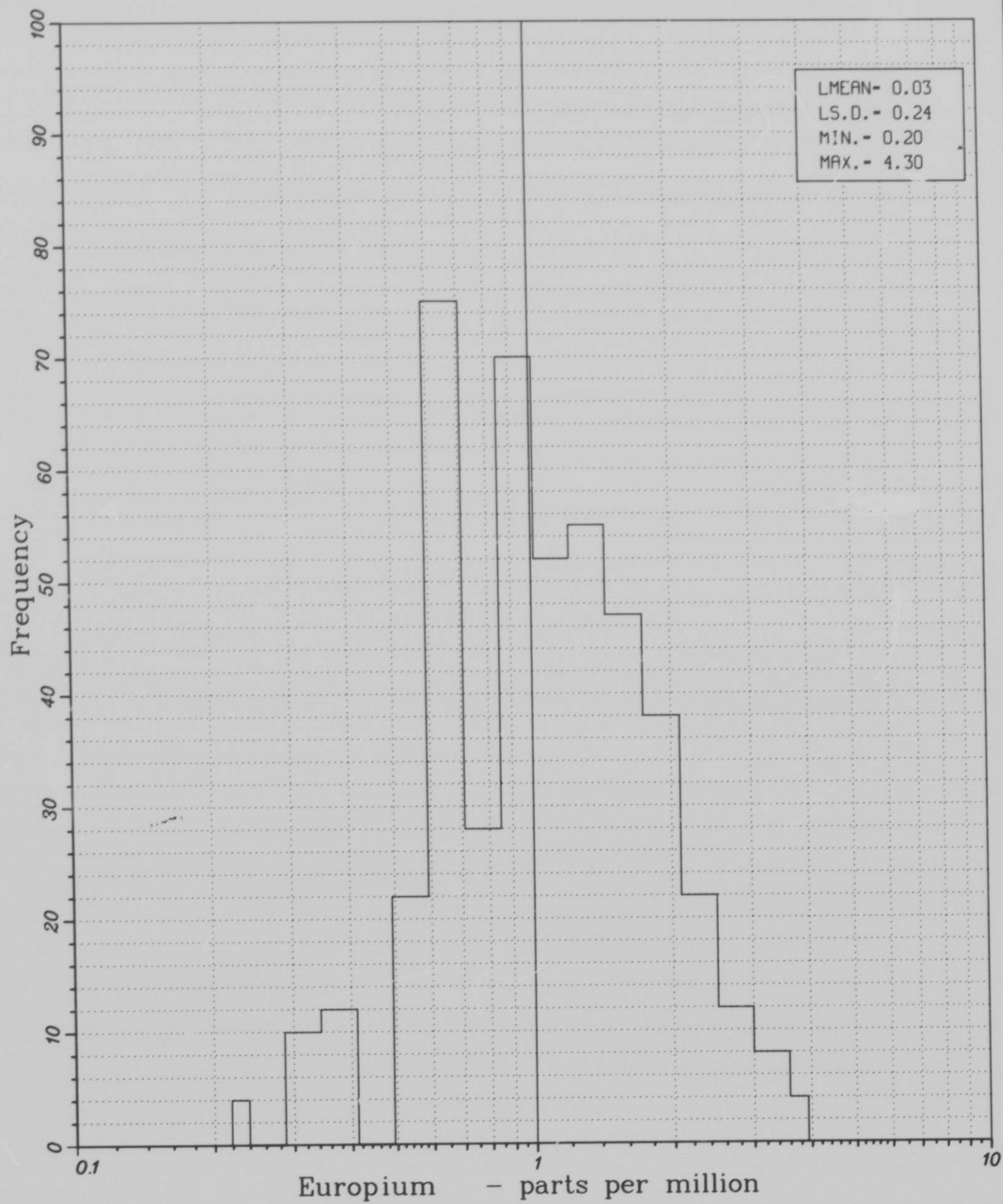
Samarium concentration - p.p.m.				
+ < 1.0	o 1.0- 2.0	○ 3.0- 3.0	⊙ 4.0- 5.0	● 7.0- 14.0
× 1.0- 1.0	o 2.0- 2.0	○ 3.0- 4.0	⊙ 5.0- 6.0	◆ 14.0- 32.0
• 1.0- 1.0	○ 2.0- 3.0	⊙ 4.0- 4.0	⊙ 6.0- 7.0	★ > 32.0



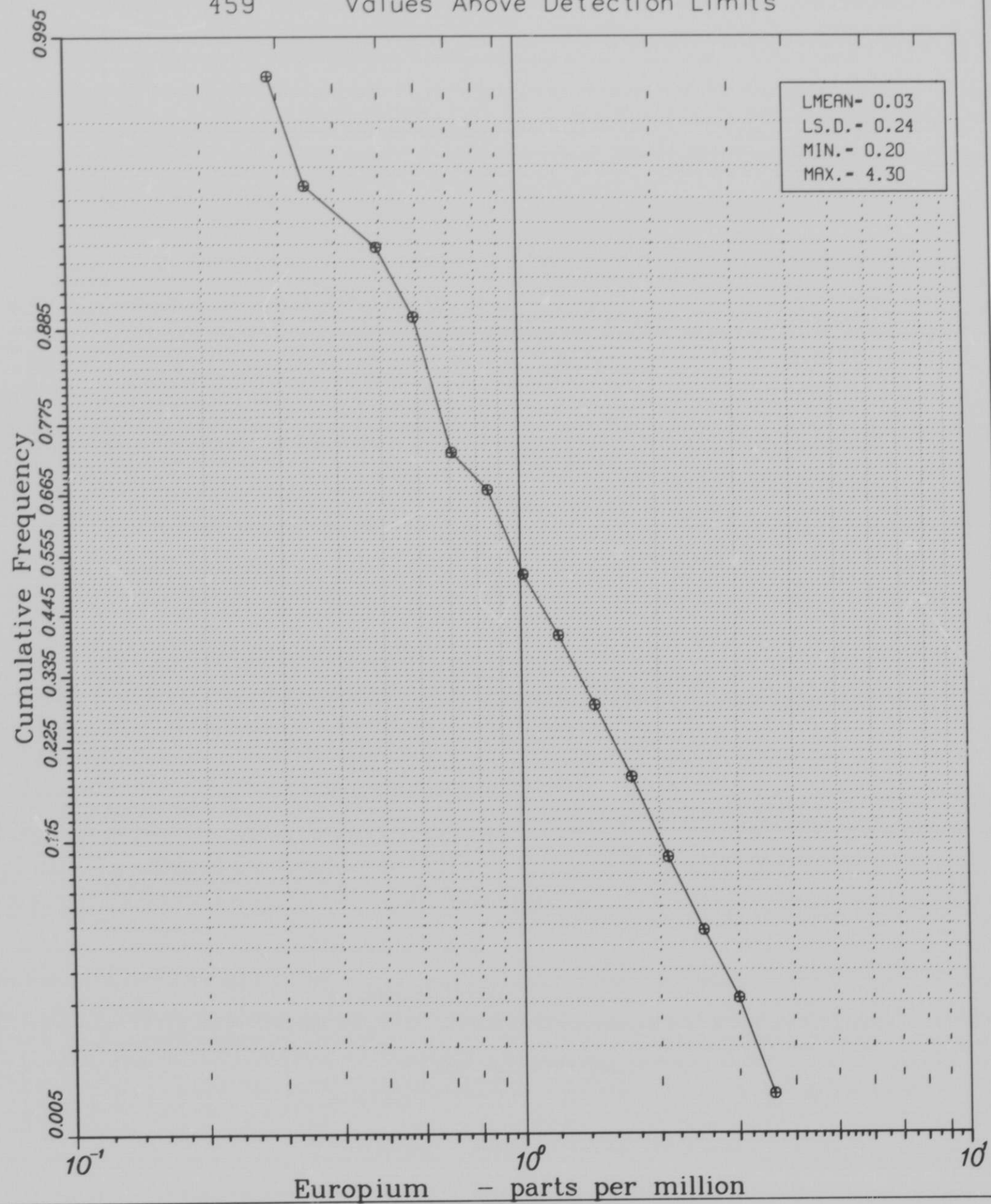
GRAND CANYON 1'x2' Sheet

Log Histogram Europium Values Surface Site

459 Values Above Detection Limits



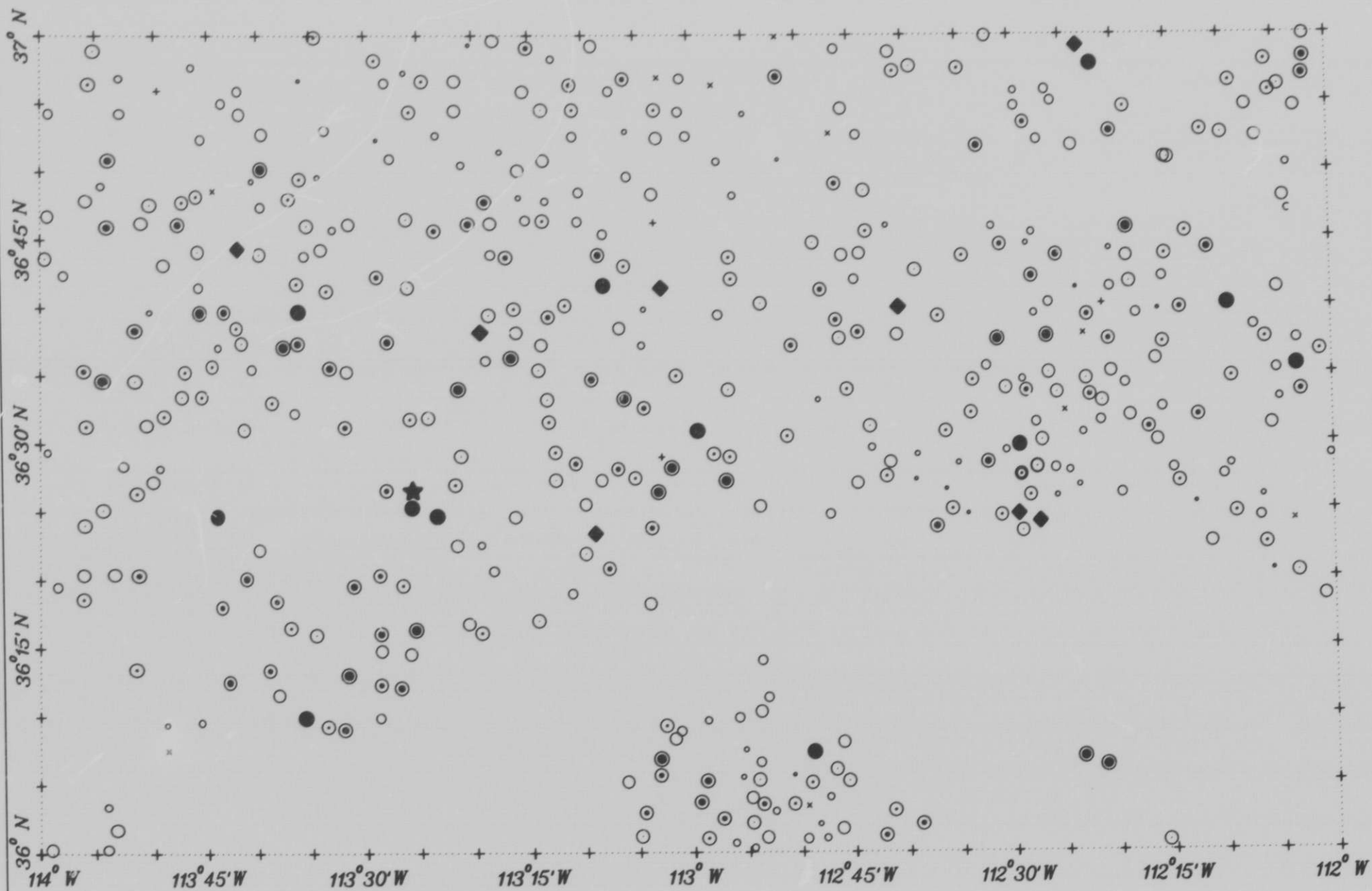
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Europium Values - Surface Sites
459 Values Above Detection Limits



GRAND CANYON *1x2° Sheet*
Europium In Sediments
459 **Values Above D.L.**

Europium concentration - p.p.m.

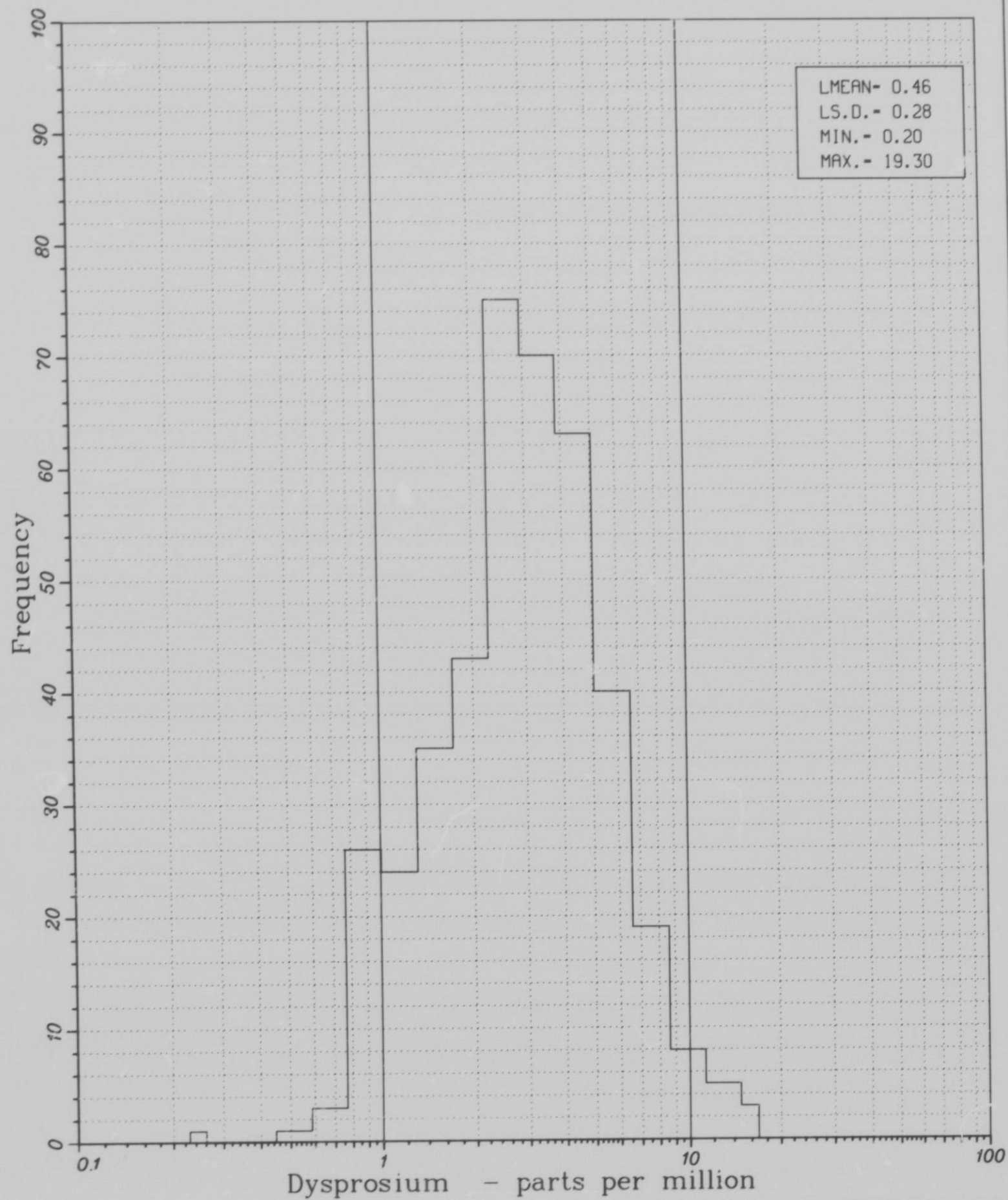
+ < 0.2	o 0.4- 0.5	○ 0.8- 1.0	⊙ 1.5- 1.8	● 2.6- 3.1
x 0.2- 0.3	o 0.5- 0.6	○ 1.0- 1.2	⊙ 1.8- 2.1	◆ 3.1- 4.0
• 0.3- 0.4	○ 0.6- 0.8	⊙ 1.2- 1.5	⊙ 2.1- 2.6	★ > 4.0



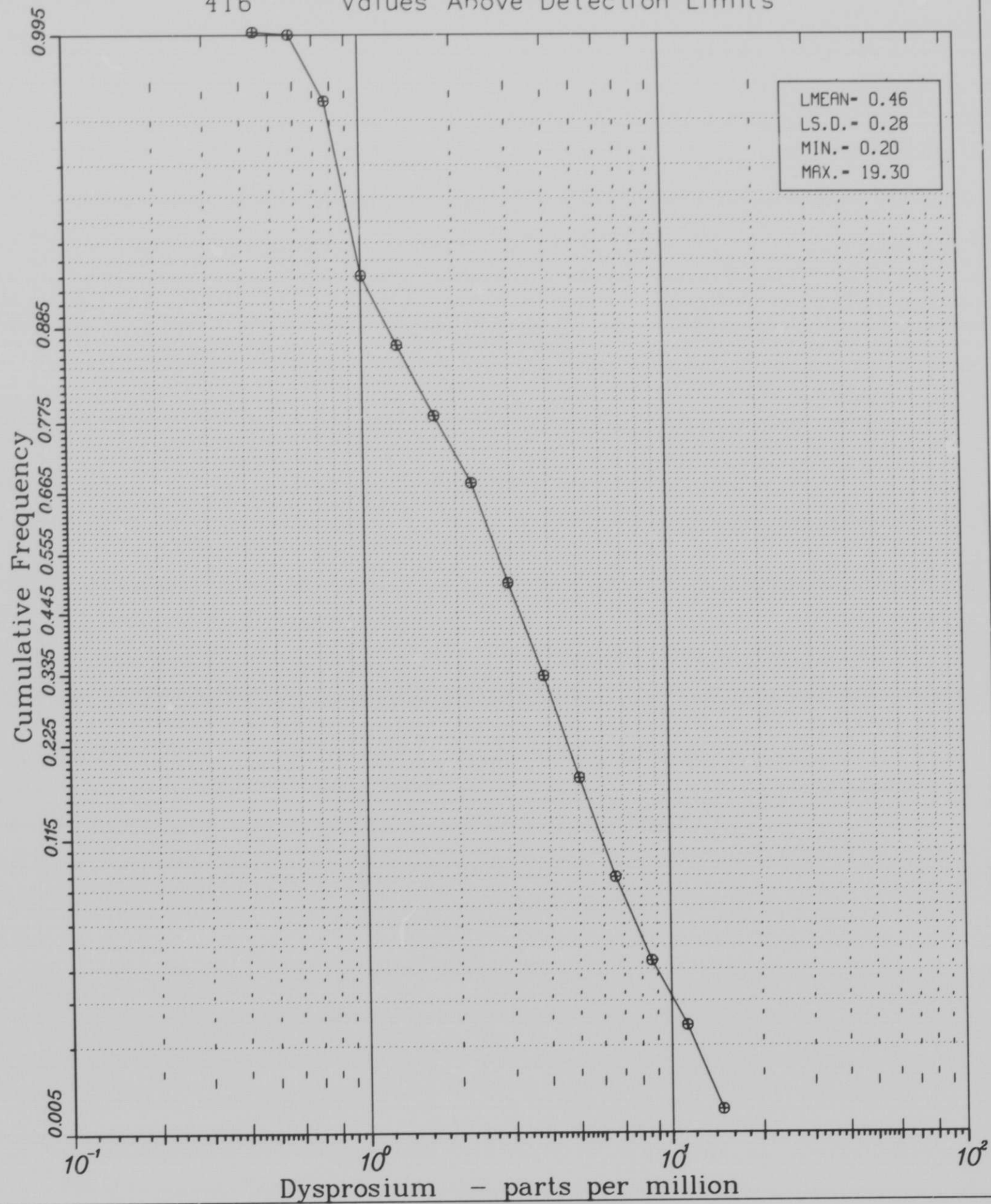
GRAND CANYON 1°x2° Sheet

Log Histogram Dysprosium Values Surface Site

416 Values Above Detection Limits



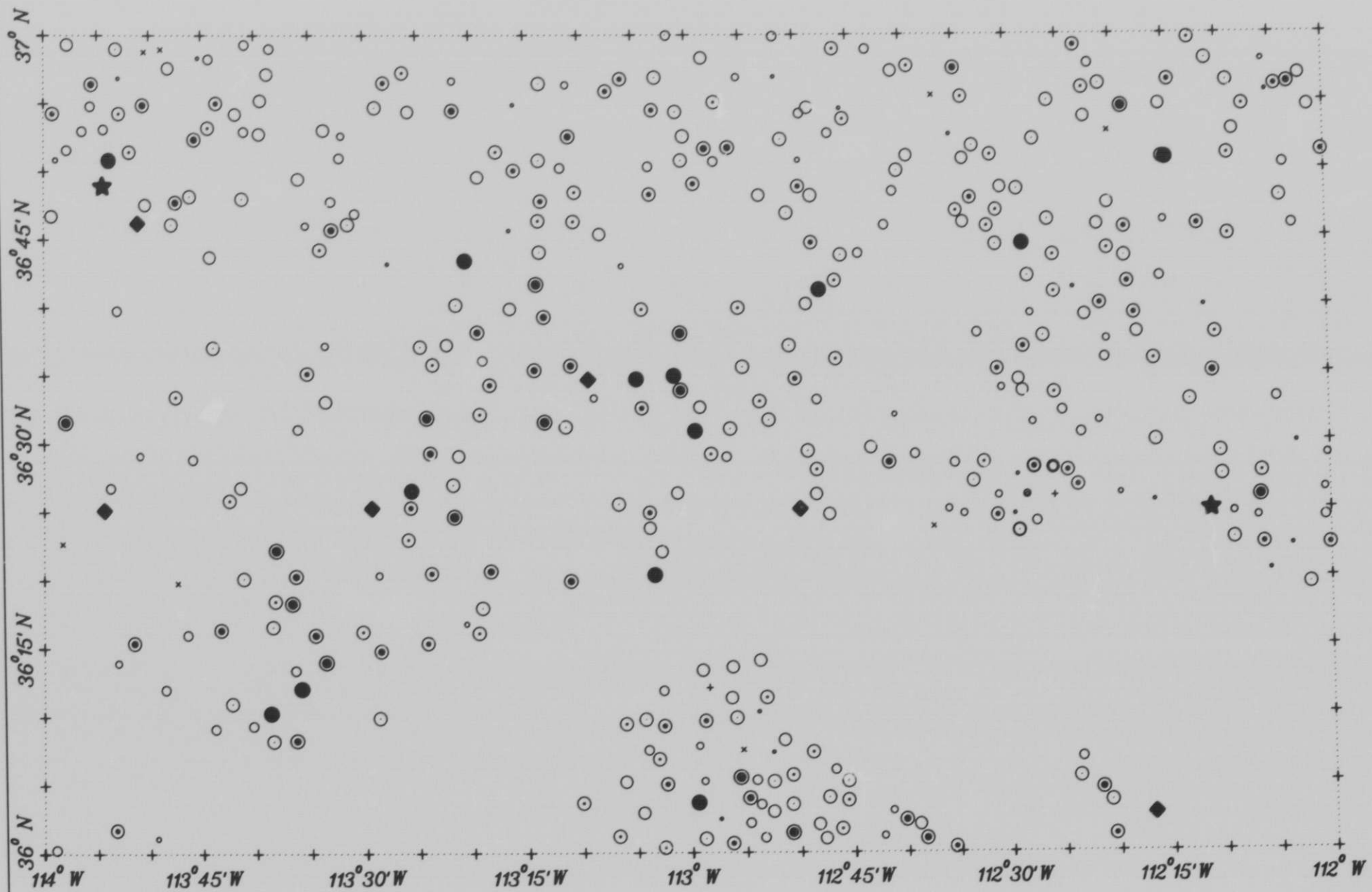
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Dysprosium Values - Surface Sites
416 Values Above Detection Limits



GRAND CANYON 1°x2° Sheet
Dysprosium In Sediments
 416 Values Above D.L.

Dysprosium concentration - p.p.m.

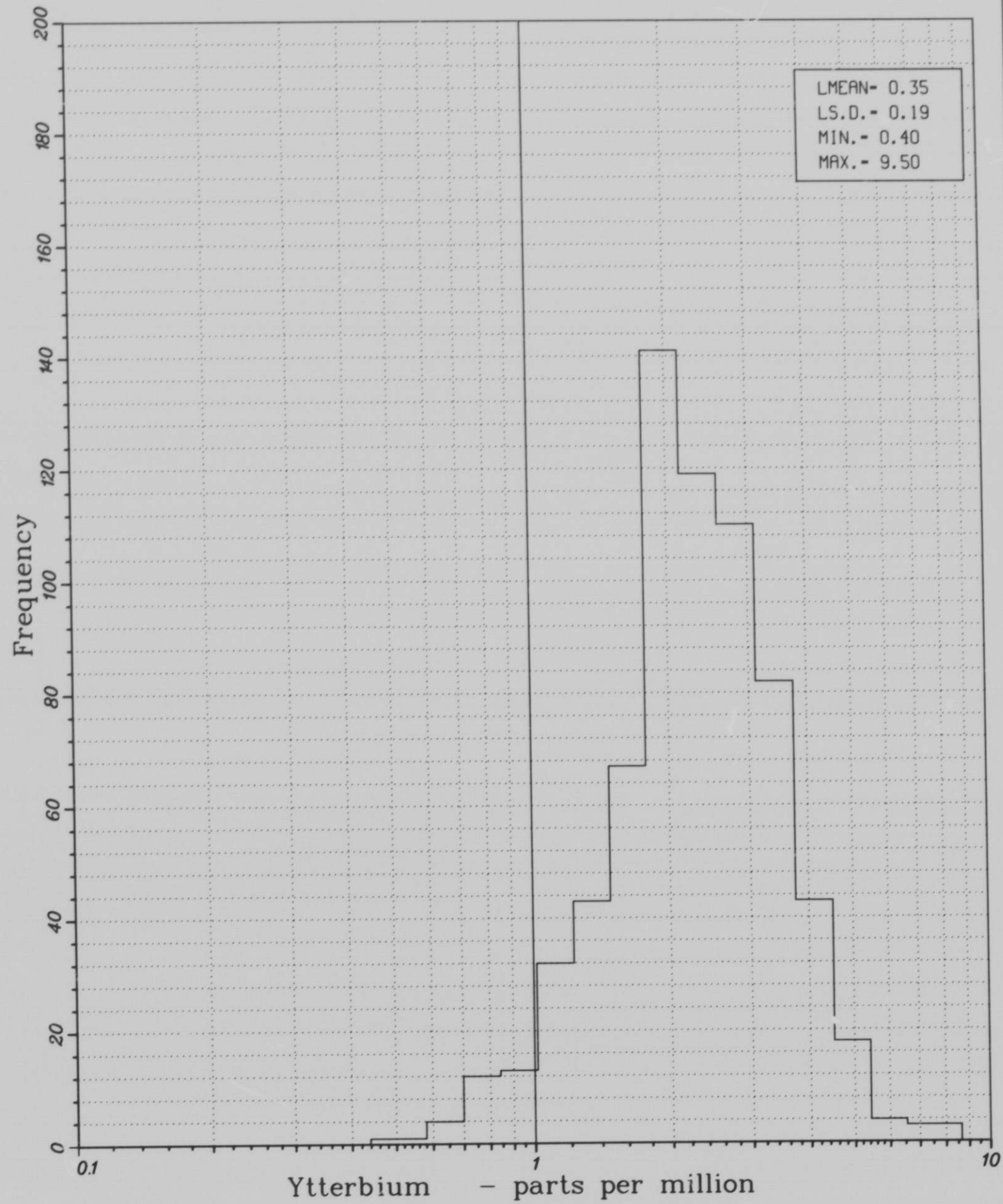
+ < 0.5	○ 1.0- 1.1	○ 2.1- 2.7	⊙ 4.2- 5.2	● 7.8- 11.1
x 0.5- 0.8	○ 1.1- 1.4	○ 2.7- 3.4	⊙ 5.2- 6.5	◆ 11.1- 16.0
• 0.8- 1.0	○ 1.4- 2.1	⊙ 3.4- 4.2	⊙ 6.5- 7.8	★ > 16.0



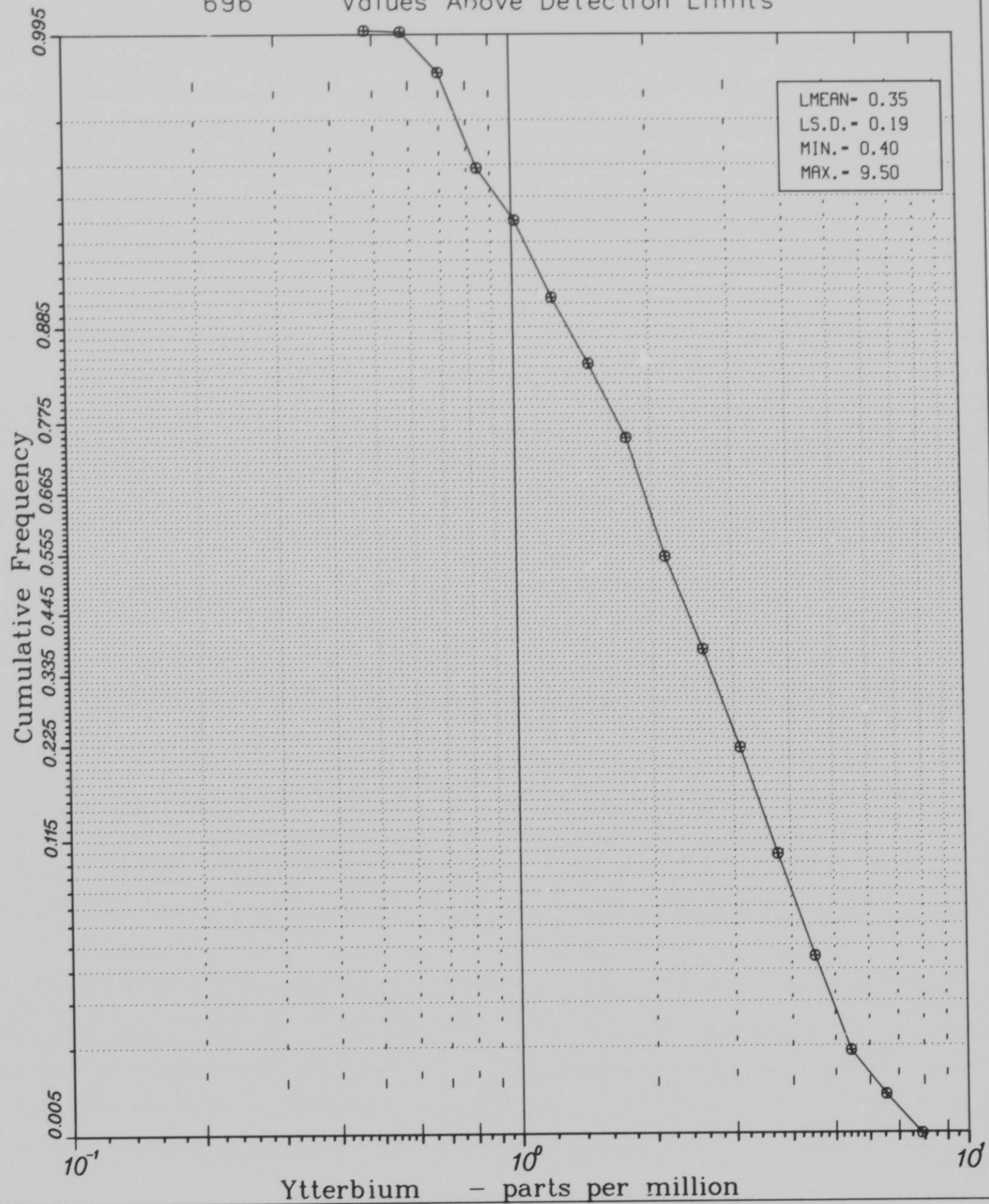
GRAND CANYON 1'x2' Sheet

Log Histogram Ytterbium Values Surface Site

696 Values Above Detection Limits

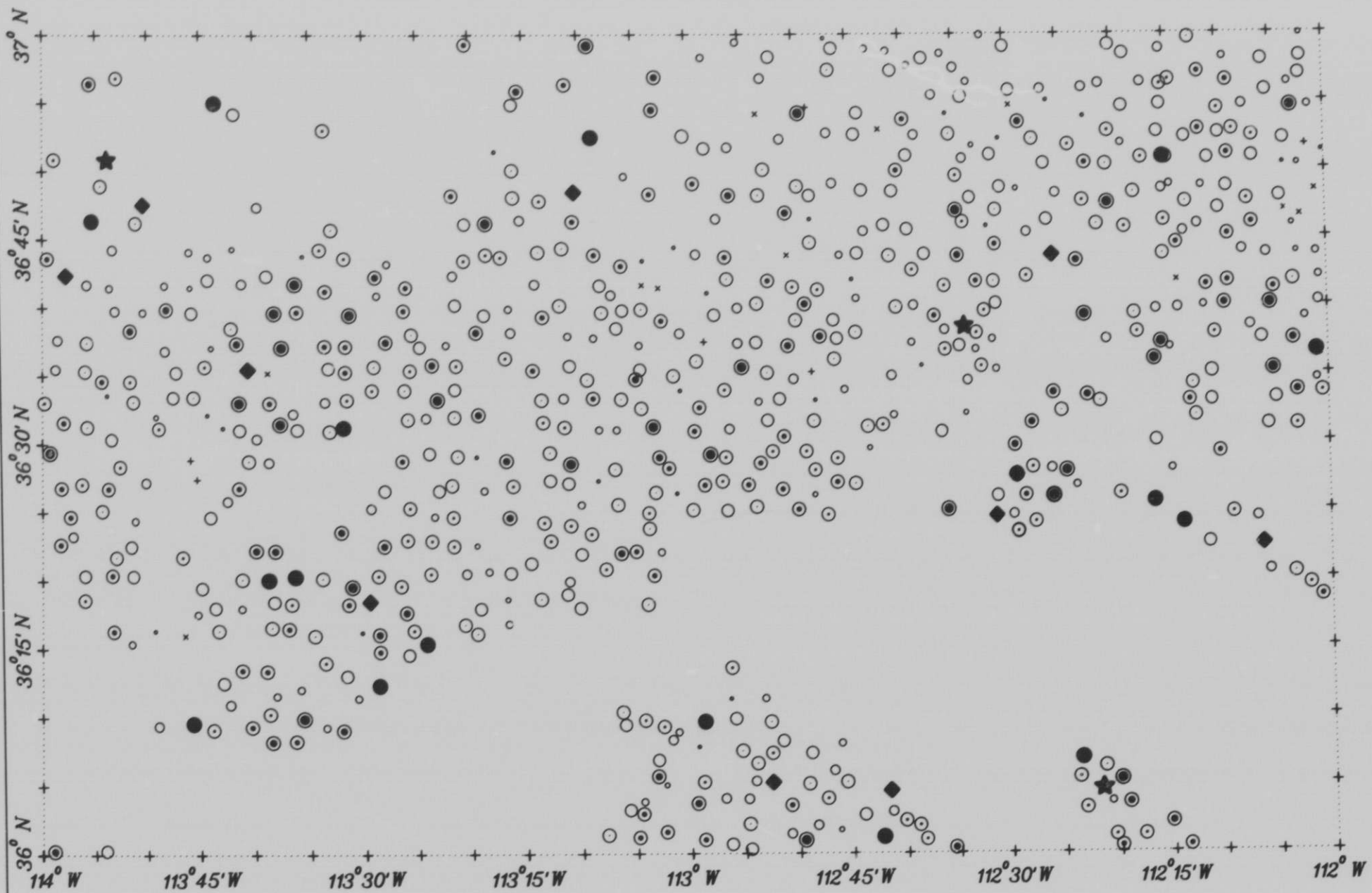


GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Ytterbium Values - Surface Sites
696 Values Above Detection Limits



GRAND CANYON *1°x2° Sheet*
Ytterbium In Sediments
696 Values Above D.L.

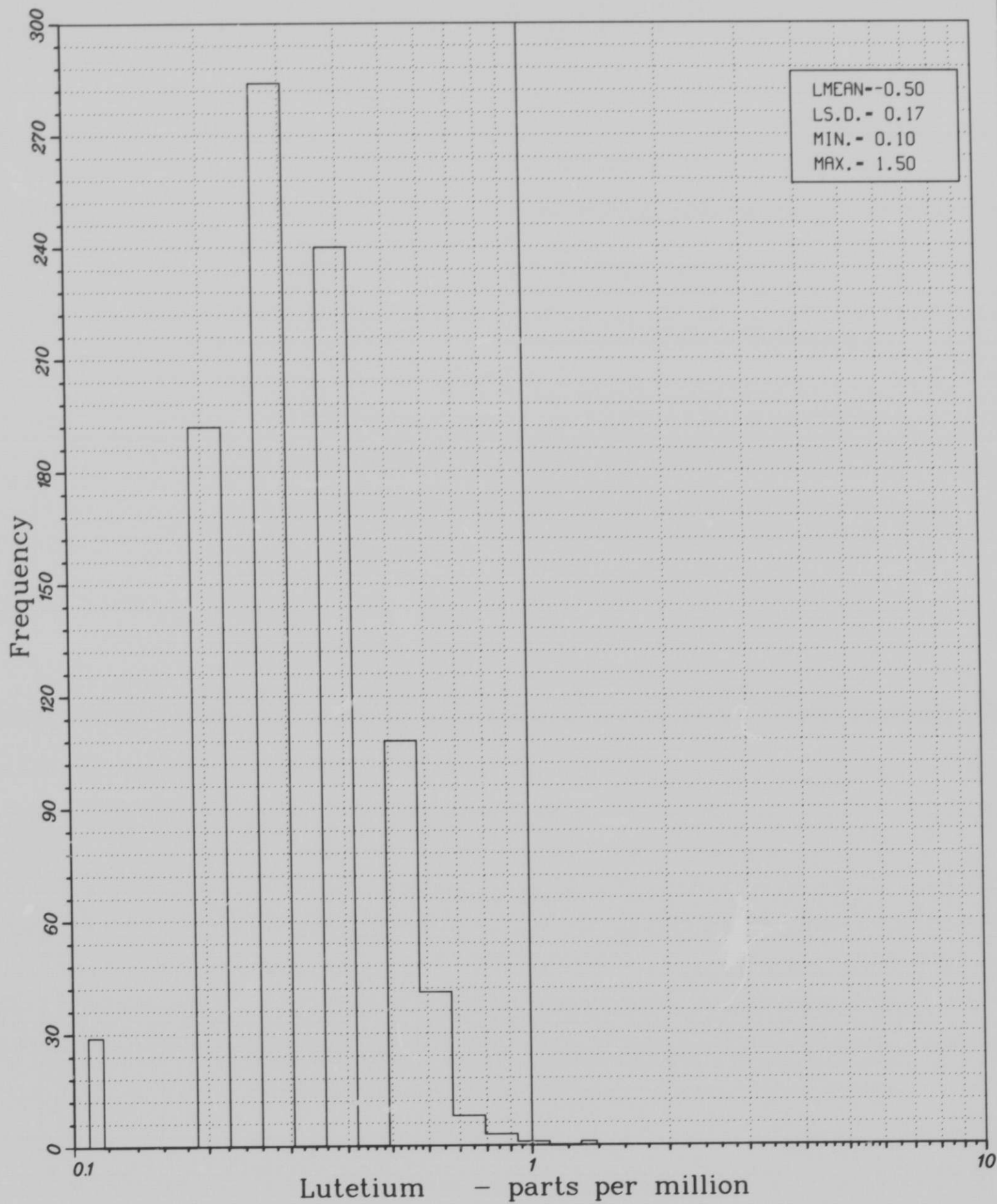
Ytterbium concentration - p.p.m.				
+ < 0.6	○ 1.1- 1.2	○ 1.8- 2.1	⊙ 2.9- 3.4	● 4.3- 5.2
x 0.6- 0.8	○ 1.2- 1.5	○ 2.1- 2.4	⊙ 3.4- 3.8	◆ 5.2- 7.6
• 0.8- 1.1	○ 1.5- 1.8	⊙ 2.4- 2.9	⊙ 3.8- 4.3	★ > 7.6



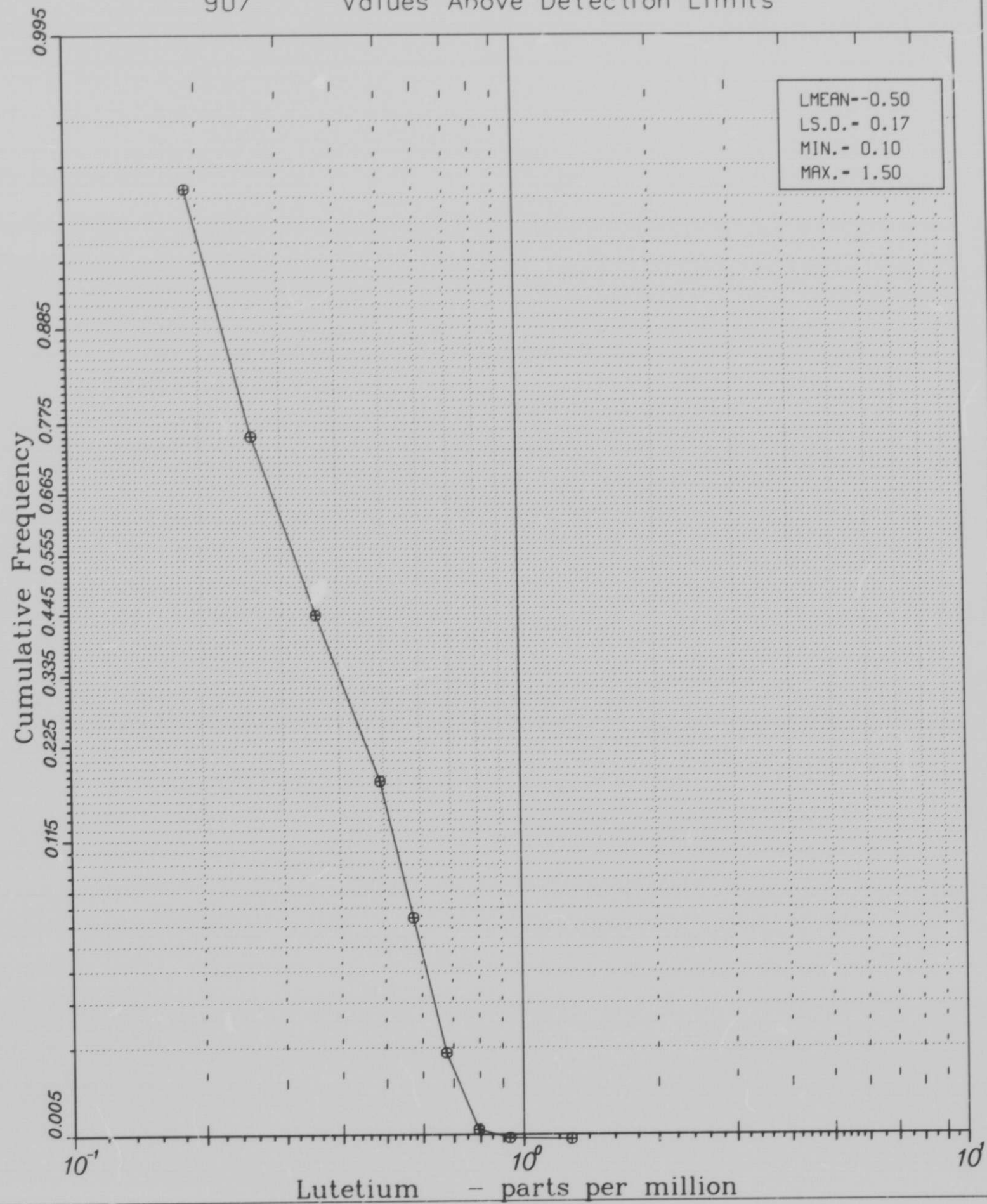
GRAND CANYON 1'x2' Sheet

Log Histogram Lutetium Values Surface Site

907 Values Above Detection Limits



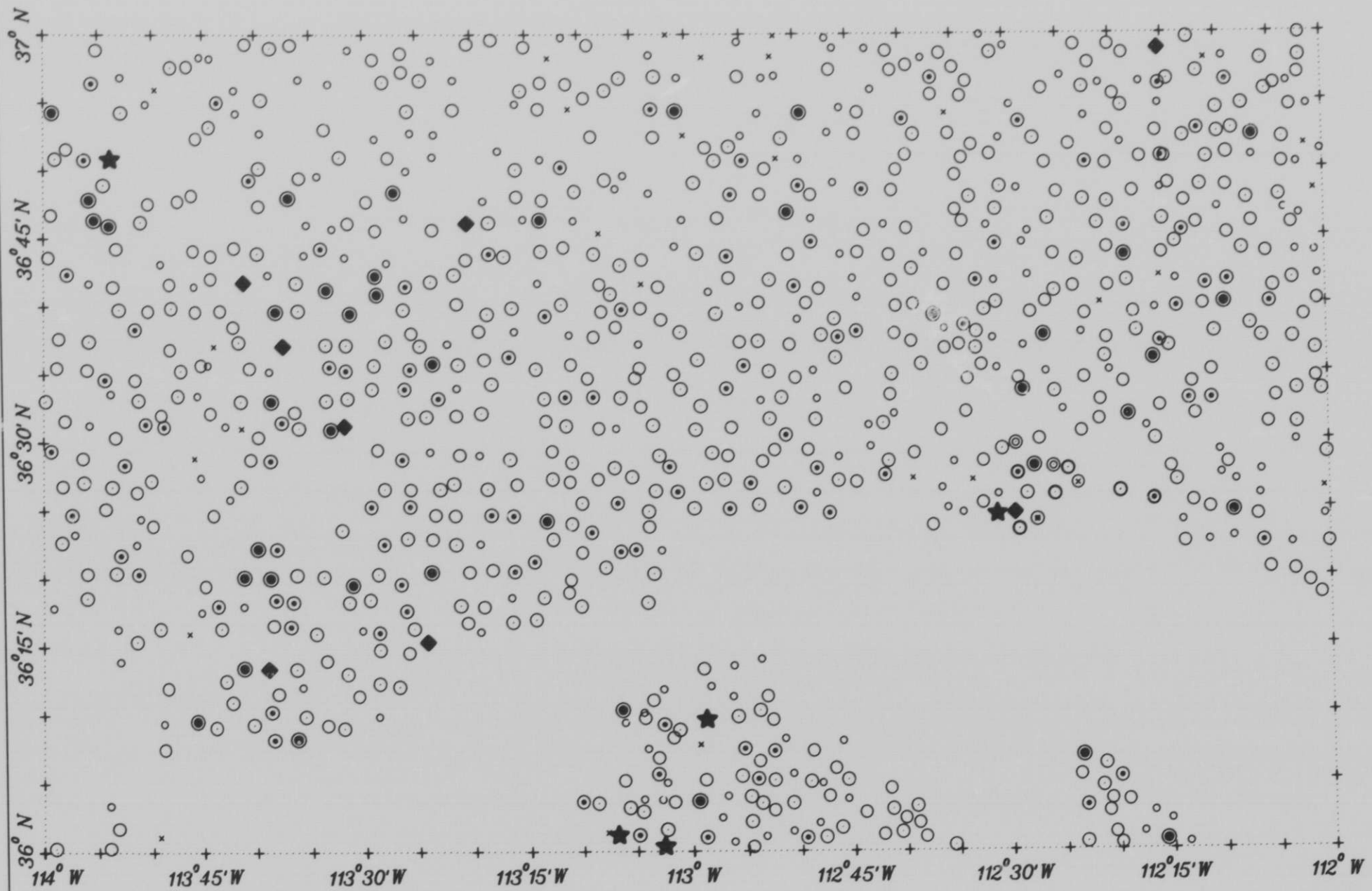
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Lutetium Values - Surface Sites
907 Values Above Detection Limits



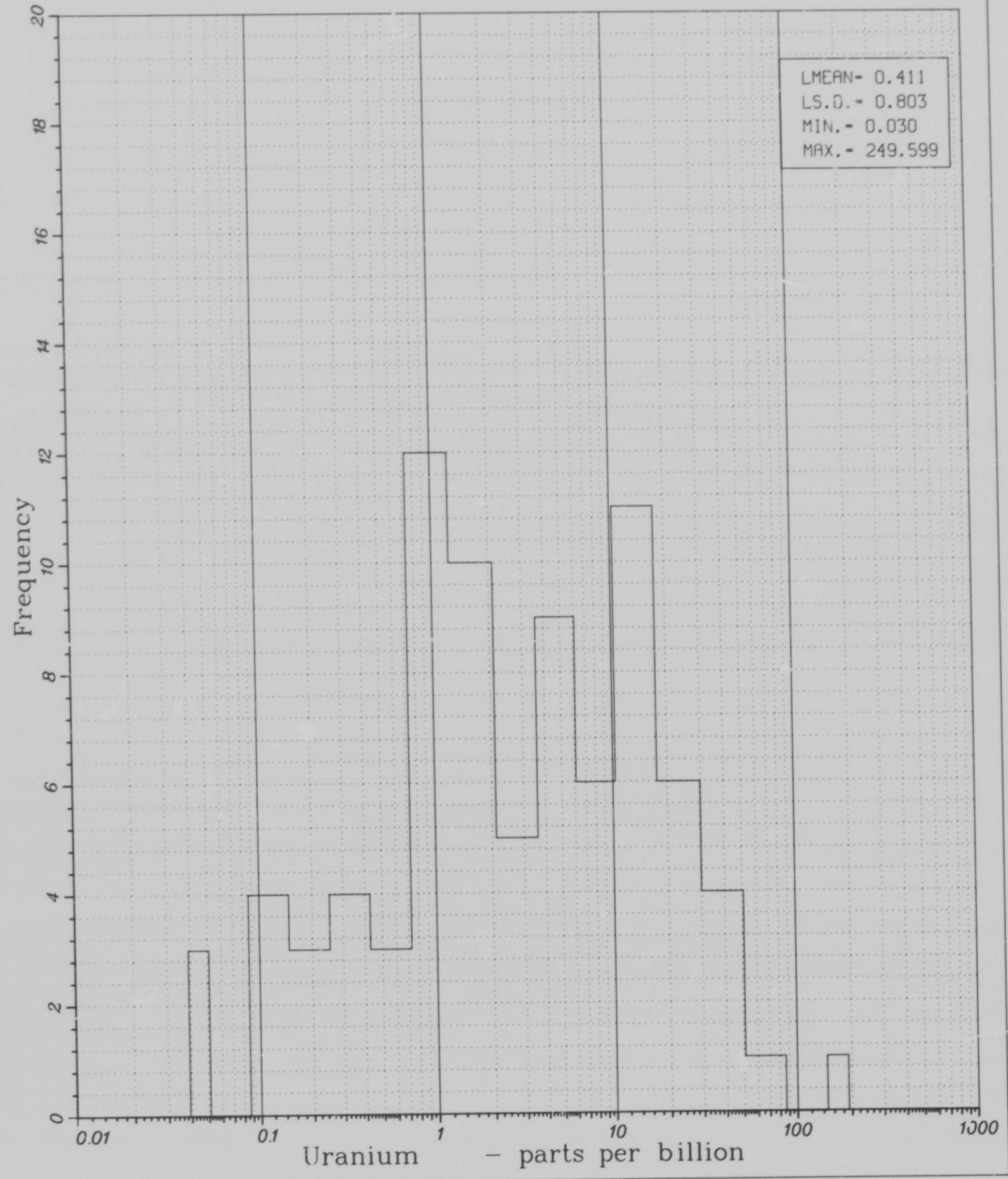
GRAND CANYON 1x2' Sheet
 Lutetium In Sediments
 907 Values Above D.L.

Lutetium concentration - p.p

+ < 0.1	o 0.2- 0.2	○ 0.3- 0.3	⊙ 0.4- 0.5	● 0.6- 0.6
x 0.1- 0.1	o 0.2- 0.2	○ 0.3- 0.4	⊙ 0.5- 0.5	◆ 0.6- 0.7
• 0.1- 0.2	○ 0.2- 0.3	⊙ 0.4- 0.4	⊙ 0.5- 0.6	★ > 0.7

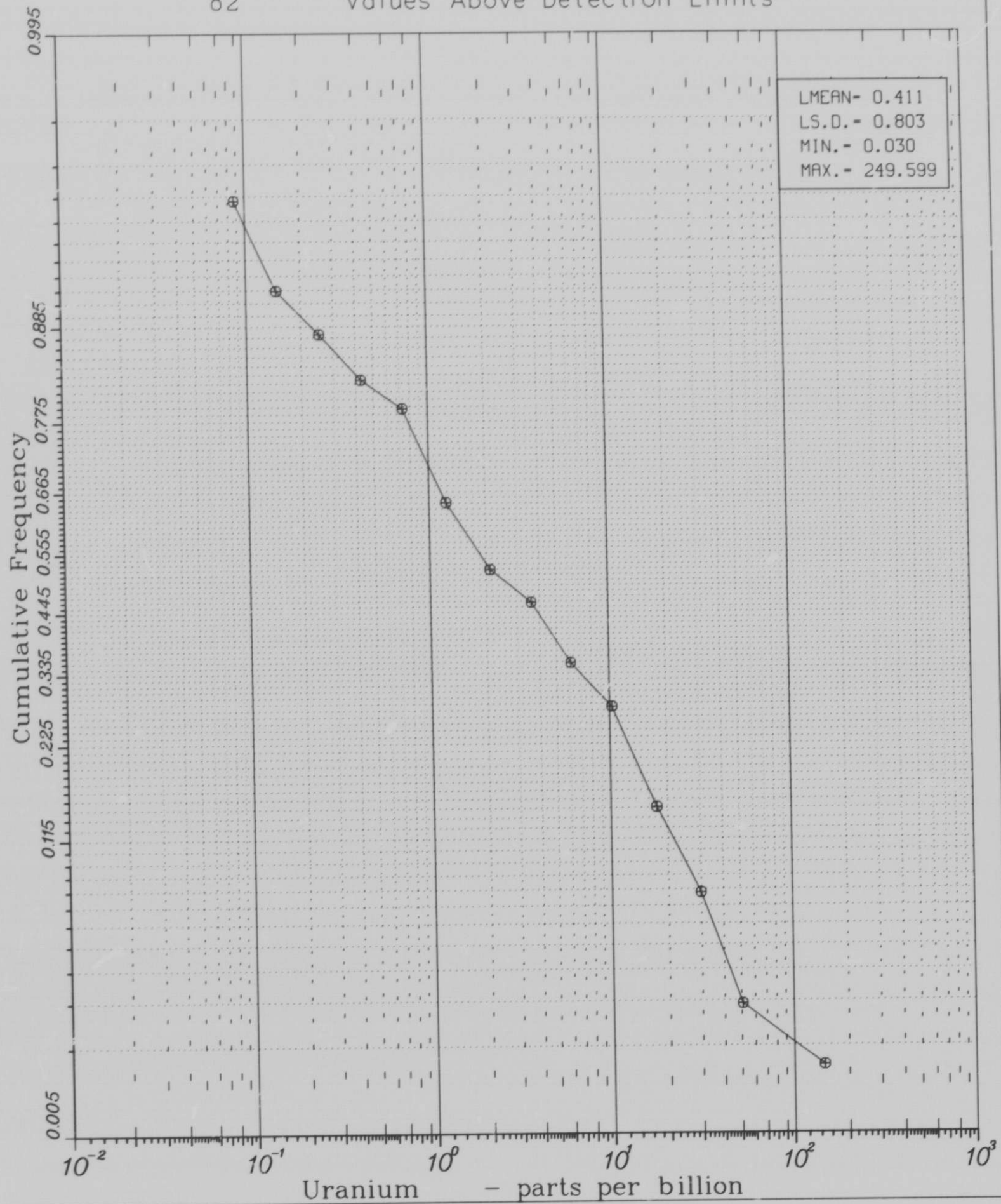


Log Histogram
 82
 GRAND CANYON 1'x2' Sheet
 Uranium Values - Ground Water Sites
 Values Above Detection Limits



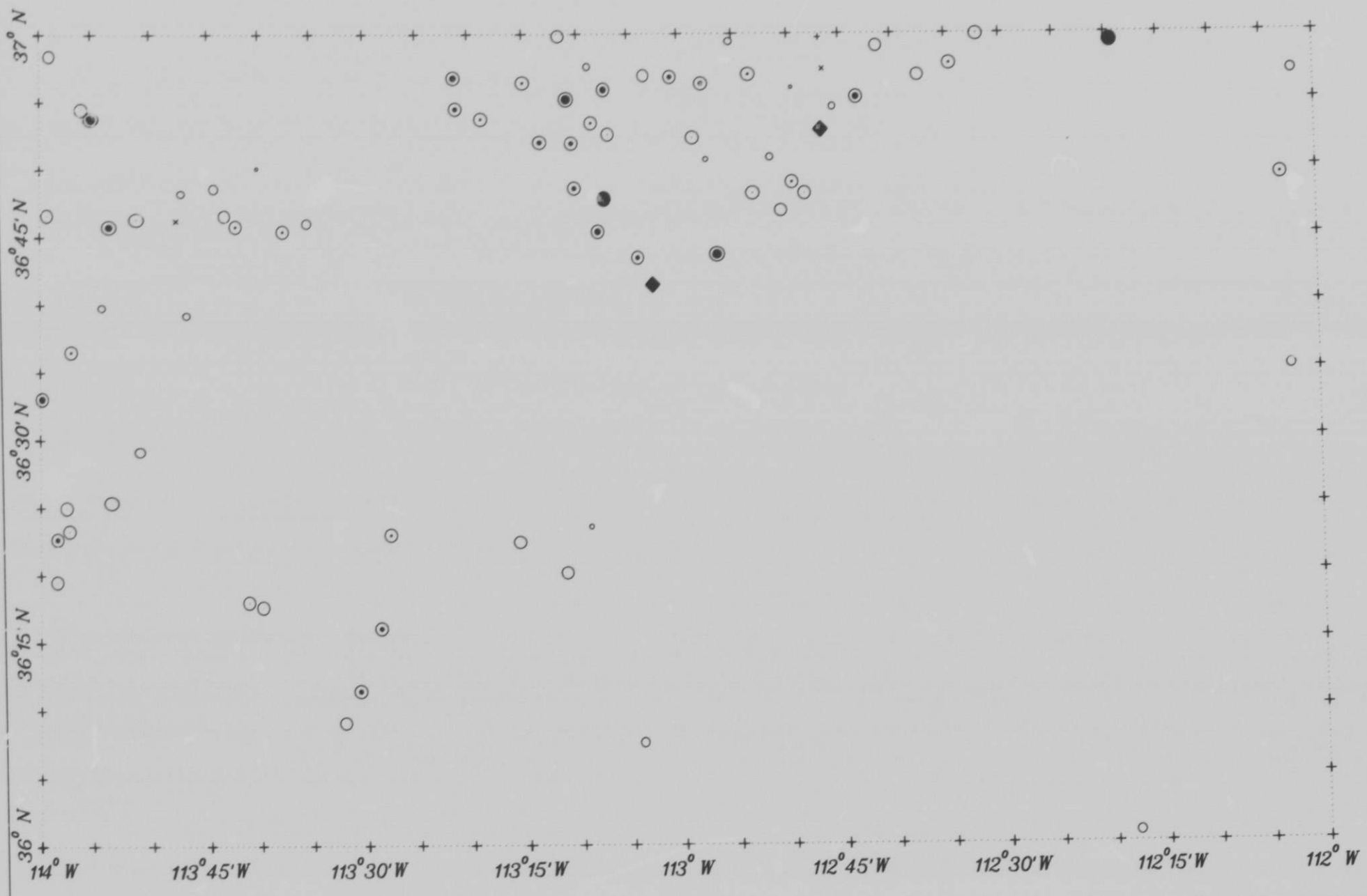
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Uranium Values - Ground Water Sites

82 Values Above Detection Limits

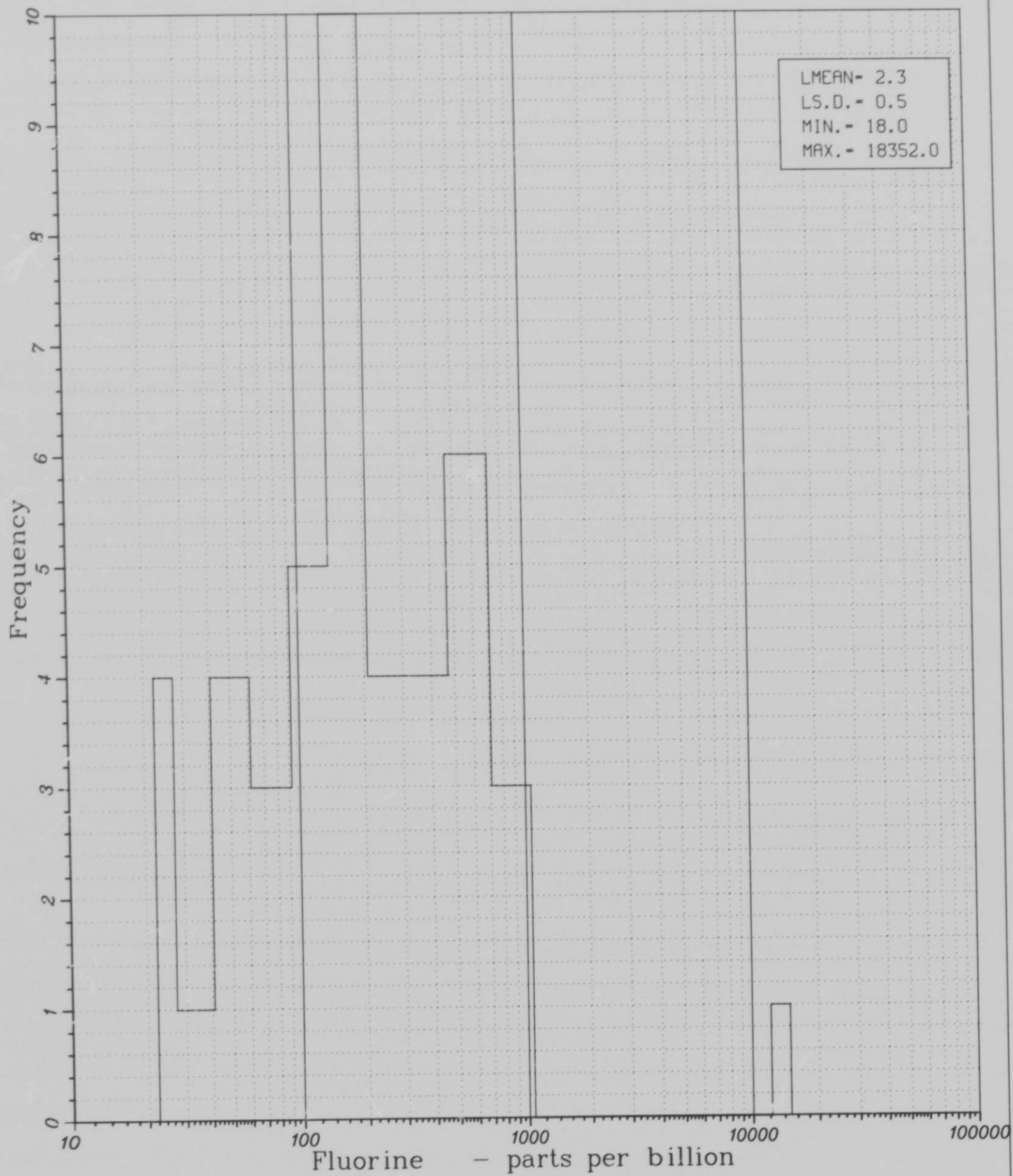


GRAND CANYON 1x2° Sheet
 Uranium In Ground Water
 82 Values Above D.L.

Uranium concentration - p.p.b.					
+ < 0.030	○ 0.089- 0.133	○ 1.016- 1.585	⊙ 9.038- 15.874	● 32.040- 47.270	
× 0.030- 0.037	○ 0.133- 0.407	○ 1.585- 3.968	⊙ 15.874- 25.700	◆ 47.270- 249.600	
• 0.037- 0.089	○ 0.407- 1.016	○ 3.968- 9.038	⊙ 25.700- 32.040	★ > 249.600	



GRAND CANYON 1x2 Sheet
Log Histogram Fluorine Values - Ground Water Sites
45 Values Above Detection Limits



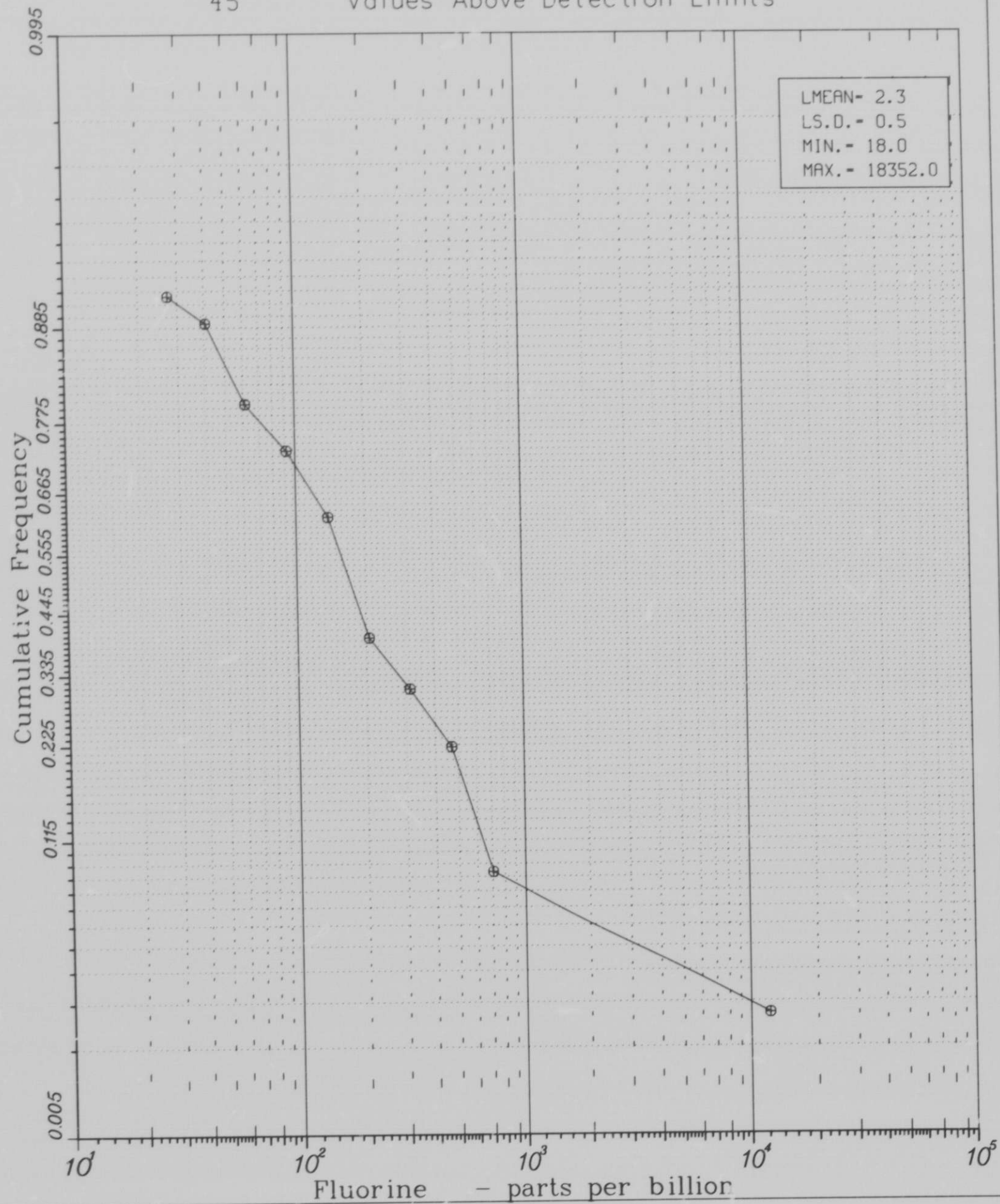
GRAND CANYON 1°x2° Sheet

Log Cumulative Frequency Plot

Fluorine Values - Ground Water Sites

45

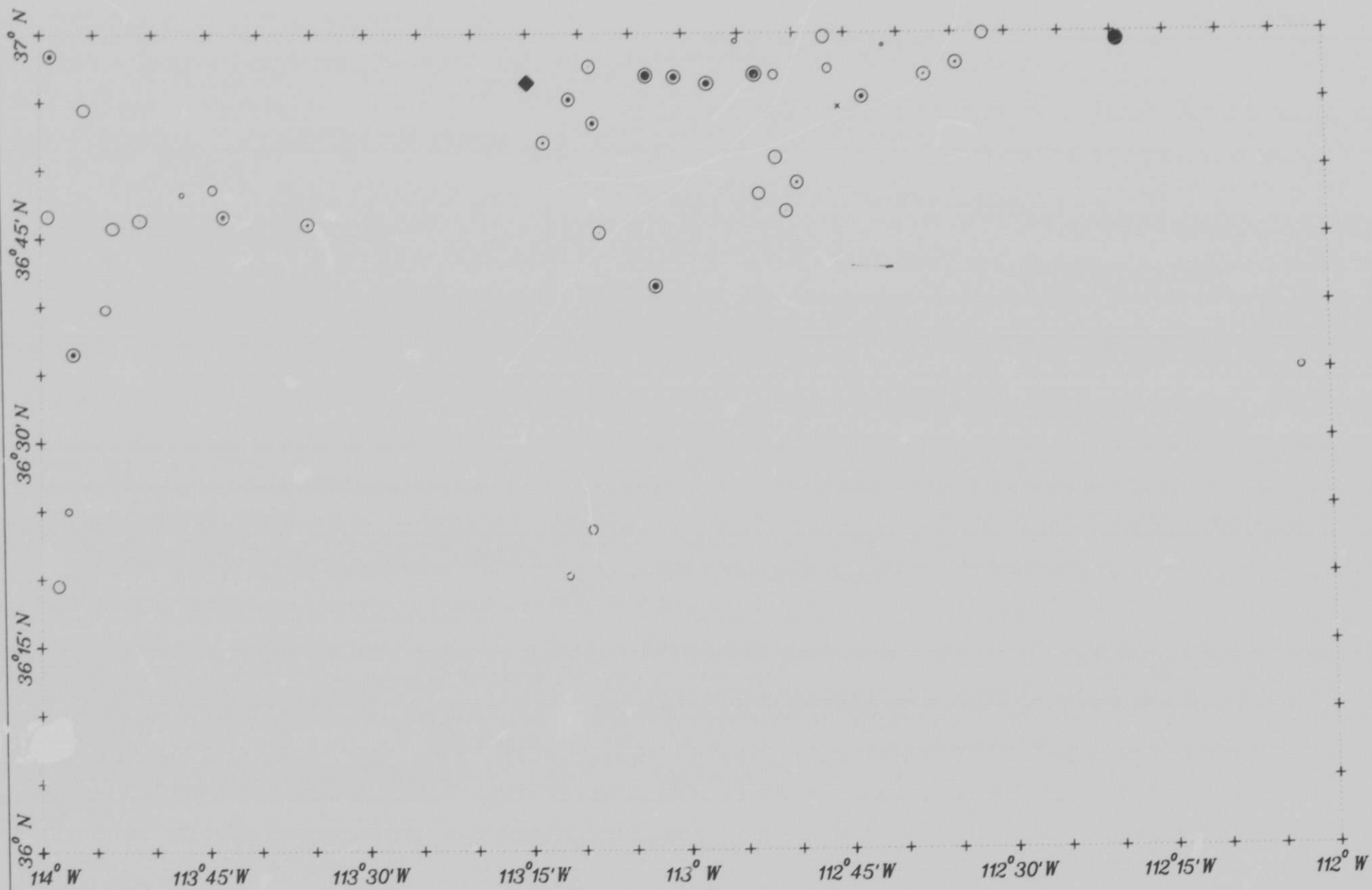
Values Above Detection Limits



GRAND CANYON 1°x2° Sheet
 Fluorine In Ground Water
 45 Values Above D.L.

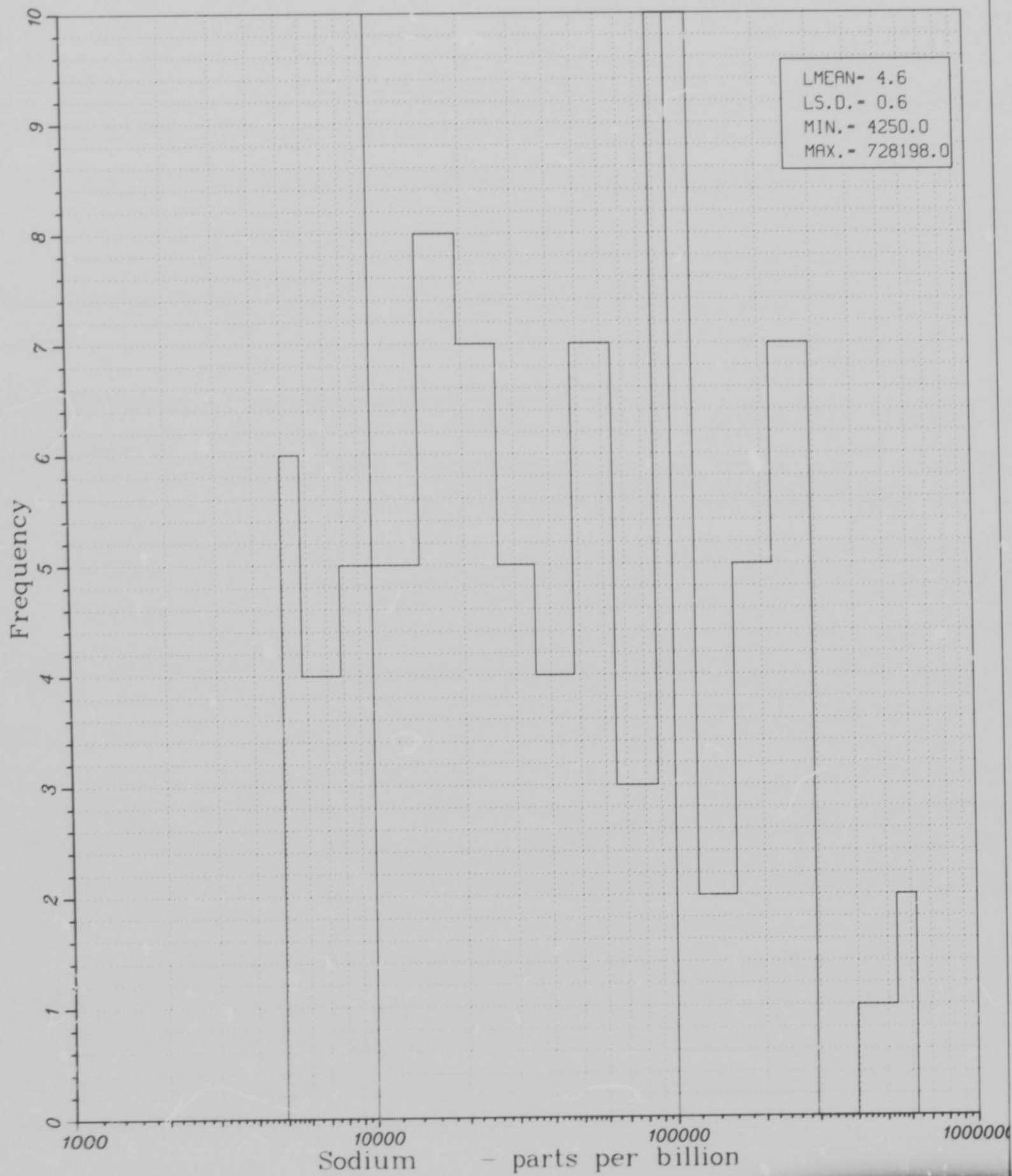
Fluorine concentration - p.p.b.

+ < 18.0	○ 21.0- 25.0	○ 108.0- 148.0	⊙ 394.0- 539.0	● 874.0- 1005.0
x 18.0- 18.0	○ 25.0- 56.0	○ 148.0- 195.0	⊙ 539.0- 641.0	◆ 1005.0- 18352.0
• 18.0- 21.0	○ 56.0- 108.0	⊙ 195.0- 394.0	⊙ 641.0- 874.0	★ > 18352.0

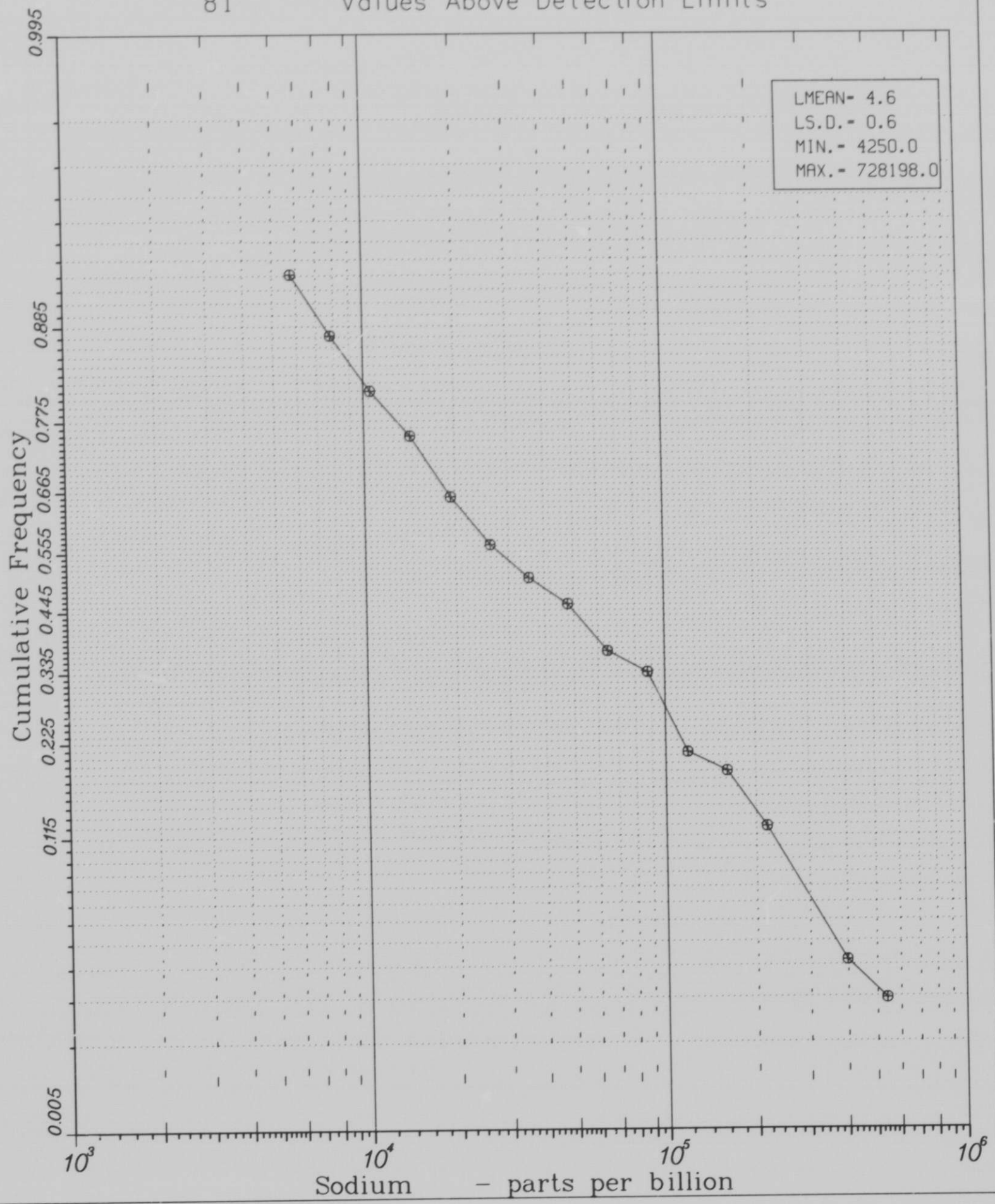


Log Histogram
81

GRAND CANYON 1'x2' Sheet
Sodium Values - Ground Water Sites
Values Above Detection Limits



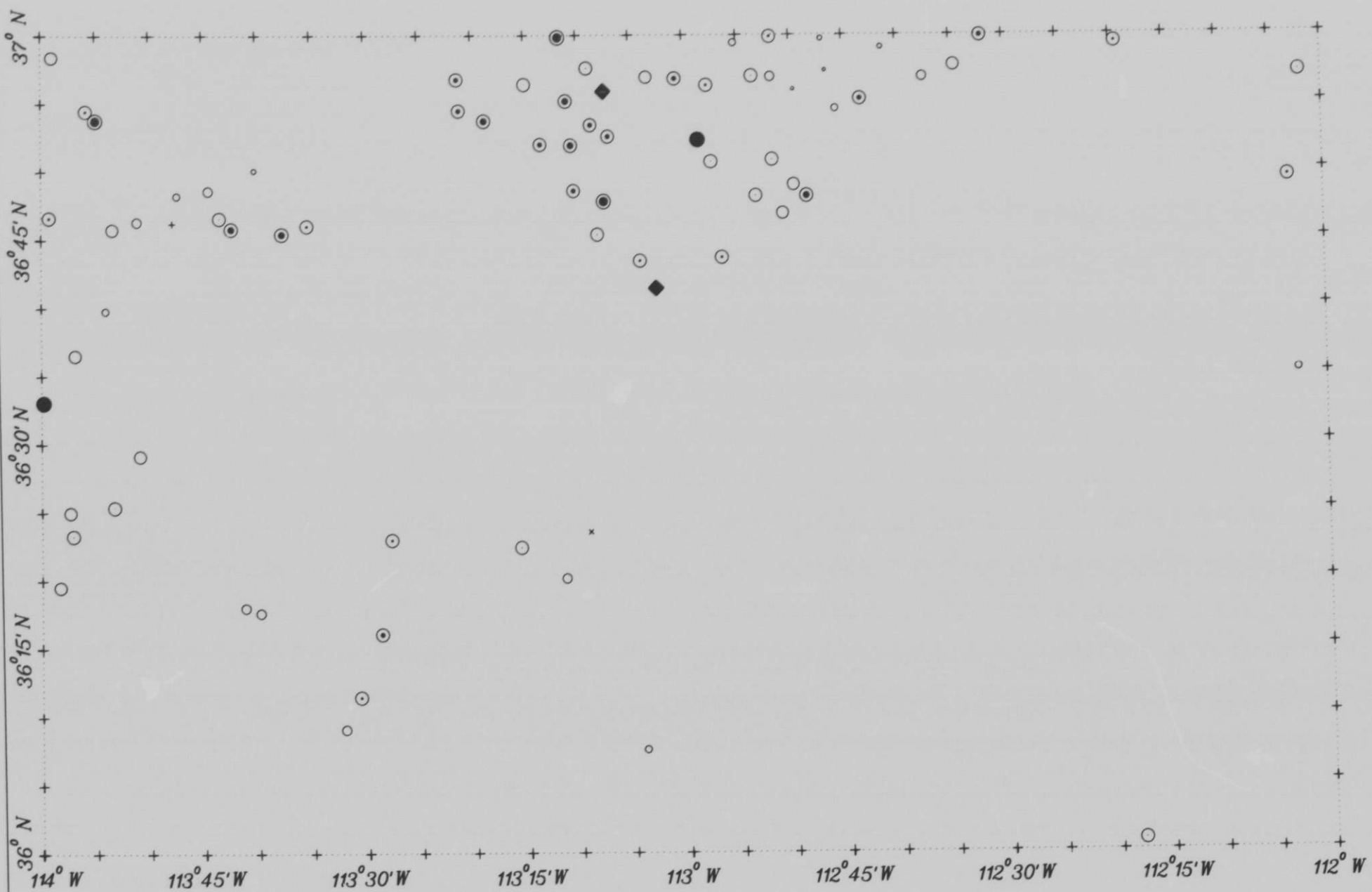
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Sodium Values - Ground Water Sites
81 Values Above Detection Limits



GRAND CANYON 1'x2' Sheet
 Sodium In Ground Water
 81 Values Above D.L.

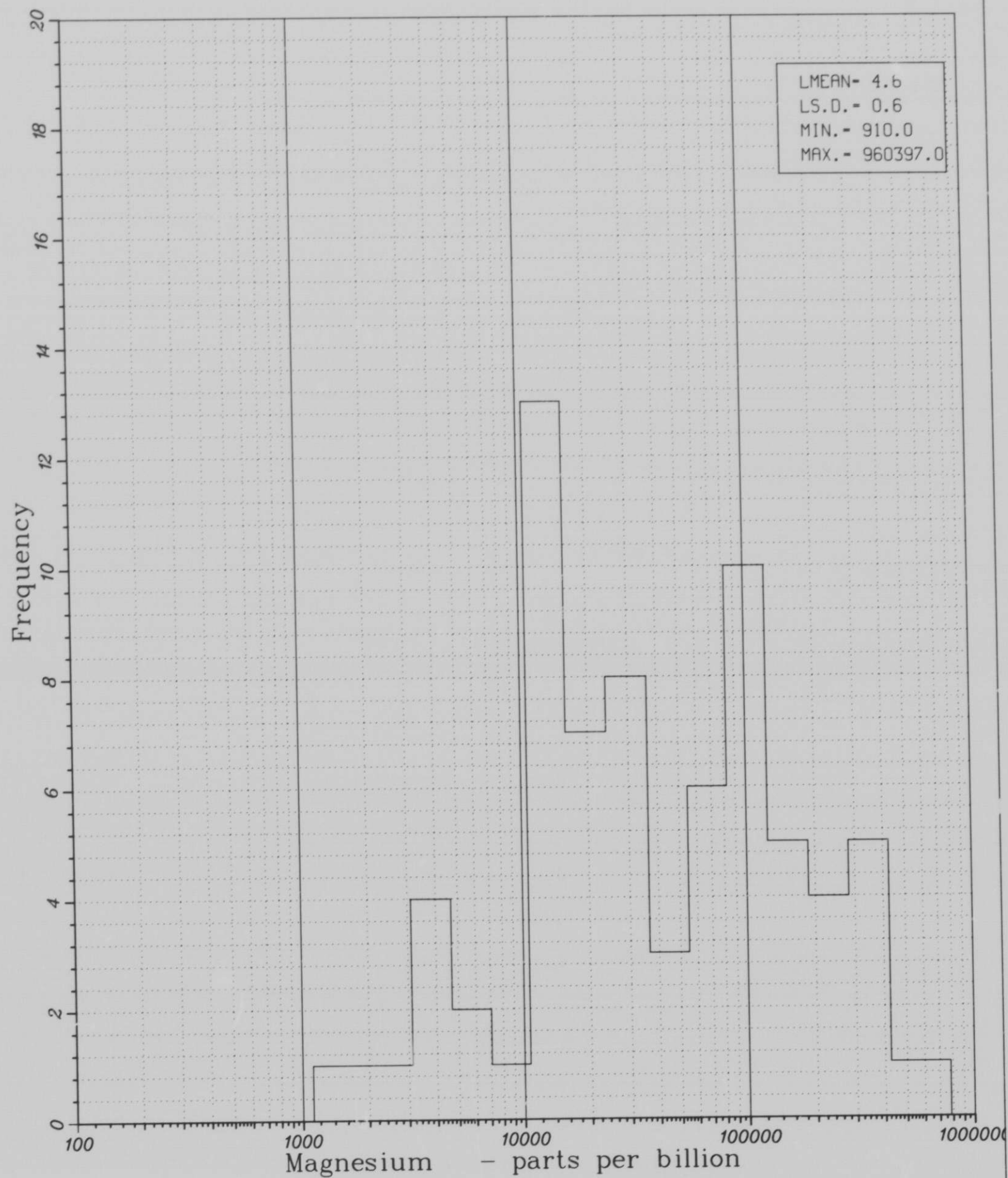
Sodium concentration - p.p.b.

- | | | | | |
|------------------|-------------------|---------------------|----------------------|----------------------|
| + < 4250.0 | ○ 5150.0- 5790.0 | ○ 16410.0- 25000.0 | ⊙ 101380.0- 174120.0 | ● 247200.0- 484400.0 |
| × 4250.0- 4640.0 | ○ 5790.0- 9680.0 | ○ 25000.0- 50350.0 | ⊙ 174120.0- 232400.0 | ◆ 484400.0- 728200.0 |
| • 4640.0- 5150.0 | ○ 9680.0- 16410.0 | ⊙ 50350.0- 101380.0 | ⊙ 232400.0- 247200.0 | ★ > 728200.0 |



Log Histogram
73

GRAND CANYON 1'x2' Sheet
Magnesium Values - Ground Water Sites
Values Above Detection Limits

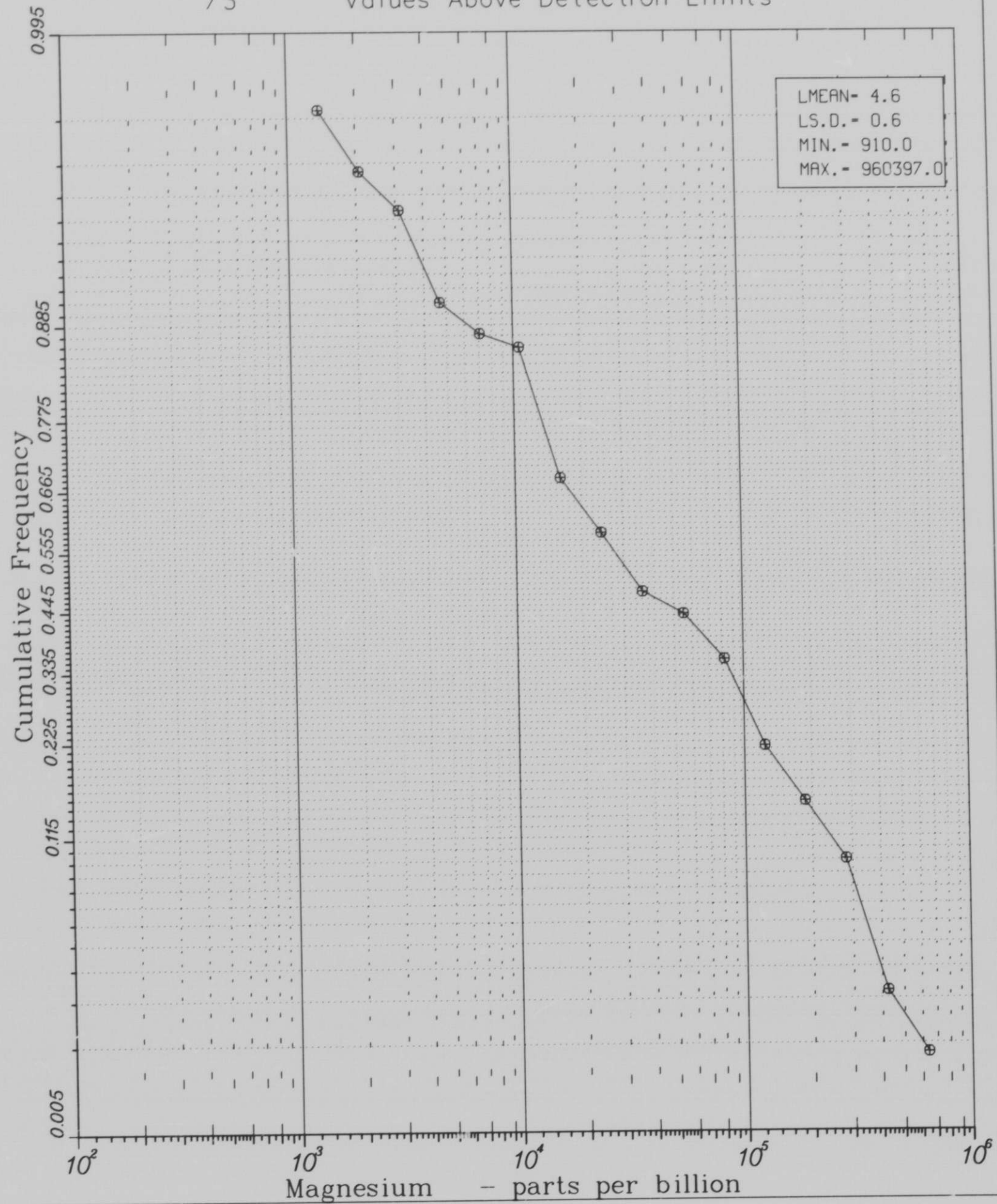


GRAND CANYON 1°x2° Sheet

Log Cumulative Frequency Plot

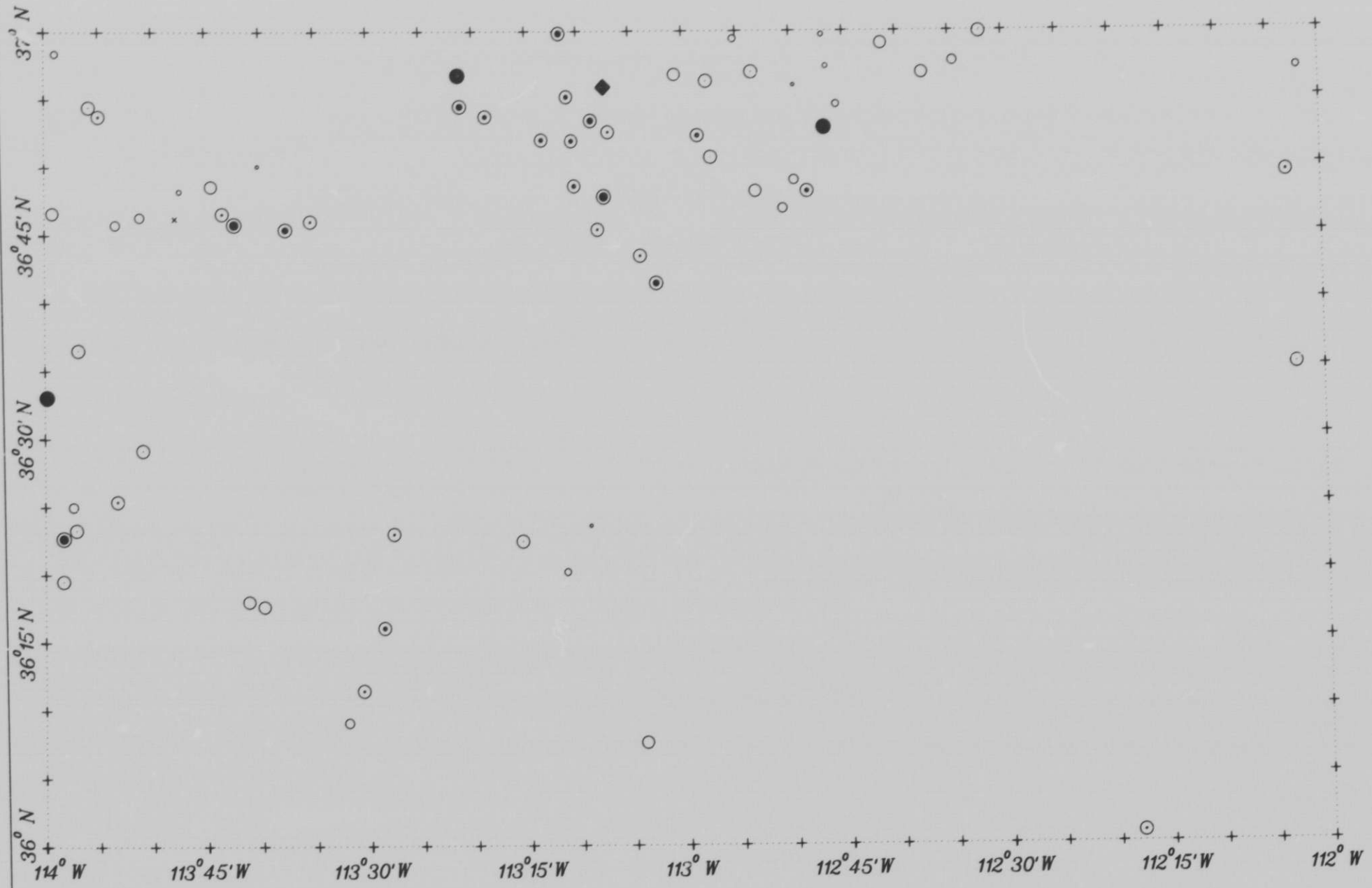
Magnesium Values - Ground Water Sites

73 Values Above Detection Limits



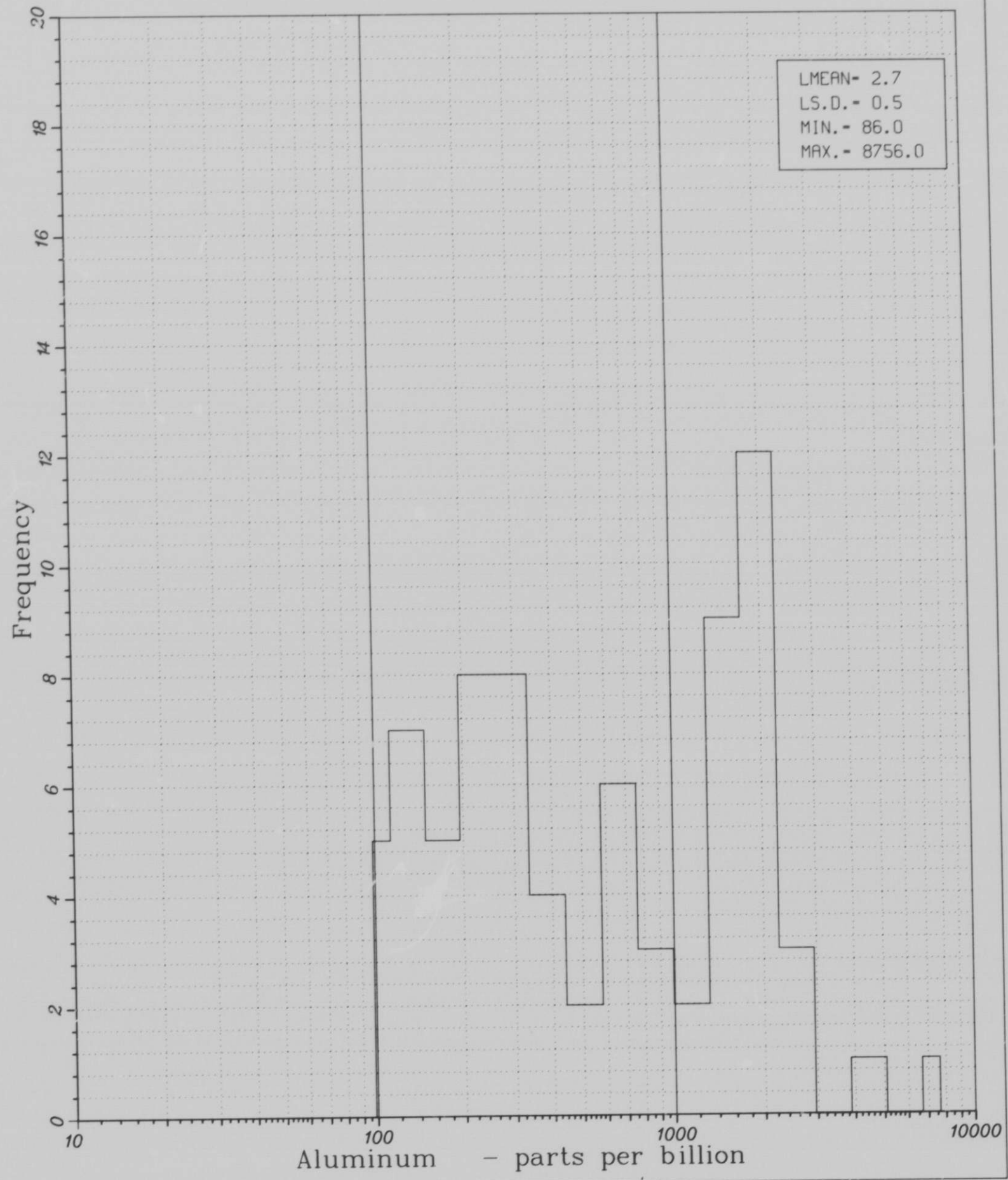
GRAND CANYON 1'x2' Sheet
Magnesium In Ground Water
 73 Values Above D.L.

Magnesium concentration - p.p.b.						
+ < 910.0	○ 3220.0- 4400.0	○ 14970.0- 24630.0	⊙ 109040.0- 159700	● 316400.0- 442200.0		
x 910.0- 910.0	○ 4400.0- 11200.0	○ 24630.0- 56800.0	⊙ 159700.0- 254400	● 442200.0- 960400.0		
○ 910.0- 3220.0	○ 11200.0- 14970.0	⊙ 56800.0- 109040	⊙ 254400.0- 316400	★ > 960400.0		

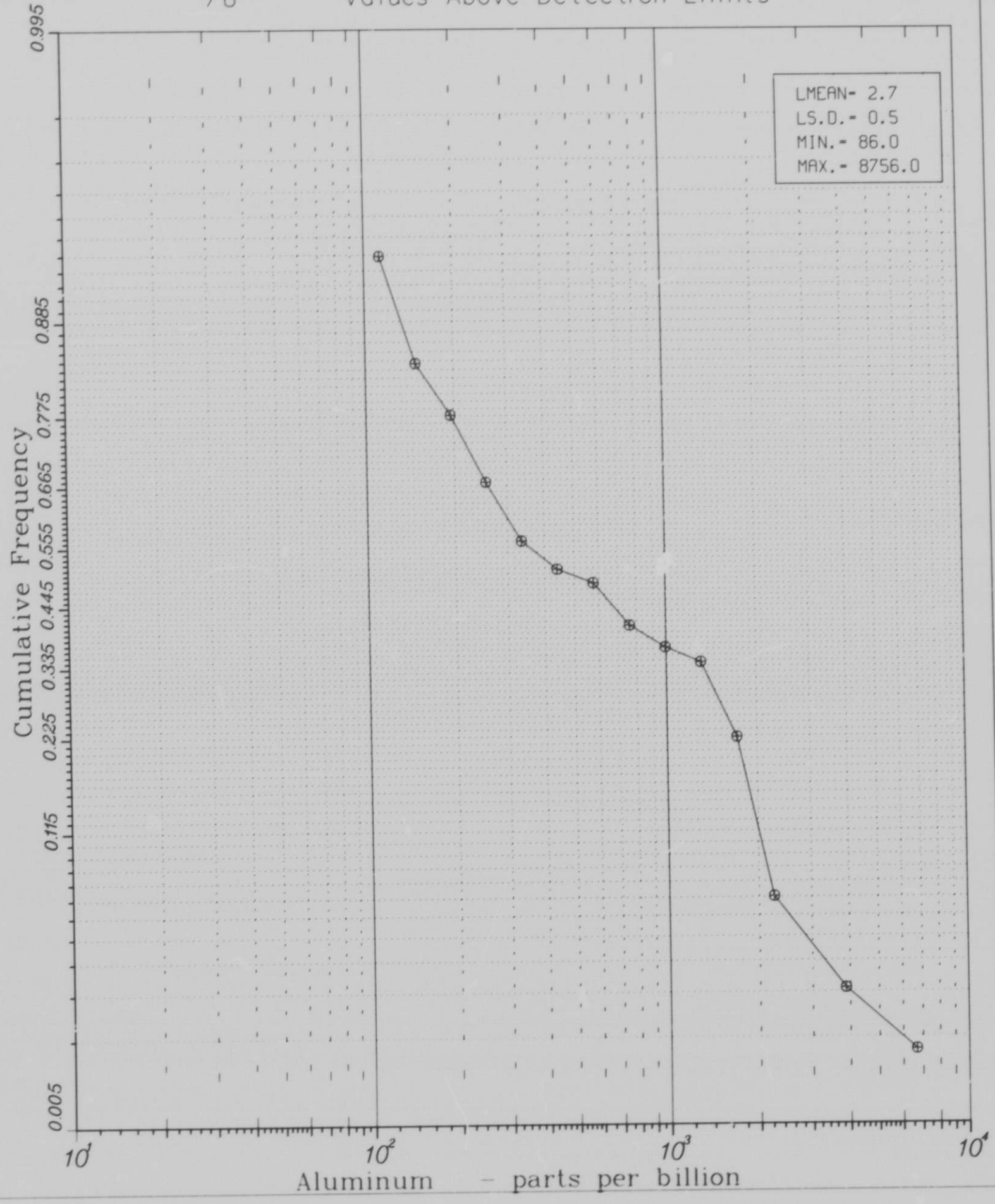


Log Histogram
76

GRAND CANYON 1'x2' Sheet
Aluminum Values - Ground Water Sites
Values Above Detection Limits



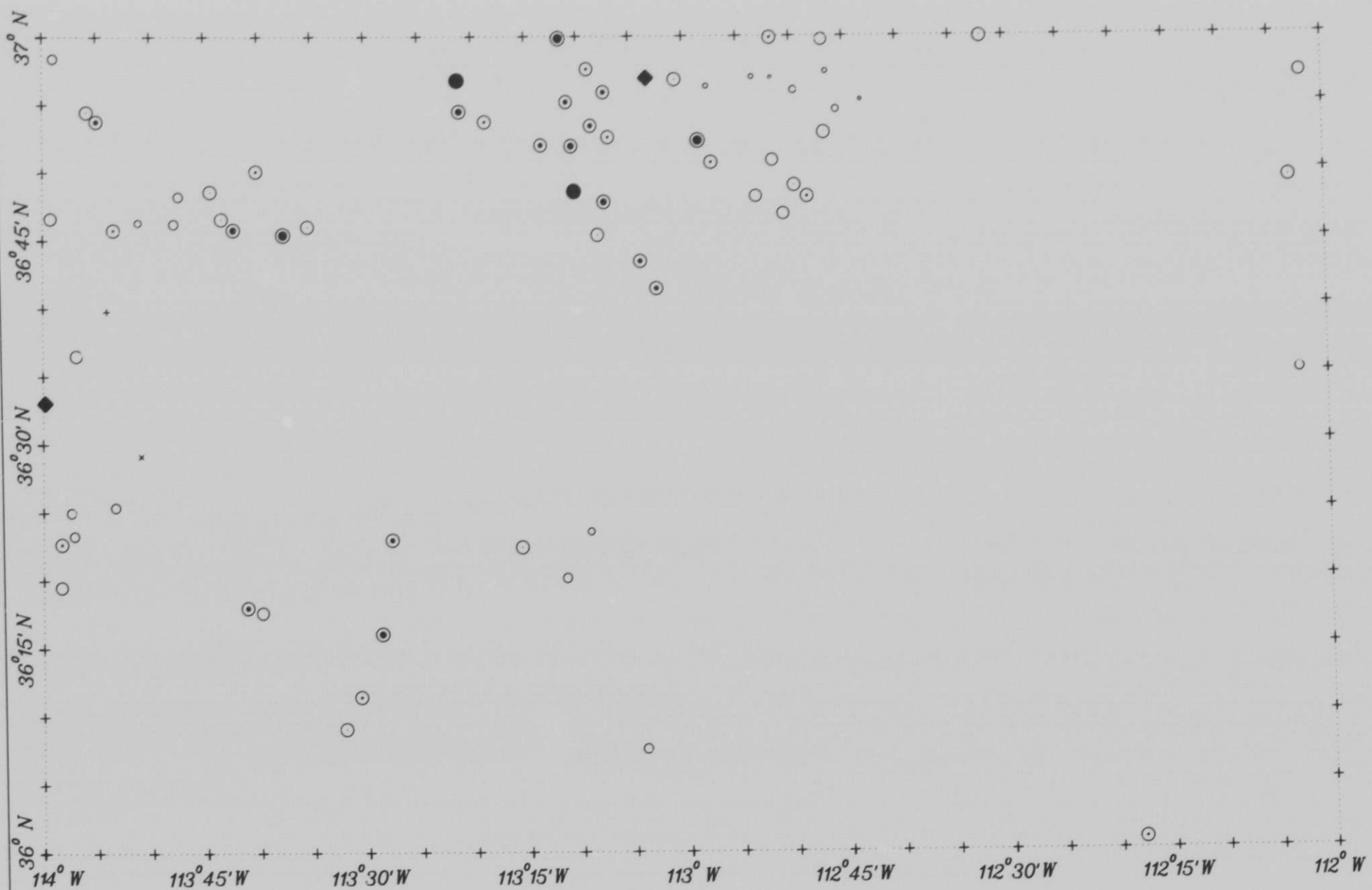
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Aluminum Values - Ground Water Sites
76 Values Above Detection Limits



GRAND CANYON 1'x2' Sheet
Aluminum In Ground Water
76 Values Above D.L.

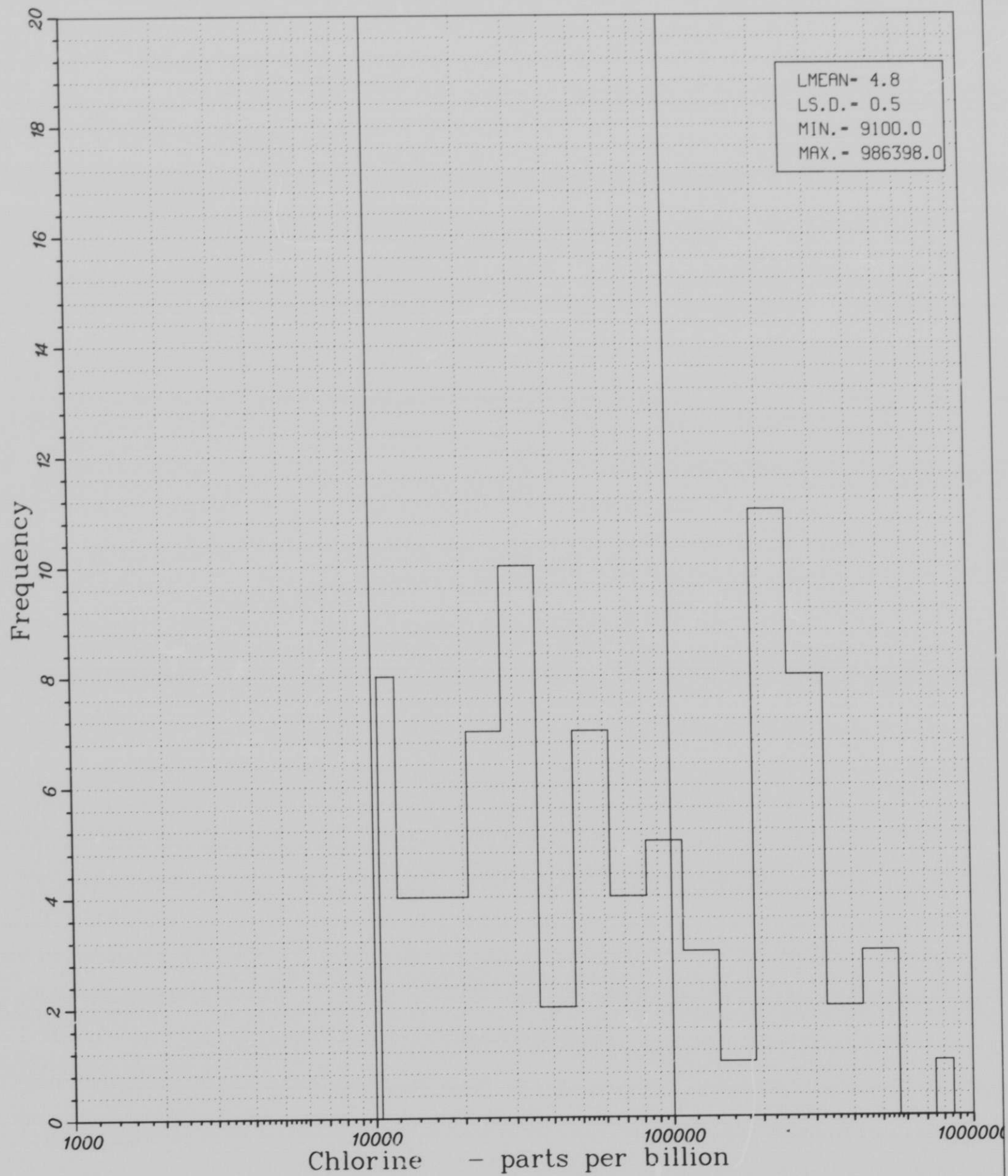
Aluminum concentration - p.p.b.

+ < 86.0	o 103.0- 117.0	○ 212.0- 295.0	⊙ 1472.0- 1926.0	● 2368.0- 2610.0
x 86.0- 100.0	o 117.0- 143.0	○ 295.0- 643.0	⊙ 1926.0- 2066.0	◆ 2610.0- 8756.0
• 100.0- 103.0	○ 143.0- 212.0	⊙ 643.0- 1472.0	⊙ 2066.0- 2368.0	★ > 8756.0

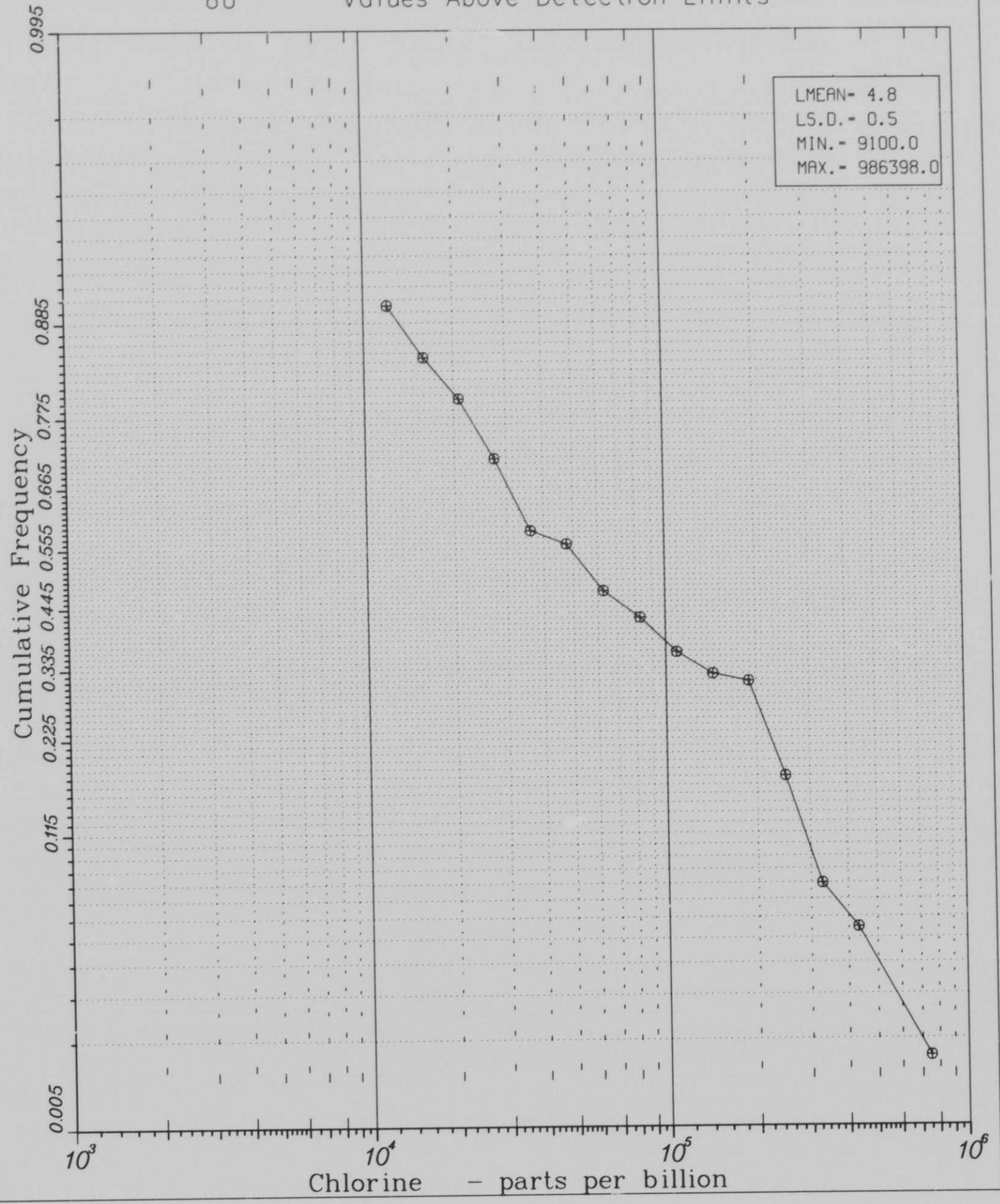


Log Histogram
80

GRAND CANYON 1'x2' Sheet
Chlorine Values - Ground Water Sites
Values Above Detection Limits



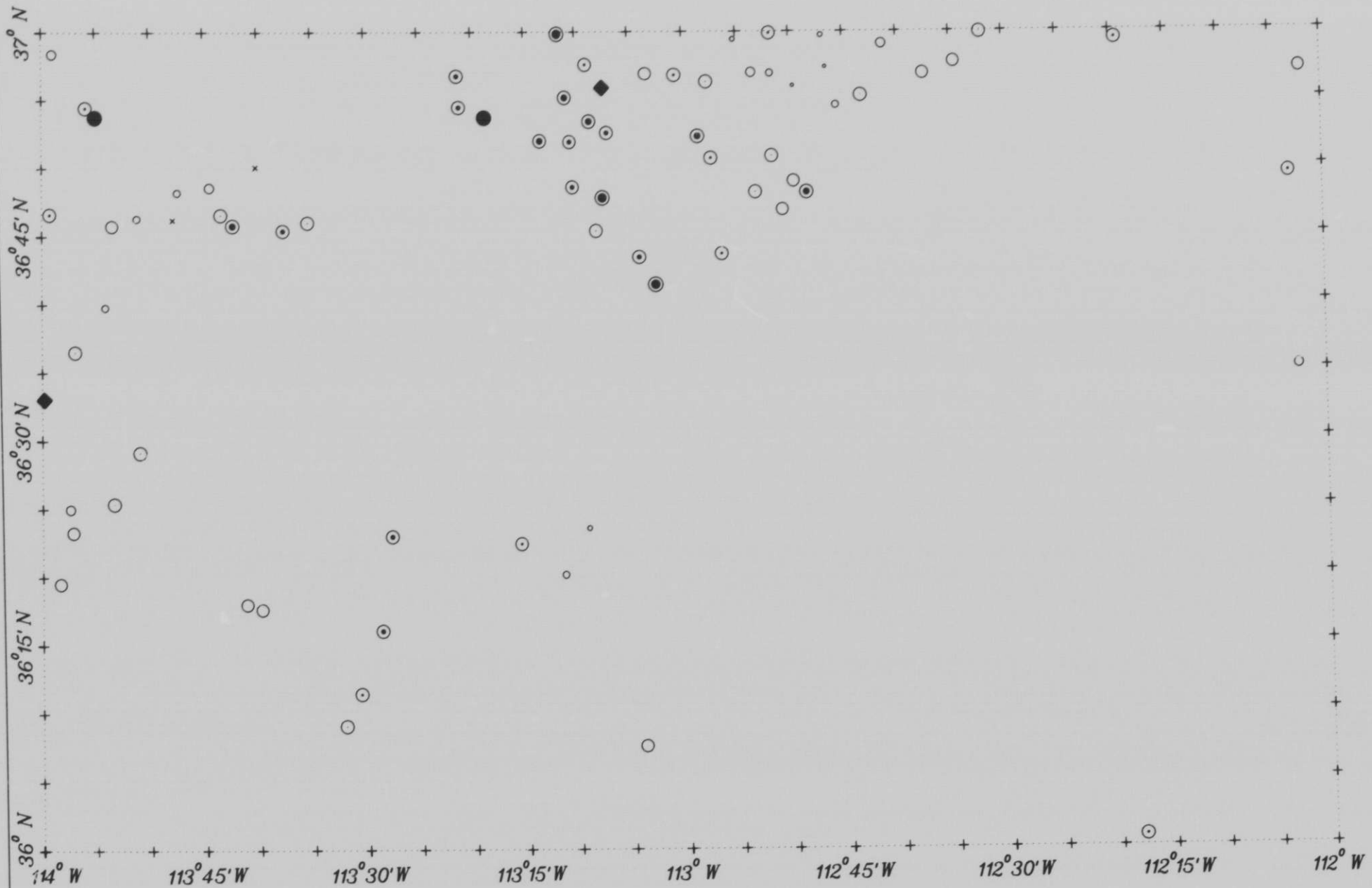
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Chlorine Values - Ground Water Sites
80 Values Above Detection Limits



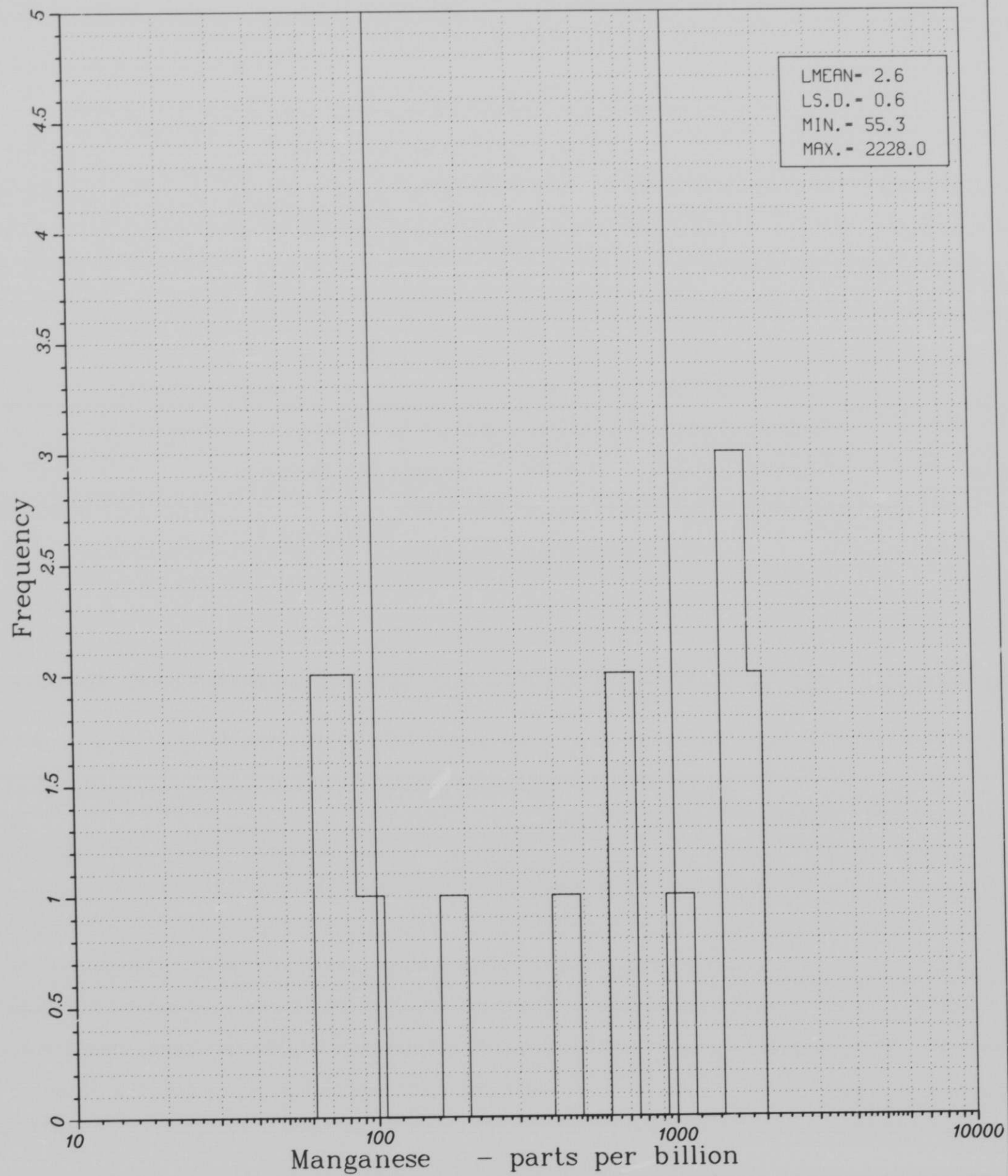
GRAND CANYON 1'x2' Sheet
 Chlorine In Ground Water
 80 Values Above D.L.

Chlorine concentration - p.p.b.

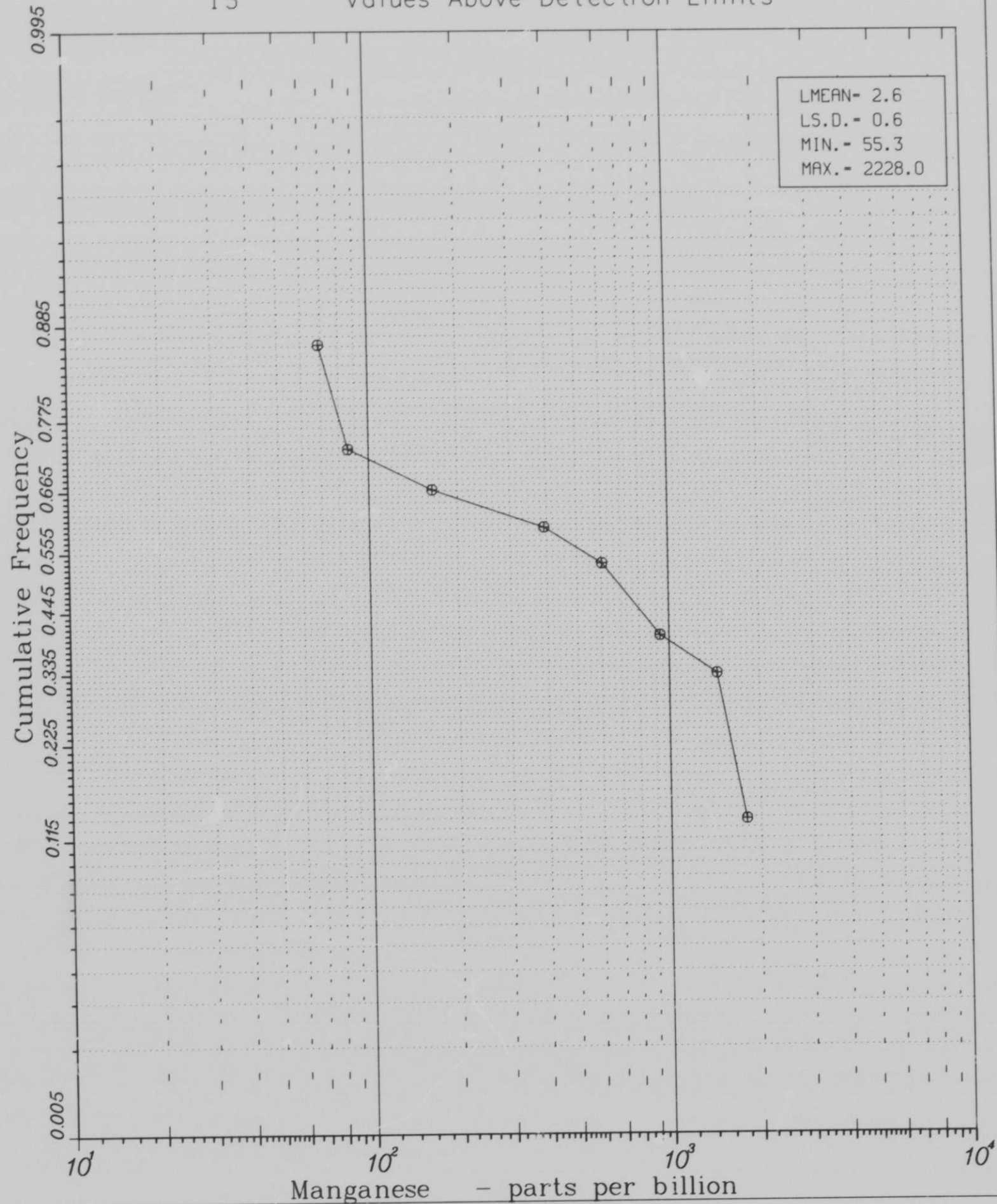
- | | | | | |
|------------------|--------------------|---------------------|----------------------|----------------------|
| + < 9100.0 | ○ 9500.0- 10700.0 | ○ 25000.0- 39400.0 | ⊙ 212600.0- 255800.0 | ● 386200.0- 529000.0 |
| x 9100.0- 9100.0 | ○ 10700.0- 16600.0 | ○ 39400.0- 81100.0 | ⊙ 255800.0- 314200.0 | ● 529000.0- 986400.0 |
| • 9100.0- 9500.0 | ○ 16600.0- 25000.0 | ⊙ 81100.0- 212600.0 | ● 314200.0- 386200.0 | ★ > 986400.0 |



GRAND CANYON 1'x2' Sheet
Log Histogram Manganese Values - Ground Water Sites
15 Values Above Detection Limits



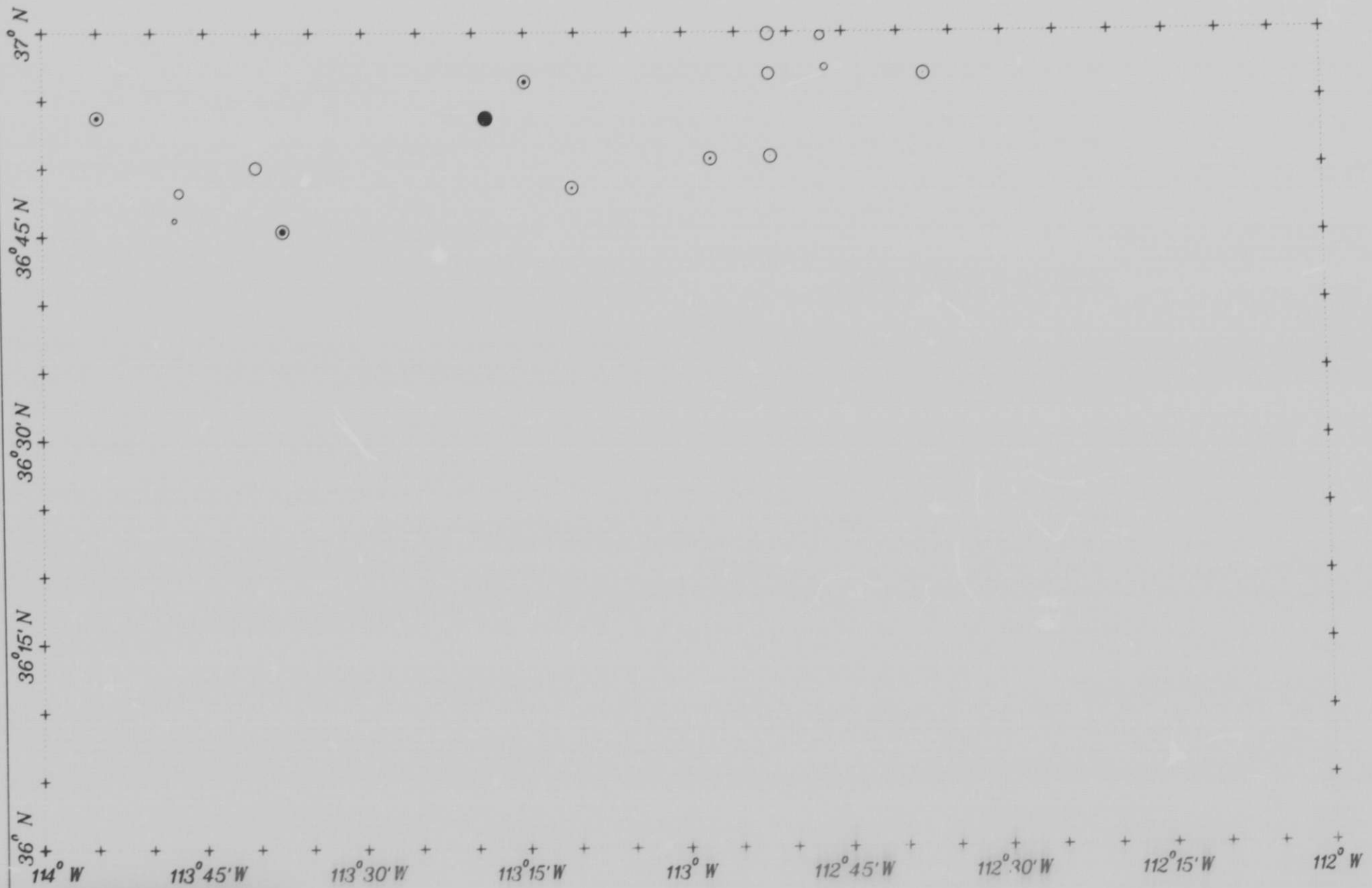
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Manganese Values - Ground Water Sites
15 Values Above Detection Limits



GRAND CANYON 1'x2' Sheet
Manganese In Ground Water
15 Values Above D.L.

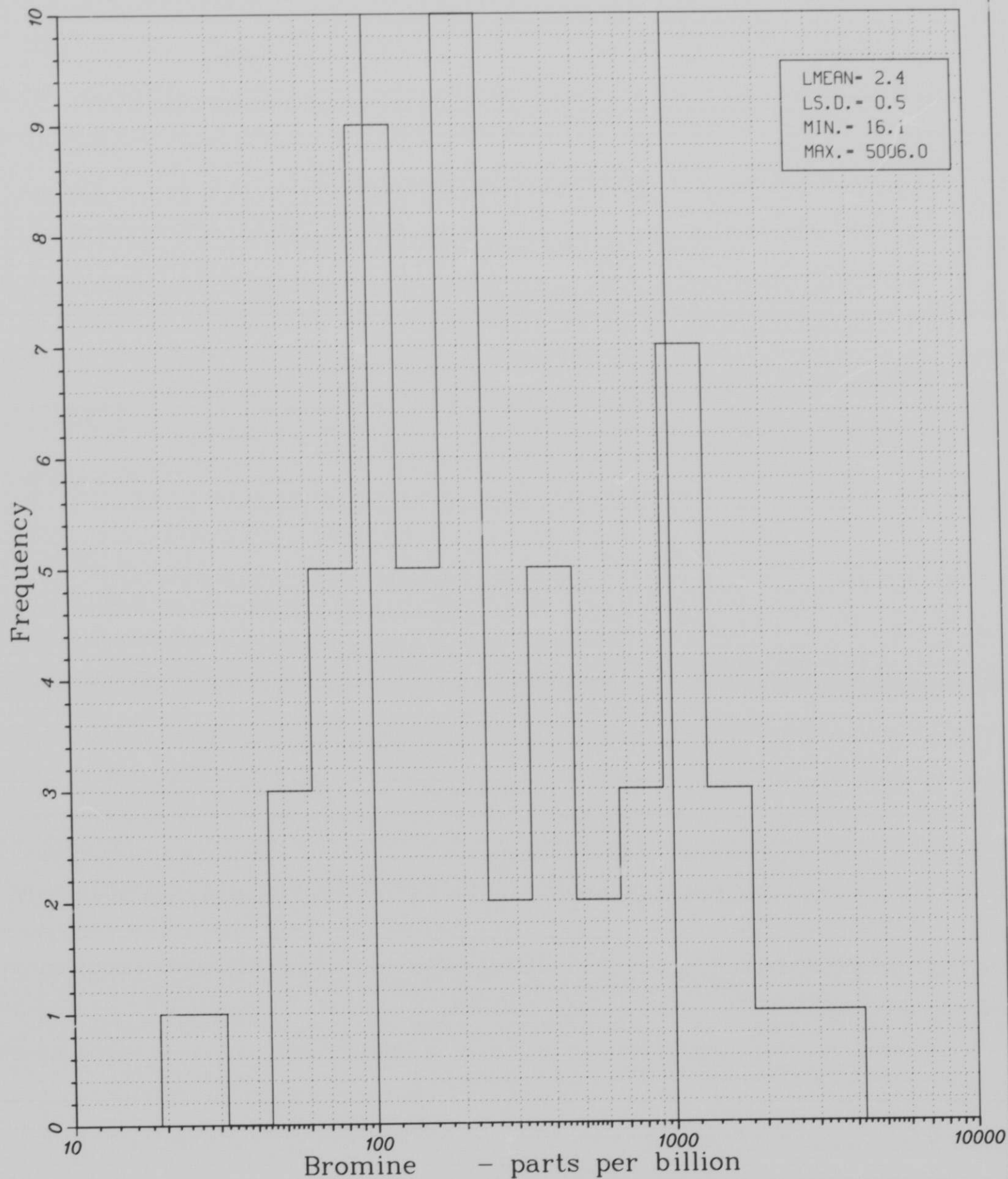
Manganese concentration - p.p.b.

+ < 55.3	o 55.3- 55.3	○ 79.1- 178.5	⊙ 1446.4- 1613.8	● 1977.0- 2228.0
x 55.3- 55.3	o 55.3- 63.9	○ 178.5- 687.4	⊙ 1613.8- 1977.0	◆ 2228.0- 2228.0
o 55.3- 55.3	○ 63.9- 79.1	○ 687.4- 1446.4	⊙ 1977.0- 1977.0	★ > 2228.0

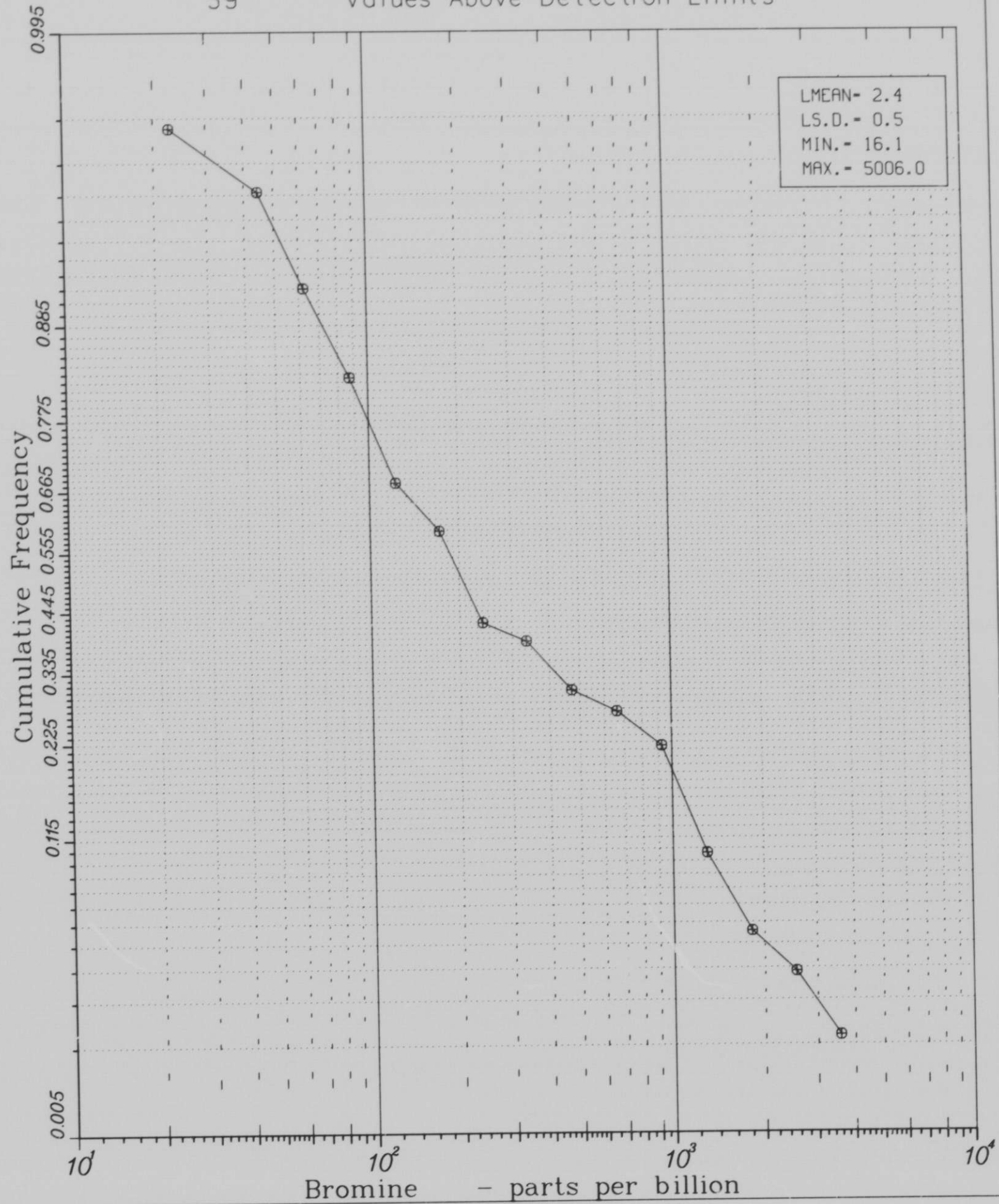


Log Histogram
59

GRAND CANYON 1'x2' Sheet
Bromine Values - Ground Water Sites
Values Above Detection Limits



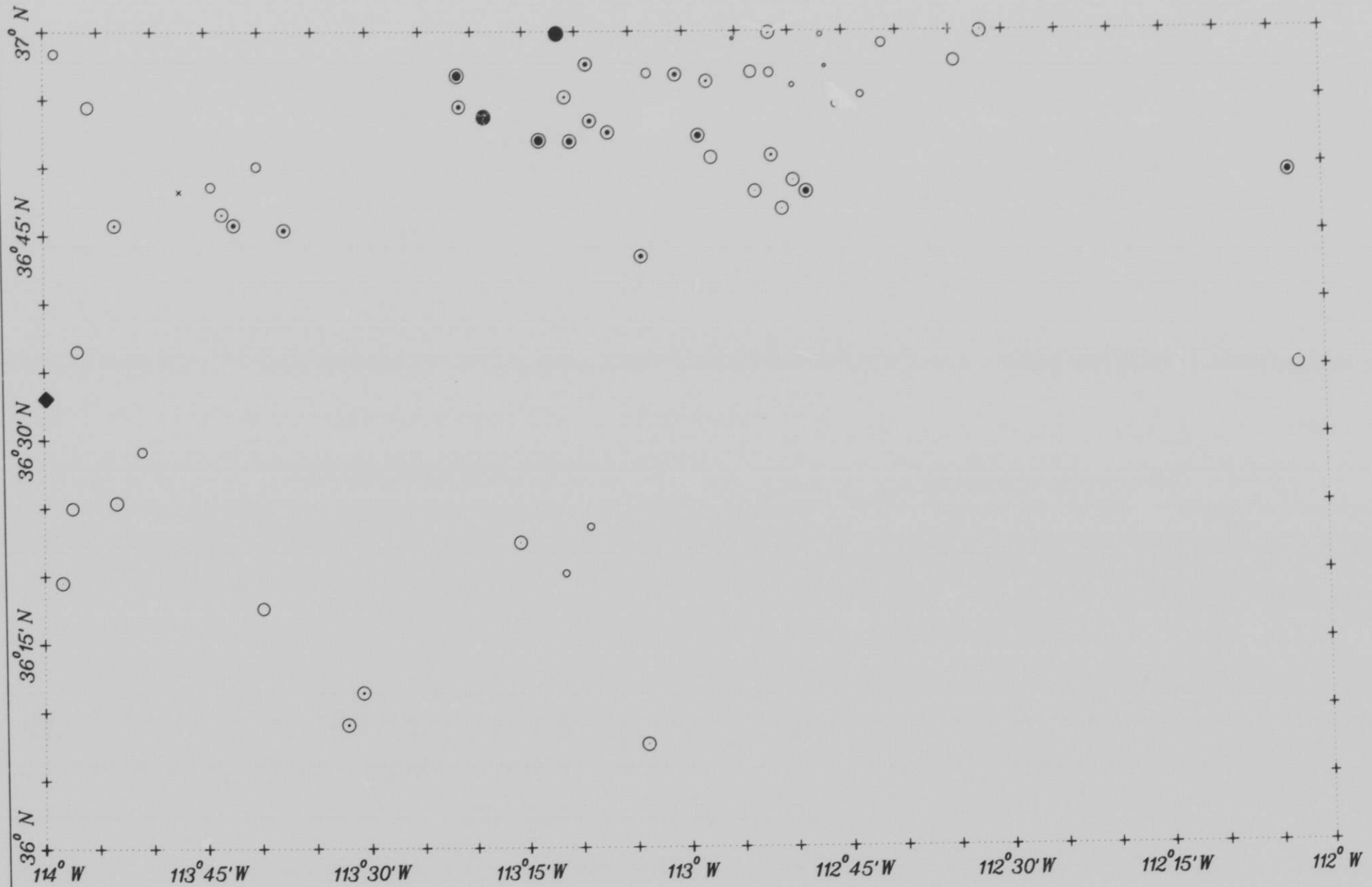
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Bromine Values - Ground Water Sites
59 Values Above Detection Limits



GRAND CANYON 1x2° Sheet
Bromine In Ground Water
59 Values Above D.L.

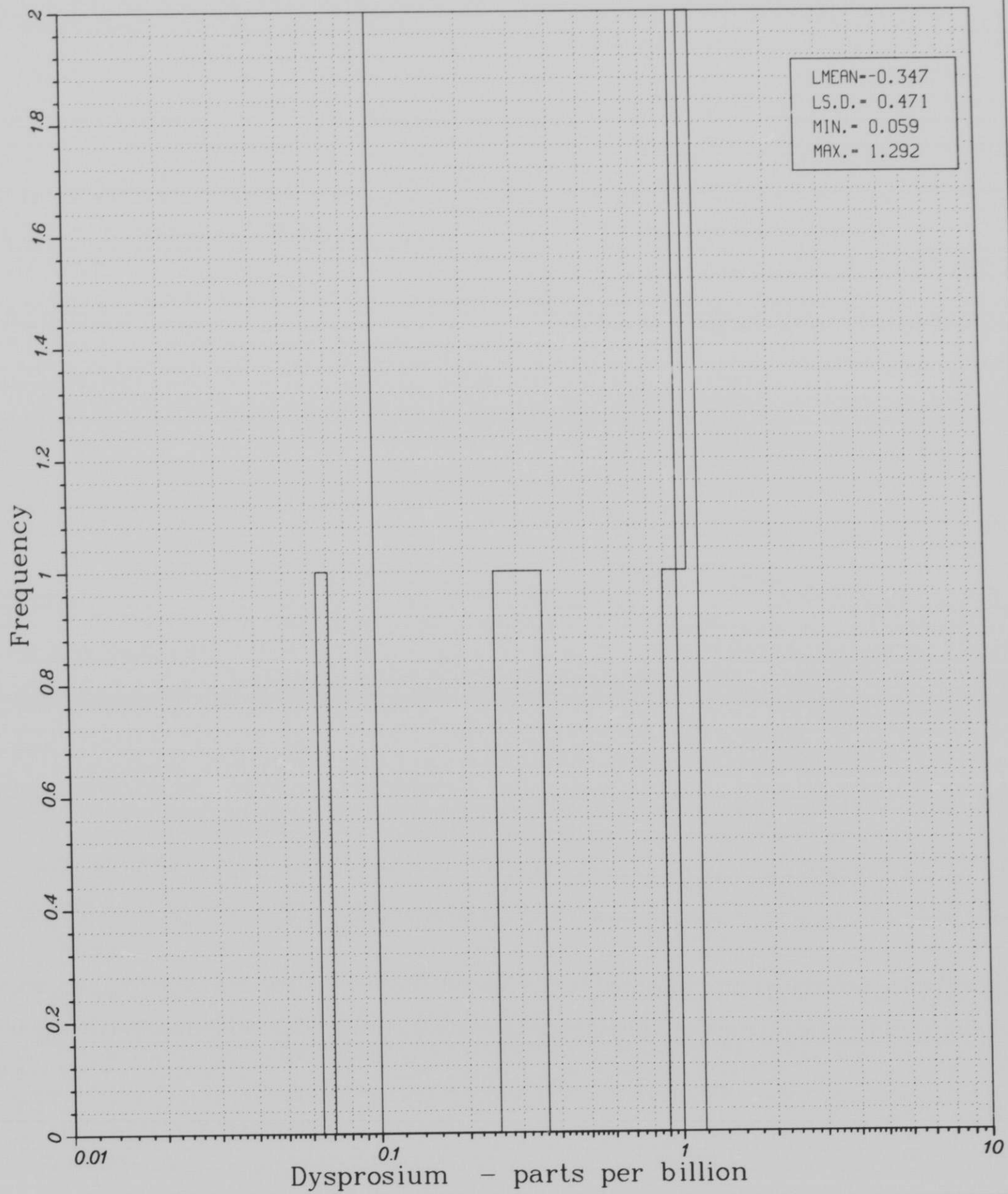
Bromine concentration - p.p.b.

+ < 16.1	o 48.9- 58.7	○ 110.3- 180.0	⊙ 490.0- 1023.2	● 1750.6- 2752.0
x 16.1- 16.1	o 58.7- 74.2	○ 180.0- 238.8	⊙ 1023.2- 1378.2	◆ 2752.0- 5006.0
o 16.1- 48.9	○ 74.2- 110.3	⊙ 238.8- 490.0	⊙ 1378.2- 1750.6	★ > 5006.0

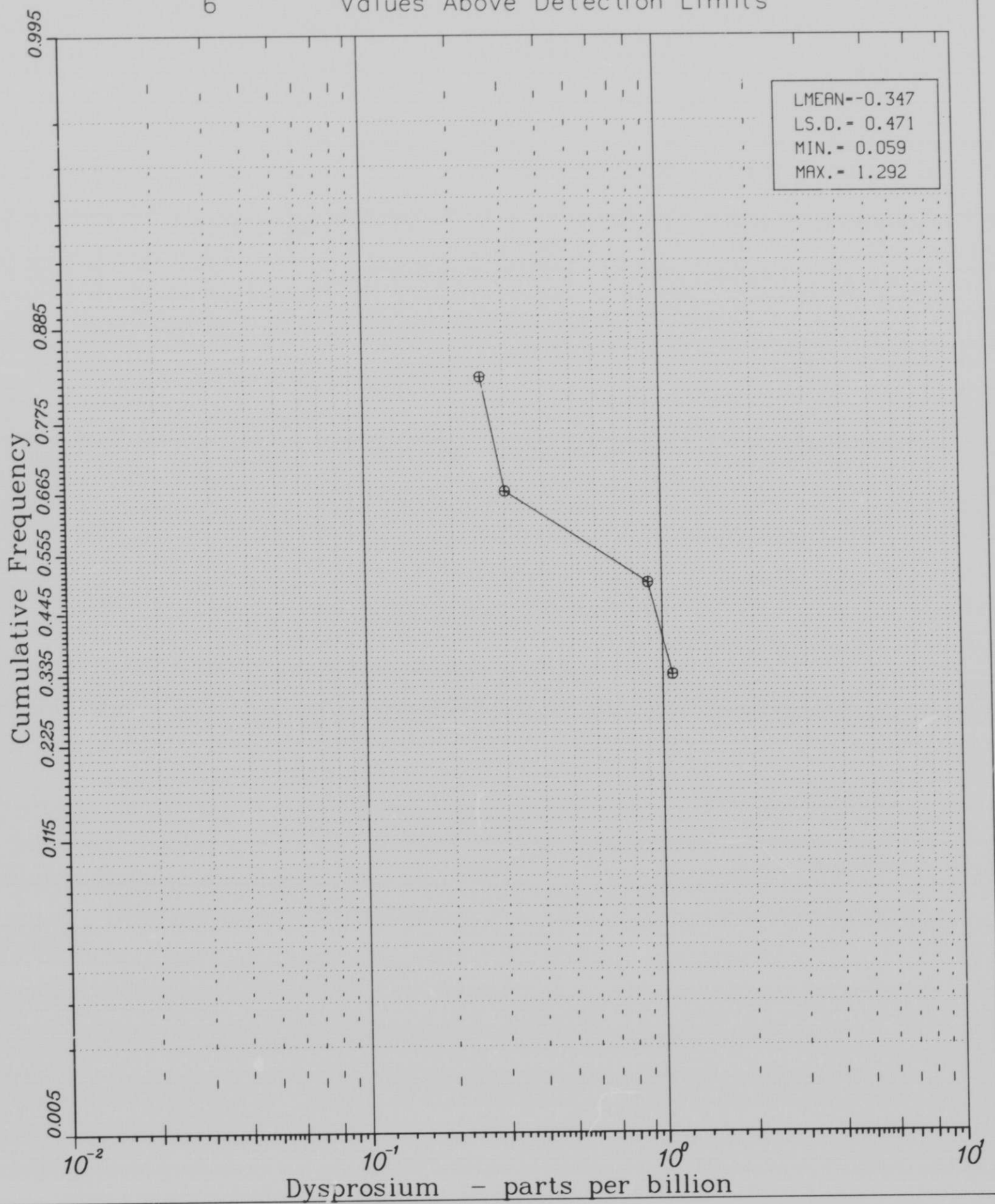


Log Histogram
6

GRAND CANYON 1'x2' Sheet
Dysprosium Values - Ground Water Sites
Values Above Detection Limits



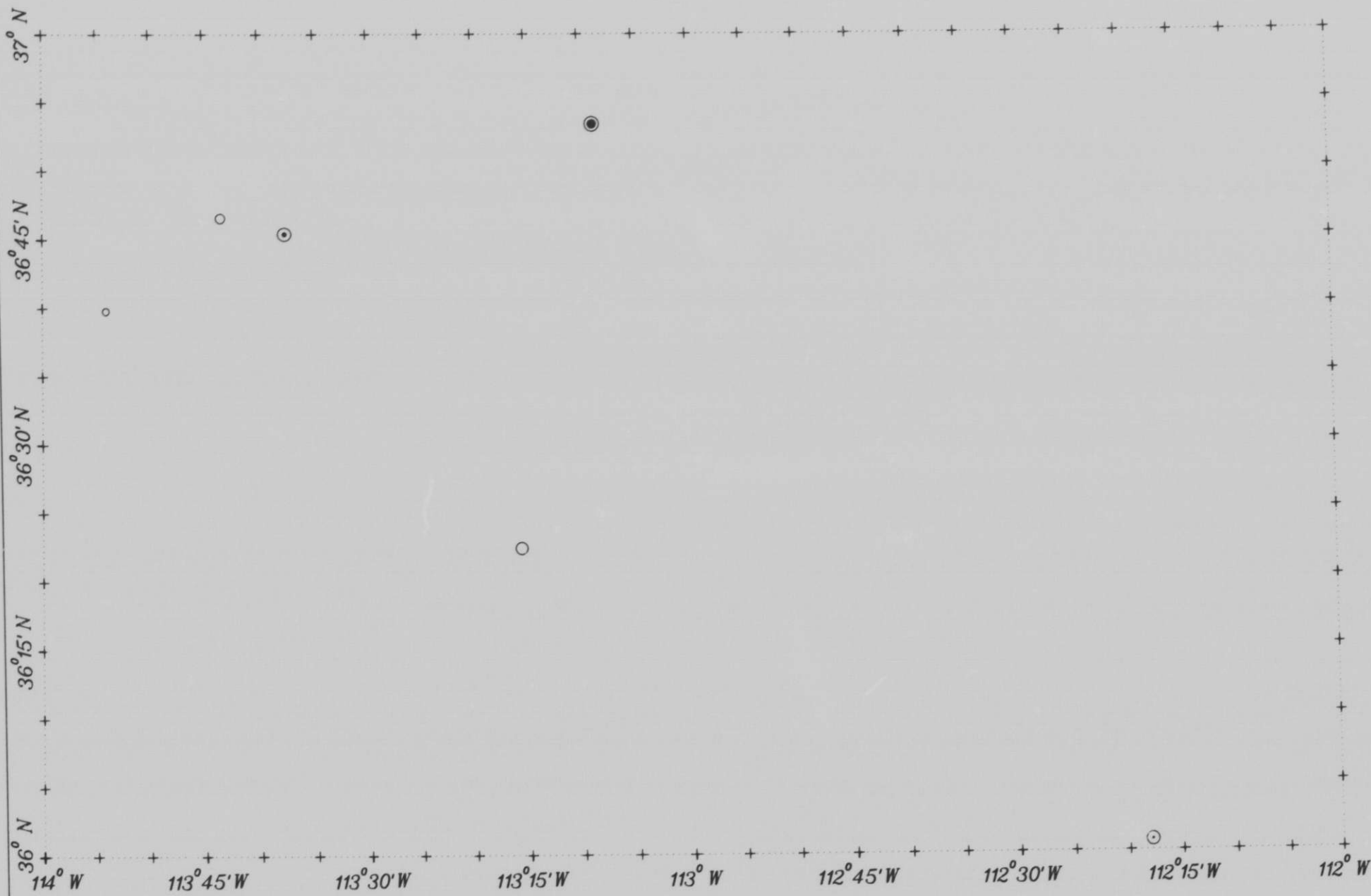
GRAND CANYON 1'x2' Sheet
Log Cumulative Frequency Plot
Dysprosium Values - Ground Water Sites
6 Values Above Detection Limits



GRAND CANYON 1'x2' Sheet
 Dysprosium In Ground Water
 6 Values Above D.L.

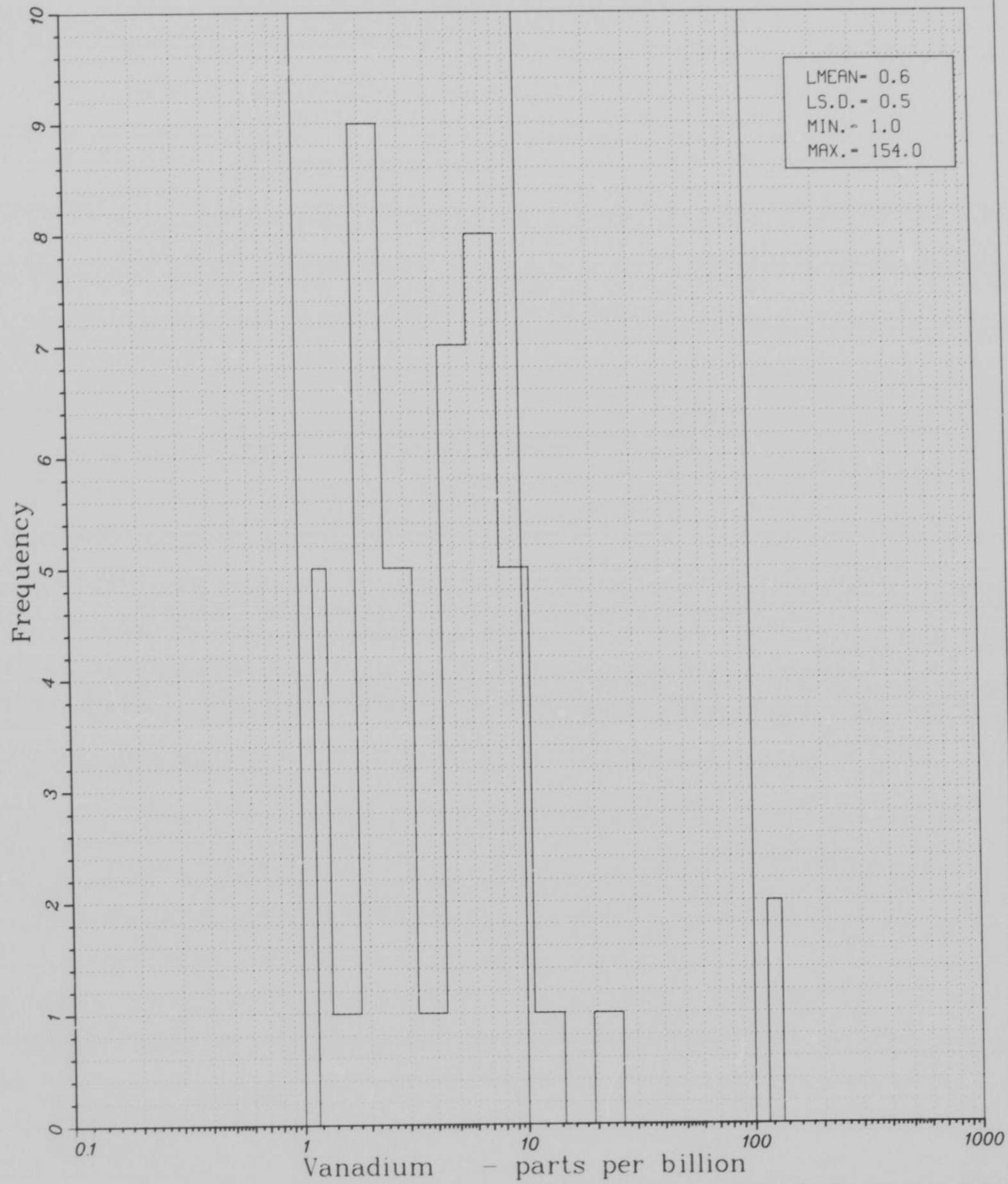
Dysprosium concentration - p.p.b.

+ < 0.059	o 0.059- 0.059	○ 0.300- 0.319	⊙ 0.925- 1.224	● 1.292- 1.292
x 0.059- 0.059	o 0.059- 0.059	○ 0.319- 0.319	⊙ 1.224- 1.224	◆ 1.292- 1.292
• 0.059- 0.059	○ 0.059- 0.300	⊙ 0.319- 0.925	⊙ 1.224- 1.292	★ > 1.292

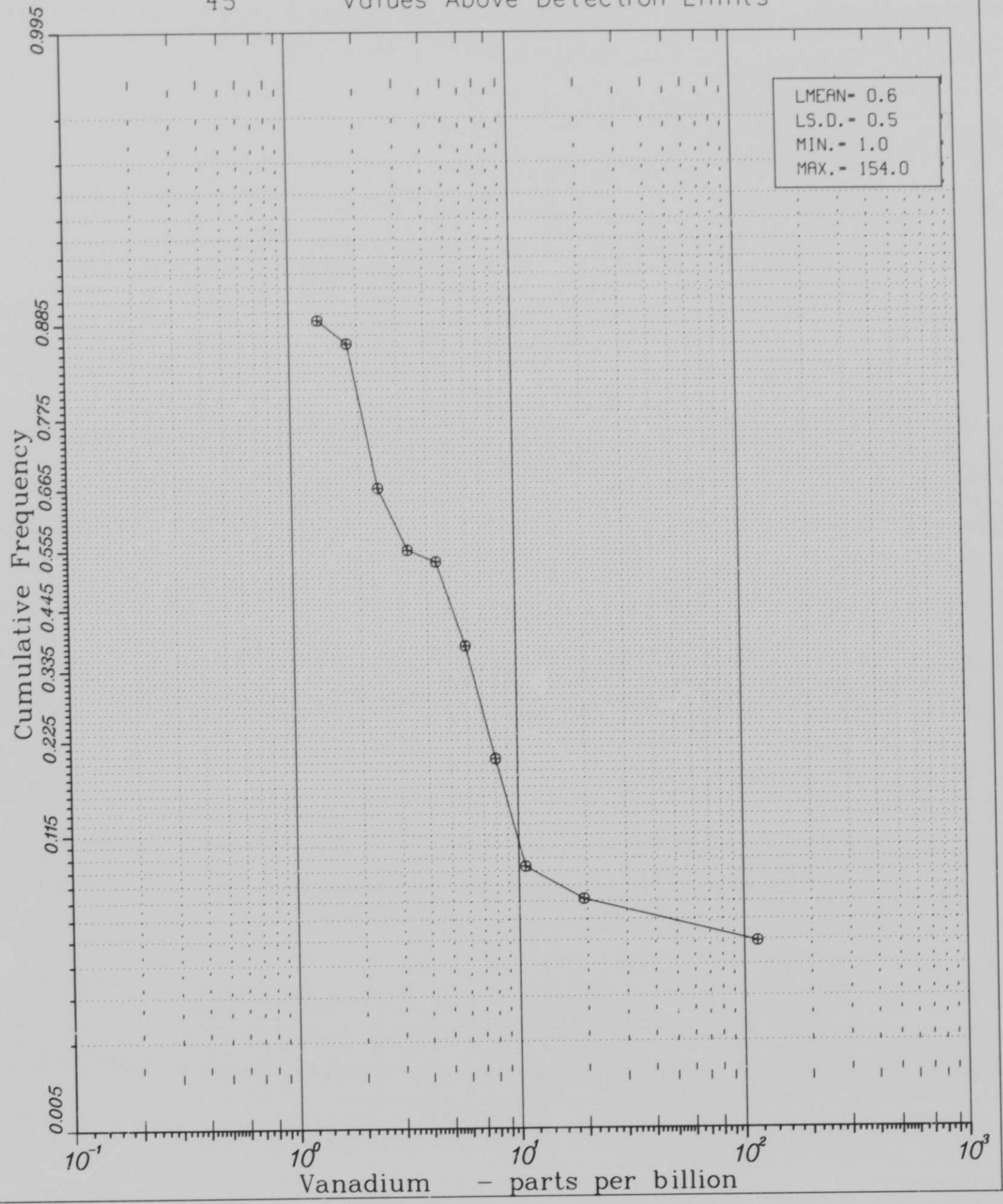


Log Histogram
45

GRAND CANYON 1'x2' Sheet
Vanadium Values - Ground Water Sites
Values Above Detection Limits



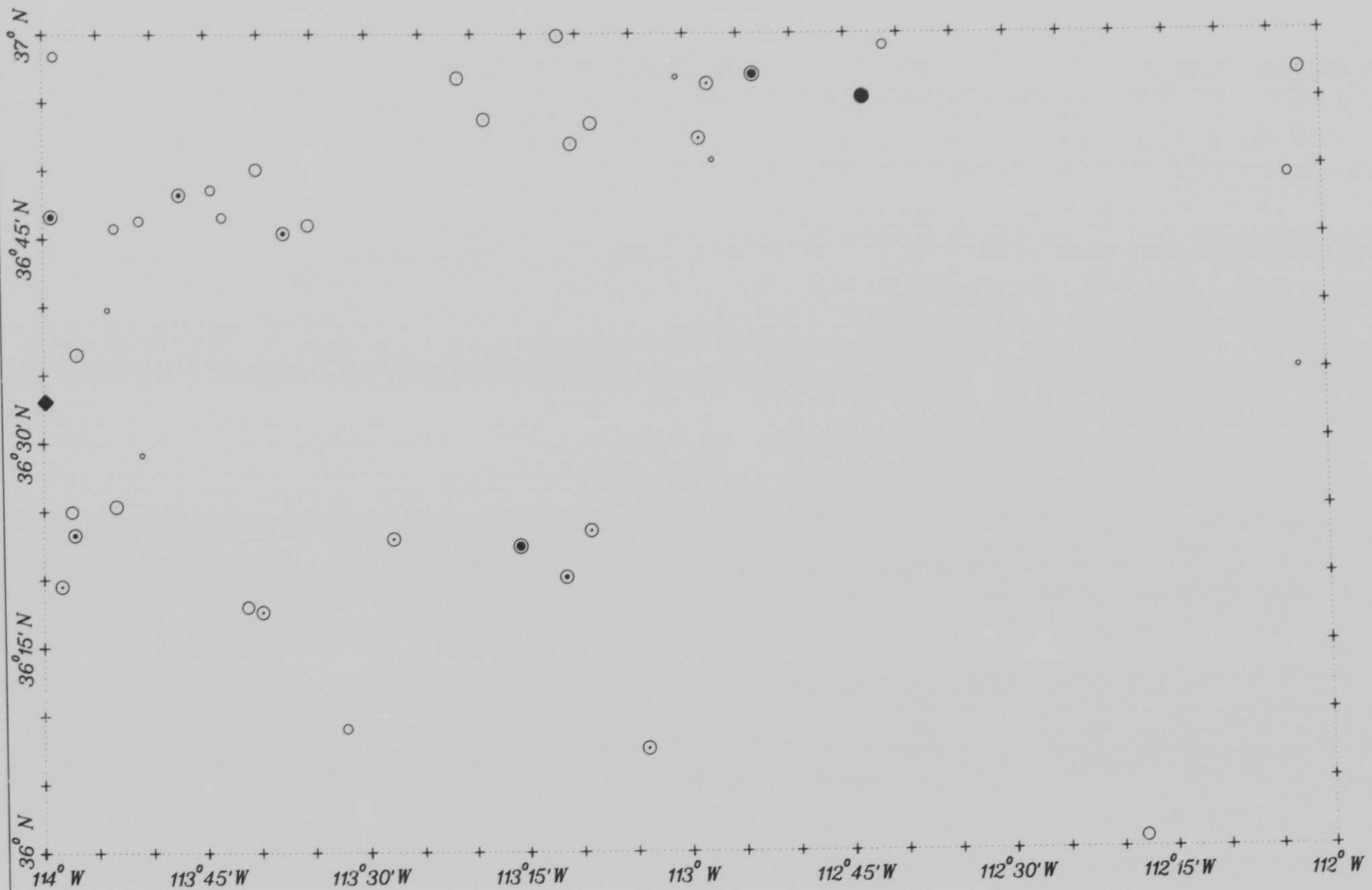
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Vanadium Values - Ground Water Sites
45 Values Above Detection Limits



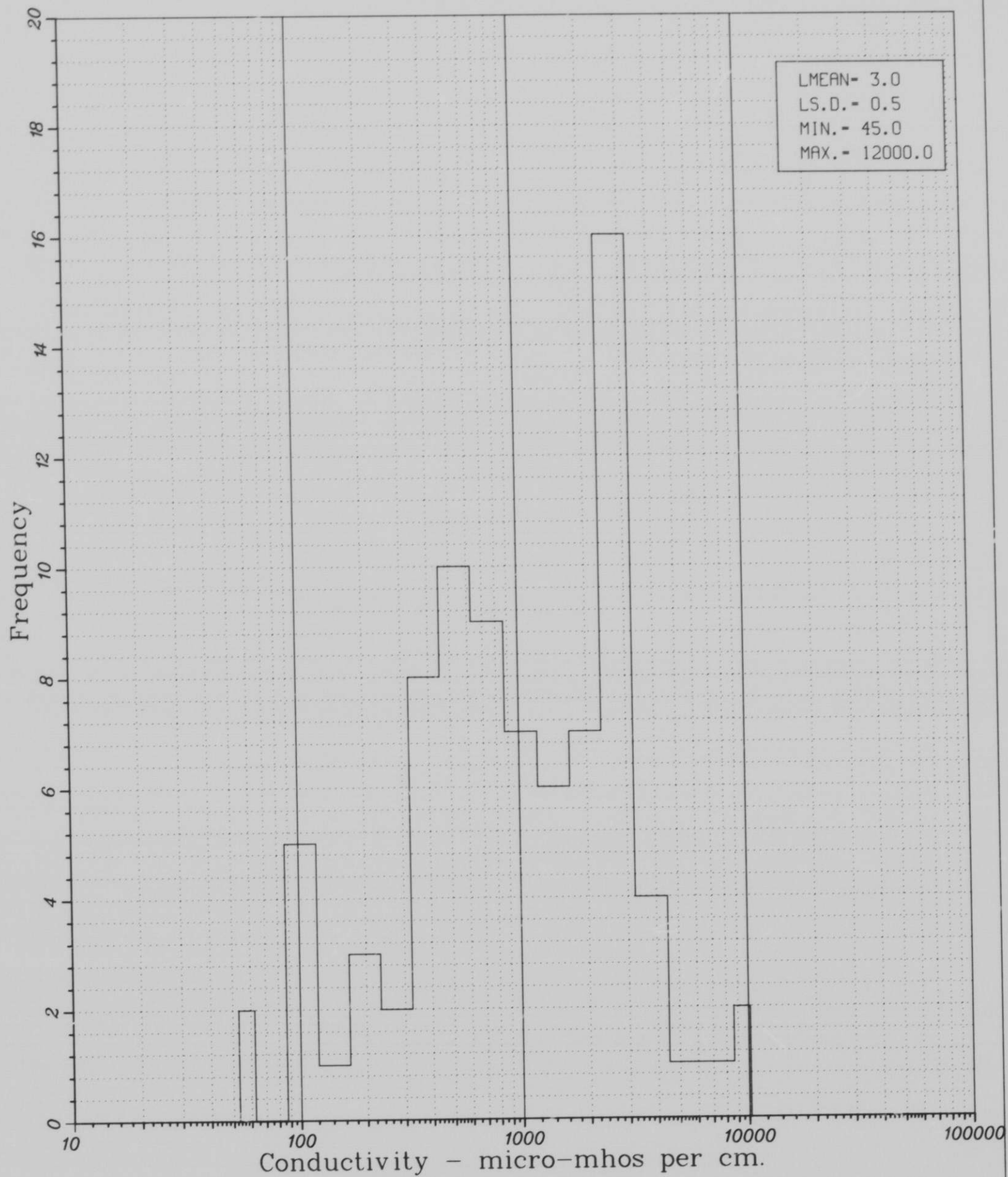
GRAND CANYON 1'x2' Sheet
Vanadium In Ground Water
45 Values Above D.L.

Vanadium concentration - p.p.b.

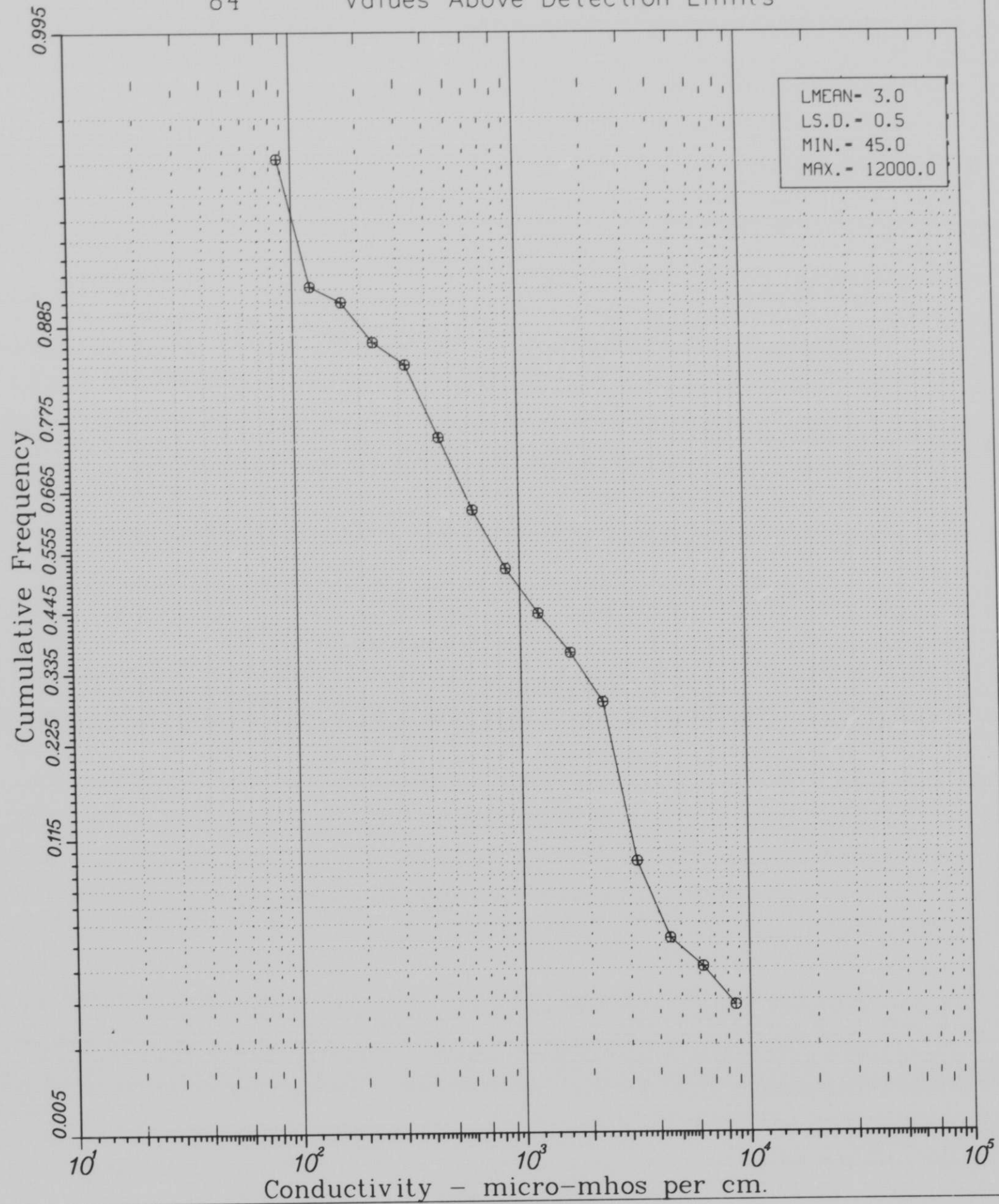
+ < 1.00	o 1.00- 1.00	○ 2.00- 3.00	⊙ 6.00- 8.00	● 22.00- 132.00
x 1.00- 1.00	o 1.00- 2.00	○ 3.00- 5.00	⊙ 8.00- 10.00	◆ 132.00- 154.00
• 1.00- 1.00	○ 2.00- 2.00	○ 5.00- 6.00	⊙ 10.00- 22.00	★ > 154.00



GRAND CANYON 1x2 Sheet
Log Histogram Conductivity Values - Ground Water Sites
84 Values Above Detection Limits



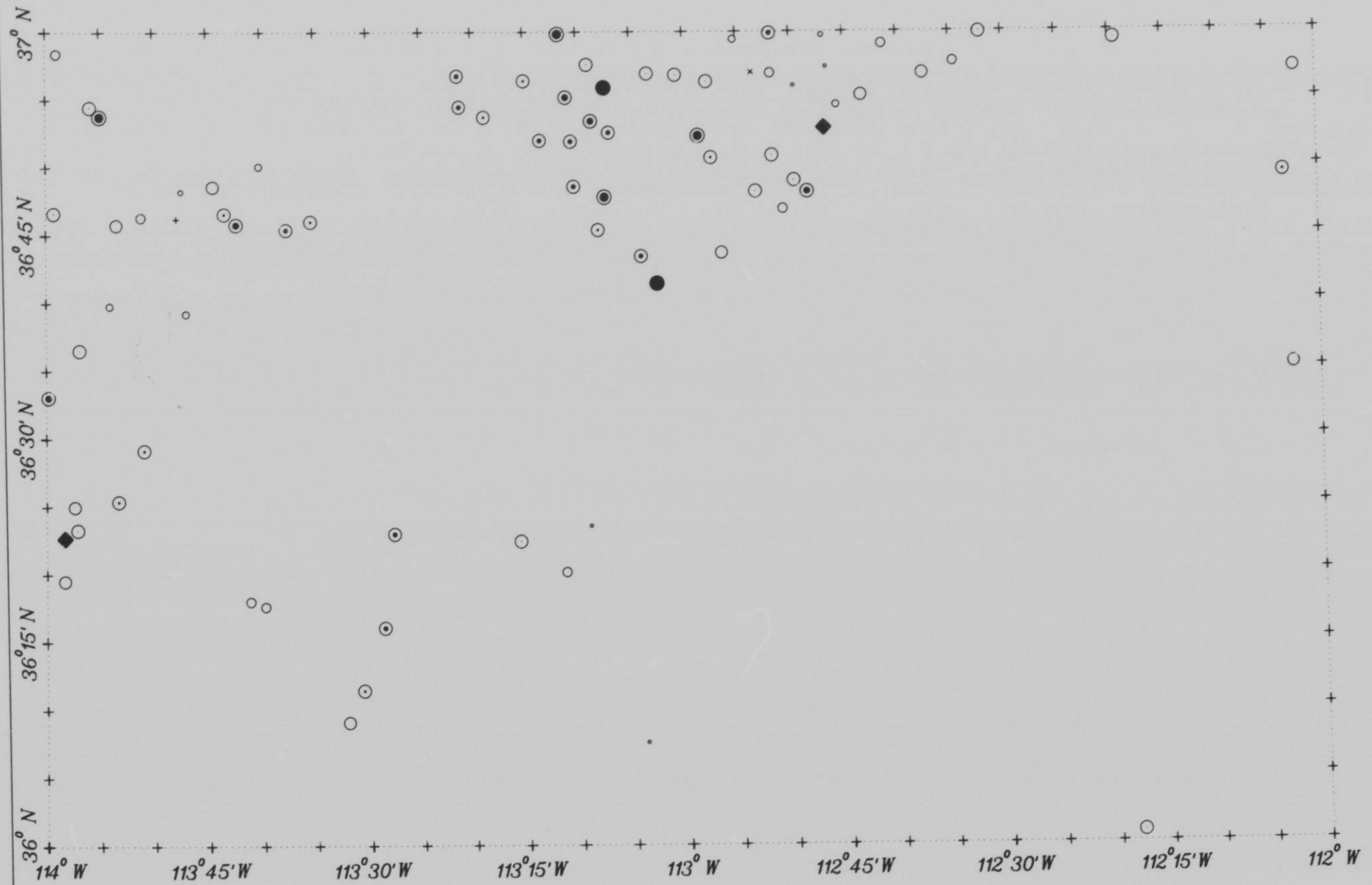
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Conductivity Values - Ground Water Sites
84 Values Above Detection Limits



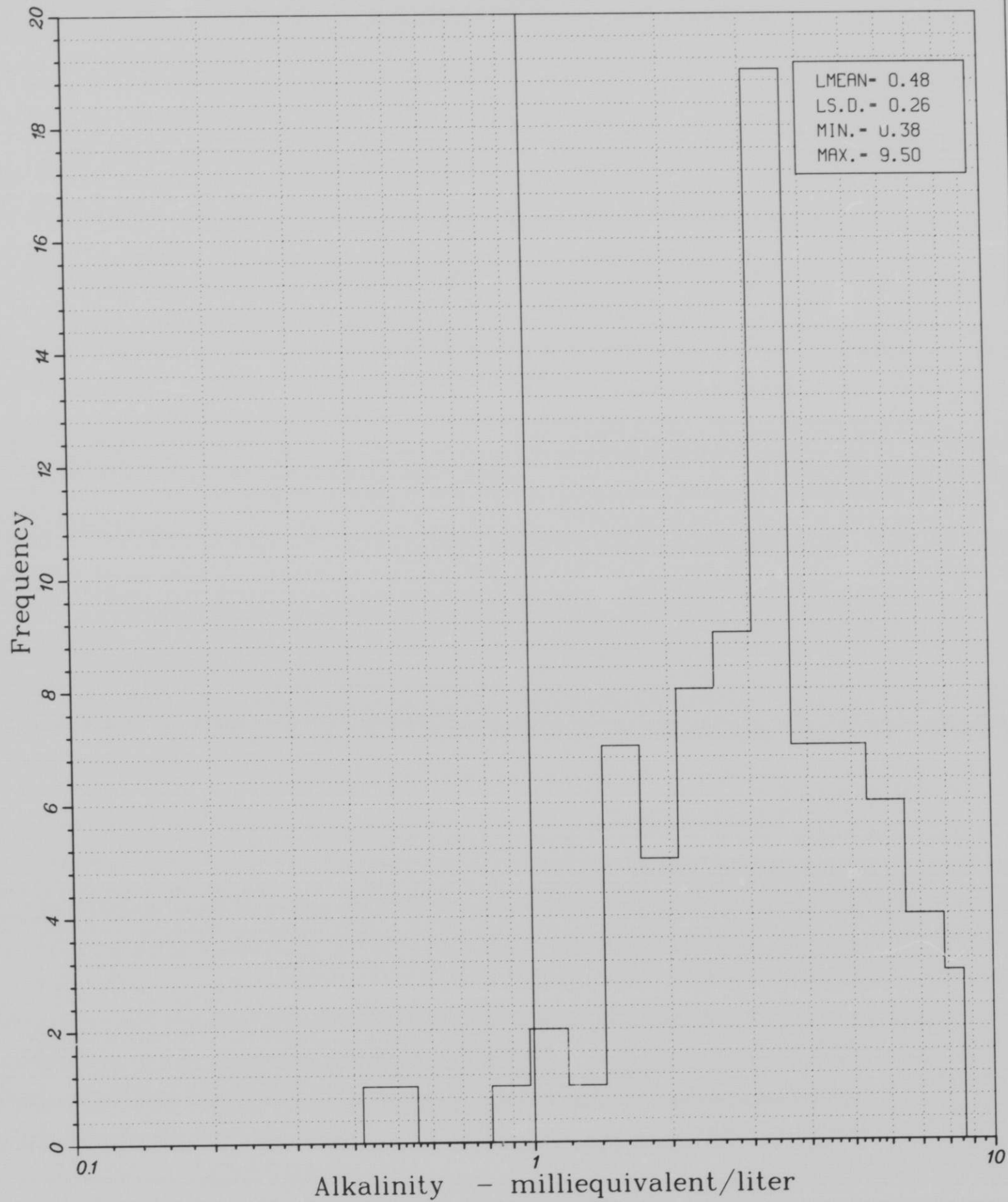
GRAND CANYON 1'x2' Sheet
Conductivity In Ground Water
84 Values Above D.L.

Conductivity - micro-mhos per cm.

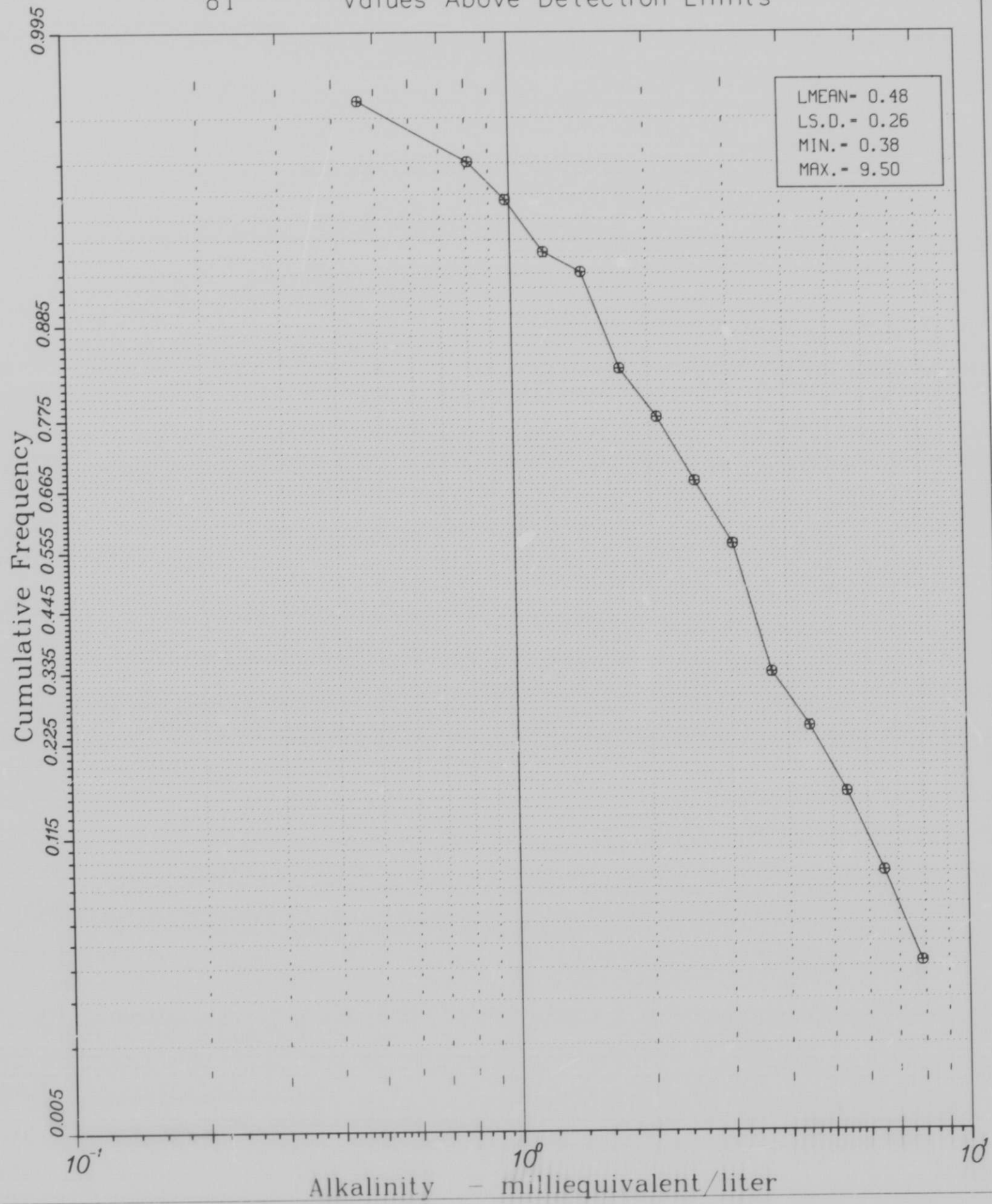
+ < 45.0	○ 110.0- 140.0	○ 480.0- 680.0	⊙ 2200.0- 3010.0	● 3900.0- 8000.0
x 45.0- 60.0	○ 140.0- 249.0	○ 680.0- 1300.0	⊙ 3010.0- 3200.0	◆ 8000.0- 12000.0
• 60.0- 110.0	○ 249.0- 480.0	⊙ 1300.0- 2200.0	⊙ 3200.0- 3900.0	★ > 12000.0



GRAND CANYON 1'x2' Sheet
Log Histogram Alkalinity Values - Ground Water Sites
81 Values Above Detection Limits



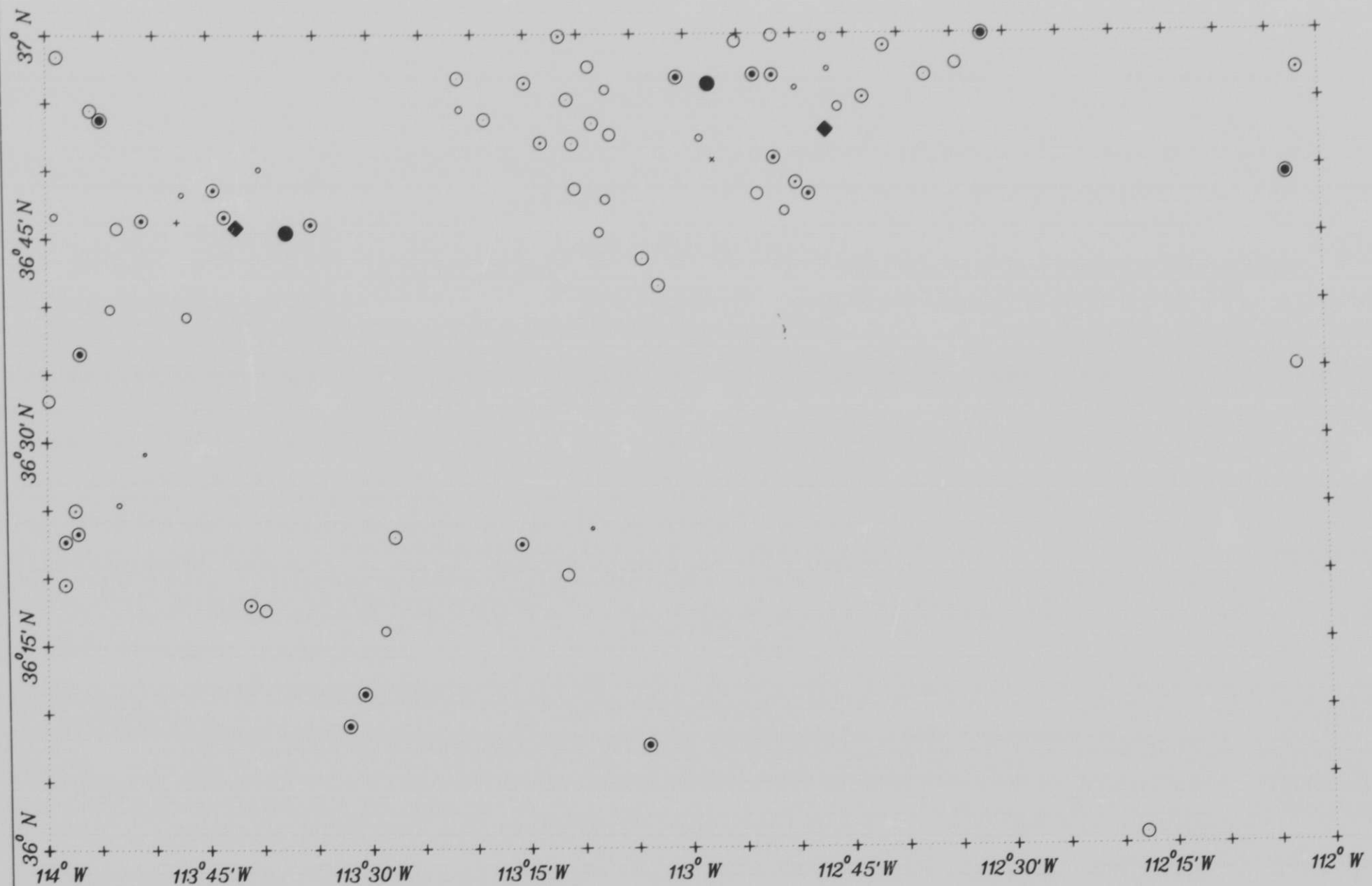
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Alkalinity Values - Ground Water Sites
81 Values Above Detection Limits



GRAND CANYON 1x2° Sheet
 Alkalinity In Ground Water
 81 Values Above D.L.

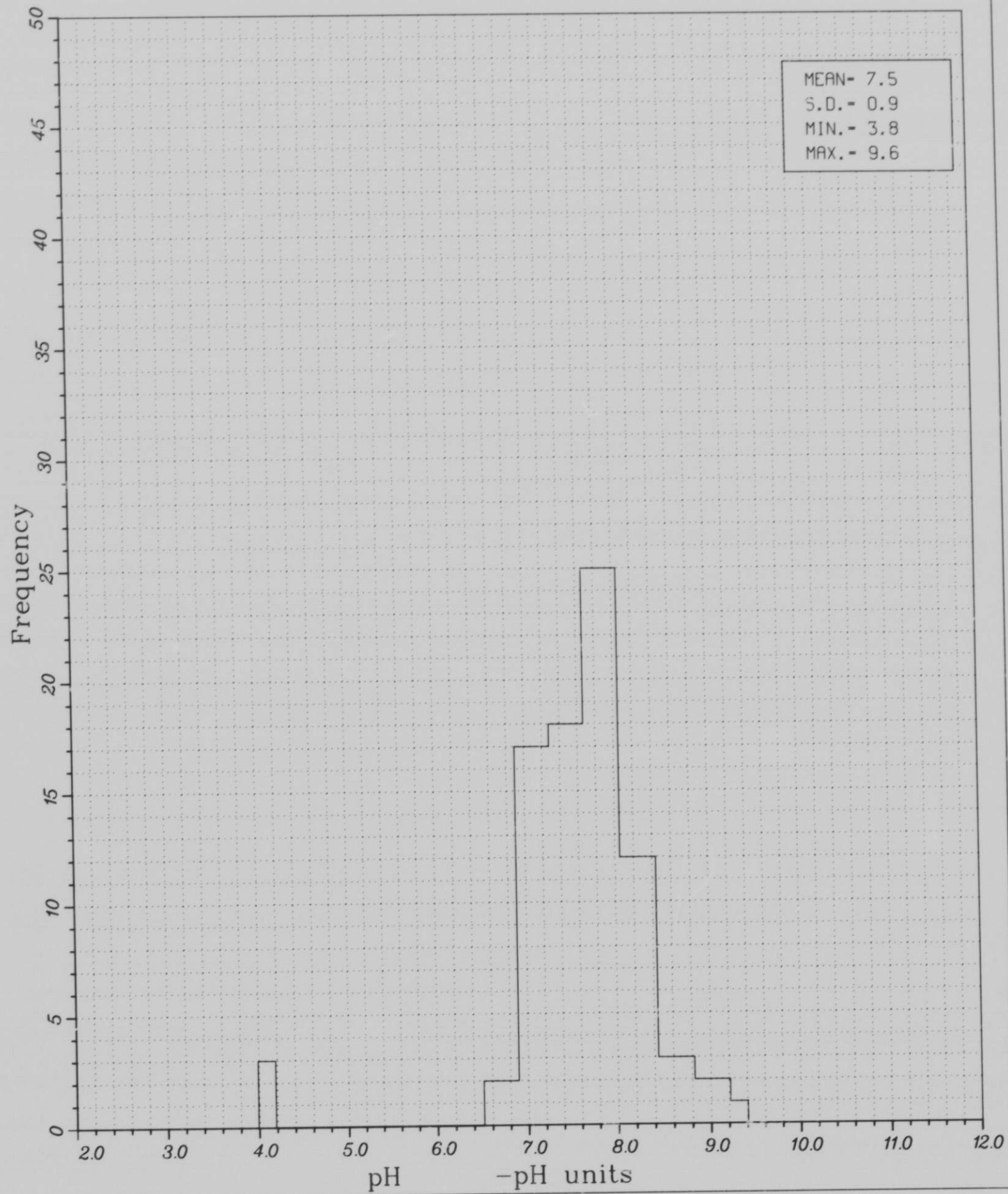
Alkalinity - milliequivalent/liter

+ < 0.38	○ 1.00- 1.50	○ 2.30- 3.00	⊙ 4.10- 5.20	● 6.80- 8.00
x 0.38- 0.46	○ 1.50- 1.70	○ 3.00- 3.40	⊙ 5.20- 6.40	◆ 8.00- 9.50
• 0.46- 1.00	○ 1.70- 2.30	⊙ 3.40- 4.10	⊙ 6.40- 6.80	★ > 9.50



Histogram
83

GRAND CANYON 1'x2' Sheet
pH Values - Ground Water Sites
Values Above Detection Limits

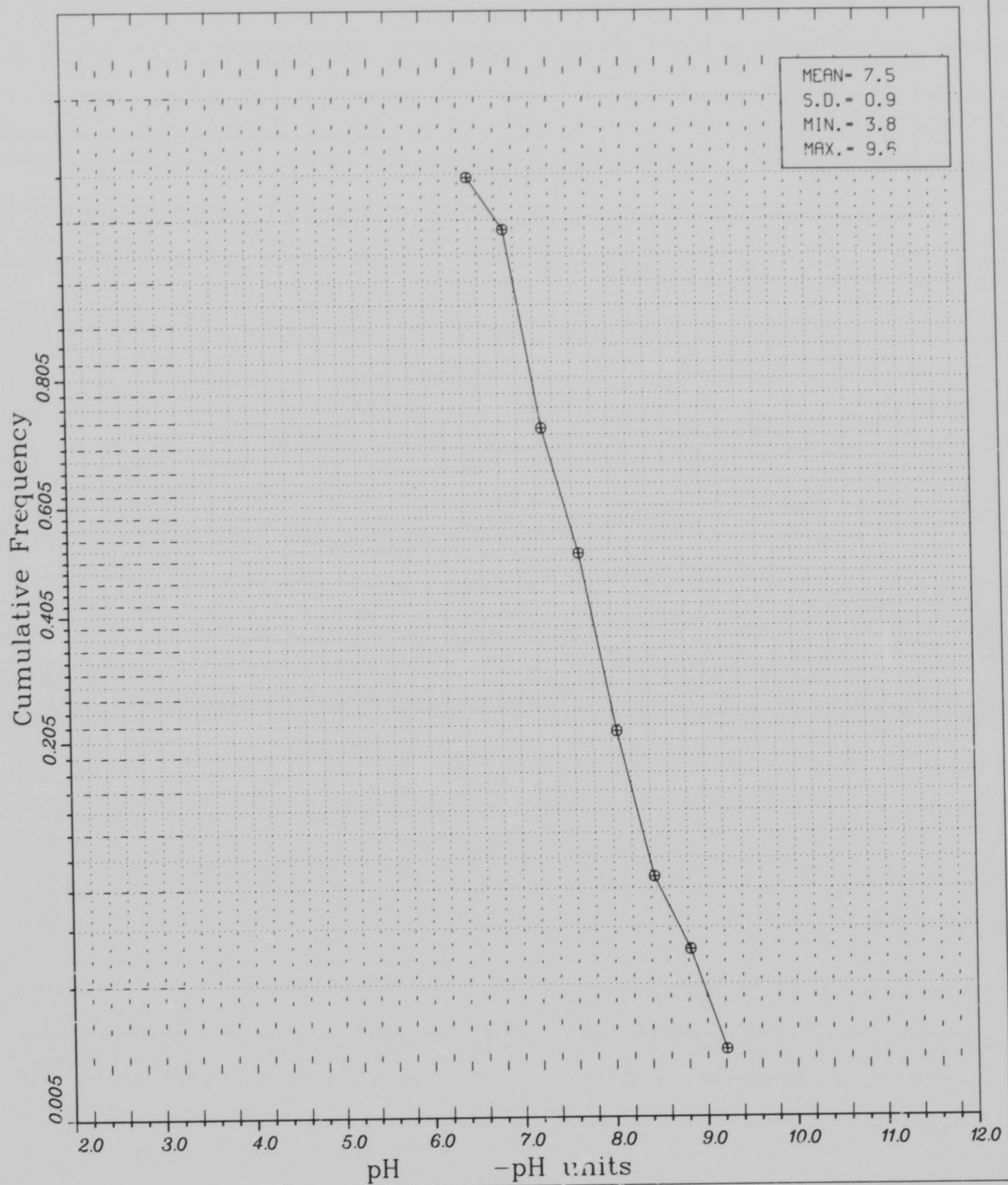


Cumulative Frequency Plot

pH Values - Ground Water Sites

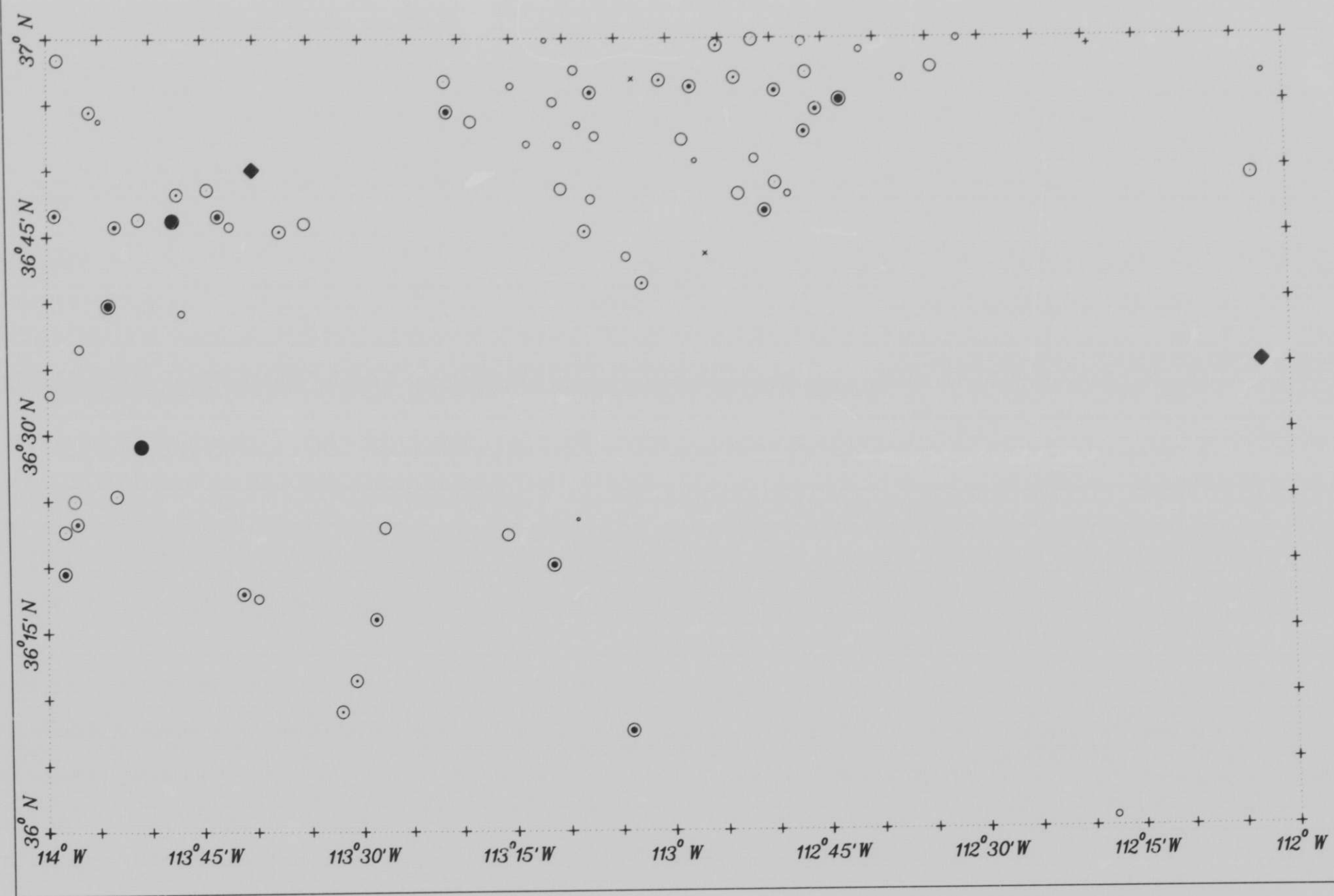
83

Values Above Detection Limits

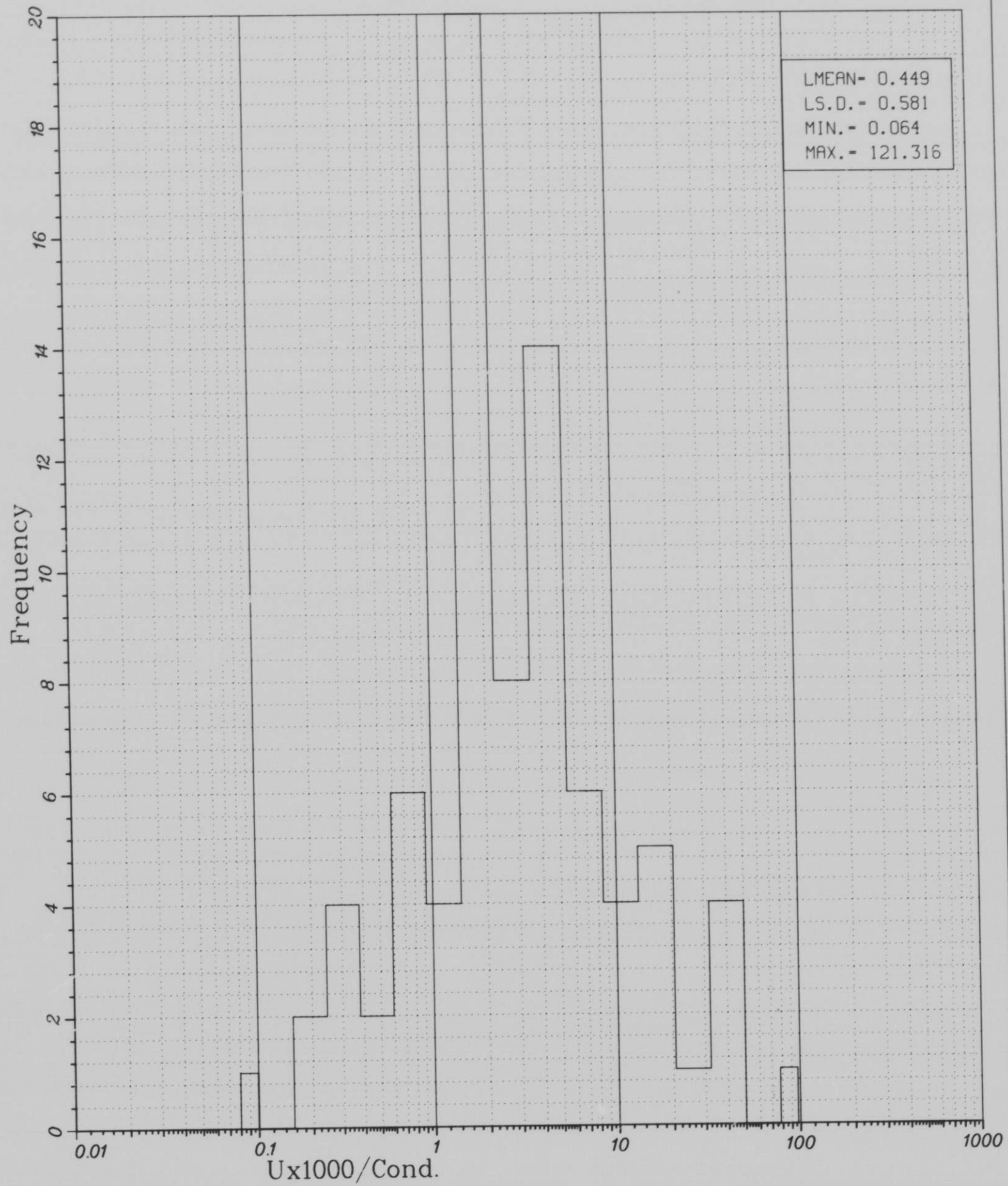


GRAND CANYON 1'x2' Sheet
 pH In Ground Water
 83 Values Above D.L.

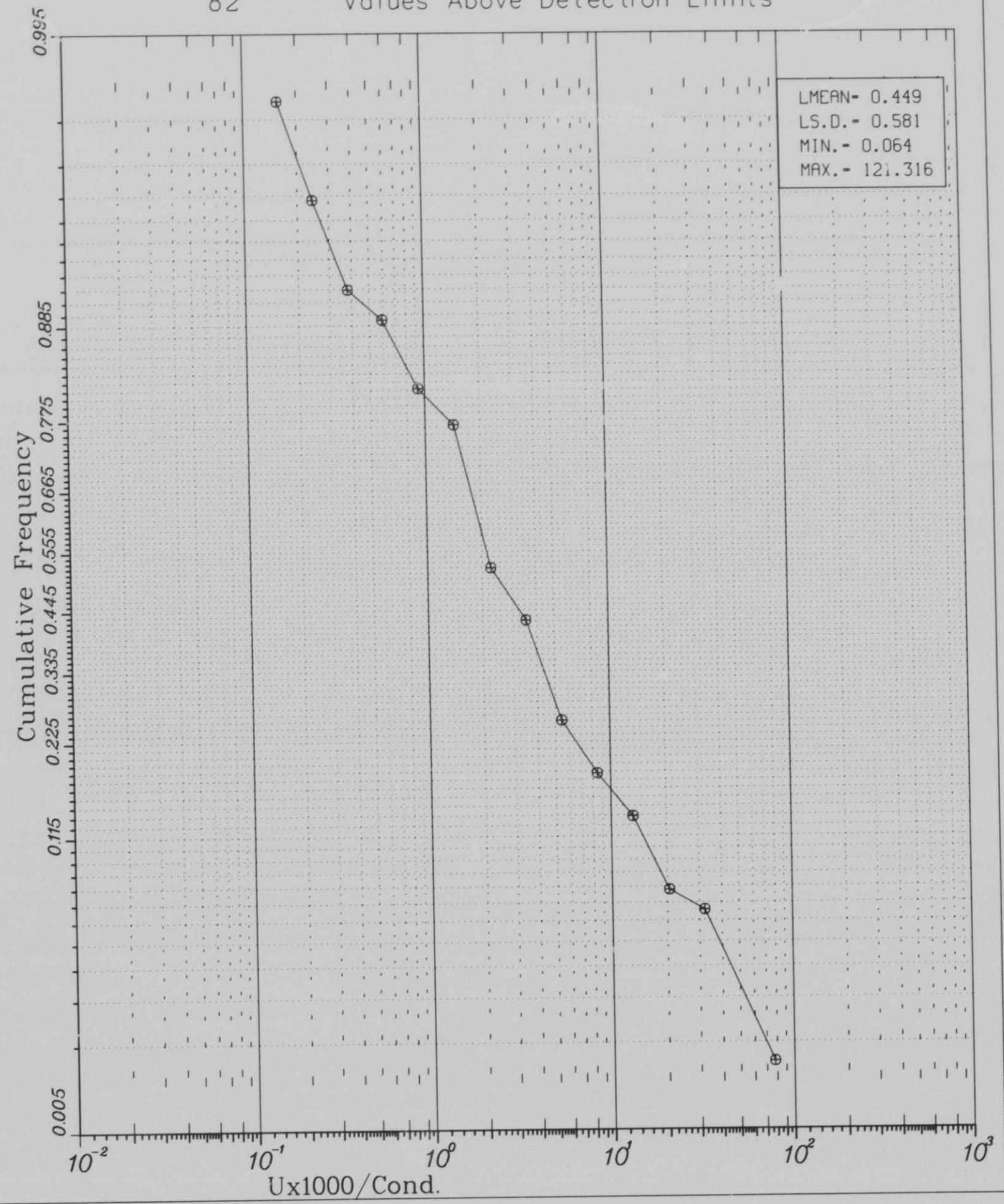
pH		-pH units		
+ < 3.8	o 6.7- 6.9	○ 7.3- 7.5	⊙ 7.9- 8.1	● 8.5- 9.0
x 3.8- 4.0	o 6.9- 7.1	○ 7.5- 7.7	⊙ 8.1- 8.4	◆ 9.0- 9.6
• 4.0- 6.7	○ 7.1- 7.3	⊙ 7.7- 7.9	⊙ 8.4- 8.5	★ > 9.6



GRAND CANYON 1'x2' Sheet
Log Histogram Ux1000/Cond. Values - Ground Water Sites
82 Values Above Detection Limits



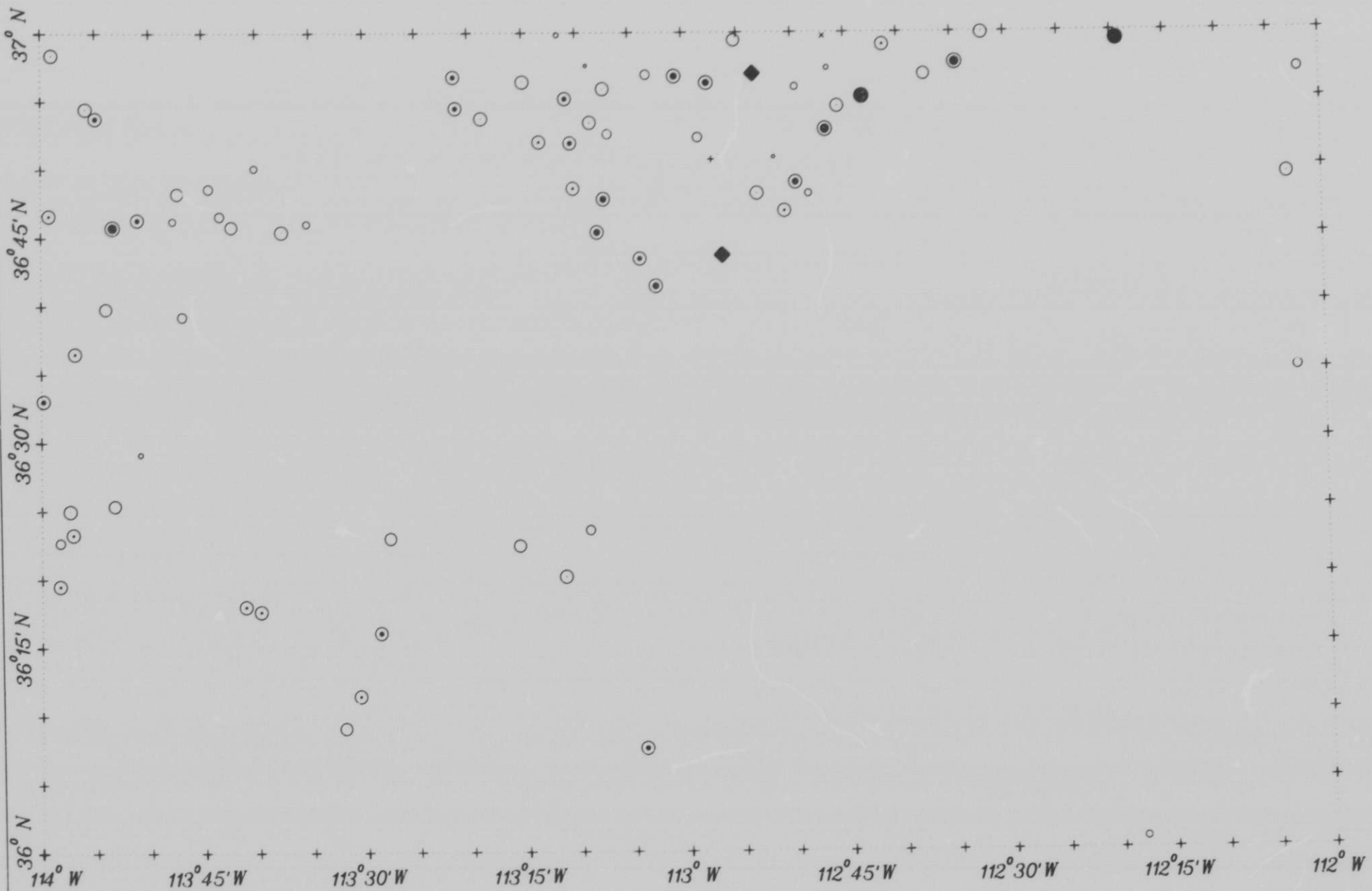
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Ux1000/Cond. Values - Ground Water Sites
82 Values Above Detection Limits



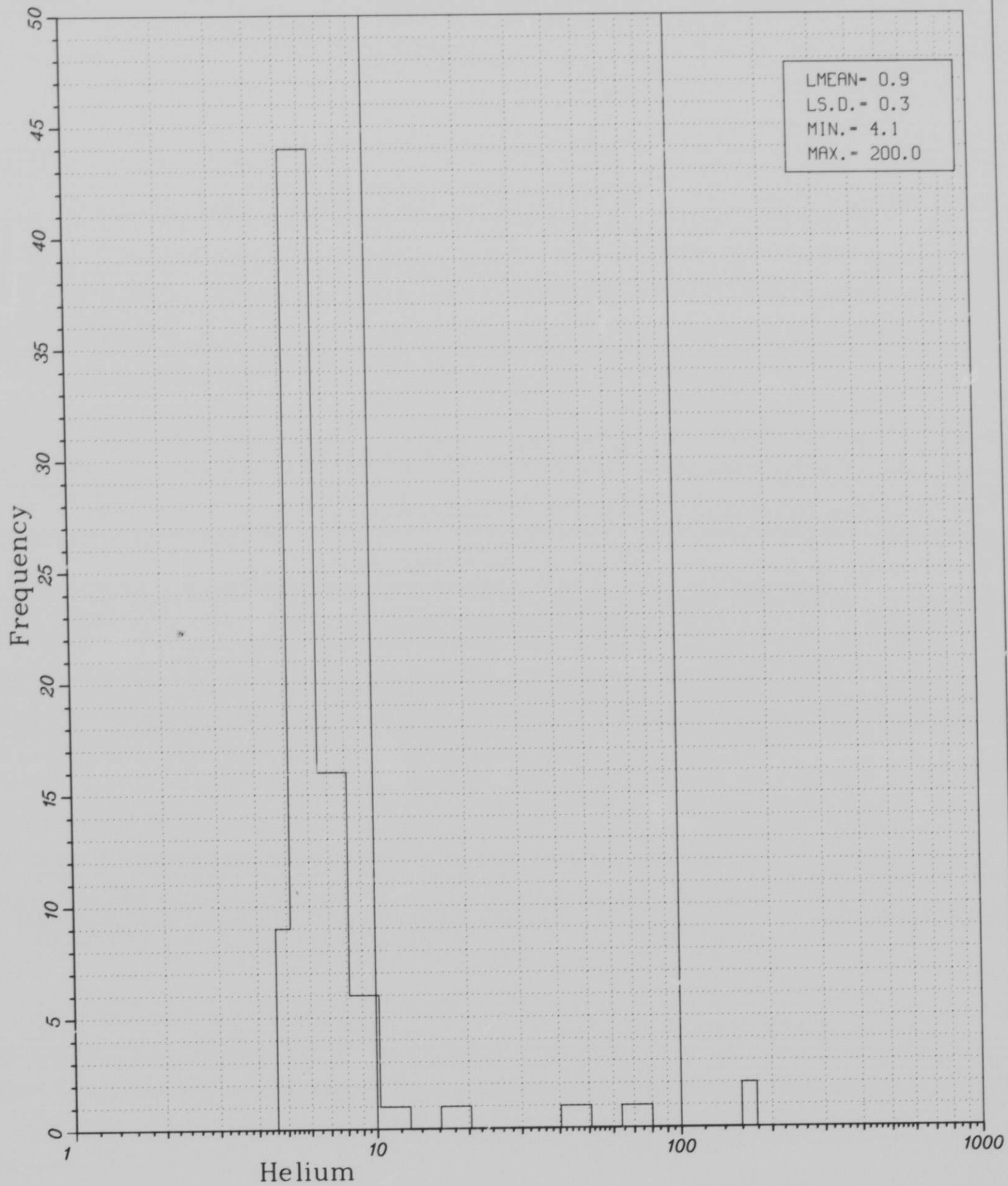
GRAND CANYON 1'x2' Sheet
 Ux1000/Cond. In Ground Water
 82 Values Above D.L.

Ux1000/Cond.

+ < 0.064	○ 0.256- 0.340	○ 1.512- 2.059	⊙ 5.276- 9.209	● 35.324- 41.867
× 0.064- 0.214	○ 0.340- 0.822	○ 2.059- 3.483	⊙ 9.209- 14.573	◆ 41.867- 121.317
• 0.214- 0.256	○ 0.822- 1.512	⊙ 3.483- 5.276	⊙ 14.573- 35.324	★ > 121.317



GRAND CANYON 1'x2' Sheet
Log Histogram Helium Values - Ground Water Sites
81 Values Above Detection Limits

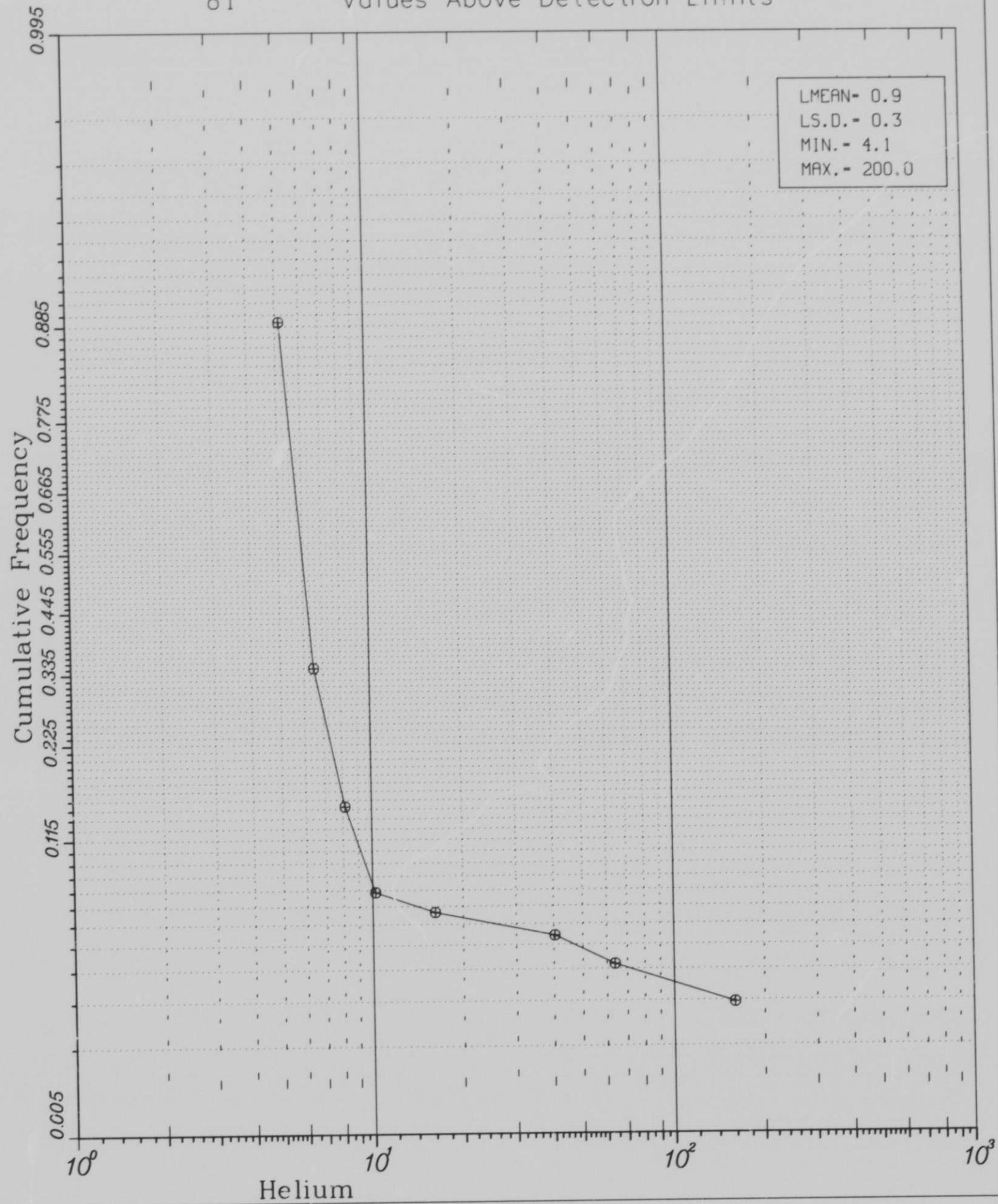


GRAND CANYON 1°x2° Sheet

Log Cumulative Frequency Plot

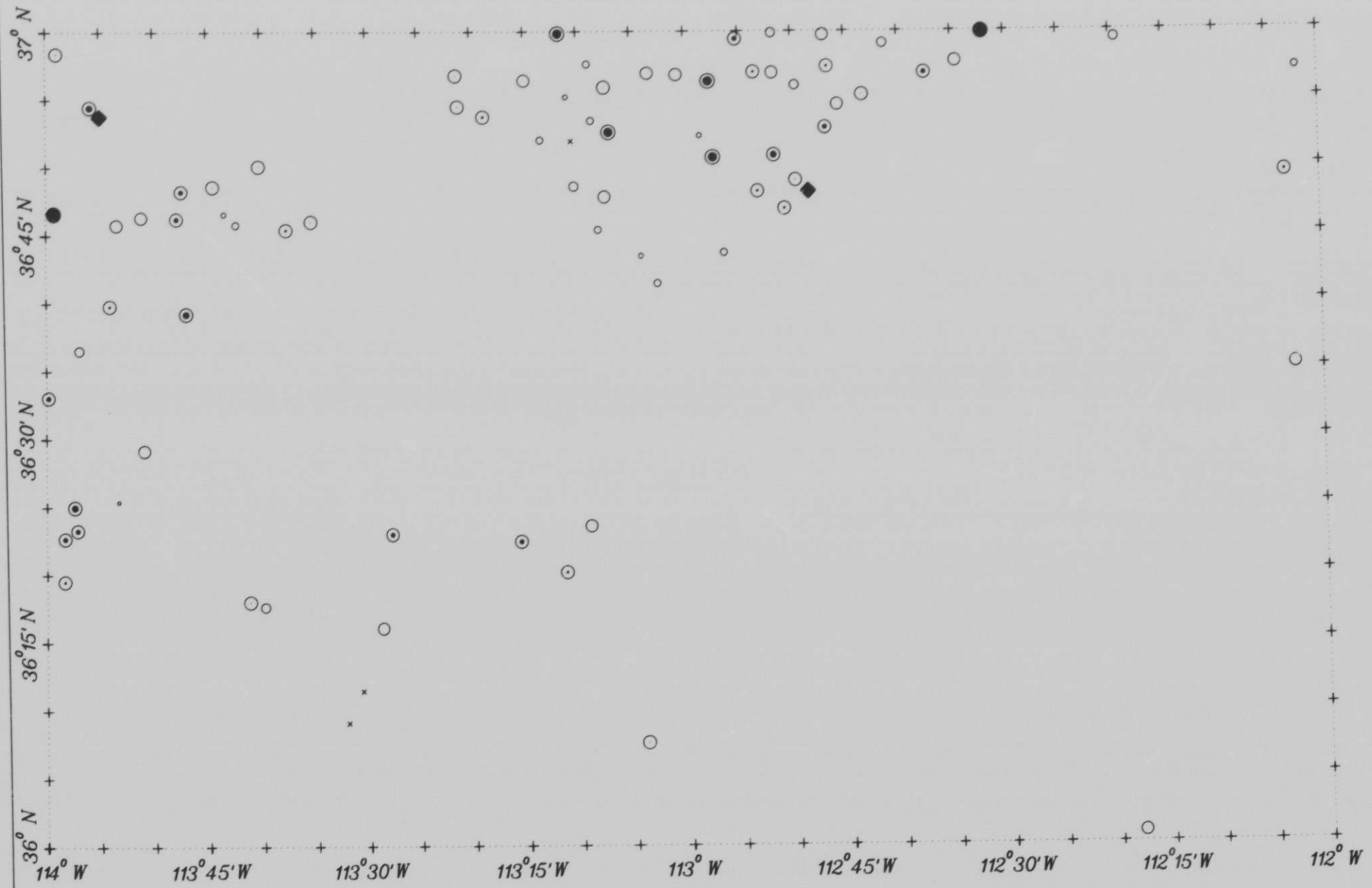
Helium Values - Ground Water Sites

81 Values Above Detection Limits

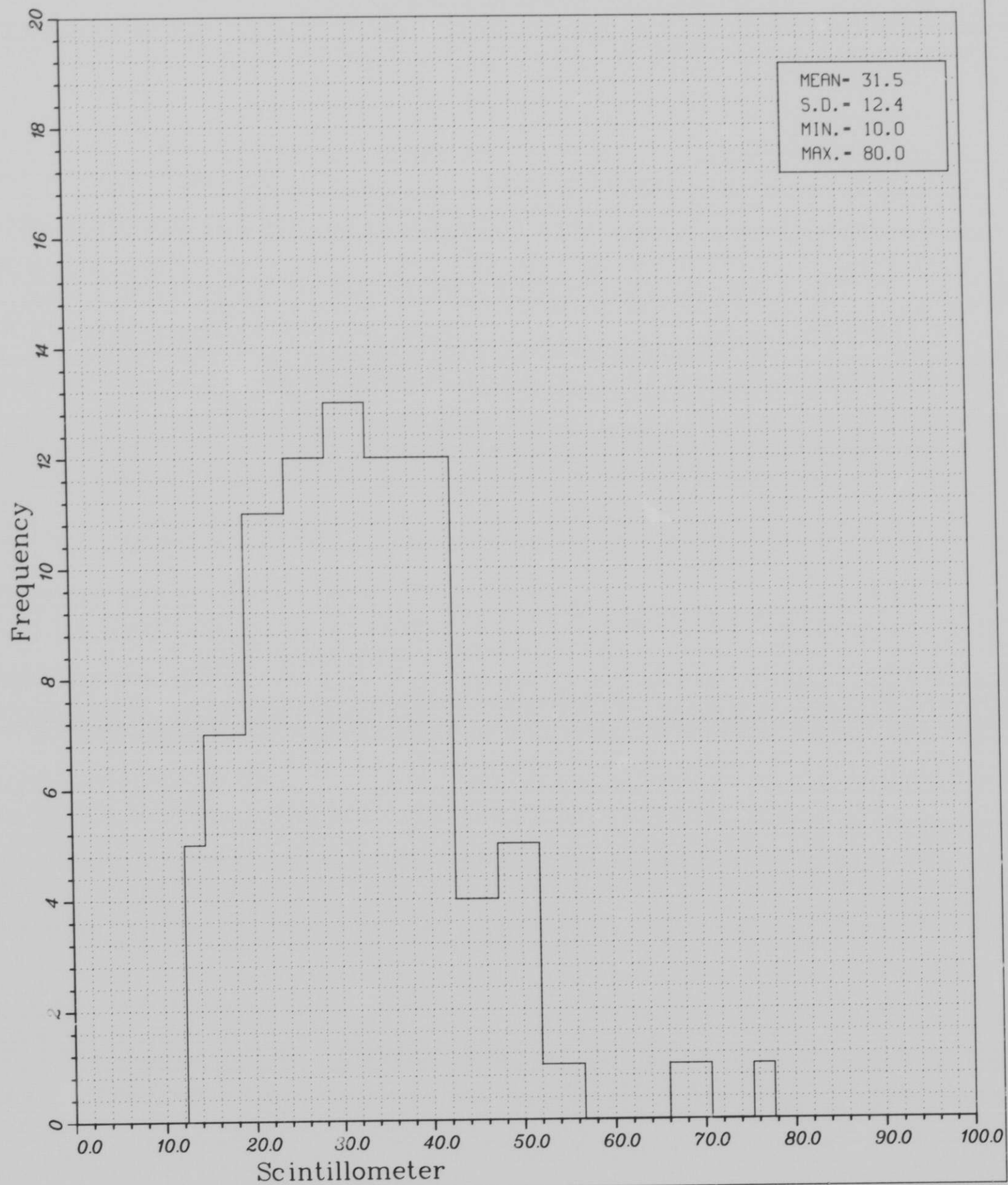


GRAND CANYON 1'x2' Sheet
 Helium In Ground Water
 84 Values Above D.L.

Helium				
+ < 0.0	o 4.1- 4.8	○ 5.4- 5.8	⊙ 6.5- 7.1	● 18.0- 65.0
x 0.0- 0.0	o 4.8- 5.2	○ 5.8- 6.2	⊙ 7.1- 9.3	◆ 65.0- 200.0
• 0.0- 4.1	○ 5.2- 5.4	⊙ 6.2- 6.5	⊙ 9.3- 18.0	★ > 200.0



GRAND CANYON 1'x2' Sheet
Histogram Scintillometer Values - Ground Water Sites
84 Values Above Detection Limits



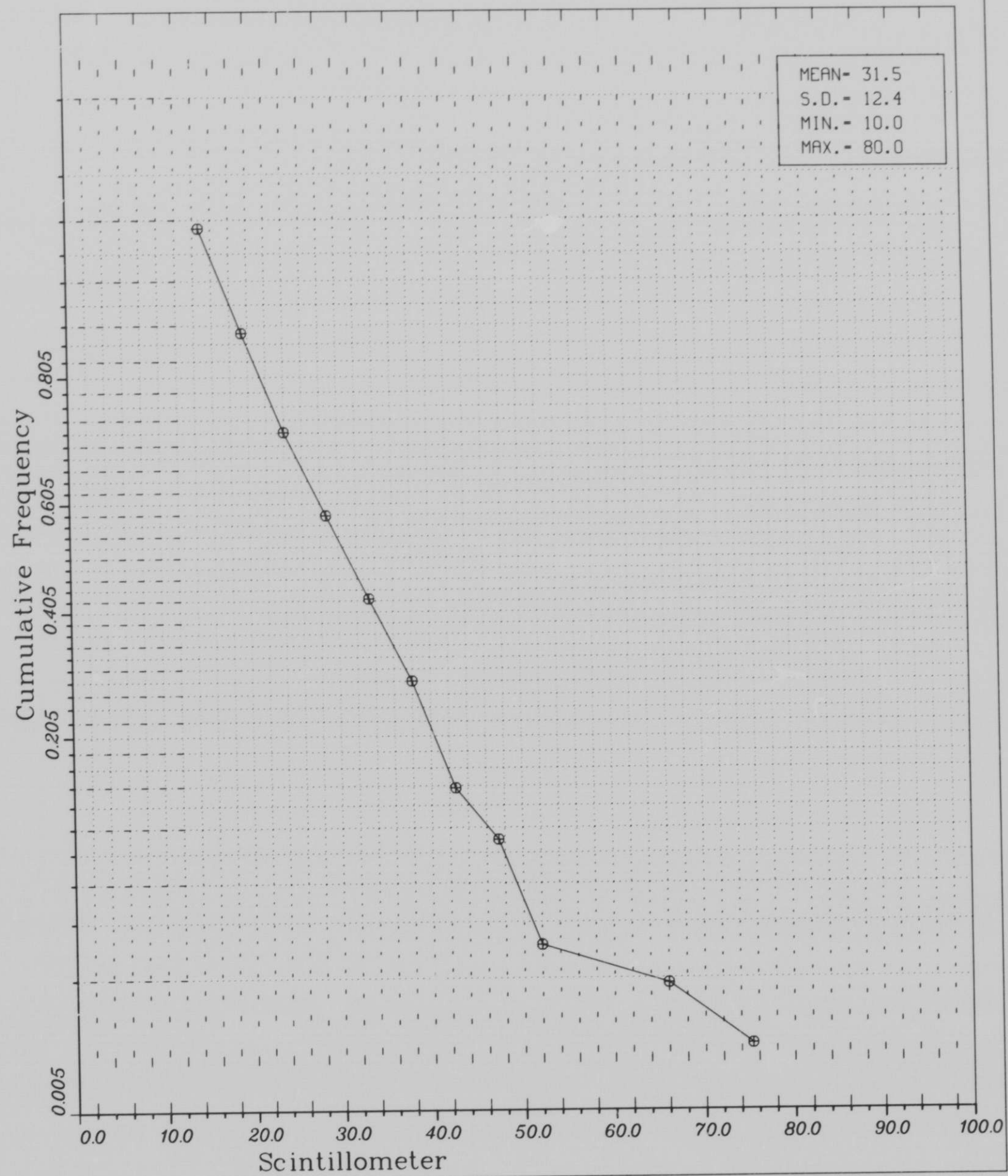
GRAND CANYON 1°x2° Sheet

Cumulative Frequency Plot

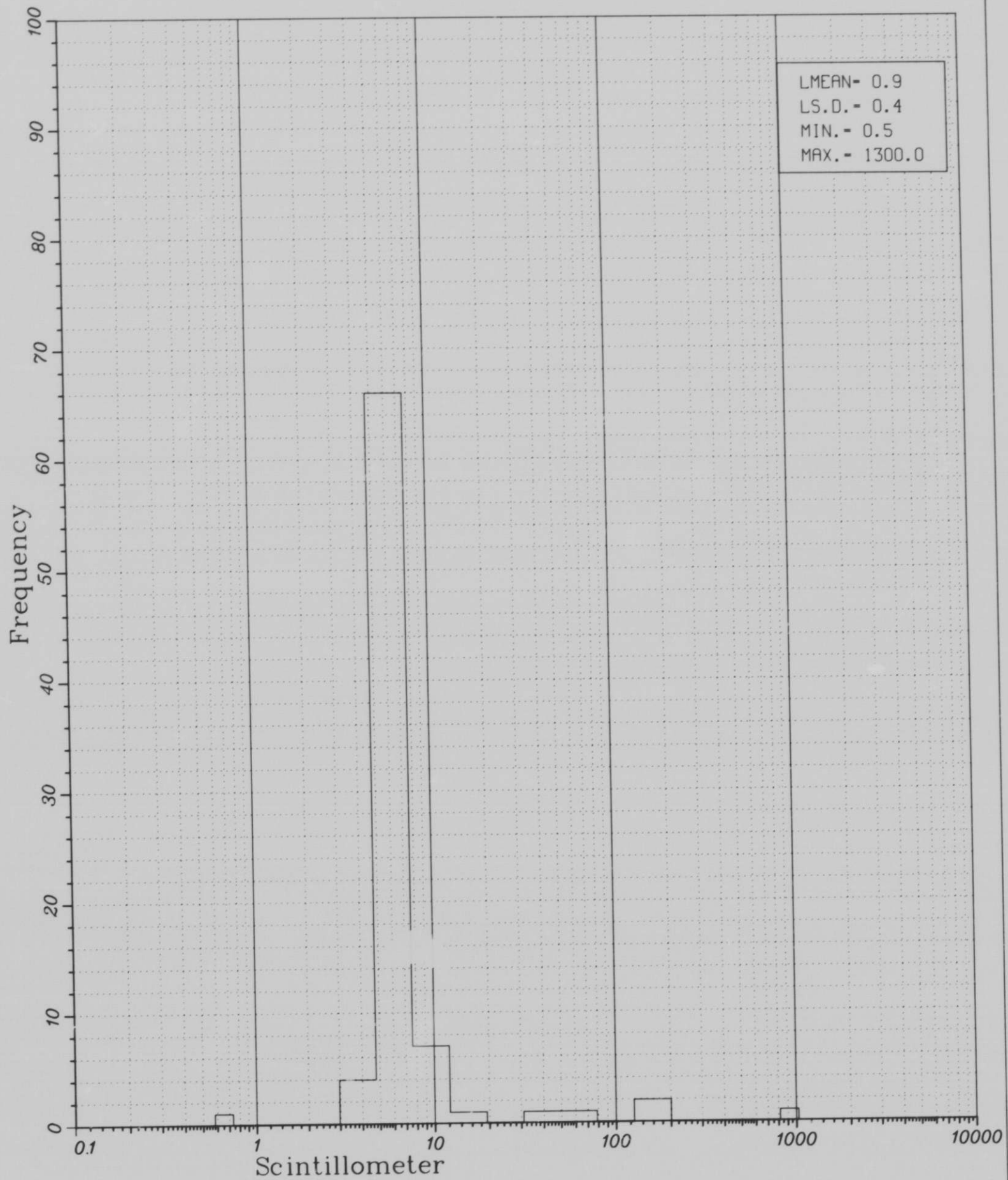
Scintillometer Values - Ground Water Sites

84

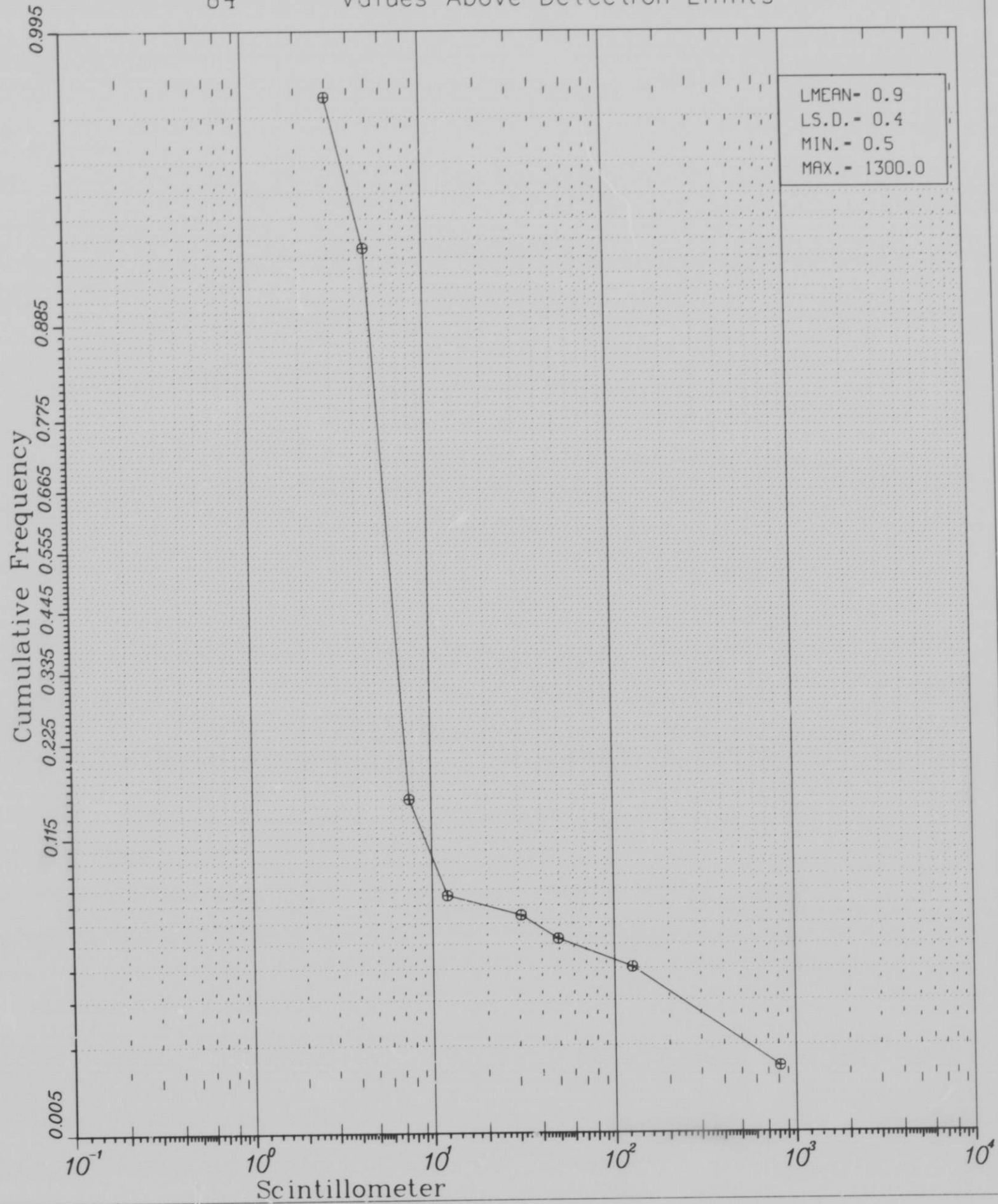
Values Above Detection Limits



GRAND CANYON 1'x2' Sheet
Log Histogram Scintillometer Values - Ground Water Sites
84 Values Above Detection Limits



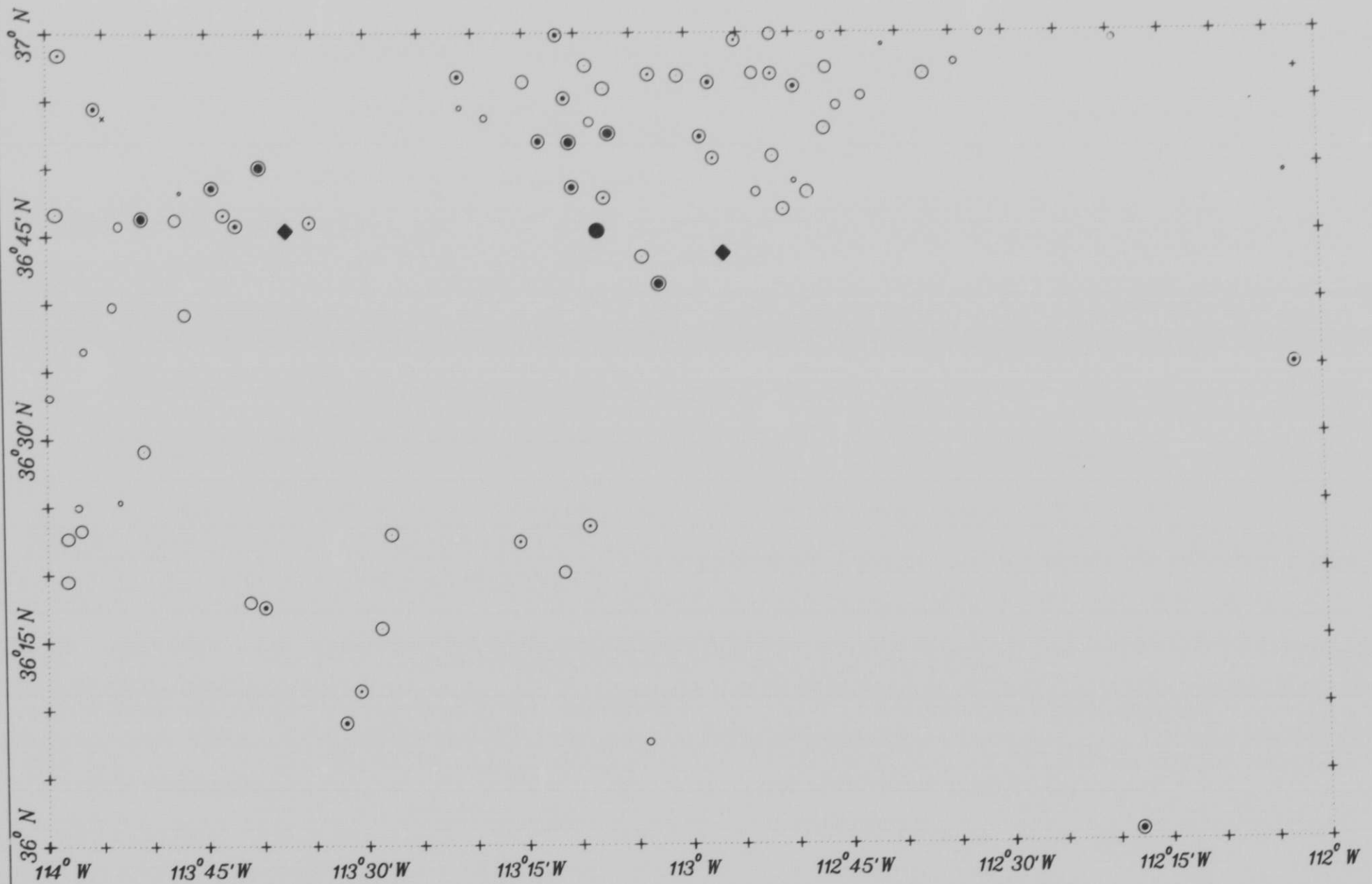
GRAND CANYON 1°x2° Sheet
Log Cumulative Frequency Plot
Scintillometer Values - Ground Water Sites
84 Values Above Detection Limits



GRAND CANYON 1x2° Sheet
 Scintillometer In Ground Water
 84 Values Above D.L.

Scintillometer

+ < 10.0	○ 14.0- 16.0	○ 24.0- 28.0	⊙ 37.0- 42.0	● 51.0- 52.0
x 10.0- 12.0	○ 16.0- 20.0	○ 28.0- 34.0	⊙ 42.0- 47.0	◆ 52.0- 80.0
• 12.0- 14.0	○ 20.0- 24.0	⊙ 34.0- 37.0	⊙ 47.0- 51.0	★ > 80.0



USER'S GUIDE to SRL Western Data Reports

ABSTRACT

This document provides a detailed description of Data Reports of the western quadrangles that have been prepared by Savannah River Laboratory (SRL) personnel for the National Uranium Resource Evaluation (NURE) program of the US Department of Energy (DOE).

The Guide includes discussions of the following topics:

- (1) sample collection and field measurements;
- (2) format, abbreviations, and codes used in data tables;
- (3) graphical presentations and maps;
- (4) quality assurance programs for sample collection, and analysis.

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INTRODUCTION

This document provides a detailed description of Data Reports of the western quadrangles that have been prepared by Savannah River Laboratory (SRL) personnel for the National Uranium Resource Evaluation (NURE) Program. The format described here was established for Data Reports in mid-1978. The descriptions of tables and figures are general enough to be applied to future Data Reports. However, some minor changes in format may be made as the program progresses.

SRL participation in the NURE Program is summarized in NURE-SRL progress reports (SRL-138).

SAMPLE COLLECTION AND FIELD MEASUREMENTS

Sampling personnel were trained by SRL staff members according to procedures in published SRL documents. In the western quadrangles, the principal document was the Training Manual for Water and Sediment Geochemical Reconnaissance (Price and Jones, 1979).

A minimum of five sediment sub-samples was composited from each stream site. A minimum of ten sediment sub-samples was collected for each soil site. An approximately 400-g sample of sediment passing a 420-micrometer screen (U.S. Std. 40 mesh) was collected at each site. In some areas a second fraction passing through a 1000-micrometer screen (U.S. Std. 18 mesh) but not passing through a 420-micrometer screen was also collected.

Dissolved ions in individual water samples were concentrated in the field on portions of ion exchange resin (GJBX-77(77)). The resin was subsequently analyzed at SRL. Special procedures not included in the training manual were employed in certain areas; for example, special ground water samples were collected for the analysis of helium.

A figure in the paper text illustrates the field form completed at each sample collection site. Entries are self-explanatory. The manual (Price and Jones, 1979) describes in detail the equipment and techniques (including criteria for site selection) for collecting samples and for making field measurements.

Normal density for ground water and stream sampling in rural areas varies from 13 to 25 square kilometers (5 to 10 sq mi) per site. Surface sample density may be higher where ground water sampling is sparse. Supplemental samples are taken at sites of high radioactivity, or other locations judged by the sampler to be of relatively high uranium potential.

Sampling site locations are marked precisely on compilation maps. The maps are returned to SRL for determination of geographic coordinates. An electronic digitizer (SRL-138) is used to measure and verify latitude and longitude for each site, and these data are then entered into the SRL-NURE data base.

A plate showing ground water sampling sites and SRL identification numbers is included in each report. On this plate, well and spring sites are distinguished by the use of a plus (+) for wells and a circle (o) for springs. Printing modes for the ground water plate are shown in figure 2 of this User's Guide. Another plate, showing the surface sampling sites and SRL identification numbers, is also included in each report. Printing modes for the surface sample plate are shown in figure 1 of this User's Guide.

**** figure 1 ****

```
-----  
| Print Modes |  
| for         |  
| Surface Sites |  
|-----|  
|          |  
| NCAS + 023 |  
| + NCAS 023 |  
| NCAS 023 + |  
|   NCAS 023 |  
|     +      |  
|     +      |  
|   NCAS 023 |  
|     +      |  
|   NCAS     |  
|     +      |  
|   023      |  
|-----|  
| +(site location) |  
|-----|
```

figure 1. Print modes for Surface Sampling Site Identifiers.

***** figure 2 *****

Print Modes for WELLS	Print Modes for SPRINGS
NCAS + 558	NCAS 0 558
+ NCAS 558	0 NCAS 558
NCAS 558	NCAS 558
+	0
+ NCAS 558	0 NCAS 558
NCAS	NCAS
+ 558	0 558
+(site location)	0(site location)

figure 2. Print modes for Ground Water Sampling Site Identifiers.

DATA PRESENTATION

In each SRL Data Report, sampling point coordinates, field data, and the most important field measurements and analytical data are presented together. These measurements are also presented in areal distribution figures. Other field and analytical data are given in tables only. Each element also has a statistical summary figure.

Detailed cumulative frequency plots are included in the margins of the 1x2 degree map figures. All samples are included in the cumulative frequency plots. These cumulative frequency plots also show the relationship between cumulative frequency and standard deviation.

The following section presents a brief explanation of the columnar entries for tables and descriptions of histograms, cumulative frequency plots and areal symbol plots.

1. Columnar Entries for Ground Water Data.
Table A-1 on separate microfiche.

SRL Site Designator

Each SRL site designator consists of four characters and three digits. The first two positions denote the 1x2 degree National Topographic Map Series (NTMS) quadrangle containing the sample. Positions three and four contain map designators; these represent 15-minute quadrangles and are defined in figure 3 of this guide. Samples are numbered sequentially within each map unit (positions five through seven). Numbers begin with 501 in each map unit for ground water and are generally consecutive. Columns 8 and 9 identify the type of sample used for irradiation; water samples are irradiated as resins, symbolized by an R in column 8.

***** figure 3 *****

AA	AB	AC	AD	AE	AF	AG	AH
BA	BB	BC	BD	BE	BF	BG	BH
CA	CB	CC	CD	CE	CF	CG	CH
DA	DB	DC	DD	DE	DF	DG	DH

figure 3. Map Unit Codes for the 15 Minute Quadrangles
Superposed on the 1X2 Degree NTMS Sheet

DOE Identification Number

Each sample is assigned a DOE ID. The number consists of 28 digits as follows:

- 1-2 State (See table 1 of this User's Guide)
- 4-10 Latitude of the site
- 12-19 Longitude of the site
- 21 Laboratory code (SRL = 4)
- 23-24 Sample type (See table 2 of this User's Guide)
- 26-28 Replicate code. Generally, only original samples (000) are reported.

pH

Usually pH ranges between 4.0 and 9.5. Values far outside this range imply instrument malfunction or pollution. Missing data are indicated by an "M".

COND

Conductivity, measured in micromhos/cm.

AKMXD

Alkalinity as milliequivalents of sulfuric acid required per liter of sample (meq/L) to titrate to a pH of approximately 4.5 (end-point for bromocresol-green/methyl-red indicator solution).

DPTH

Depth of the well in feet, if known. This number is generally provided by the householder. An estimate of the confidence in this number is given in Table A-2. U indicates that the well depth is not known. Springs are coded as having a depth of 0 feet.

**** table 1 ****

STATE	CODE	STATE	CODE
Alabama.....	01	Nevada.....	32
Arizona.....	04	New Hampshire.....	33
Arkansas.....	05	New Jersey.....	34
California.....	06	New York.....	36
Connecticut.....	09	North Carolina.....	37
Delaware.....	10	Ohio.....	39
District of Columbia..	11	Oklahoma.....	40
Florida.....	12	Oregon.....	41
Georgia.....	13	Pennsylvania.....	42
Idaho.....	16	Rhode Island.....	44
Illinois.....	17	South Carolina.....	45
Indiana.....	18	Tennessee.....	46
Kentucky.....	21	Texas.....	48
Louisiana.....	22	Utah.....	49
Maine.....	23	Vermont.....	50
Maryland.....	24	Virginia.....	51
Massachusetts.....	25	Washington.....	53
Michigan.....	26	West Virginia.....	54
Mississippi.....	28		
Missouri.....	29		

Table 1. State Codes used in DOE Identification Number.

**** table 2 ****

NUMBER	SAMPLE TYPE
50.....	Stream sediment from flowing stream, sieved <149 micrometers and dried <=110 degrees C.
51.....	Stream water, filtered through <=0.8 micrometer filter at the site.
52.....	Well water, filtered through <=0.8 micrometer filter at the site.
53.....	Spring water, filtered through <=0.8 micrometer filter at the site.
54.....	Lake water, filtered through <=0.8 micrometer filter at the site.
55.....	Lake sediment.
56.....	Glacial till.
57.....	Peat.
58.....	Soil, sieved > 420 micrometers and < 1000 micrometers.
59.....	Soil, sieved < 149 micrometers.
60.....	Stream sediment from dry stream, sieved > 420 micrometers and < 1000 micrometers, and dried <= 110 degrees C.
61.....	Stream sediment from dry stream, sieved < 149 micrometers and dried <= 110 degrees C.
62.....	Talus.
63.....	Volcanic neck.
64.....	Playa sediment.
65.....	Hot springs, sinter.
66-69.....	Spare numbers(*).

*: to be noted in individual reports as necessary.

table 2. Type Codes used in DOE Identification Number. The 28-digit DOE ID for NURE samples contains two digits denoting the sample type.

U

Uranium in ground water is determined by delayed neutron counting after concentrating the uranium on ion exchange resin. U is reported in parts per billion (PPB).

Values have been rounded to appropriate significant figures. Values for uranium are reported for all samples analyzed; however, analyses <0.040 ppb exhibit a high coefficient of variation. Missing data are indicated by "M". Where all analytical data for a sample are missing, samples will generally be analyzed and reported in a supplementary report.

U/COND

Uranium concentration in ppb multiplied by 1000 and divided by conductivity is listed in this column. This value gives an approximation of the ratio of uranium to total dissolved solids.

HELIUM

Helium is determined for selected quadrangles using a specially developed mass spectrometric procedure (SRL-13B,3b). Where available, helium values are reported in standard cubic centimeters of helium per 1000 liters of air (cc He/1000L, i.e., ppm by volume). The measurement is made on a 2 cc air-gap above a 300 cc water sample. This method introduces an almost unvarying 5.2 ppm helium background from air; thus, all samples are well above detection limit.

Other Key Elemental Analyses

Other elements analyzed were determined by neutron activation analysis (unless otherwise noted) and are listed alphabetically. Concentrations are reported in ppb. Values below detection limit are indicated by a minus (-). For example, -3 means that the sample contains less than 3 ppb of that element. If the background is so high that an accurate estimate of the minimum detection limit is not available, a period (.) is used to indicate not only that the element was not detected, but also that the detection limit is unusually high for that sample. Missing data are indicated by an "M". Where all analytical data for a sample are missing, the sample will generally be analyzed and reported in a supplementary report.

- II. Columnar Entries for Supplementary Ground Water Data, table A-2 on separate microfiche.

SRL Site Designator

same as in table A-1.

Supplementary Elemental Analyses

Same format as table A-1.

SAMPDATE

The date of sampling (month/day/year). For example, 7/15/77 is July 15, 1977.

TEAM

This number identifies the sampling personnel and is used by SRL for quality assurance monitoring.

ROCKTYPE

This code identifies the predominant rock type present in the immediate vicinity of the sample site. The types listed are:

1 Other (explained on back)	6 Clastic-coarse
2 Volcanic - Felsic	7 Sandstone
3 Volcanic - Mafic	8 Shale
4 Plutonic - Felsic	9 Carbonate
5 Metamorphic	0 Unconsolidated valley fill

CONTAMN

The activities/contaminants columns indicate those nearby activities which may influence the analytical results. They are very important entries, chosen from the given list. The most significant activity and/or source of contamination is listed under CONTAMN4. Other activities, if considered important, are listed under CONTAMN3, CONTAMN2, and CONTAMN1, in descending order of importance.

CONTAMN1	1 Other (explained on back)	6 Garbage
CONTAMN2	2 None	7 Farming
CONTAMN3	3 Chemical	8 Grazing
CONTAMN4	4 Smelting	9 Oil field
	5 Mining	

FORMATION

This code indicates the geologic formation surrounding the sampling site. The first letter and the next three consonants in the formation name are entered. If the formation name lacks consonants, the first four letters are used. In the same way, the age is entered if the name of the formation is unknown. For example, a rock of Cambrian age is entered as "CMBR". If neither the formation or the age is known, "UNKN" is entered.

WELLODOR

Odors in well water are recorded. The entries in this column and their meanings are:

- 1 Other (explained on back of field form)
- 2 None
- 3 H₂S (hydrogen sulfide)
- 4 Oil

WATRTEMP

The water temperature at the time of sampling is recorded in this column. The water temperature is recorded in degrees Celsius to the nearest whole degree.

DPTHCONF

Confidence in the values of well depths is listed in this column. The possible entries are:

- 1 Certain
- 2 Probable
- 3 Possible
- 4 Educated Guess
- 5 Unknown

Any site with "U" listed in DPTH should have "5" listed for DPTHCONF.

SHPPPOINT

The positions at which samples are taken are listed in this column. The positions listed are relative positions in plumbing systems. The entries and their meanings are:

- 1 Other (explained on back of field form)
- 2 Immediately after storage tank
- 3 From pipe before storage tank
- 4 Direct from pump
- 5 Direct from well or spring
- 6 From municipal system

WELCLASS

Sampled wells are classified by use. The classes of wells recognized here are:

1 Other (explained on back)	4 Livestock
2 Domestic	5 Irrigation
3 Municipal	6 Industrial - Commercial

SCINT

A gamma-ray scintillometer reading in counts per second is recorded at the sampling site.

III. Columnar Entries for Sediment Data.
table B-1 on separate microfiche.

SRL Site Designator

Each SRL site designator consists of four characters and three digits. The first two positions denote the 1X2 degree NTMS quadrangle in which the sample was collected. Positions 3 and 4 contain the map designators, which represent 15-minute quadrangles. These are defined in figure 3 of this User's Guide. Positions 5, 6, and 7 contain the sample number, which is unique within that 15-minute quadrangle. Numbers begin with 001 in each map unit and are generally consecutive. Columns 8 and 9 represent the sample analyzed. In most reports, the S1 fraction (finer than 149 micrometers (U.S. Std. 100 mesh)) was analyzed. S0 and S2 mean that coarser (149 micrometers to 1000 micrometers) or finer (<75 micrometers) fractions, respectively, were analyzed. Specific fractions will be identified in individual reports as necessary.

DOE Identification Number

Each sample is assigned a 28-digit DOE ID as described for table A-1.

FORMATION, ODOR, pH, COND, UM/CM, AKMXD, MEQ/L

Same format as table A-1.

Key Elemental Analyses

The first three elements are listed in order of importance; other key elements are listed alphabetically.

Concentrations of each element (in PPM) are determined by neutron activation analysis (unless otherwise noted). Note that elemental (not oxide) concentrations are quoted in this table. Values below detection limit are indicated by a minus (-). For example, -3 means that the sample contains less than 3 ppm of that element. If background limit is not available, a period (.) is used to indicate not only that the element was not detected, but that the detection limit is unusually high for that sample. Missing data are indicated by "M".

IV. Columnar Entries for Supplementary Sediment Data.
Tables B-2 and B-3 on separate microfiche.

SRL Site Designator

Same as in table B-1.

Supplementary Elemental Analyses

Same format as table B-1.

SAMPDATE

The date of sampling, month/day/year. For example, 7/15/79 is July 15, 1979.

TEAM

This number identifies the sampling personnel and is used by SRL for quality assurance monitoring.

ROCKTYPE

This and following columns contain codes describing the sample site characteristics. Rocktype identifies the predominant rock type present in the immediate vicinity of the sampling site. The types listed are:

- | | |
|-----------------------------|------------------------------|
| 1 Other (explained on back) | 6 Clastic - coarse |
| 2 Volcanic - mafic | 7 Sandstone |
| 3 Volcanic - felsic | 8 Shale |
| 4 Plutonic - felsic | 9 Carbonate |
| 5 Metamorphic | 0 Unconsolidated valley fill |

SEDSIZE

This code reflects the nature of the loose sediment material at the sampled site.

- | | |
|-----------------------------|-----------------|
| 1 Other (explained on back) | 4 Silt and Clay |
| 2 Pebbles and coarser | 5 Organic muck |
| 3 Sand | |

STMWIDTH AND STMDEPTH

- | | |
|---------------|--------------|
| 1 Dry | 5 2 to 4 ft |
| 2 <1/2 ft | 6 4 to 8 ft |
| 3 1/2 to 1 ft | 7 8 to 16 ft |
| 4 1 to 2 ft | |

An estimate of the average width and depth of the stream over the 100 to 200 feet of stream length where the sample was taken.

STMFLOW

STMLEVEL

- | | |
|------------|----------|
| 1 Dry | 1 Dry |
| 2 Slow | 2 Low |
| 3 Moderate | 3 Normal |
| 4 Fast | 4 High |
| 5 Torrent | |

The water description provides an indication of the general condition of the water at the time of sampling. STMFLOW indicates the rate of flow using the listed descriptors at the sampled location (i.e., if a stream is sampled in rapids, the 4 (Fast) or 5 (Torrent) may apply; but if the same stream were sampled above or below the rapids, the 2 (Slow) or 3 (Moderate) descriptors would be more accurate). STMLEVEL describes the water level relative to its apparent normal level.

VEGTYPE

VEGDENS

- | | |
|-----------------------------|------------|
| 1 Other (explained on back) | 1 Sparse |
| 2 Forest | 2 Moderate |
| 3 Desert Scrub | 3 Dense |
| 4 Grassland | |
| 5 Saltbrush | |
| 6 Marsh | |

These descriptors reflect the amount and type of plant growth in the immediate area of the sample location. The density is a subjective observation made in relation to visibility, ease of access, etc. The type of vegetation reflects the dominant plant type at or near the sample location.

RELIEF

- 1 0 to 10 ft
- 2 10 to 50 ft
- 3 50 to 200 ft
- 4 >200 ft

Relief is an indicator of local surface expression.

COMPOSIT

COMPOSIT shows the number of subsamples taken at each site that are composited to give the sieved sample for that site.

CONTAMN

The activities/contaminants columns indicate those nearby activities which may influence the analytical results. They are very important entries, chosen from the given list. The most significant activity and/or source of contamination is listed under CONTAMN4. Other activities, if considered important, are listed under CONTAMN3, CONTAMN2, and CONTAMN1, in descending order of importance.

CONTAMN1	1	Other (explained on back)	6	Garbage
CONTAMN2	2	None	7	Farming
CONTAMN3	3	Chemical	8	Grazing
CONTAMN4	4	Smelting	9	Oil field
	5	Mining		

WATRTEMP

The water temperature, taken at the time of sampling, is coded under WATRTEMP. The water temperature is recorded in degrees Celsius to the nearest whole degree.

V. Columnar Entries for Stream Water Data, table C-1 on separate microfiche.

SRL Site Designator

Each SRL site designator consists of four characters and three digits. The first four positions define the general position of the sampled site. Characters one and two denote the 1X2 degree NTMS sheet. Characters three and four denote the 15-minute quadrangle within the sheet (see figure 3). Positions five through seven contain the sample number. All seven positions in the stream water sample designator are identical to those of the stream sediment sample taken at the same site. Position 8, however, contains an R, showing that the sample consists of ion exchange resin.

DOE Identification Number

Each sample is assigned a 28-digit DOE ID, as described for table A-1.

FORMATION, ODOR, pH, COND, UM/CM, AKMXD, MEQ/L

Same format as table A-1.

U, U/cond*1000, and the other nine elemental analyses

Same format as table A-1.

VI. Graphical Data and Maps

All measurements in tables A-1 and B-1 and the elemental concentrations in A-2, B-2, B-3 and C-1 are displayed in areal distribution figures (symbol plots), histograms, and cumulative frequency plots if there is enough data to make meaningful figures. The symbols for the areal distribution figures are derived from the statistical distribution of the measurements within the quadrangle being reported. Symbols are used for categories based on statistical distribution rather than absolute magnitude, for a convenient comparison of elements with widely differing concentration ranges.

QUALITY ASSURANCE FOR SAMPLE COLLECTION

Three to ten percent of the sampled sites were routinely checked by SRL personnel or by a separate subcontractor to assure that the reported field locations were accurate. Details of the quality assurance program are shown in NURE-SRL progress reports (SRL-138).

Field measurements were checked for approximately 2% of the sites. Where important variations occurred, the sampling subcontractor was required to repeat measurements for the area in question.

REFERENCES FOR USER'S GUIDE

GJBX-77(77), Proceeding of Symposium on Hydrogeochemical and Stream Sediment Reconnaissance for Uranium in the United States, Grand Junction, Colorado, March 16 and 17, 1977: DOE-GJO Document No. GJBX-77(77).*

Price, V., and Jones, P. L., 1979, Training Manual for Water and Sediment Geochemical Reconnaissance: SRL Document DPST-79-219, E. I. du Pont de Nemours & Co., Inc., Savannah River Laboratory, Aiken, South Carolina.

SRL-138, NURE-SRL Progress Reports:

1. Savannah River Laboratory Quarterly Reports: Hydrogeochemical and Stream Sediment Reconnaissance - Eastern United States: National Uranium Resource Evaluation Program: E. I. du Pont de Nemours & Co., Inc., Savannah River Laboratory, Aiken, South Carolina.

No.	Quarter	SRL Document No.	DOE-GJO Document No.*
a	January-March 1975	DPST-75-138-1	GJBX-5(76)
b	April-June 1975	DPST-75-138-2	GJBX-6(76)
c	July-September 1975	DPST-75-138-3	GJBX-7(76)
d	October-December 1975	DPST-75-138-4	GJBX-8(76)
e	January-March 1976	DPST-76-138-1	GJBX-17(76)
f	April-June 1976	DPST-76-138-2	GJBX-27(76)
g	July-September 1976	DPST-76-138-3	GJBX-63(76)
h	October-December 1976	DPST-76-138-4	GJBX-61(77)
i	January-March 1977	DPST-77-138-1	GJBX-35(77)
j	April-June 1977	DPST-77-138-2	GJBX-55(77)
k	July-September 1977	DPST-77-138-3	GJBX-90(77)
l	October-December 1977	DPST-77-138-4	GJBX-37(78)
m	January-March 1977	DPST-78-138-1	GJBX-66(78)

2. Savannah River Laboratory Semiannual Reports; Hydrogeochemical and Stream Sediment Reconnaissance - Eastern United States; National Uranium Resource Evaluation Program; E. I. du Pont de Nemours & Co., Inc., Savannah River Laboratory, Aiken, South Carolina.

no.	Period	SRL Document No.	Document No.*
a	April-September 1978	DPST-78-138-2	GJBX-131791

3. Savannah River Laboratory Semiannual Reports; Hydrogeochemical and Stream Sediment Reconnaissance; National Uranium Resource Evaluation Program; E. I. du Pont de Nemours & Co., Inc., Savannah River Laboratory, Aiken, South Carolina.

no.	Period	SRL Document No.	Document No.*
a	October 1978-March 1978	DPST-79-138-1	GJBX-861791
b	April-September 1979	DPST-79-138-2	GJBX-131791

* DOE-GJO reports are available on microfiche from the Grand Junction Office, DOE, for \$6.00. Prepaid orders should be sent to: Bendix Field Engineering Corporation, Technical Library, P. O. Box 1569, Grand Junction, Colorado 81501. Checks or money orders should be made out to Bendix Field Engineering Corporation, the operating contractor for DOE's Grand Junction Office.

TABLE B-1 TABULATION OF KEY FIFD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

1

SRL I.D.	DOE I.D.	PH	COND.	AKHXD	U	TH	HF	SCINT	CE	FE	MN	NA	SC	Tl	V
*****			UM/CM	MEQ/L	PPM	PPH	PPH	CPS	PPM	PPM	PPH	PPM	PPH	PPH	PPH
GCAA00151	04-36.9131-113.9271-4-61-000	.	.	.	2.2	8	9	30	.	-3070	300	6100	4.2	.	60
GCAA00251	04-36.9403-113.9253-4-59-000	.	.	.	3.0	12	13	26	80	23900	420	6900	4.5	3200	50
GCAA00351	04-36.9474-113.8822-4-59-000	.	.	.	1.8	4	14	20	18	8600	110	1500	1.4	900	10
GCAA00451	04-36.9828-113.8136-4-59-000	.	.	.	1.1	2	7	15	-3	33.00	60	900	1.1	700	10
GCAA00551	04-36.9798-113.8405-4-61-000	.	.	.	1.3	-1	9	14	-10	-27.00	50	500	0.6	600	10
GCAA00651	04-36.7653-113.8999-4-50-000	7.8	900	5.70	4.0	32	10	40	159	62400	1120	15900	11.7	3200	110
GCAA00751	04-36.7702-113.8517-4-59-000	.	.	.	6.7	18	12	48	101	26000	820	8600	8.7	3500	70
GCAA00851	04-36.7926-113.8397-4-59-000	.	.	.	3.7	14	7	45	109	37600	1100	5300	8.7	3400	60
GCAA00951	04-36.7684-113.7978-4-59-000	.	.	.	2.7	9	8	28	52	30900	650	7000	5.0	3000	60
GCAA01051	04-36.7957-113.7912-4-59-000	.	.	.	2.4	9	10	23	78	40700	550	4800	7.6	4900	90
GCAA01151	04-36.8029-113.7683-4-59-000	.	.	.	2.1	8	6	30	52	33500	400	3800	6.0	3000	50
GCAA01251	04-36.9722-113.7541-4-61-000	.	.	.	1.5	1	17	18	18	4600	50	400	1.4	900	10
GCAA01351	04-36.9596-113.8021-4-61-000	.	.	.	2.5	5	13	20	33	11500	170	2100	2.6	1100	20
GCAA01451	04-36.9043-113.8814-4-59-000	.	.	.	3.0	10	11	18	67	23000	390	5000	4.1	2400	40
GCAA01551	04-36.9146-113.8432-4-62-000	.	.	.	2.6	4	19	15	23	7400	290	2900	2.0	1800	30
GCAA01651	04-36.8826-113.8402-4-61-000	.	.	.	2.2	8	8	37	.	-24.00	270	5500	3.2	1700	40
GCAA01751	04-36.8594-113.9642-4-61-000	.	.	.	2.4	12	17	26	67	19800	400	5500	4.3	2900	60
GCAA01851	04-36.8475-113.8615-4-61-000	.	.	.	2.2	6	11	20	32	14700	290	5200	2.8	2800	40
GCAA01951	04-36.7786-113.9680-4-59-000	.	.	.	2.4	9	11	30	63	22700	360	4100	4.5	2100	50
GCAA02051	04-36.7962-113.9681-4-59-000	.	.	.	3.0	15	10	38	60	35400	770	11100	7.3	3800	80
GCAA02151	04-36.7725-113.9223-4-61-000	.	.	.	5.3	24	10	45	93	-4700	1390	11000	13.9	4300	110
GCAA02251	04-36.7976-113.9259-4-59-000	.	.	.	3.7	19	13	42	111	44400	770	10100	8.9	.	80
GCAA02351	04-36.8464-113.9368-4-59-000	.	.	.	3.2	15	15	42	83	33300	550	9600	10.5	3800	70
GCAA02451	04-36.8572-113.8947-4-61-000	.	.	.	3.8	17	8	40	.	28800	530	5500	5.0	2700	60
GCAA02551	04-36.8472-113.8979-4-61-000	.	.	.	10.8	98	12	70	408	73100	1340	7000	17.4	5000	110
GCAA02651	04-36.8155-113.9080-4-50-000	8.6	520	3.60	5.9	18	15	32	104	31200	1180	20600	12.3	4900	130
GCAA02751	04-36.8848-113.9062-4-61-000	.	.	.	6.3	30	13	46	.	38900	970	7300	8.1	4600	60
GCAA02851	04-36.9043-113.9659-4-59-000	.	.	.	3.1	15	18	18	73	25500	370	6790	3.8	3600	60
GCAA02951	04-36.9608-113.7755-4-61-000	.	.	.	1.8	6	14	22	24	8900	150	2000	2.3	1200	20
GCAA03051	04-36.9832-113.8859-4-59-000	.	.	.	2.7	10	10	24	45	18600	330	4800	3.1	1900	40
GCAA03151	04-36.9987-113.8631-4-59-000	.	.	.	3.2	16	17	28	53	22500	330	5400	2.1	2700	50
GCAA03251	04-36.9812-113.9183-4-59-000	.	.	.	2.8	11	12	19	52	18500	390	5300	3.8	.	40
GCAA03351	04-36.9326-113.8279-4-62-000	.	.	.	2.6	4	11	20	19	6800	390	3400	2.2	2700	30
GCAA03451	04-36.8772-113.7858-4-59-000	.	.	.	2.4	12	12	23	.	-3100	460	5400	7.0	3700	70
GCAA03551	04-36.8727-113.7607-4-59-000	.	.	.	2.8	10	11	30	68	27000	580	8400	3.9	2500	50
GCA800151	04-36.9834-113.6419-4-59-000	.	.	.	2.4	7	12	55	30	17700	260	4200	4.0	2000	40
GCA800251	04-36.9883-113.6805-4-59-000	.	.	.	2.9	8	9	40	63	26600	430	7400	7.3	2400	50
GCA800351	04-36.8819-113.8822-4-61-000	.	.	.	2.3	7	5	46	14	17400	400	2700	3.1	2100	40
GCA800451	04-36.9034-113.8956-4-61-000	.	.	.	2.5	9	7	42	48	21200	380	6400	4.5	2900	40
GCA800551	04-36.9200-113.8563-4-61-000	.	.	.	2.5	7	9	35	36	17200	340	3100	5.6	1900	40
GCA800651	04-36.9523-113.8460-4-61-000	.	.	.	3.0	7	8	44	42	21600	330	3700	5.9	2300	40
GCA800751	04-36.8790-113.8583-4-61-000	.	.	.	2.7	8	6	32	49	22400	570	5500	5.3	2600	50
GCA800851	04-36.9318-113.8980-4-59-000	.	.	.	2.2	5	7	35	29	9500	230	3800	3.1	1800	30
GCA800951	04-36.9189-113.7257-4-59-000	.	.	.	2.9	9	14	45	58	20100	370	5800	5.3	3000	50
GCA801051	04-36.8867-113.7388-4-59-000	.	.	.	2.7	10	13	35	54	24800	430	6200	7.2	3800	70
GCA801151	04-36.9707-113.7373-4-61-000	.	.	.	1.6	3	22	50	15	5800	90	900	2.2	1100	20
GCA801251	04-36.8362-113.8604-4-59-000	.	.	.	2.8	12	9	42	72	21900	420	7100	5.5	2900	50
GCA801351	04-36.8217-113.6753-4-59-000	.	.	.	2.8	8	8	59	58	24200	530	6500	4.8	3300	50
GCA801451	04-36.8098-113.7402-4-59-000	.	.	.	3.1	3	3	47	24	9300	420	4800	3.4	1800	50
GCA801551	04-36.7999-113.6857-4-59-000	.	.	.	2.8	8	11	58	.	-2900	360	5500	4.5	2200	40
GCA801651	04-36.9872-113.6114-4-59-000	.	.	.	2.0	8	8	36	56	22600	420	5700	3.2	2700	60
GCA801751	04-36.9977-113.5752-4-59-000	.	.	.	2.4	5	5	38	41	24100	M	3800	5.3	-700	60
GCA801851	04-36.9812-113.5224-4-59-000	.	.	.	2.1	6	12	44	44	19200	360	6100	6.7	.	50
GCA801951	04-36.9516-113.5196-4-59-000	.	.	.	2.5	7	8	39	.	23000	530	7300	4.2	2700	60
GCA802051	04-36.9394-113.5536-4-59-000	.	.	.	2.2	7	7	36	61	11700	250	3100	3.9	1500	40

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

2

SRL I.D. *****	DOE I.D.	PH	COND. UH/CM	AKKXKD MEQ/L	U PPH	TH PPH	HF PPH	SCINT CPS	CE PPH	FE PPH	MN PPH	NA PPH	SC PPH	T1 PPH	V PPH
GCAB02151	04-36.9450-113.5995-4-59-000	.	.	.	2.3	5	6	46	28	14200	420	4700	4.7	2000	40
GCAB02251	04-36.9081-113.5943-4-59-000	.	.	.	2.7	7	12	30	-10	-3800	380	5300	4.0	2500	40
GCAB02351	04-36.8837-113.5604-4-59-000	.	.	.	2.2	7	10	38	42	17500	300	3500	3.0	2300	30
GCAB02451	04-36.8265-113.5717-4-59-000	.	.	.	2.2	6	9	35	35	16300	440	4000	4.7	3600	70
GCAB02551	04-36.7964-113.5500-4-59-000	.	.	.	2.9	9	13	36	.	19200	270	4500	3.5	2200	30
GCAB02651	04-36.7620-113.5493-4-59-000	.	.	.	2.7	6	13	43	37	14000	450	6200	4.9	3200	60
GCAB02751	04-36.7669-113.5687-4-59-000	.	.	.	2.4	8	10	35	47	20300	250	4200	3.2	1800	30
GCAB02851	04-36.7688-113.5246-4-59-000	.	.	.	2.7	8	6	57	53	23600	550	7600	8.3	2800	50
GCAB02951	04-36.7816-113.5135-4-59-000	.	.	.	1.1	3	2	25	18	5600	140	1100	1.8	1100	20
GCAB03051	04-36.8496-113.5367-4-59-000	.	.	.	2.4	9	8	34	60	24100	460	6700	4.8	3100	60
GCAB03151	04-36.8767-113.5338-4-59-000	.	.	.	0.4	1	2	20	7	2700	60	1200	0.8	M	10
GCAB03251	04-36.8242-113.5992-4-59-000	.	.	.	2.2	9	8	48	69	17600	440	6600	5.5	2900	50
GCAB03351	04-36.8862-113.6147-4-59-000	.	.	.	2.5	9	10	51	.	19100	420	7200	4.3	.	50
GCAB03451	04-36.7998-113.6162-4-59-000	.	.	.	2.9	9	12	35	70	26800	470	6200	5.1	3400	60
GCAB03551	04-36.7898-113.6610-4-59-000	.	.	.	3.0	11	16	41	66	25500	370	5400	7.8	2500	40
GCAC00151	04-36.9418-113.4676-4-59-000	.	.	.	2.3	6	6	35	48	27600	450	5600	3.5	2400	40
GCAC00251	04-36.9063-113.4292-4-59-000	.	.	.	2.6	9	12	32	43	19000	420	3600	3.6	1900	30
GCAC00351	04-36.8793-113.4250-4-59-000	.	.	.	2.2	9	8	40	64	27700	240	7600	4.9	3600	50
GCAC00451	04-36.9541-113.4374-4-59-000	.	.	.	2.5	9	13	16	47	19200	440	5900	4.5	2400	40
GCAC00551	04-36.8775-113.3485-4-59-000	.	.	.	2.2	4	3	36	22	11400	580	7900	4.1	.	50
GCAC00651	04-36.8982-113.3915-4-61-000	.	.	.	2.6	7	4	34	.	25300	600	6800	4.5	2000	60
GCAC00751	04-36.9789-113.4386-4-59-000	.	.	.	1.9	5	7	32	28	19400	500	4900	6.3	1900	40
GCAC00851	04-36.9694-113.4832-4-59-000	.	.	.	2.2	6	8	31	36	17900	1490	11100	5.6	M	40
GCAC00951	04-36.9934-113.3013-4-61-000	.	.	.	2.3	5	7	17	23	12800	1300	2600	3.8	M	40
GCAC01051	04-36.9078-113.3595-4-59-000	.	.	.	2.2	8	8	30	49	29200	340	4300	5.7	3200	60
GCAC01151	04-36.8731-113.3598-4-59-000	.	.	.	2.3	6	1	45	.	24300	600	7800	6.1	3000	50
GCAC01251	04-36.9440-113.3591-4-59-000	.	.	.	2.5	6	4	34	32	15500	1250	6700	2.6	3500	40
GCAC01351	04-36.9883-113.3377-4-59-000	.	.	.	1.9	3	11	15	36	9200	280	3200	2.0	1800	20
GCAC01451	04-36.8501-113.3909-4-59-000	.	.	.	2.4	8	12	40	49	18300	1240	3700	6.1	.	30
GCAC01551	04-36.9846-113.2514-4-59-000	.	.	.	2.6	9	8	50	58	24000	600	2100	4.5	2630	60
GCAC01651	04-36.7942-113.3878-4-59-000	.	.	.	2.3	8	6	34	59	23400	1230	M	4.8	M	50
GCAC01751	04-36.7610-113.2742-4-61-000	.	.	.	1.9	3	6	16	.	7600	170	1800	2.9	M	10
GCAC01851	04-36.7609-113.3921-4-59-000	.	.	.	3.1	10	9	30	53	23000	1140	100	3.6	2400	30
GCAC01951	04-36.7735-113.2554-4-59-000	.	.	.	2.3	4	13	20	20	7000	210	2700	3.9	3100	30
GCAC02051	04-36.7750-113.4353-4-59-000	.	.	.	2.6	8	5	36	50	21900	500	6300	5.0	2800	50
GCAC02151	04-36.8013-113.2652-4-59-000	.	.	.	2.6	6	12	19	61	13100	1220	2500	3.3	2800	40
GCAC02251	04-36.9682-113.3920-4-61-000	.	.	.	2.6	7	2	38	50	24200	490	5300	3.8	2000	50
GCAC02351	04-36.8345-113.2661-4-59-000	.	.	.	2.8	9	11	30	47	21400	410	6700	4.1	3100	50
GCAC02451	04-36.9439-113.4091-4-61-000	.	.	.	2.7	11	6	40	64	30500	540	6600	8.5	2800	70
GCAC02551	04-36.7960-113.3159-4-59-000	.	.	.	2.5	9	5	48	38	21400	510	6000	5.0	2300	40
GCAC02651	04-36.9115-113.4813-4-59-000	.	.	.	2.2	3	9	29	.	19400	340	5500	4.2	2500	40
GCAC02751	04-36.7697-113.3078-4-59-000	.	.	.	2.6	11	9	34	58	21300	370	5600	3.9	2300	40
GCAC02851	04-36.8721-113.4810-4-59-000	.	.	.	2.2	4	4	32	28	13200	580	7700	4.1	.	50
GCAC02951	04-36.8262-113.3214-4-59-000	.	.	.	2.8	6	7	38	18	9400	M	M	2.2	M	30
GCAC03051	04-36.8329-113.4316-4-59-000	.	.	.	2.6	8	8	43	57	22800	470	6000	7.4	3000	40
GCAC03151	04-36.8413-113.3504-4-59-000	.	.	.	1.7	3	2	18	16	8000	M	2800	3.3	2000	20
GCAC03251	04-36.8067-113.4515-4-59-000	.	.	.	2.6	7	8	34	45	25300	460	6000	8.2	2500	50
GCAC03351	04-36.8036-113.3608-4-59-000	.	.	.	1.9	6	7	27	36	11900	M	3600	4.0	M	20
GCAC03451	04-36.7600-113.4807-4-59-000	.	.	.	3.0	11	12	32	53	23400	1080	M	4.1	2800	50
GCAC03551	04-36.7690-113.3407-4-59-000	.	.	.	3.0	10	11	42	51	20500	480	6800	6.7	3200	50
GCAC03651	04-36.7952-113.4949-4-59-000	.	.	.	2.0	8	3	23	41	23400	510	4300	5.1	2100	50
GCAC03751	04-36.8953-113.3124-4-59-000	.	.	.	2.0	2	5	19	.	13500	220	3200	4.0	.	30
GCAC03851	04-36.8490-113.4599-4-59-000	.	.	.	2.7	8	9	26	52	19600	350	5600	4.9	2200	40
GCAC03951	04-36.9572-113.2930-4-59-000	.	.	.	3.0	7	8	29	38	14600	410	5900	4.8	3000	50
GCAC04051	04-36.9310-113.2576-4-59-000	.	.	.	2.7	9	10	43	51	20100	M	3800	3.2	M	30

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCAC04151	04-36.9147-113.2661-4-53-000	.	.	.	2.4	8	9	41	37	16800	380	M	4.3	2400	50
GCAC04251	04-36.8840-113.2768-4-59-000	.	.	.	2.7	5	7	35	.	12300	360	3800	2.6	1800	30
GCAD00151	04-36.9465-113.0116-4-59-000	.	.	.	1.9	7	6	30	35	15500	300	2100	4.0	2100	30
GCAD00251	04-36.9479-113.0462-4-59-000	.	.	.	3.8	8	27	27	36	5500	230	1500	2.4	3400	30
GCAD00351	04-36.9461-113.1002-4-59-000	.	.	.	4.0	13	21	30	71	15700	320	5600	5.5	4000	40
GCAD00451	04-36.9080-113.0514-4-59-000	.	.	.	4.1	15	31	42	75	20400	510	2200	4.4	2700	40
GCAD00551	04-36.9057-113.0148-4-59-000	.	.	.	3.0	9	13	30	59	18100	260	4200	3.5	2100	30
GCAD00651	04-36.8736-113.0486-4-59-000	.	.	.	2.6	11	5	52	63	35600	880	5700	8.4	3300	80
GCAD00751	04-36.8388-113.0564-4-53-000	.	.	.	2.2	5	9	33	.	18500	420	5600	3.4	2000	40
GCAD00851	04-36.8050-113.0568-4-59-000	.	.	.	2.1	8	5	34	55	24500	900	6900	5.3	2500	60
GCAD00951	04-36.7703-113.0541-4-56-000	.	.	.	0.8	2	2	2	13	5200	240	2500	2.7	900	30
GCAD01051	04-36.7647-113.0890-4-59-000	.	.	.	1.0	2	4	22	20	8700	230	2100	2.1	1000	20
GCAD01151	04-36.8463-113.0072-4-59-000	.	.	.	2.8	10	11	30	.	21300	450	6100	6.5	2800	40
GCAD01251	04-36.8758-113.0035-4-59-000	.	.	.	2.3	7	8	35	55	18000	460	7200	2.9	2800	40
GCAD01351	04-36.8819-113.0973-4-59-000	.	.	.	2.1	5	7	50	28	9700	410	5800	3.7	2300	40
GCAD01451	04-36.8759-113.1819-4-59-000	.	.	.	3.0	9	15	34	45	17900	490	7900	3.7	3300	50
GCAD01551	04-36.8745-113.1460-4-59-000	.	.	.	2.4	9	14	39	56	18200	550	7600	6.3	2900	50
GCAD01651	04-36.9084-113.1818-4-59-000	.	.	.	2.0	5	5	39	38	18900	1100	6700	4.5	.	40
GCAD01751	04-36.9390-113.1853-4-59-000	.	.	.	2.8	8	10	40	47	16600	790	8100	3.8	6100	50
GCAD01851	04-36.9407-113.2260-4-59-000	.	.	.	2.0	7	11	50	39	15900	620	7600	5.3	2400	40
GCAD01951	04-36.9085-113.2299-4-59-000	.	.	.	3.1	8	8	45	45	17800	M	5300	6.3	.	M
GCAD02051	04-36.8638-113.2236-4-59-000	.	.	.	2.6	5	10	45	.	17900	380	4600	4.0	.	30
GCAD02151	04-36.8467-113.2277-4-59-000	.	.	.	2.2	10	4	45	50	17300	310	3800	6.0	6100	30
GCAD02251	04-36.7969-113.2252-4-59-000	.	.	.	3.7	5	10	25	37	10600	360	4900	4.4	2600	40
GCAD02351	04-36.7728-113.2295-4-59-000	.	.	.	2.8	12	10	35	71	25300	410	6300	7.5	2700	50
GCAD02451	04-36.8372-113.1949-4-59-000	.	.	.	2.4	8	10	40	37	16000	330	3700	3.4	1800	30
GCAD02551	04-36.8076-113.1729-4-59-000	.	.	.	2.6	9	7	46	55	25300	490	5000	4.8	2500	50
GCAD02651	04-36.8107-113.1081-4-59-000	.	.	.	2.0	7	8	35	36	17200	330	3800	4.1	1400	30
GCAD02751	04-36.7966-113.1246-4-59-000	.	.	.	1.5	4	3	35	.	11600	500	4400	3.2	1400	30
GCAD02851	04-36.7718-113.1754-4-59-000	.	.	.	2.2	9	6	35	59	22200	390	5300	4.1	2700	40
GCAD02951	04-36.8267-113.0958-4-59-000	.	.	.	2.6	6	9	30	30	14000	550	6800	3.5	.	50
GCAD03051	04-36.7563-113.1351-4-59-000	.	.	.	2.7	6	6	52	45	24300	580	4800	8.7	3300	50
GCAD03151	04-36.8216-113.1246-4-59-000	.	.	.	2.1	8	6	21	52	20800	540	5400	6.3	6600	50
GCAD03251	04-36.9218-113.1569-4-59-000	.	.	.	1.7	3	5	25	31	13900	430	5600	3.1	1900	30
GCAD03351	04-36.9312-113.1232-4-59-000	.	.	.	2.4	9	11	30	48	17700	640	8200	2.2	3300	40
GCAD03451	04-36.9179-113.0995-4-59-000	.	.	.	1.8	4	12	35	.	15200	360	3100	1.9	1500	30
GCAD03551	04-36.9743-113.0539-4-59-000	.	.	.	1.3	4	6	30	14	8400	170	2400	2.0	M	20
GCAD03651	04-36.9993-113.0275-4-59-000	.	.	.	1.4	3	6	30	20	8900	210	2900	1.4	1200	20
GCAD03751	04-36.9708-113.2140-4-59-000	.	.	.	2.0	3	6	46	20	9900	440	7300	3.7	-1500	60
GCAD03851	04-36.9963-113.1919-4-59-000	.	.	.	2.2	9	12	39	55	14200	M	6900	3.3	-1200	30
GCAD03951	04-36.9668-113.1505-4-59-000	.	.	.	2.1	5	10	42	43	17100	530	10600	5.4	.	50
GCAD04051	04-36.7724-113.0071-4-59-000	.	.	.	2.7	11	11	28	55	22900	790	M	3.6	9200	40
GCAE00151	04-36.7746-112.9881-4-59-000	.	.	.	2.3	10	10	30	.	24500	1090	M	8.2	2600	30
GCAE00251	04-36.8032-112.9333-4-59-000	.	.	.	2.8	8	12	32	53	17600	M	3600	4.3	M	50
GCAE00351	04-36.8448-112.9569-4-59-000	.	.	.	2.1	6	10	35	34	14900	M	4900	3.1	M	40
GCAE00451	04-36.8472-112.8619-4-59-000	.	.	.	1.5	3	6	31	20	6800	750	2500	2.6	200	30
GCAE00551	04-36.8462-112.8268-4-59-000	.	.	.	1.5	4	5	38	18	10200	260	3600	3.3	4100	20
GCAE00651	04-36.8448-112.9148-4-59-000	.	.	.	2.2	9	15	50	56	20900	520	5200	6.3	.	40
GCAE00751	04-36.8751-112.9162-4-59-000	.	.	.	1.4	5	13	32	31	10800	M	100	3.5	M	M
GCAE00851	04-36.9031-112.9159-4-59-000	.	.	.	1.6	8	8	29	22	14600	260	3300	3.1	1500	20
GCAE00951	04-36.9485-112.8628-4-59-000	.	.	.	1.4	4	8	39	26	11400	790	1300	3.6	M	30
GCAE01051	04-36.9332-112.8271-4-59-000	.	.	.	0.7	4	4	38	.	3600	110	700	1.3	M	10
GCAE01151	04-36.9978-112.8633-4-59-000	.	.	.	1.0	2	11	28	21	5600	90	700	1.6	1100	10
GCAE01251	04-36.9478-112.9200-4-59-000	.	.	.	1.1	2	6	20	26	8000	180	2100	2.4	1400	10
GCAE01351	04-36.9385-112.9628-4-59-000	.	.	.	1.2	2	5	40	11	5000	250	3100	2.8	1200	20

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CH	AKMXD MEQ/L	U PPH	TH PPH	HF PPH	SCINT CPS	CE PPH	FE PPH	MN PPH	NA PPH	SC PPH	T1 PPH	V PPH
GCAE01451	04-36.8966-112.7561-4-59-000	.	.	.	1.5	1	10	42	.	10200	260	1400	2.4	1600	20
GCAE01551	04-36.9094-112.7607-4-59-000	.	.	.	0.8	3	9	24	9	5100	140	1000	1.7	1100	10
GCAE01651	04-36.8791-112.7802-4-59-000	.	.	.	1.8	3	11	37	17	6600	260	4500	1.2	2100	20
GCAE01751	04-36.8935-112.7862-4-59-000	.	.	.	M	M	M	M	M	M	M	M	M	M	M
GCAE01851	04-36.8618-112.9345-4-59-000	.	.	.	2.0	6	11	38	75	13300	300	4600	3.1	2000	30
GCAE01951	04-36.8717-112.8536-4-59-000	.	.	.	2.2	8	9	22	41	13000	490	7900	4.0	2500	40
GCAE02051	04-36.9717-112.9735-4-59-000	.	.	.	1.1	3	8	29	26	7900	200	2900	2.5	M	20
GCAE02151	04-36.9903-112.9198-4-59-000	.	.	.	1.1	5	10	35	12	1700	90	600	0.8	1100	10
GCAE02251	04-36.9174-112.9548-4-59-000	.	.	.	1.5	5	M	24	.	10100	250	3700	3.0	2000	20
GCAE02351	04-36.8176-112.7724-4-59-000	.	.	.	1.7	5	5	46	27	14100	260	3000	3.2	1300	20
GCAE02451	04-36.7816-112.8460-4-59-000	.	.	.	3.3	10	27	34	55	17500	350	1700	6.1	3200	50
GCAE02551	04-36.8140-112.8273-4-59-000	.	.	.	2.5	7	11	16	38	13600	430	5100	3.8	M	40
GCAE02651	04-36.8028-112.8082-4-59-000	.	.	.	2.3	4	2	30	28	9800	640	4900	3.5	2700	40
GCAE02751	04-36.7739-112.8080-4-59-000	.	.	.	1.7	5	5	42	35	14800	400	5800	4.4	1500	30
GCAE02851	04-36.8346-112.8797-4-59-000	.	.	.	2.0	9	9	35	48	21000	670	6100	7.0	M	50
GCAE02951	04-36.8033-112.8880-4-59-000	.	.	.	3.0	7	16	22	58	12000	360	6200	3.8	3100	40
GCAE03051	04-36.9561-112.7752-4-59-000	.	.	.	1.4	4	16	26	16	7900	120	900	2.1	1300	10
GCAE03151	04-36.9825-112.7703-4-59-000	.	.	.	1.9	4	10	28	28	9300	220	3100	2.9	2100	20
GCAE03251	04-36.9949-112.7822-4-59-000	.	.	.	1.1	3	10	20	16	5500	140	1500	1.4	M	10
GCAE03351	04-36.9103-112.8120-4-59-000	.	.	.	1.3	2	13	25	7	3100	110	700	1.1	1200	10
GCAE03451	04-36.9460-112.8826-4-59-000	.	.	.	1.0	3	5	28	12	6200	180	1300	2.1	1200	10
GCAE03551	04-36.9722-112.8690-4-59-000	.	.	.	1.4	3	8	30	14	6800	140	700	1.6	900	10
GCAE03651	04-36.9025-112.8901-4-59-000	.	.	.	1.3	4	11	25	20	5900	200	3300	2.3	M	20
GCAE03751	04-36.8607-112.9795-4-59-000	.	.	.	2.6	8	6	27	58	20200	770	5900	5.5	2600	40
GCAE03851	04-36.8177-112.9884-4-59-000	.	.	.	2.4	10	15	30	56	20000	420	6400	5.6	2700	40
GCAE03951	04-36.7745-112.9534-4-59-000	.	.	.	2.8	6	8	44	39	14200	590	5500	4.7	2400	40
GCAE04051	04-36.9033-112.8240-4-59-000	.	.	.	2.3	6	11	32	26	10300	260	3900	1.5	1700	20
GCAF00151	04-36.8309-112.7413-4-59-000	.	.	.	1.9	7	M	38	.	15500	460	4400	5.4	M	40
GCAF00251	04-36.8090-112.7269-4-59-000	.	.	.	2.3	6	12	25	41	23800	570	4600	2.9	3000	60
GCAF00351	04-36.7664-112.6935-4-59-000	.	.	.	1.8	4	4	30	27	13300	520	1100	3.8	2500	40
GCAF00451	04-36.7612-112.6569-4-59-000	.	.	.	2.5	9	6	25	64	34500	430	1500	4.0	2000	40
GCAF00551	04-36.7592-112.7245-4-59-000	.	.	.	1.9	8	8	30	53	19000	530	2300	1.9	M	60
GCAF00651	04-36.8078-112.6799-4-59-000	.	.	.	2.6	11	7	30	60	29500	860	3900	6.3	.	60
GCAF00751	04-36.8330-112.6725-4-59-000	.	.	.	1.7	3	13	16	26	11900	340	3300	3.7	2000	30
GCAF00851	04-36.8513-112.6569-4-59-000	.	.	.	2.1	5	11	24	31	12300	340	3500	4.5	1800	20
GCAF00951	04-36.8763-112.6441-4-59-000	.	.	.	2.1	6	12	25	49	14000	490	5500	4.6	M	50
GCAF01051	04-36.8955-112.6614-4-59-000	.	.	.	2.9	9	21	22	52	16300	450	4300	5.6	2600	40
GCAF01151	04-36.8832-112.6995-4-59-000	.	.	.	1.4	3	5	18	14	6400	300	4800	1.8	1700	20
GCAF01251	04-36.8773-112.5863-4-59-000	.	.	.	2.1	7	10	30	49	20900	640	6000	7.1	M	60
GCAF01351	04-36.8633-112.5516-4-59-000	.	.	.	2.0	6	7	24	42	18000	400	3400	3.6	2100	40
GCAF01451	04-36.8717-112.5084-4-59-000	.	.	.	1.7	5	6	25	33	16200	340	1900	4.6	2100	30
GCAF01551	04-36.9982-112.5354-4-59-000	.	.	.	3.0	7	5	17	48	17800	250	1400	3.6	1700	50
GCAF01651	04-36.9768-112.5196-4-59-000	.	.	.	1.9	4	12	25	45	16200	490	11100	5.8	M	30
GCAF01751	04-36.9585-112.5798-4-59-000	.	.	.	2.3	6	8	24	41	18700	710	6800	4.2	2600	60
GCAF01851	04-36.9412-112.5589-4-59-000	.	.	.	1.3	3	15	18	20	10000	270	2500	3.3	1600	20
GCAF01951	04-36.9460-112.5155-4-59-000	.	.	.	2.0	8	M	27	.	21700	660	6800	1.7	M	50
GCAF02051	04-36.9232-112.5684-4-59-000	.	.	.	2.5	8	8	18	58	20800	580	5600	5.3	2600	50
GCAF02151	04-36.9024-112.5934-4-59-000	.	.	.	1.1	2	2	19	21	8200	210	1800	2.8	1100	30
GCAF02251	04-36.8520-112.5229-4-59-000	.	.	.	2.0	6	8	18	36	16600	600	3700	4.8	2100	30
GCAF02351	04-36.8265-112.5785-4-59-000	.	.	.	2.1	5	8	28	49	19100	280	1500	4.8	1500	30
GCAF02451	04-36.7995-112.5563-4-59-000	.	.	.	2.0	5	9	20	42	15670	450	3900	3.5	2700	40
GCAF02551	04-36.7838-112.5792-4-59-000	.	.	.	2.0	2	10	19	35	17100	340	1900	2.4	2100	40
GCAF02651	04-36.7697-112.5683-4-59-000	.	.	.	2.5	5	8	19	54	20100	360	3300	6.1	2000	30
GCAF02751	04-36.7842-112.5152-4-59-000	.	.	.	2.5	8	14	22	58	18900	480	4500	5.8	2900	50
GCAF02851	04-36.7648-112.5300-4-59-000	.	.	.	2.3	5	7	30	26	12800	430	3800	4.1	2900	40

TABLE D-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

5

SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCAF02951	04-36.8122-112.5076-4-59-000	.	.	.	2.0	7	8	15	44	15800	340	3000	3.3	1800	30
GCAF03051	04-36.8474-112.5676-4-59-000	.	.	.	1.9	7	10	23	42	17700	490	M	5.1	M	30
GCAF03151	04-36.9459-112.6150-4-59-000	.	.	.	2.3	9	4	28	50	27700	940	6100	7.0	4000	80
GCAF03251	04-36.9252-112.6152-4-59-000	.	.	.	1.4	5	11	20	33	8600	190	2000	2.4	1700	20
GCAF03351	04-36.9819-112.7189-4-59-000	.	.	.	1.2	2	12	16	16	6700	110	1200	1.7	1100	10
GCAF03451	04-36.9790-112.6857-4-59-000	.	.	.	1.6	5	11	14	21	8700	280	3800	2.8	M	20
GCAF03551	04-36.9553-112.6792-4-59-000	.	.	.	2.0	6	12	21	40	11400	430	5000	3.6	2600	30
GCAF03651	04-36.9613-112.6536-4-59-000	.	.	.	1.8	8	10	24	47	20200	440	5800	6.3	2000	40
GCAF03751	04-36.9702-112.6300-4-59-000	.	.	.	2.1	4	14	14	20	7500	350	2600	2.1	1500	20
GCAF03851	04-36.9759-112.6003-4-59-000	.	.	.	1.6	4	15	18	23	7600	310	3700	3.0	M	30
GCAF03951	04-36.8772-112.7377-4-62-000	.	.	.	1.4	5	17	26	25	8400	240	1000	2.3	2000	20
GCAF04051	04-36.9035-112.7322-4-59-000	.	.	.	1.9	8	5	30	50	17900	340	3400	4.0	1700	30
GCAF04151	04-36.9316-112.7111-4-59-000	.	.	.	1.5	4	14	25	14	11200	300	2700	2.9	1900	20
GCA000151	04-36.9307-112.4906-4-59-000	.	.	.	1.9	5	2	30	41	17400	400	2400	5.8	M	40
GCA000251	04-36.9180-112.4311-4-59-000	.	.	.	1.7	4	2	28	52	19200	410	2800	6.4	1900	40
GCA000351	04-36.9319-112.4402-4-62-000	.	.	.	1.8	6	M	29	50	24200	660	3900	8.8	M	60
GCA000451	04-36.8982-112.3743-4-59-000	.	.	.	2.2	4	10	19	24	10400	410	4100	3.2	2800	40
GCA000551	04-36.8475-112.2886-4-59-000	.	.	.	2.8	6	9	28	52	15100	M	M	4.6	M	M
GCA000651	04-36.8655-112.3174-4-59-000	.	.	.	2.0	3	10	18	20	7500	360	2900	2.7	1900	30
GCA000751	04-36.8806-112.3376-4-59-000	.	.	.	2.5	8	10	28	53	20900	370	3600	6.0	2000	30
GCA000851	04-36.8482-112.2530-4-59-000	.	.	.	3.0	6	11	20	50	14500	430	4200	6.3	2900	40
GCA000951	04-36.8095-112.2552-4-59-000	.	.	.	2.7	5	9	25	33	10700	370	3600	3.6	2200	30
GCA001051	04-36.7709-112.2527-4-59-000	.	.	.	2.4	7	.	20	45	14500	360	4500	5.0	M	30
GCA001151	04-36.8053-112.2393-4-59-000	.	.	.	2.6	7	9	20	34	13400	420	4300	3.8	2700	40
GCA001251	04-36.7827-112.3142-4-59-000	.	.	.	2.3	10	10	28	38	15000	370	4400	4.8	2500	30
GCA001351	04-36.7665-112.3566-4-59-000	.	.	.	2.8	8	10	27	50	16800	300	3600	4.0	2100	30
GCA001451	04-36.7687-112.3973-4-59-000	.	.	.	2.7	9	M	25	.	15100	360	2800	5.3	M	40
GCA001551	04-36.8048-112.4194-4-59-000	.	.	.	2.4	7	9	24	50	14600	360	3900	2.8	2600	40
GCA001651	04-36.8792-112.2610-4-59-000	.	.	.	2.1	8	15	27	55	14900	490	3100	6.3	2400	40
GCA001751	04-36.9129-112.2562-4-59-000	.	.	.	2.9	4	10	36	21	7900	230	2200	2.1	1600	20
GCA001851	04-36.9371-112.2546-4-59-000	.	.	.	2.3	8	12	26	43	16900	370	4100	0.9	M	40
GCA001951	04-36.9399-112.2856-4-59-000	.	.	.	2.2	6	9	19	35	17800	360	4100	3.5	2300	40
GCA002051	04-36.9807-112.2552-4-59-000	.	.	.	2.5	10	8	26	51	24900	M	M	6.0	M	M
GCA002151	04-36.9250-112.3275-4-59-000	.	.	.	2.0	5	6	20	36	16600	360	2800	3.6	1800	30
GCA002251	04-36.9106-112.3152-4-59-000	.	.	.	2.3	8	17	25	50	19400	570	5500	5.9	M	40
GCA002351	04-36.9384-112.3500-4-59-000	.	.	.	2.6	5	11	21	27	15500	500	3700	4.1	2400	40
GCA002451	04-36.9751-112.3121-4-59-000	.	.	.	1.9	6	7	35	42	19700	570	5700	7.2	2400	40
GCA002551	04-36.9858-112.3340-4-61-000	.	.	.	2.0	5	14	17	20	10400	240	1300	2.3	1400	20
GCA002651	04-36.9477-112.4104-4-59-000	.	.	.	2.0	5	4	26	26	10500	1390	2900	3.6	M	40
GCA002751	04-36.9337-112.3761-4-59-000	.	.	.	2.2	6	8	32	34	14900	550	2900	5.4	2500	40
GCA002851	04-36.9857-112.3880-4-59-000	.	.	.	2.0	5	9	28	37	12400	560	7600	5.9	2700	40
GCA002951	04-36.9634-112.3662-4-59-000	.	.	.	2.5	6	4	29	42	15200	250	1800	4.2	1300	30
GCA003051	04-36.8396-112.3414-4-59-000	.	.	.	2.5	7	9	15	47	17000	610	4200	3.8	2700	40
GCA003151	04-36.8636-112.3987-4-59-000	.	.	.	2.2	7	11	22	56	18200	530	4900	6.0	M	40
GCA003251	04-36.8414-112.3734-4-59-000	.	.	.	2.3	9	3	24	53	21100	360	4000	1.7	2700	40
GCA003351	04-36.9844-112.4985-4-59-000	.	.	.	1.6	6	5	30	26	18500	450	7900	2.4	2300	40
GCA003451	04-36.7925-112.3399-4-59-000	.	.	.	2.4	10	11	38	69	18600	380	4100	6.2	2200	30
GCA003551	04-36.7955-112.3780-4-59-000	.	.	.	2.4	8	17	26	40	17600	350	3800	5.7	M	40
GCA003651	04-36.7572-112.4655-4-59-000	.	.	.	2.3	7	8	21	34	13300	440	4600	3.3	3100	50
GCA003751	04-36.7723-112.4340-4-59-000	.	.	.	2.3	10	13	24	47	18500	360	4500	5.5	2900	40
GCA003851	04-36.8100-112.4815-4-59-000	.	.	.	2.6	8	12	22	43	18500	300	2900	4.7	2000	30
GCA003951	04-36.8409-112.4372-4-59-000	.	.	.	2.3	7	13	24	48	19400	410	4700	5.9	M	50
GCA004051	04-36.8709-112.4548-4-59-000	.	.	.	1.8	6	8	27	38	16000	390	3500	2.7	2300	40
GCA004151	04-36.8917-112.4763-4-59-000	.	.	.	2.0	5	10	26	60	21500	560	1800	5.9	2600	50
GCA004251	04-36.9123-112.4905-4-59-000	.	.	.	1.7	3	5	27	23	9400	540	3100	3.8	1600	30

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	V PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM	
GCAH00151	04-36.7672-112.1141-4-59-000	.	.	.	2.1	7	9	20	40	18800	480	5000	5.9	M	50	
GCAH00251	04-36.7650-112.0517-4-59-000	.	.	.	1.9	6	8	24	31	13000	350	3800	2.5	2400	30	
GCAH00351	04-36.7531-112.1520-4-59-000	.	.	.	3.0	6	9	22	46	13600	380	5000	5.4	2600	30	
GCAH00451	04-36.7759-112.0391-4-59-000	.	.	.	1.3	3	10	18	21	9100	180	2100	1.6	900	10	
GCAH00551	04-36.7959-112.1208-4-59-000	.	.	.	2.4	9	13	22	58	13700	M	M	5.5	M	30	
GCAH00651	04-36.8397-112.0C39-4-59-000	.	.	.	2.4	5	5	14	37	17000	520	3900	2.5	2200	40	
GCAH00751	04-36.8483-112.1114-4-59-000	.	.	.	3.6	5	6	27	23	11600	470	3600	3.9	2800	30	
GCAH00851	04-36.8389-112.0415-4-59-000	.	.	.	1.2	3	9	10	14	6700	100	1300	1.7	900	10	
GCAH00951	04-36.8738-112.1108-4-59-000	.	.	.	3.1	9	12	30	47	17800	420	3800	7.0	2800	40	
GCAH01051	04-36.8066-112.0155-4-59-000	.	.	.	0.8	2	8	12	18	5500	M	M	1.8	M	M	
GCAH01151	04-36.7660-112.1998-4-59-000	.	.	.	2.6	6	7	27	33	10900	460	5200	2.8	3100	30	
GCAH01251	04-36.8700-112.0628-4-59-000	.	.	.	2.4	7	13	12	53	15100	580	5000	1.5	M	50	
GCAH01351	04-36.7851-112.1363-4-59-000	.	.	.	2.3	4	6	22	30	11800	430	2100	3.8	1400	20	
GCAH01451	04-36.7994-112.0702-4-59-000	.	.	.	2.2	6	10	20	36	13200	390	2400	5.0	M	40	
GCAH01551	04-36.8117-112.1526-4-59-000	.	.	.	2.6	9	9	27	44	23400	420	3500	6.3	2000	30	
GCAH01651	04-36.8547-112.0033-4-59-000	.	.	.	1.3	3	7	18	18	7100	270	3000	3.0	1500	20	
GCAH01751	04-36.8519-112.1505-4-59-000	.	.	.	2.5	7	11	35	48	15300	300	3200	3.6	1900	20	
GCAH01851	04-36.8620-112.0286-4-59-000	.	.	.	0.8	1	3	14	7	4600	150	1600	1.3	M	10	
GCAH01951	04-36.8815-112.1418-4-59-000	.	.	.	2.7	10	9	35	53	15700	600	5200	4.6	3000	40	
GCAH02051	04-36.9102-112.0234-4-59-000	.	.	.	0.8	4	7	12	7	4800	130	1100	1.7	1000	10	
GCAH02151	04-36.9119-112.1255-4-59-000	.	.	.	1.9	8	8	30	41	17000	270	1700	5.4	1900	30	
GCAH02251	04-36.9490-112.0384-4-59-000	.	.	.	2.1	4	10	15	51	8900	250	2900	3.9	M	30	
GCAH02351	04-36.9291-112.0889-4-59-000	.	.	.	3.1	7	10	19	46	17900	630	5200	6.6	2900	50	
GCAH02451	04-36.9361-112.0744-4-59-000	.	.	.	2.1	7	12	20	29	16300	360	2700	1.0	2100	30	
GCAH02551	04-36.9659-112.0940-4-59-000	.	.	.	2.5	9	9	20	55	22900	350	3400	3.1	2200	30	
GCAH02651	04-36.9387-112.0543-4-59-000	.	.	.	2.6	5	9	21	32	8500	500	3900	3.4	M	40	
GCAH02751	04-36.9703-112.1542-4-59-000	.	.	.	2.6	7	9	20	34	13100	370	4200	4.7	3100	50	
GCAH02851	04-36.9704-112.0341-4-59-000	.	.	.	2.4	9	10	20	45	20000	770	4000	6.9	3000	40	
GCAH02951	04-36.9413-112.1498-4-59-000	.	.	.	3.3	8	12	21	57	19800	480	2800	4.1	1900	30	
GCAH03051	04-36.9978-112.0337-4-59-000	.	.	.	2.0	7	8	20	45	17600	M	M	6.7	M	30	
GCAH03151	04-36.9683-112.1822-4-59-000	.	.	.	2.1	4	13	24	33	10000	260	2300	3.2	1900	30	
GCAH03251	04-36.9096-112.0503-4-59-000	.	.	.	2.4	6	11	15	49	15900	600	5100	5.0	3100	40	
GCAH03351	04-36.9096-112.0503-4-59-000	.	.	.	2.5	9	16	22	60	19800	370	3800	1.5	2600	30	
GCAH03351	04-36.9521-112.1946-4-59-000	.	.	.	2.5	9	16	22	60	19800	370	3800	1.5	2600	30	
GCAH03451	04-36.7828-112.0628-4-59-000	.	.	.	1.9	4	7	12	16	6900	300	2500	2.2	1700	20	
GCAH03551	04-36.9939-112.2085-4-59-000	.	.	.	2.3	8	17	20	48	20700	530	4500	5.8	2600	30	
GCAH03651	04-36.8474-112.2476-4-59-000	.	.	.	2.7	8	9	28	61	19000	470	4700	6.9	M	60	
GCAH03751	04-36.9427-112.2414-4-59-000	.	.	.	2.5	9	16	25	43	17500	390	2600	5.4	2700	40	
GCAH03851	04-36.8147-112.2427-4-59-000	.	.	.	2.8	5	6	24	28	15200	560	4100	6.0	2700	40	
GCAH03951	04-36.9254-112.2130-4-59-000	.	.	.	1.7	4	4	20	28	15200	M	860	M	3.3	2500	50
GCAH04051	04-36.7572-112.2224-4-59-000	.	.	.	2.2	5	14	26	49	13300	130	1600	2.4	M	30	
GCAH04151	04-36.9070-112.1648-4-59-000	.	.	.	2.2	8	17	19	42	15000	M	M	5.6	M	30	
GCAH04251	04-36.7932-112.2179-4-59-000	.	.	.	2.4	3	4	20	28	7500	140	2400	2.8	M	50	
GCAH04351	04-36.8774-112.1639-4-59-000	.	.	.	2.6	8	13	29	43	14300	1820	M	5.0	M	70	
GCAH04451	04-36.8727-112.2177-4-59-000	.	.	.	2.6	7	12	30	47	19800	1950	M	6.6	M	70	
GCAH04551	04-36.8128-112.1925-4-59-000	.	.	.	2.4	7	9	29	43	14200	240	4400	5.0	1400	70	
GCAH04651	04-36.8465-112.1819-4-59-000	.	.	.	2.7	9	15	31	64	18800	430	6300	5.3	M	80	
GCAH04751	04-36.8817-112.1955-4-59-000	.	.	.	3.2	9	16	34	60	17600	370	5050	6.2	M	30	
GCA00151	04-36.6272-113.9761-4-61-000	.	.	.	2.5	7	9	20	44	16000	200	4200	4.9	M	30	
GCA00251	04-36.5890-113.9331-4-61-000	.	.	.	1.9	5	15	23	55	17400	280	3900	4.7	M	40	
GCA00351	04-36.6240-113.9303-4-59-000	.	.	.	2.3	9	16	28	34	22600	310	5300	4.1	M	50	
GCA00451	04-36.6628-113.8853-4-59-000	.	.	.	1.7	8	15	20	41	14400	200	3300	4.0	M	30	
GCA00551	04-36.6612-113.8403-4-59-000	.	.	.	1.9	7	13	22	38	21300	270	5400	5.6	M	70	
GCA00651	04-36.5914-113.9793-4-59-000	.	.	.	2.1	8	9	22	50	18600	290	5100	3.9	3200	M	
GCA00751	04-36.6908-113.8941-4-59-000	.	.	.	1.3	3	10	18	30	10900	.	M	3.2	M	40	
GCA00851	04-36.7375-113.8891-4-59-000	.	.	.	2.4	7	12	21	39	15300	220	4100	4.8	6000	60	

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKOXD MG/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCBA00951	04-36.6948-113.9302-4-59-000	.	.	.	2.6	7	8	35	41	17100	590	6900	5.4	M	60
GCBA01051	04-36.6626-113.9399-4-59-000	.	.	.	1.3	3	7	20	.	7000	180	3400	2.2	-1500	20
GCBA01151	04-36.6648-113.9026-4-61-000	.	.	.	1.8	9	18	32	51	12900	2010	M	4.0	M	30
GCBA01251	04-36.6940-113.8052-4-59-000	.	.	.	2.0	6	14	20	32	15100	530	5900	4.1	M	30
GCBA01351	04-36.6914-113.7647-4-50-000	8.2	3600	2.70	1.9	4	7	20	23	9500	290	3400	2.7	M	M
GCBA01451	04-36.7351-113.7660-4-50-000	8.1	3400	3.40	1.4	5	6	30	41	17000	340	7300	2.6	-2300	20
GCBA01551	04-36.5770-113.9065-4-59-000	.	.	.	2.9	14	20	37	97	32600	M	M	10.5	M	80
GCBA01651	04-36.5997-113.8981-4-59-000	.	.	.	2.4	6	12	30	38	14300	300	5200	3.4	-600	50
GCBA01751	04-36.5212-113.9298-4-61-000	.	.	.	1.9	7	1	35	48	23100	310	5500	6.4	M	70
GCBA01851	04-36.5062-113.8909-4-59-000	.	.	.	2.1	11	15	32	40	21400	260	4400	5.1	M	50
GCBA01951	04-36.5227-113.8448-4-59-000	.	.	.	2.1	12	7	34	38	23800	270	6600	5.2	3300	50
GCBA02051	04-36.5194-113.8148-4-59-000	.	.	.	2.9	11	15	40	74	31900	2140	M	2.9	M	80
GCBA02151	04-36.5574-113.7919-4-59-000	.	.	.	2.7	10	10	34	57	32600	350	7500	6.3	8000	50
GCBA02251	04-36.5575-113.7598-4-59-000	.	.	.	2.0	5	12	30	32	10100	180	2500	3.5	M	20
GCBA02351	04-36.5950-113.7537-4-59-000	.	.	.	2.7	7	8	25	61	19300	1850	M	5.0	3800	50
GCBA02451	04-36.6388-113.8611-4-59-000	.	.	.	2.7	14	20	35	69	36400	380	7000	9.2	9000	80
GCBA02551	04-36.7187-113.8198-4-59-000	.	.	.	1.0	3	9	17	12	7400	100	1200	1.5	-2600	10
GCBA02651	04-36.5605-113.7627-4-59-000	.	.	.	2.4	10	10	40	79	26600	M	M	8.9	M	M
GCBA02751	04-36.6141-113.8047-4-59-000	.	.	.	1.7	6	13	20	49	14800	200	2800	2.5	-2600	30
GCBA02851	04-36.5379-113.7870-4-59-000	.	.	.	2.2	7	16	28	32	17800	220	4200	5.2	4900	30
GCBA02951	04-36.5336-113.8194-4-59-000	.	.	.	2.5	9	9	32	43	22300	360	6900	6.5	-1800	40
GCBA03051	04-36.7059-113.9632-4-59-000	.	.	.	5.0	21	12	75	117	57700	-10	M	19.0	M	110
GCBA03151	04-36.7266-113.9921-4-59-000	.	.	.	3.0	12	11	62	93	32500	940	10400	11.1	M	80
GCBA03251	04-36.5506-113.8965-4-59-000	.	.	.	2.1	8	17	22	45	16400	1870	M	4.4	5000	30
GCBA03351	04-36.5265-113.9669-4-59-000	.	.	.	2.3	8	9	41	51	22000	240	6200	2.6	M	50
GCBA03451	04-36.5520-113.8957-4-59-000	.	.	.	2.4	10	1	.	51	21100	2000	M	6.4	M	80
GCBA03551	04-36.5767-113.8611-4-59-000	.	.	.	2.4	13	14	25	65	30000	310	6900	9.6	M	80
GCBB00151	04-36.7377-113.5671-4-59-000	.	.	.	2.8	10	18	40	65	24600	M	M	7.6	M	50
GCBB00251	04-36.7298-113.5928-4-59-000	.	.	.	1.9	5	6	30	34	15400	490	2600	5.5	M	90
GCBB00351	04-36.7387-113.6991-4-59-000	.	.	.	2.7	8	7	35	59	26300	1850	M	7.0	-3000	50
GCBB00451	04-36.7286-113.7368-4-50-000	8.2	3500	3.00	2.7	8	4	40	54	27800	440	6200	6.6	M	80
GCBB00551	04-36.7019-113.7372-4-59-000	.	.	.	2.4	9	9	30	54	28800	260	5300	6.9	-2200	50
GCBB00651	04-36.6615-113.7221-4-59-000	.	.	.	2.7	11	1	40	61	31600	600	5500	10.1	M	60
GCBB00751	04-36.6418-113.7013-4-59-000	.	.	.	2.4	6	6	35	45	21600	1950	M	4.7	-2100	M
GCBB00851	04-36.6232-113.6928-4-59-000	.	.	.	2.9	9	10	30	51	19200	360	5500	7.2	M	M
GCBB00951	04-36.6178-113.7322-4-59-000	.	.	.	2.2	7	3	30	34	18500	480	6500	6.6	-1200	30
GCBB01051	04-36.5949-113.7422-4-59-000	.	.	.	2.1	6	9	25	37	12000	200	2400	3.9	M	30
GCBB01151	04-36.5361-113.7384-4-59-000	.	.	.	1.8	5	13	25	43	7800	1460	M	3.9	-2000	30
GCBB01251	04-36.5202-113.7144-4-59-000	.	.	.	1.6	5	20	26	7000	130	1800	3.0	M	20	
GCBB01351	04-36.5175-113.6887-4-59-000	8.5	1500	7.00	2.1	5	12	25	23	10200	90	1700	2.3	-3900	20
GCBB01451	04-36.5070-113.6629-4-50-000	8.5	1500	7.00	2.0	4	12	22	32	10400	160	1300	3.3	M	50
GCBB01551	04-36.7320-113.6632-4-59-000	.	.	.	2.4	9	6	30	63	31400	1580	100	6.6	-2700	70
GCBB01651	04-36.6962-113.6850-4-59-000	.	.	.	3.8	13	18	40	78	25200	310	6300	7.6	M	50
GCBB01751	04-36.7056-113.6474-4-59-000	.	.	.	3.1	9	12	45	50	20900	340	6000	6.2	12700	110
GCBB01851	04-36.6959-113.6047-4-59-000	.	.	.	3.0	8	11	40	52	23600	2160	6900	1.3	M	90
GCBB01951	04-36.6604-113.6362-4-59-000	.	.	.	3.8	10	.	25	72	27900	530	8000	9.0	M	60
GCBB02051	04-36.6183-113.6254-4-59-000	.	.	.	3.3	10	14	50	60	29200	1300	M	8.5	3500	60
GCBB02151	04-36.6228-113.6032-4-59-000	.	.	.	2.6	11	M	50	-5	29700	410	8000	8.9	M	M
GCBB02251	04-36.6201-113.5602-4-59-000	.	.	.	3.4	11	10	35	80	22500	360	7900	5.8	-1800	60
GCBB02351	04-36.5505-113.6898-4-59-000	.	.	.	2.5	11	11	25	74	27600	430	5700	9.1	2700	100
GCBB02451	04-36.5872-113.6460-4-59-000	.	.	.	3.3	9	10	25	43	15500	1450	M	4.9	1900	40
GCBB02551	04-36.5913-113.6760-4-59-000	.	.	.	2.5	8	13	30	60	22900	310	6400	6.3	4900	50
GCBB02651	04-36.5505-113.6435-4-59-000	.	.	.	3.1	14	12	30	83	29900	320	7500	5.3	2100	50
GCBB02751	04-36.5248-113.6276-4-59-000	.	.	.	3.4	11	16	35	73	27600	430	7700	4.7	M	60
GCBB02851	04-36.5863-113.5675-4-59-000	.	.	.	3.3	10	10	40	-6	22800	1380	6600	5.1	-2100	60

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPH	TH PPH	HF PPH	SCINT CPS	CE PPH	FE PPH	MN PPH	NA PPH	SC PPH	T1 PPH	V PPH
GCBB02951	04-36.5929-113.5546-4-59-000	.	.	.	3.5	10	.	45	71	25000	2140	7500	7.5	M	140
GCBB03051	04-36.6196-113.5285-4-59-000	.	.	.	3.2	12	7	52	57	26000	470	7500	7.4	-1200	80
GCBB03151	04-36.6582-113.5222-4-59-000	.	.	.	3.0	16	9	48	48	29300	550	8300	9.5	M	100
GCBB03251	04-36.6893-113.5329-4-59-000	.	.	.	2.9	11	M	42	-5	23700	370	7500	7.6	-2100	70
GCBB03351	04-36.6872-113.5590-4-59-000	.	.	.	3.1	9	17	28	65	18300	1860	M	6.5	M	60
GCBB03451	04-36.6618-113.6022-4-59-000	.	.	.	2.9	12	11	72	67	24700	310	7200	7.3	5200	70
GCBB03551	04-36.5375-113.6081-4-59-000	.	.	.	3.0	7	10	36	47	14800	290	7000	4.6	M	80
GCBB03651	04-36.5517-113.5598-4-59-000	.	.	.	2.4	10	5	45	76	29000	620	10100	4.9	-2900	40
GCBB03751	04-36.5161-113.5529-4-59-000	.	.	.	3.3	15	15	50	80	23900	1900	100	8.1	4500	50
GCBB03851	04-36.5180-113.6019-4-59-000	.	.	.	3.3	11	9	64	23800	360	7300	7.7	-2600	40	
GCBB03951	04-36.5205-113.5319-4-59-000	.	.	.	3.2	10	13	42	43	25200	260	6100	7.2	M	60
GCBB04051	04-36.5543-113.5265-4-59-000	.	.	.	3.2	11	16	32	84	27600	380	7800	8.4	-1900	50
GCBB04151	04-36.5884-113.5290-4-59-000	.	.	.	3.1	11	17	40	63	20400	M	M	6.2	M	M
GCBB04251	04-36.7271-113.5298-4-59-000	.	.	.	2.7	7	11	40	54	20500	M	M	5.4	M	100
GCBC00151	04-36.7283-113.2852-4-59-000	.	.	.	2.5	9	6	34	60	22900	350	7700	5.9	4200	100
GCBC00251	04-36.7203-113.4633-4-59-000	.	.	.	3.0	7	5	52	42	17800	600	10300	5.4	7900	50
GCBC00351	04-36.7315-113.3077-4-59-000	.	.	.	2.4	10	9	34	53	19300	1300	M	4.1	-1900	60
GCBC00451	04-36.7044-113.4818-4-59-000	.	.	.	3.2	12	15	48	67	25400	380	6800	8.0	1900	60
GCBC00551	04-36.7242-113.3421-4-59-000	.	.	.	2.8	8	8	41	63	22600	410	7400	4.8	.	80
GCBC00651	04-36.6817-113.4795-4-59-000	.	.	.	3.2	11	14	36	71	22500	1860	M	7.2	M	50
GCBC00751	04-36.7059-113.3600-4-59-000	.	.	.	2.8	5	8	29	35	18400	250	5200	4.2	-1200	30
GCBC00851	04-36.6916-113.4339-4-59-000	.	.	.	3.7	10	10	34	59	28200	-40	7500	9.0	M	60
GCBC00951	04-36.6652-113.2737-4-59-000	.	.	.	2.4	9	7	52	46	19400	1210	M	4.2	3900	20
GCBC01051	04-36.6974-113.3951-4-61-000	.	.	.	2.4	7	7	18	53	17800	1730	77300	5.4	M	60
GCBC01151	04-36.6937-113.2903-4-59-000	.	.	.	1.0	.	5	49	.	M	930	M	2.8	-900	20
GCBC01251	04-36.7326-113.3621-4-59-000	.	.	.	2.9	.	M	29	.	M	1070	M	-0.6	-1300	40
GCBC01351	04-36.6952-113.3255-4-59-000	.	.	.	1.9	.	M	35	.	M	1020	M	-0.6	-1900	40
GCBC01451	04-36.6633-113.4376-4-59-000	.	.	.	2.9	11	14	29	67	23900	1660	M	7.4	M	70
GCBC01551	04-36.6576-113.3113-4-59-000	.	.	.	2.4	8	10	33	41	17100	1110	3200	4.6	2300	30
GCBC01651	04-36.6249-113.4659-4-59-000	.	.	.	2.8	12	9	40	57	29100	M	M	8.9	M	50
GCBC01751	04-36.6019-113.3160-4-59-000	.	.	.	2.6	11	8	41	59	29200	1130	M	7.5	-2100	80
GCBC01851	04-36.5949-113.4844-4-59-000	.	.	.	2.8	10	14	34	67	25200	-40	7000	7.8	M	70
GCBC01951	04-36.6050-113.2789-4-59-000	.	.	.	2.7	6	7	35	44	14300	1150	5600	5.1	1900	30
GCBC02051	04-36.5660-113.4877-4-59-000	.	.	.	3.0	10	12	36	75	26300	1910	M	6.1	M	70
GCBC02151	04-36.6363-113.2706-4-59-000	.	.	.	2.8	6	5	46	35	14100	1420	M	5.6	3200	50
GCBC02251	04-36.5660-113.4366-4-59-000	.	.	.	2.9	11	9	36	71	24800	M	M	1.3	6900	40
GCBC02351	04-36.5721-113.3056-4-59-000	.	.	.	1.6	7	10	25	44	16900	430	4800	5.5	2600	50
GCBC02451	04-36.6341-113.4255-4-59-000	.	.	.	2.6	10	16	40	65	19500	500	6800	5.8	2400	50
GCBC02551	04-36.5362-113.3210-4-59-000	.	.	.	2.9	5	7	35	31	12400	350	3900	4.1	2200	40
GCBC02651	04-36.5901-113.4280-4-59-000	.	.	.	3.2	12	11	28	62	28100	450	7400	9.0	3500	50
GCBC02751	04-36.6701-113.3564-4-59-000	.	.	.	2.9	6	7	33	46	14900	590	9200	6.7	4300	70
GCBC02851	04-36.6188-113.4124-4-59-000	.	.	.	3.4	11	16	45	61	20400	320	5500	7.0	2300	40
GCBC02951	04-36.6367-113.3238-4-59-000	.	.	.	2.0	9	9	42	56	23300	660	8300	7.5	4100	70
GCBC03051	04-36.5970-113.3932-4-59-000	.	.	.	3.1	9	13	42	48	23100	430	6700	7.2	3000	50
GCBC03151	04-36.5959-113.3552-4-59-000	.	.	.	2.2	9	13	28	72	26300	490	6900	8.2	4000	90
GCBC03251	04-36.5543-113.3850-4-61-000	.	.	.	2.6	11	10	34	85	21400	490	6200	7.9	3400	60
GCBC03351	04-36.6212-113.3710-4-59-000	.	.	.	2.6	6	2	31	29	10000	270	4800	3.2	1700	30
GCBC03451	04-36.5321-113.4030-4-59-000	.	.	.	2.8	9	12	36	54	21600	470	6700	5.0	3200	60
GCBC03551	04-36.5670-113.3575-4-59-000	.	.	.	2.2	5	5	30	39	22100	640	8800	6.6	2500	50
GCBC03651	04-36.5305-113.4314-4-59-000	.	.	.	2.0	10	4	42	73	28200	660	9100	6.7	4300	80
GCBC03751	04-36.5333-113.3583-4-59-000	.	.	.	2.2	10	8	29	56	32500	440	5400	10.4	2700	60
GCBD00151	04-36.5267-113.2222-4-59-000	.	.	.	2.6	9	6	37	57	19600	520	5200	7.3	2400	40
GCBD00251	04-36.5207-113.1898-4-59-000	.	.	.	3.4	9	9	33	51	23200	370	4600	7.3	2200	40
GCBD00351	04-36.5174-113.1376-4-59-000	.	.	.	2.7	6	12	32	41	18600	740	6600	6.8	5400	90
GCBD00451	04-36.5558-113.1462-4-59-000	.	.	.	2.9	10	16	35	58	20200	350	5600	7.0	3200	40

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKKXID MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCBD00551	04-36.5786-113.1550-4-59-000	.	.	.	1.7	9	11	31	61	20400	450	6200	6.5	3400	50
GCBD00651	04-36.5956-113.1817-4-59-000	.	.	.	2.4	8	9	39	38	22100	320	4300	6.7	2200	40
GCBD00751	04-36.6553-113.2222-4-59-000	.	.	.	2.8	11	16	32	64	26100	520	7700	8.8	4100	60
GCBD00851	04-36.6893-113.1961-4-59-000	.	.	.	2.3	10	11	34	58	28300	570	7700	7.4	.	60
GCBD00951	04-36.6211-113.2329-4-59-000	.	.	.	0.6	2	1	14	12	5600	110	1600	1.8	700	20
GCBD01051	04-36.5903-113.2373-4-59-000	.	.	.	3.2	12	12	29	35	15000	420	5200	3.4	2700	40
GCBD01151	04-36.5541-113.2244-4-59-000	.	.	.	2.6	11	12	28	65	27400	560	6500	8.3	.	60
GCBD01251	04-36.5556-113.1909-4-59-000	.	.	.	2.8	8	15	27	56	20000	310	5400	6.8	2900	40
GCBD01351	04-36.6953-113.2336-4-59-000	.	.	.	2.1	6	9	27	42	12010	260	3900	2.6	2200	40
GCBD01451	04-36.7345-113.2280-4-59-000	.	.	.	2.3	7	12	27	47	19900	300	4900	2.7	2300	40
GCBD01551	04-36.7391-113.1917-4-59-000	.	.	.	2.6	8	11	27	45	18600	470	7000	4.5	.	50
GCBD01651	04-36.6319-113.1842-4-59-000	.	.	.	2.0	7	9	25	47	14200	M	5000	5.6	M	40
GCBD01751	04-36.6295-113.1450-4-59-000	.	.	.	2.2	5	9	29	44	14600	360	5800	4.3	3000	40
GCBD01851	04-36.6605-113.1323-4-59-000	.	.	.	2.2	7	7	50	62	19600	550	7000	7.0	3700	60
GCBD01951	04-36.6936-113.1348-4-59-000	.	.	.	2.2	8	5	28	42	22600	570	4800	5.2	3500	50
GCBD02051	04-36.7309-113.1432-4-59-000	.	.	.	2.7	12	16	41	62	29200	430	7100	8.7	3100	40
GCBD02151	04-36.6819-113.1177-4-59-000	.	.	.	2.6	10	16	39	62	22300	470	5900	6.5	3000	50
GCBD02251	04-36.6631-113.1006-4-59-000	.	.	.	2.7	6	12	23	70	27300	420	7100	6.0	3000	30
GCBD02351	04-36.6414-113.1099-4-59-000	.	.	.	1.8	7	8	32	41	16900	620	6300	4.4	2900	50
GCBD02451	04-36.6203-113.0750-4-59-000	.	.	.	2.1	4	4	30	25	12800	470	4700	4.2	2400	60
GCBD02551	04-36.6504-113.0402-4-59-000	.	.	.	2.3	6	8	50	57	19200	350	3500	6.6	2700	50
GCBD02651	04-36.6350-113.0116-4-59-000	.	.	.	2.3	8	13	29	68	27600	470	4600	7.8	2300	40
GCBD02751	04-36.6939-113.0698-4-59-000	.	.	.	1.5	5	M	27	26	14900	470	2200	4.6	1500	30
GCBD02851	04-36.6904-113.0440-4-59-000	.	.	.	2.3	12	6	49	76	30600	740	6700	7.5	3700	60
GCBD02951	04-36.6643-113.0712-4-59-000	.	.	.	2.6	5	5	50	39	18300	530	5400	4.2	2700	50
GCBD03051	04-36.5830-113.0220-4-59-000	.	.	.	2.3	9	2	29	45	20800	600	5400	6.5	2400	50
GCBD03151	04-36.5908-113.0736-4-59-000	.	.	.	2.2	11	7	47	65	26800	M	9100	6.5	.	60
GCBD03251	04-36.5435-113.0721-4-59-000	.	.	.	2.2	9	6	40	52	28100	550	5800	4.5	3900	60
GCBD03351	04-36.5209-113.0538-4-59-000	.	.	.	2.4	10	7	27	58	29500	560	6500	5.1	.	60
GCBD03451	04-36.7400-113.0187-4-59-000	.	.	.	1.7	5	4	46	27	10700	780	4700	3.1	2100	50
GCBD03551	04-36.7238-113.0682-4-59-000	.	.	.	2.1	7	2	29	44	26000	850	6900	7.7	3600	60
GCBD03651	04-36.7173-113.1019-4-59-000	.	.	.	2.0	10	4	51	57	26200	950	6500	5.7	3400	60
GCBD03751	04-36.5790-113.0806-4-59-000	.	.	.	2.3	8	11	28	54	24900	480	5600	6.5	3600	60
GCBD03851	04-36.5548-113.1031-4-59-000	.	.	.	2.3	12	7	32	64	26300	600	6100	4.7	.	60
GCBD03951	04-36.5650-113.0117-4-59-000	.	.	.	2.2	8	8	52	64	32800	690	5700	1.7	3300	60
GCBD04051	04-36.5172-113.1105-4-59-000	.	.	.	2.3	8	5	46	53	20700	540	6200	7.1	3000	50
GCBE00151	04-36.6877-112.7971-4-59-000	.	.	.	2.3	6	9	45	49	24700	470	3600	5.9	2500	50
GCBE00251	04-36.6507-112.7731-4-59-000	.	.	.	1.8	11	5	28	63	21600	460	4000	4.4	.	50
GCBE00351	04-36.6030-112.7721-4-59-000	.	.	.	2.3	9	10	32	46	17500	440	3500	6.1	2900	50
GCBE00451	04-36.6910-112.8361-4-59-000	.	.	.	2.2	8	10	28	40	19400	560	4400	6.3	2600	50
GCBE00551	04-36.6703-112.8174-4-59-000	.	.	.	2.5	4	8	32	30	13500	390	2600	4.3	.	30
GCBE00651	04-36.7300-112.7625-4-59-000	.	.	.	1.8	4	5	34	23	13500	360	1800	3.2	1600	30
GCBE00751	04-36.7453-112.8083-4-59-000	.	.	.	1.7	8	13	32	44	19100	380	5600	5.2	2900	50
GCBE00851	04-36.7300-112.8443-4-59-000	.	.	.	1.8	6	7	34	32	20400	540	9600	7.5	2900	50
GCBE00951	04-36.6987-112.8746-4-59-000	.	.	.	1.9	7	6	35	53	25500	650	9100	4.9	2100	70
GCBE01051	04-36.6711-112.8918-4-59-000	.	.	.	1.9	6	6	36	42	15900	450	1700	5.6	1200	30
GCBE01151	04-36.6656-112.9218-4-59-000	.	.	.	1.8	5	7	31	35	17200	560	4000	6.4	2100	40
GCBE01251	04-36.6227-112.9218-4-59-000	.	.	.	2.2	8	11	28	58	21300	330	3800	6.5	2100	40
GCBE01351	04-36.6988-112.7723-4-59-000	.	.	.	1.7	4	4	30	.	11500	570	1700	3.2	2100	50
GCBE01451	04-36.6505-112.8318-4-59-000	.	.	.	2.3	9	14	29	73	27800	550	3600	5.5	3400	60
GCBE01551	04-36.6194-112.8443-4-59-000	.	.	.	2.1	6	11	27	37	16800	470	3400	4.3	2400	40
GCBE01651	04-36.6236-112.8934-4-59-000	.	.	.	3.5	8	19	35	41	22600	.	M	5.4	M	.
GCBE01751	04-36.6009-112.9859-4-59-000	.	.	.	2.6	7	7	35	54	23000	500	6200	5.3	3400	60
GCBE01851	04-36.6244-112.9739-4-59-000	.	.	.	1.2	2	1	30	22	7700	450	2400	2.4	3200	30
GCBE01951	04-36.6573-112.9577-4-59-000	.	.	.	2.0	7	7	28	44	16900	630	5200	3.2	2400	50

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

10

SFL I.D. *--*****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPH	TH PPH	HF PPH	SCINT CPS	CE PPH	FE PPH	MN PPH	NA PPH	SC PPH	T1 PPH	V PPH
GCBE02051	04-36.6842-112.9665-4-59-000	.	.	.	1.2	4	5	25	32	13700	420	4300	4.2	1500	30
GCBE02151	04-36.7313-112.9854-4-59-000	.	.	.	1.7	9	4	30	51	23000	800	7500	4.4	.	70
GCBE02251	04-36.7277-112.9403-4-59-000	.	.	.	3.4	12	20	30	74	27600	940	4900	9.9	4700	100
GCBE02351	04-36.7011-112.9375-4-59-000	.	.	.	2.1	5	10	26	37	18100	400	5300	4.8	1700	30
GCBE02451	04-36.5866-112.8770-4-59-000	.	.	.	2.8	11	13	39	58	23800	570	5300	6.9	4000	50
GCBE02551	04-36.5513-112.8904-4-59-000	.	.	.	2.6	5	8	25	25	12300	410	4700	4.3	2900	40
GCBE02651	04-36.5180-112.9358-4-59-000	.	.	.	2.4	9	2	28	31	22000	320	3400	5.9	2100	40
GCBE02751	04-36.5154-112.9899-4-59-000	.	.	.	2.4	13	12	29	73	32800	670	8400	10.0	4200	60
GCBE02851	04-36.5443-112.9819-4-59-000	.	.	.	2.7	9	16	30	66	29700	450	4400	4.5	3100	50
GCBE02951	04-36.5656-112.9429-4-59-000	.	.	.	2.5	10	7	35	60	26000	M	M	6.4	M	40
GCBE03051	04-36.5935-112.9161-4-59-000	.	.	.	2.5	10	14	24	47	24500	510	4700	6.2	3200	50
GCBE03151	04-36.5277-112.8049-4-59-000	.	.	.	2.3	8	14	30	38	19000	2630	1000	3.7	M	40
GCBE03251	04-36.5531-112.8023-4-59-000	.	.	.	2.1	5	6	25	27	8500	250	2000	3.0	1600	30
GCBE03351	04-36.5087-112.8518-4-59-000	.	.	.	2.9	13	1	40	64	34900	770	1200	7.5	3100	70
GCBE03451	04-36.5285-112.8768-4-59-000	.	.	.	2.5	7	17	27	40	13700	220	1400	5.0	1300	30
GCBE03551	04-36.5545-112.8580-4-59-000	.	.	.	2.8	5	13	20	48	13900	400	2800	4.9	.	40
GCBE03651	04-36.5789-112.8358-4-59-000	.	.	.	2.6	5	10	27	34	11300	380	2600	3.5	2000	30
GCBE03751	04-36.5876-112.8077-4-62-000	.	.	.	4.2	2	9	25	16	6900	300	1100	2.1	1100	20
GCBE03851	04-36.5658-112.7568-4-59-000	.	.	.	2.4	7	12	20	41	17400	1620	3000	5.3	M	50
GCBE03951	04-36.6308-112.7941-4-59-000	.	.	.	2.6	7	11	25	42	18400	960	3000	4.4	4600	30
GCBE04051	04-36.6282-112.7679-4-59-000	.	.	.	2.7	8	14	30	52	22200	M	M	5.7	M	40
GCBE04151	04-36.7316-112.8754-4-59-000	.	.	.	1.1	4	2	24	13	6000	860	4000	3.1	-1100	20
GCBF00151	04-36.7309-112.6304-4-59-000	.	.	.	2.5	6	10	45	30	13200	1470	3100	2.9	M	50
GCBF00251	04-36.7289-112.6856-4-59-000	.	.	.	2.3	8	8	55	48	20200	350	3900	3.7	3600	20
GCBF00351	04-36.6972-112.6825-4-59-000	.	.	.	2.2	7	10	58	47	23800	360	4500	6.0	7000	70
GCBF00451	04-36.7116-112.6498-4-59-000	.	.	.	1.7	8	16	51	53	27900	300	2500	4.7	-2300	30
GCBF00551	04-36.6662-112.6758-4-59-000	.	.	.	2.2	6	11	50	49	27000	320	2500	3.0	M	30
GCBF00651	04-36.6326-112.6784-4-59-000	.	.	.	2.3	7	10	43	43	19800	250	3900	3.7	-1700	M
GCBF00751	04-36.6683-112.6482-4-59-000	.	.	.	2.4	8	13	35	42	16700	350	3500	4.7	M	10
GCBF00851	04-36.6229-112.6519-4-59-000	.	.	.	2.2	6	12	55	37	15100	M	3200	2.9	3100	10
GCBF00951	04-36.5948-112.6365-4-59-000	.	.	.	2.5	8	14	31	50	17500	270	3200	4.6	8100	50
GCBF01051	04-36.7321-112.7350-4-59-000	.	.	.	1.6	5	8	55	34	9900	210	2200	2.4	-1800	M
GCBF01151	04-36.7003-112.7436-4-59-000	.	.	.	2.5	5	7	65	36	17600	380	3800	3.3	M	70
GCBF01251	04-36.6772-112.7372-4-59-000	.	.	.	1.5	7	4	60	45	23700	360	1700	4.2	4700	50
GCBF01351	04-36.6356-112.7387-4-59-000	.	.	.	2.2	8	10	56	40	21600	1440	M	4.7	M	50
GCBF01451	04-36.5817-112.7272-4-59-000	.	.	.	2.1	4	7	54	.	10000	250	3100	2.9	-1800	40
GCBF01551	04-36.5826-112.6837-4-59-000	.	.	.	2.7	8	12	60	46	17600	310	3800	6.2	M	30
GCBF01651	04-36.5206-112.7214-4-59-000	.	.	.	2.2	7	7	77	41	15400	300	3000	4.6	6200	50
GCBF01751	04-36.5227-112.6982-4-59-000	.	.	.	2.2	8	17	59	52	17200	270	3600	4.3	10500	30
GCBF01851	04-36.5345-112.6809-4-59-000	.	.	.	2.4	5	9	45	33	12000	1160	M	3.4	-9400	M
GCBF01951	04-36.6970-112.5195-4-59-000	.	.	.	2.2	9	11	43	52	18600	280	3800	5.1	M	60
GCBF02051	04-36.6974-112.5481-4-59-000	.	.	.	2.9	10	25	50	49	16700	1560	3000	4.4	M	70
GCBF02151	04-36.6698-112.5611-4-59-000	.	.	.	2.0	5	9	40	-9	13700	1500	2000	2.9	-1600	40
GCBF02251	04-36.6702-112.5166-4-59-000	.	.	.	2.3	6	1	55	33	16100	M	M	4.5	M	40
GCBF02351	04-36.6615-112.5353-4-59-000	.	.	.	3.1	6	8	50	40	15500	1390	2700	3.9	3200	70
GCBF02451	04-36.6265-112.5228-4-59-000	.	.	.	2.2	6	13	65	49	22400	1630	3900	5.6	M	50
GCBF02551	04-36.6343-112.5482-4-59-000	.	.	.	2.9	6	13	50	49	16200	1410	2400	5.1	-2100	M
GCBF02651	04-36.6425-112.5680-4-59-000	.	.	.	3.2	13	12	60	48	21600	1450	M	3.4	4300	40
GCBF02751	04-36.6382-112.5993-4-59-000	.	.	.	1.7	5	8	35	23	9400	1250	1100	2.9	3500	M
GCBF02851	04-36.6142-112.5496-4-59-000	.	.	.	2.6	8	18	43	54	12900	1410	2900	5.3	1600	30
GCBF02951	04-36.6188-112.5759-4-59-000	.	.	.	2.0	5	7	35	49	11800	1440	M	3.1	-1100	10
GCBF03051	04-36.6142-112.5990-4-59-000	.	.	.	2.8	7	13	55	46	14900	1230	M	4.8	M	40
GCBF03151	04-36.5937-112.5408-4-59-000	.	.	.	2.7	5	9	35	25	18000	1420	2400	3.4	-3700	M
GCBF03251	04-36.5784-112.5631-4-59-000	.	.	.	2.6	8	1	58	41	17700	1710	3500	2.8	M	20
GCBF03351	04-36.5606-112.6007-4-59-000	.	.	.	2.0	5	8	35	.	6600	1300	1700	2.3	-1700	20

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D.	COE I.D.	PH	COND. UM/CM	AKOXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
OCBF03451	04-36.5140-112.6059-4-59-000	.	.	.	2.8	6	14	39	48	12000	1490	M	1.4	4700	30
OCBF03551	04-36.5898-112.5189-4-59-000	.	.	.	2.5	6	7	38	25	11900	1350	2500	2.8	-1400	30
OCBF03651	04-36.5867-112.5104-4-59-000	.	.	.	2.4	7	8	65	-7	17300	1600	3300	6.3	4100	80
OCBF03751	04-36.5364-112.5663-4-59-000	.	.	.	1.8	5	9	35	35	11100	1160	M	4.4	2200	M
OCBF03851	04-36.7423-112.5168-4-59-000	.	.	.	2.4	10	14	80	64	23000	1670	M	7.3	M	40
OCBF03951	04-36.7395-112.5441-4-59-000	.	.	.	2.0	5	M	45	.	10800	1620	2300	2.6	-4000	30
OCBF04051	04-36.7288-112.5774-4-59-000	.	.	.	2.0	6	16	50	20	14900	1420	1100	3.3	M	40
OCBF04151	04-36.6920-112.5990-4-59-000	.	.	.	2.8	10	15	43	33	14200	1450	2900	5.2	-1800	40
OCBF04251	04-36.6552-112.6159-4-59-000	.	.	.	2.8	9	18	35	57	21000	1470	M	2.8	M	30
OCB000151	04-36.5775-112.3807-4-59-000	.	.	.	3.3	9	8	34	52	25100	M	3600	5.4	.	30
OCB000251	04-36.5575-112.3753-4-59-000	.	.	.	3.0	14	15	32	62	23800	350	3100	4.7	2500	30
OCB000351	04-36.5500-112.3958-4-59-000	.	.	.	2.6	6	9	29	36	15700	450	3500	5.4	.	40
OCB000451	04-36.5262-112.3981-4-59-000	.	.	.	2.6	9	8	26	47	19400	680	6200	5.8	4100	50
OCB000551	04-36.5118-112.3963-4-59-000	.	.	.	3.2	8	6	29	50	21900	470	3500	4.4	3100	40
OCB000651	04-36.5245-112.4617-4-59-000	.	.	.	1.9	8	7	25	35	19000	240	1900	3.2	2000	20
OCB000751	04-36.5024-112.4523-4-59-000	.	.	.	1.6	8	11	36	46	21600	280	3300	5.5	3000	30
OCB000851	04-36.7221-112.3891-4-59-000	.	.	.	2.4	11	10	52	48	20200	350	3700	3.5	2600	30
OCB000951	04-36.7291-112.4264-4-59-000	.	.	.	2.5	10	13	47	37	19300	420	4200	5.8	3000	40
OCB001051	04-36.7436-112.4747-4-59-000	.	.	.	1.5	8	13	44	40	17000	360	3200	4.6	2900	40
OCB001151	04-36.7389-112.3417-4-59-000	.	.	.	2.0	8	10	37	58	22800	420	3800	6.2	3000	40
OCB001251	04-36.7275-112.3147-4-59-000	.	.	.	2.8	12	8	35	35	21700	260	2400	2.7	1900	30
OCB001351	04-36.6900-112.3414-4-62-000	.	.	.	1.8	10	14	36	43	13200	220	1800	3.9	2500	20
OCB001451	04-36.6695-112.3542-4-62-000	.	.	.	3.1	5	9	40	29	9300	210	1500	3.3	1900	20
OCB001551	04-36.6557-112.3782-4-59-000	.	.	.	2.5	7	10	35	44	23700	350	4000	4.2	3100	40
OCB001651	04-36.8841-112.4257-4-59-000	.	.	.	2.9	16	8	25	61	24900	470	4700	5.9	3600	40
OCB001751	04-36.8893-112.3958-4-59-000	.	.	.	1.9	8	8	47	53	20000	400	3000	3.7	M	40
OCB001851	04-36.7035-112.4667-4-59-000	.	.	.	2.1	6	8	25	52	17600	360	3200	3.2	M	30
OCB001951	04-36.6710-112.4396-4-59-000	.	.	.	2.3	12	17	37	64	25500	350	3700	3.7	3300	40
OCB002051	04-36.6579-112.4633-4-59-000	.	.	.	2.3	8	8	46	53	18400	M	5000	3.1	.	40
OCB002151	04-36.6300-112.4435-4-59-000	.	.	.	2.7	11	10	42	55	24500	270	2800	3.8	2200	30
OCB002251	04-36.6171-112.4752-4-59-000	.	.	.	2.6	9	14	37	43	17700	320	3500	4.3	2600	20
OCB002351	04-36.6330-112.3944-4-59-000	.	.	.	2.2	6	6	32	21	12600	410	3600	3.8	.	40
OCB002451	04-36.5851-112.4404-4-59-000	.	.	.	2.8	12	11	30	62	23800	380	4000	2.3	.	40
OCB002551	04-36.5770-112.4482-4-59-000	.	.	.	2.9	10	11	20	49	23500	390	3000	6.4	2700	30
OCB002651	04-36.5607-112.4275-4-59-000	.	.	.	2.7	10	8	27	54	21800	450	3800	4.7	2900	40
OCB002751	04-36.5629-112.4772-4-59-000	.	.	.	2.6	5	14	32	60	16200	190	2200	2.3	M	20
OCB002851	04-36.6030-112.3478-4-59-000	.	.	.	2.0	7	9	34	33	16300	180	800	3.0	M	20
OCB002951	04-36.6258-112.3447-4-62-000	.	.	.	2.5	7	4	30	33	15200	410	2000	2.9	1900	40
OCB003051	04-36.6959-112.3109-4-62-000	.	.	.	2.5	6	7	35	43	19700	320	5100	2.9	3000	40
OCB003151	04-36.7021-112.2598-4-59-000	.	.	.	2.7	4	6	33	36	13800	260	1900	2.0	1800	30
OCB003251	04-36.7298-112.2551-4-59-000	.	.	.	2.1	6	9	27	45	16900	170	700	3.9	M	30
OCB003351	04-36.6574-112.3013-4-59-000	.	.	.	2.7	10	7	24	57	19800	480	5100	3.7	3600	40
OCB003451	04-36.6623-112.2672-4-59-000	.	.	.	2.5	7	8	28	33	10300	400	4500	3.1	.	40
OCB003551	04-36.6216-112.2603-4-59-000	.	.	.	2.3	8	8	34	44	19200	510	2800	6.0	.	40
OCB003651	04-36.6343-112.2971-4-59-000	.	.	.	2.5	9	9	24	64	20800	510	5500	5.6	3800	30
OCB003751	04-36.6012-112.2715-4-59-000	.	.	.	3.6	9	20	32	59	20200	220	1300	3.9	2300	30
OCB003851	04-36.5863-112.3411-4-59-000	.	.	.	2.2	5	8	23	16	8800	200	1500	2.7	.	30
OCB003951	04-36.5386-112.4151-4-59-000	.	.	.	2.6	5	7	27	26	10700	250	2400	3.7	1900	20
OCB004051	04-36.5420-112.2619-4-59-000	.	.	.	2.1	6	11	28	43	16800	410	4300	3.6	3300	30
OCB004151	04-36.5575-112.6866-4-59-000	.	.	.	2.3	9	14	22	54	19900	330	4300	5.7	2900	30
OCB004251	04-36.5717-112.3193-4-59-000	.	.	.	2.4	8	7	10	53	18000	680	6700	2.4	3700	40
OCB004351	04-36.5320-112.3123-4-59-000	.	.	.	2.5	13	7	30	70	28900	1950	4500	4.8	4200	80
OCB004451	04-36.5175-112.2837-4-59-000	.	.	.	2.4	15	12	15	56	24000	580	5500	3.3	4500	50
OCB004551	04-36.5017-112.2702-4-59-000	.	.	.	1.5	8	11	15	45	16500	130	800	5.5	1900	20
OCB000151	04-36.7299-112.0924-4-59-000	.	.	.	2.2	5	.	34	44	17900	1700	M	5.3	M	60

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCBH00251	04-36.7431-112.2337-4-59-000	.	.	.	3.0	8	7	45	52	18400	1760	4400	6.0	-1600	40
GCBH00351	04-36.7312-112.0460-4-61-000	.	.	.	2.3	4	6	38	25	8700	1540	2700	3.1	M	30
GCBH00451	04-36.7369-112.1887-4-59-000	.	.	.	2.5	6	10	43	-1	12000	1350	4100	4.6	-1000	80
GCBH00551	04-36.7302-112.0156-4-61-000	.	.	.	1.2	3	8	23	21	5700	1310	M	1.0	M	20
GCBH00651	04-36.7340-112.1296-4-59-000	.	.	.	2.8	9	8	38	47	18700	1510	3300	5.2	8200	40
GCBH00751	04-36.7014-112.0121-4-59-000	.	.	.	1.9	8	9	32	30	12700	M	1600	4.6	4200	40
GCBH00851	04-36.6917-112.1871-4-59-000	.	.	.	2.6	11	9	60	71	14100	1500	3800	2.8	2100	40
GCBH00951	04-36.6969-112.0518-4-59-000	.	.	.	2.3	5	15	28	33	11500	1360	M	4.1	M	30
GCBH01051	04-36.6959-112.1531-4-59-000	.	.	.	3.8	11	9	60	49	22700	1590	3800	5.6	-2000	60
GCBH01151	04-36.6876-112.0822-4-61-000	.	.	.	2.4	10	13	34	68	22300	-30	4300	7.6	M	M
GCBH01251	04-36.6686-112.1590-4-61-000	.	.	.	5.3	10	8	58	71	20700	1370	M	5.0	-2500	40
GCBH01351	04-36.6682-112.0883-4-61-000	.	.	.	2.6	9	.	36	62	19700	1840	M	6.0	2500	30
GCBH01451	04-36.6417-112.1189-4-61-000	.	.	.	2.2	4	5	45	41	16700	1540	3300	4.4	-2000	30
GCBH01551	04-36.6284-112.1017-4-61-000	.	.	.	2.6	7	14	32	47	17000	1600	2900	5.8	M	30
GCBH01651	04-36.6663-112.1917-4-61-000	.	.	.	1.6	5	7	50	39	10700	1290	M	1.6	-1100	30
GCBH01751	04-36.5881-112.0848-4-59-000	.	.	.	2.5	7	13	33	40	18400	1180	M	6.2	M	30
GCBH01851	04-36.6327-112.1749-4-59-000	.	.	.	3.5	11	9	50	68	18000	1710	6000	5.1	7700	60
GCBH01951	04-36.5930-112.0543-4-59-000	.	.	.	2.9	10	1	31	-5	-3500	1740	M	-0.1	M	50
GCBH02051	04-36.5894-112.1802-4-61-000	.	.	.	4.1	8	3	85	57	23900	1760	4800	6.2	3700	30
GCBH02151	04-36.6246-112.0532-4-59-000	.	.	.	2.8	9	12	34	74	32800	M	M	3.7	M	70
GCBH02251	04-36.5710-112.2108-4-59-000	.	.	.	2.8	8	10	50	38	17400	1510	5300	4.3	4900	40
GCBH02351	04-36.6104-112.0178-4-59-000	.	.	.	2.6	11	10	34	67	24000	1680	4500	8.2	4700	30
GCBH02451	04-36.5505-112.2161-4-61-000	.	.	.	3.4	11	10	60	65	21700	-30	M	8.5	M	M
GCBH02551	04-36.5613-112.0482-4-59-000	.	.	.	2.4	7	9	36	56	19400	1540	3800	4.3	6300	60
GCBH02651	04-36.5318-112.2066-4-61-000	.	.	.	2.8	8	10	53	45	19200	1660	M	5.7	M	40
GCBH02751	04-36.5206-112.0335-4-59-000	.	.	.	1.8	7	8	27	28	12200	1410	1400	4.5	-1100	40
GCBH02851	04-36.5507-112.1812-4-59-000	.	.	.	2.9	12	8	58	54	19400	-50	M	6.6	M	M
GCBH02951	04-36.5526-112.0810-4-61-000	.	.	.	2.2	7	9	42	40	14000	1440	2200	4.5	6300	20
GCBH03051	04-36.5423-112.1572-4-61-000	.	.	.	3.1	4	M	73	.	9300	1340	3300	3.2	5100	40
GCBH03151	04-36.5199-112.0431-4-59-000	.	.	.	2.1	7	7	39	60	17300	1360	2700	5.6	2700	30
GCBH03251	04-36.5104-112.1354-4-59-000	6.3	.	0.64	1.6	2	M	50	.	4000	1190	M	1.5	M	20
GCBH03351	04-36.5314-112.0176-4-59-000	.	.	.	2.3	4	M	32	.	11300	M	2500	3.6	-1600	40
GCBH03451	04-36.6976-112.2337-4-61-000	.	.	.	3.2	6	7	52	34	13500	1580	2000	4.8	M	30
GCBH03551	04-36.5759-112.0177-4-61-000	.	.	.	1.7	5	8	24	19	6900	1400	500	1.6	-1000	30
GCBH03651	04-36.6637-112.2328-4-61-000	.	.	.	3.4	8	10	50	53	17500	1560	M	6.1	M	60
GCBH03751	04-36.6709-112.0133-4-61-000	.	.	.	1.9	4	7	53	14	11300	1420	1500	3.2	-3000	20
GCBH03851	04-36.6156-112.2462-4-61-000	.	.	.	3.1	9	1	56	57	21000	-50	M	6.0	M	60
GCBH03951	04-36.6515-112.0347-4-61-000	.	.	.	2.1	3	10	25	21	8500	1350	800	2.6	-1800	10
GCBH04051	04-36.5789-112.1544-4-61-000	.	.	.	2.2	M	M	50	-4	19800	1750	M	6.0	M	30
GCBH04151	04-36.5600-112.0094-4-62-000	.	.	.	2.1	6	7	22	30	8800	1300	M	2.8	.	30
GCCA00151	04-36.2666-113.7740-4-59-000	.	.	.	1.3	3	5	25	16	5800	1050	2600	1.8	5200	40
GCCA00251	04-36.2928-113.7539-4-59-000	.	.	.	1.4	5	6	21	17	10400	1310	2500	1.8	-2700	M
GCCA00351	04-36.2726-113.8217-4-59-000	.	.	.	2.2	9	10	20	33	23300	1450	M	7.4	M	80
GCCA00451	04-36.2720-113.8882-4-59-000	.	.	.	2.5	8	13	25	58	16800	1480	4200	5.0	2600	20
GCCA00551	04-36.3100-113.9339-4-59-000	.	.	.	3.2	11	1	30	66	26800	-10	M	8.3	M	30
GCCA00651	04-36.3398-113.9335-4-59-000	.	.	.	3.0	8	3	20	49	15500	-80	7300	5.0	4100	70
GCCA00751	04-36.3404-113.8902-4-59-000	.	.	.	2.6	12	10	26	57	21000	1410	6500	5.8	-1800	30
GCCA00851	04-36.3394-113.8565-4-59-000	.	.	.	3.0	14	15	20	75	25900	1830	M	7.9	1900	70
GCCA00951	04-36.3622-113.8835-4-59-000	.	.	.	2.6	11	9	25	62	22900	1620	6500	5.4	-1700	50
GCCA01051	04-36.3777-113.9718-4-59-000	.	.	.	2.6	10	2	25	54	31700	1360	5400	7.3	M	60
GCCA01151	04-36.4005-113.9320-4-59-000	.	.	.	3.0	12	13	21	-7	26300	1570	5500	5.3	6600	40
GCCA01251	04-36.4190-113.9060-4-59-000	.	.	.	2.1	9	14	35	66	19100	-40	5400	6.0	M	M
GCCA01351	04-36.4272-113.8774-4-59-000	.	.	.	2.5	10	8	25	57	21400	1270	5700	5.3	-3700	40
GCCA01451	04-36.4459-113.8961-4-59-000	.	.	.	2.7	11	15	30	65	23300	-70	4800	7.5	M	60
GCCA01551	04-36.4394-113.8587-4-59-000	.	.	.	2.3	9	10	25	58	21400	1380	5500	3.3	-2100	40

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKOXD MEQ/L	U PPH	TH PPH	HF PPH	SCINT CPS	CE PPH	FE PPH	MN PPH	NA PPH	SC PPH	T1 PPH	V PPH
GCCA016S1	04-36.4535-113.8356-4-59-000	.	.	.	2.7	11	14	30	60	22000	1350	5600	2.6	M	40
GCCA017S1	04-36.4698-113.8255-4-59-000	.	.	.	1.9	10	10	26	-8	23100	1380	5200	5.8	-1400	40
GCCA018S1	04-36.4794-113.8488-4-59-000	.	.	.	1.9	5	2	30	.	9900	1140	2800	2.8	M	60
GCCA019S1	04-36.4768-113.8531-4-59-000	.	.	.	2.5	5	8	27	30	11000	1250	5700	3.5	-2100	50
GCCA020S1	04-36.3983-113.8333-4-59-000	.	.	.	2.5	9	13	25	55	19600	1350	5300	6.1	M	50
GCCA021S1	04-36.3754-113.8595-4-59-000	.	.	.	1.6	9	7	21	52	18600	1120	2800	4.4	-3400	20
GCCA022S1	04-36.4115-113.8563-4-59-000	.	.	.	3.2	11	1	21	67	28100	1260	4600	2.7	1700	100
GCCA023S1	04-36.4495-113.8704-4-59-000	.	.	.	2.3	8	8	25	59	19700	1420	5900	3.5	-1000	30
GCCA024S1	04-36.4895-113.8682-4-59-000	.	.	.	2.8	11	17	25	71	21100	-30	5600	6.9	M	60
GCCA025S1	04-36.4809-113.9398-4-59-000	.	.	.	3.0	10	11	25	70	27000	1560	5800	6.5	-2200	60
GCCA026S1	04-36.4513-113.9382-4-59-000	.	.	.	3.0	14	16	25	63	26100	-30	5000	5.2	4200	70
GCCA027S1	04-36.3877-113.9523-4-61-000	.	.	.	1.6	5	7	25	40	13600	1170	4300	2.9	-1500	M
GCCA028S1	04-36.3250-113.9725-4-59-000	.	.	.	2.5	9	2	25	-8	20700	1260	4600	6.2	6800	70
GCCA029S1	04-36.2977-113.9848-4-59-000	.	.	.	10.3	3	6	20	15	13800	440	10100	4.4	3200	80
GCCA030S1	04-36.3298-113.7896-4-61-000	.	.	.	6.6	-2	6	.	.	.	.	.	.	.	.
GCCA031S1	04-36.3625-113.7775-4-59-000	.	.	.	2.2	9	.	29	49	22300	260	3900	6.5	1500	40
GCCA032S1	04-36.4072-113.7697-4-59-000	.	.	.	2.0	M	M	24	-9	-2500	140	4600	-0.2	2200	30
GCCA033S1	04-36.4573-113.7545-4-59-000	.	.	.	0.9	3	5	21	22	6100	170	1500	1.4	M	10
GCCA034S1	04-36.4810-113.7648-4-59-000	.	.	.	1.7	4	2	29	17	7000	150	1500	2.3	1100	20
GCCA035S1	04-36.2568-113.8591-4-59-000	.	.	.	1.7	7	9	25	38	11600	320	4000	2.9	2400	40
GCCB001S1	04-36.4654-112.4083-4-59-000	.	.	.	2.5	10	2	25	52	32600	560	3300	9.0	3600	70
GCCB002S1	04-36.4684-112.4311-4-59-000	.	.	.	2.8	11	8	22	69	26700	460	6200	4.7	.	60
GCCB003S1	04-36.4699-112.4609-4-59-000	.	.	.	2.9	12	14	30	84	33500	470	8400	10.1	3500	60
GCCB004S1	04-36.4604-112.4866-4-59-000	.	.	.	3.1	12	17	45	80	32000	670	9100	9.7	3900	70
GCCB005S1	04-36.4347-112.4292-4-59-000	.	.	.	3.3	13	17	35	64	25300	350	5200	8.5	2600	40
GCCB006S1	04-36.4478-112.3928-4-59-000	.	.	.	2.7	6	8	32	36	12900	350	5300	4.0	2600	40
GCCB007S1	04-36.4279-112.2735-4-59-000	.	.	.	2.7	8	11	34	55	20500	530	7400	4.5	.	30
GCCB008S1	04-36.4380-112.3266-4-59-000	.	.	.	2.9	8	12	35	56	17000	320	4700	6.9	2100	30
GCCB009S1	04-36.3918-112.4850-4-59-000	.	.	.	2.7	11	12	32	52	19400	360	6100	5.8	2630	50
GCCB010S1	04-36.4035-112.4571-4-59-000	.	.	.	3.2	12	10	48	78	28300	610	9400	6.3	.	70
GCCB011S1	04-36.4126-112.4915-4-59-000	.	.	.	3.2	9	12	44	70	28800	380	6100	2.1	2200	40
GCCB012S1	04-36.4357-112.4721-4-59-000	.	.	.	3.0	11	11	48	59	21900	420	7700	4.2	3500	60
GCCB013S1	04-36.4969-112.4890-4-59-000	.	.	.	3.4	15	16	35	103	30800	600	9100	10.6	4500	70
GCCB014S1	04-36.3994-113.6826-4-59-000	.	.	.	3.1	M	M	35	M	-3100	440	8500	M	.	50
GCCB015S1	04-36.3705-113.6846-4-59-000	.	.	.	3.3	12	22	42	79	24600	350	5900	7.9	2700	40
GCCB016S1	04-36.3700-113.6359-4-59-000	.	.	.	8.4	11	12	42	69	24500	450	6600	7.7	3500	50
GCCB017S1	04-36.3385-113.6061-4-59-000	.	.	.	3.4	12	10	30	71	27900	430	6500	8.6	2800	50
GCCB018S1	04-36.3363-113.5648-4-59-000	.	.	.	2.2	8	13	28	59	18600	310	3600	6.2	2500	40
GCCB019S1	04-36.3262-113.5198-4-59-000	.	.	.	3.3	16	24	30	96	33500	450	6000	9.9	3200	60
GCCB020S1	04-36.3345-113.6457-4-59-000	.	.	.	3.1	12	15	40	80	27300	570	8100	9.5	3800	50
GCCB021S1	04-36.3355-113.6858-4-59-000	.	.	.	2.9	14	12	42	52	22200	290	5200	6.2	2400	30
GCCB022S1	04-36.4113-113.7339-4-59-000	.	.	.	2.9	11	13	20	60	25300	580	7800	8.6	4200	60
GCCB023S1	04-36.4308-113.7075-4-59-000	.	.	.	3.0	8	6	38	47	15900	370	5500	4.8	2500	40
GCCB024S1	04-36.4465-113.6901-4-59-000	.	.	.	2.7	10	11	31	53	17200	420	6600	7.1	3400	50
GCCB025S1	04-36.4796-113.6750-4-59-000	.	.	.	2.8	8	13	28	45	18500	230	3900	5.7	1900	30
GCCB026S1	04-36.4781-113.6448-4-59-000	.	.	.	2.5	7	14	30	45	12900	250	3300	4.9	2600	30
GCCB027S1	04-36.3049-113.5256-4-59-000	.	.	.	2.9	8	12	44	59	26500	440	6500	7.6	2900	40
GCCB028S1	04-36.3051-113.6117-4-59-000	.	.	.	3.3	14	19	40	89	29400	530	7900	8.7	4200	60
GCCB029S1	04-36.2751-113.6158-4-59-000	.	.	.	2.8	10	16	28	74	22400	320	4100	7.0	2400	40
GCCB030S1	04-36.3931-113.5362-4-59-000	.	.	.	2.5	11	14	40	73	42200	810	9300	12.7	6000	120
GCCB031S1	04-36.2766-113.6414-4-61-000	.	.	.	2.7	9	1	22	45	17500	270	3800	5.8	1900	30
GCCB032S1	04-36.2998-113.6865-4-59-000	.	.	.	2.1	5	6	25	29	9900	280	3300	2.9	6000	40
GCCB033S1	04-36.3005-113.7267-4-59-000	.	.	.	2.5	10	12	30	60	20900	420	M	1.3	5400	50
GCCB034S1	04-36.2728-113.7217-4-59-000	.	.	.	2.6	9	15	38	55	16900	320	4200	6.0	2800	40
GCCB035S1	04-36.3248-113.7474-4-59-000	.	.	.	2.0	5	11	34	25	9500	240	2100	3.8	.	30

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKOXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCCB03651	04-36.3660-113.7385-4-59-000	.	.	.	1.5	3	4	35	29	9500	160	2300	3.2	1700	20
GCCB03751	04-36.3078-113.6376-4-59-000	.	.	.	3.7	11	13	32	56	15900	210	3500	6.2	2000	30
GCCB03851	04-36.2706-113.5051-4-59-000	.	.	.	2.6	4	13	23	19	5400	200	1500	3.0	2500	40
GCCB03951	04-36.2666-113.5771-4-59-000	.	.	.	2.2	8	11	38	58	19400	410	5800	6.8	2800	50
GCCC00151	04-36.4117-113.3074-4-59-000	.	.	.	2.2	9	M	30	59	29500	700	6100	11.5	4400	100
GCCC00251	04-36.3758-113.3604-4-59-000	.	.	.	2.4	12	8	30	65	23500	610	7400	8.1	3500	50
GCCC00351	04-36.4110-113.3610-4-59-000	.	.	.	2.1	9	10	30	60	23700	550	6800	5.3	4300	70
GCCC00451	04-36.3763-113.3243-4-59-000	.	.	.	2.0	6	5	40	37	16800	840	9300	5.6	4100	90
GCCC00551	04-36.4435-113.3126-4-59-000	.	.	.	2.7	8	9	30	50	19800	520	7200	5.8	.	60
GCCC00651	04-36.4500-113.3627-4-59-000	.	.	.	2.1	7	8	30	57	23000	530	5800	3.9	3400	70
GCCC00751	04-36.4653-113.3538-4-59-000	.	.	.	1.3	5	M	35	41	18500	750	8100	6.4	.	40
GCCC00851	04-36.4847-113.3243-4-59-000	.	.	.	2.8	5	5	25	15	8600	310	4100	2.8	2200	40
GCCC00951	04-36.3821-113.3949-4-59-000	.	.	.	2.3	9	M	30	60	26000	510	5300	8.4	2600	50
GCCC01051	04-36.3832-113.4331-4-59-000	.	.	.	2.5	9	16	35	66	25200	460	4800	7.6	3500	60
GCCC01151	04-36.3750-113.4699-4-59-000	.	.	.	3.2	15	12	30	61	23200	360	3900	7.5	2100	40
GCCC01251	04-36.4222-113.4290-4-59-000	.	.	.	2.9	10	18	30	85	34200	510	7700	9.5	3900	70
GCCC01351	04-36.4429-113.4277-4-59-000	.	.	.	2.4	12	12	30	70	30300	540	7600	4.8	3800	70
GCCC01451	04-36.4434-113.4685-4-59-000	.	.	.	2.7	9	9	35	54	26100	410	6300	8.5	3000	50
GCCC01551	04-36.4218-113.4900-4-59-000	.	.	.	2.8	9	13	30	81	36700	690	8400	10.8	5300	100
GCCC01651	04-36.4915-113.4794-4-59-000	.	.	.	1.3	9	9	30	50	16300	470	5900	3.6	.	50
GCCC01751	04-36.4798-113.4408-4-59-000	.	.	.	3.2	12	16	35	72	24000	300	5000	7.9	2500	40
GCCC01851	04-36.4889-113.3979-4-59-000	.	.	.	2.3	7	10	30	35	13300	510	7400	4.6	3500	60
GCCC01951	04-36.4433-113.3830-4-59-000	.	.	.	2.3	9	1	40	52	19900	430	6200	7.8	3000	40
GCCC02051	04-36.4118-113.3902-4-59-000	.	.	.	2.5	7	7	40	47	20700	460	6200	3.6	.	50
GCCC02151	04-36.4106-113.2739-4-59-000	.	.	.	4.2	10	9	30	56	27200	370	5800	8.9	2900	40
GCCC02251	04-36.4799-113.2783-4-59-000	.	.	.	3.2	11	18	40	59	21700	470	6900	6.6	3700	50
GCCC02351	04-36.4490-113.2682-4-59-000	.	.	.	2.2	10	8	30	46	18700	480	3900	3.4	3100	40
GCCC02451	04-36.2898-113.2762-4-59-000	.	.	.	3.2	6	8	20	39	22300	460	5900	7.6	3600	40
GCCC02551	04-36.3107-113.2777-4-59-000	.	.	.	1.9	6	10	15	32	11000	220	4100	4.0	1900	30
GCCC02651	04-36.3445-113.3061-4-59-000	.	.	.	2.3	8	11	20	51	19200	340	4400	5.8	2500	50
GCCC02751	04-36.3427-113.2728-4-59-000	.	.	.	3.2	10	14	30	63	24300	520	6400	8.1	4000	50
GCCC02851	04-36.3012-113.3540-4-59-000	.	.	.	2.1	5	9	20	34	18000	260	3200	4.7	2300	40
GCCC02951	04-36.2994-113.3190-4-59-000	.	.	.	2.4	4	19	30	23	9100	140	1900	1.8	1400	20
GCCC03051	04-36.3420-113.3406-4-59-000	.	.	.	2.7	6	9	20	39	15000	470	4300	4.0	.	60
GCCC03151	04-36.2800-113.3436-4-59-000	.	.	.	1.8	5	10	30	42	10100	150	900	3.7	1600	20
GCCC03251	04-36.2689-113.3246-4-59-000	.	.	.	2.1	6	9	30	30	12900	250	1800	4.8	2600	30
GCCC03351	04-36.3419-113.3971-4-59-000	.	.	.	3.2	12	17	30	69	27500	340	4900	9.0	2600	40
GCCC03451	04-36.3395-113.4793-4-59-000	.	.	.	2.6	8	3	20	52	18600	260	4600	6.3	2800	40
GCCC03551	04-36.3081-113.4925-4-59-000	.	.	.	3.7	12	9	30	57	26200	350	5600	2.5	2700	50
GCCC03651	04-36.2566-113.4035-4-59-000	.	.	.	3.3	9	19	30	57	21300	260	4700	6.4	3100	40
GCCC03751	04-36.2681-113.4781-4-59-000	.	.	.	2.2	10	M	30	71	33900	400	5900	11.1	3200	70
GCCC03851	04-36.2729-113.4240-4-59-000	.	.	.	3.0	12	13	25	77	30300	630	7600	2.7	4800	80
GCCC03951	04-36.2947-113.4355-4-59-000	.	.	.	2.5	15	14	25	80	43500	570	6700	13.7	3800	90
GCCC04051	04-36.3272-113.4436-4-59-000	.	.	.	2.7	11	15	25	66	23700	340	5700	6.9	3100	40
GCCC00151	04-36.4006-113.1819-4-59-000	.	.	.	2.3	10	12	40	58	32500	620	8200	11.6	3400	50
GCCC00251	04-36.4552-113.1395-4-59-000	.	.	.	2.6	6	1	37	48	30300	840	11000	5.2	.	90
GCCC00351	04-36.4758-113.1809-4-59-000	.	.	.	2.6	10	12	37	87	36000	520	5200	9.7	3700	70
GCCC00451	04-36.4896-113.2126-4-59-000	.	.	.	2.5	10	7	38	68	36800	910	11900	6.0	5900	70
GCCC00551	04-36.4556-113.2121-4-59-000	.	.	.	2.6	12	11	40	81	35800	730	8000	12.1	5200	70
GCCC00651	04-36.4042-113.2219-4-59-000	.	.	.	2.4	9	13	50	76	30200	480	7500	2.2	2800	50
GCCC00751	04-36.4260-113.1093-4-59-000	.	.	.	2.5	8	13	45	66	31900	760	7100	4.4	4800	70
GCCC00851	04-36.4157-113.0618-4-59-000	.	.	.	3.0	9	11	35	54	18700	440	5000	7.1	2700	50
GCCC00951	04-36.3680-113.0430-4-59-000	.	.	.	2.8	5	5	25	33	12100	310	4000	3.7	1800	30
GCCC01051	04-36.3968-113.0611-4-59-000	.	.	.	2.2	8	9	36	71	39600	780	9900	13.0	6800	80
GCCC01151	04-36.3042-113.0645-4-59-000	.	.	.	2.5	8	9	30	42	17700	260	3100	5.9	1900	30

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCCD01251	04-36.3396-113.0546-4-59-000	.	.	.	2.1	10	14	34	86	42800	670	5000	2.4	4500	70
GCCD01351	04-36.4395-113.0179-4-59-000	.	.	.	2.1	7	13	22	43	13200	220	2100	4.6	1500	30
GCCD01451	04-36.4702-113.0298-4-59-000	.	.	.	2.8	10	12	32	60	34100	650	7900	11.5	5200	60
GCCD01551	04-36.3473-113.1128-4-59-000	.	.	.	2.5	9	10	34	82	53800	610	7300	16.0	5300	80
GCCD01651	04-36.3818-113.2121-4-59-000	.	.	.	2.3	7	12	32	54	24600	480	9000	8.0	4600	70
GCCD01751	04-36.4520-113.1844-4-59-000	.	.	.	2.6	8	8	42	50	21200	700	8000	6.4	3800	60
GCCD01851	04-36.4691-113.1134-4-59-000	.	.	.	1.8	13	6	34	86	43100	910	11200	9.0	6400	100
GCCD01951	04-36.4636-113.0448-4-59-000	.	.	.	2.3	10	14	35	70	28100	650	8100	9.4	4200	60
GCCD02051	04-36.4407-113.0507-4-59-000	.	.	.	2.9	10	8	33	47	27600	680	7500	9.2	.	60
GCCD02151	04-36.3667-113.1052-4-59-000	.	.	.	2.6	14	.	34	101	43800	710	8600	3.7	4300	50
GCCD02251	04-36.3689-113.0820-4-59-000	.	.	.	2.6	13	10	37	100	39200	1080	8500	6.9	6100	80
GCCD02351	04-36.3902-113.1504-4-59-000	.	.	.	2.4	12	15	36	85	43900	770	10100	13.0	5600	80
GCCD02451	04-36.3656-113.1657-4-61-000	.	.	.	2.2	8	9	30	82	55600	990	8800	11.0	6600	140
GCCD02551	04-36.3323-113.1842-4-59-000	.	.	.	2.0	12	9	25	60	53100	710	7400	21.8	4900	90
GCCD02651	04-36.3167-113.1875-4-59-000	.	.	.	3.0	8	2	27	56	22700	720	9300	6.5	5900	70
GCCD02751	04-36.2837-113.2400-4-59-000	.	.	.	2.4	7	11	35	46	24800	490	7900	8.0	2500	40
GCCD02851	04-36.3109-113.2273-4-59-000	.	.	.	1.5	9	7	36	72	27000	750	10600	4.8	5000	80
GCCD02951	04-36.3546-113.2419-4-59-000	.	.	.	2.2	8	14	25	42	25900	2050	M	4.3	.	70
GCCD03051	04-36.4259-113.1653-4-59-000	.	.	.	2.0	8	7	36	58	24700	520	10300	7.8	4300	60
GCCD03151	04-36.4578-113.0866-4-59-000	.	.	.	1.7	10	10	37	69	44700	510	6100	14.1	4200	60
GCCD03251	04-36.3000-113.1680-4-59-000	.	.	.	3.0	10	8	42	84	46600	890	9700	11.2	.	100
GCCD00151	04-36.4835-112.9417-4-59-000	.	.	.	2.1	8	9	32	54	20500	440	3500	4.0	2900	50
GCCD00251	04-36.4541-112.9472-4-59-000	.	.	.	3.0	11	15	33	53	20800	870	4900	6.7	.	50
GCCD00351	04-36.4185-112.9398-4-59-000	.	.	.	2.8	12	9	40	75	27400	790	8300	3.7	5200	60
GCCD00451	04-36.4193-112.9931-4-59-000	.	.	.	4.1	8	14	27	47	19600	730	3800	3.9	3900	60
GCCD00551	04-36.4230-112.8950-4-59-000	.	.	.	2.6	12	11	38	72	23800	880	6100	9.3	.	60
GCCD00651	04-36.4498-112.9075-4-59-000	.	.	.	3.2	9	19	35	57	18600	340	3600	5.7	2400	30
GCCD00751	04-36.4764-112.8886-4-59-000	.	.	.	1.6	8	9	28	50	22100	420	4900	6.4	M	50
GCCD00851	04-36.4444-112.8546-4-59-000	.	.	.	3.1	11	14	22	48	17100	360	3000	5.8	2300	40
GCCD00951	04-36.4197-112.8300-4-59-000	.	.	.	2.3	10	19	28	71	24100	640	4100	5.0	3600	60
GCCD01051	04-36.4376-112.8044-4-59-000	.	.	.	2.2	5	8	41	42	20200	350	1000	6.2	1300	40
GCCD01151	04-36.4131-112.7844-4-59-000	.	.	.	2.6	11	6	44	60	30600	850	6200	4.6	4300	70
GCCD01251	04-36.4528-112.7695-4-59-000	.	.	.	2.6	9	11	36	51	24600	690	4200	6.9	3900	50
GCCD01351	04-36.4819-112.7689-4-59-000	.	.	.	2.4	5	9	35	40	13100	560	4400	4.1	.	50
GCCD01451	04-36.4905-112.8171-4-61-000	.	.	.	2.1	5	10	20	39	6900	210	1400	4.3	1600	20
GCCD01551	04-36.4677-112.8035-4-59-000	.	.	.	2.6	9	.	26	44	16400	410	2500	5.2	2300	30
GCCD01651	04-36.4904-112.8896-4-59-000	.	.	.	2.8	8	9	26	37	17200	570	7000	5.1	3600	60
GCCD01751	04-36.4495-112.9746-4-59-000	.	.	.	2.6	12	11	43	83	35300	M	M	9.5	M	100
GCCD01851	04-36.4870-112.9655-4-59-000	.	.	.	2.5	6	6	36	57	26400	800	1200	5.3	2700	70
GCCF00151	04-36.4944-112.7187-4-59-000	.	.	.	2.2	4	8	41	31	11900	390	4600	3.4	3000	50
GCCF00251	04-36.4593-112.6964-4-59-000	.	.	.	2.2	8	10	68	51	19700	300	4300	3.1	2900	30
GCCF00351	04-36.4765-112.6904-4-59-000	.	.	.	2.3	9	12	41	51	21600	500	6100	6.4	3500	40
GCCF00451	04-36.4510-112.7412-4-59-000	.	.	.	2.4	7	14	60	37	16400	390	2500	5.0	2500	30
GCCF00551	04-36.4905-112.5103-4-59-000	.	.	.	3.3	9	8	60	43	20100	290	3200	4.5	2600	30
GCCF00651	04-36.4761-112.5399-4-59-000	.	.	.	2.1	9	11	20	45	23000	440	3900	6.3	.	40
GCCF00751	04-36.4529-112.5570-4-59-000	.	.	.	1.4	5	6	10	18	9800	180	1600	1.5	1600	20
GCCF00851	04-36.4352-112.5170-4-59-000	.	.	.	1.6	2	13	5	19	11900	90	1000	1.6	1300	10
GCCF00951	04-36.4108-112.5193-4-59-000	.	.	.	5.0	15	54	10	66	18400	260	3100	3.5	3500	30
GCCF01051	04-36.4247-112.5411-4-59-000	.	.	.	1.4	12	9	10	28	11500	150	1600	1.8	1300	20
GCCF01151	04-36.4131-112.5725-4-59-000	.	.	.	1.1	4	7	15	20	10900	170	600	3.2	1000	10
GCCF01251	04-36.4189-112.5966-4-59-000	.	.	.	1.4	9	7	10	34	17300	160	1100	1.7	1300	20
GCCF01351	04-36.4432-112.6056-4-59-000	.	.	.	1.5	5	10	5	28	10600	170	1700	2.9	2100	20
GCCF01451	04-36.4752-112.5864-4-59-000	.	.	.	1.2	5	11	10	28	10800	140	900	3.2	1200	20
GCCF01551	04-36.4861-112.6493-4-59-000	.	.	.	1.6	3	20	10	18	11300	120	700	1.3	1500	20
GCCF01651	04-36.4552-112.6518-4-59-000	.	.	.	0.7	2	4	10	9	5800	60	600	0.7	600	10

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	ZN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCCF01751	04-36.3976-112.6210-4-59-000	.	.	.	1.0	8	12	10	24	10300	100	1000	2.7	900	10
GCC000151	04-36.4652-112.4081-4-59-000	.	.	.	2.4	7	6	27	38	16500	330	2200	3.3	1900	30
GCC000251	04-36.4683-112.4309-4-59-000	.	.	.	3.4	7	9	36	53	16700	210	2000	3.7	1300	30
GCC000351	04-36.4697-112.4609-4-59-000	.	.	.	2.4	7	7	30	37	18500	370	3000	3.7	.	40
GCC000451	04-36.4603-112.4866-4-59-000	.	.	.	2.5	7	7	20	40	19100	300	2600	2.3	1700	30
GCC000551	04-36.4343-112.4288-4-59-000	.	.	.	2.4	7	11	31	37	20900	M	200	4.9	M	20
GCC000651	04-36.4473-112.3928-4-59-000	.	.	.	2.5	6	7	34	27	9500	420	3400	2.9	.	30
GCC000751	04-36.4276-112.2736-4-59-000	.	.	.	2.3	18	4	20	57	22800	810	6100	4.1	.	30
GCC000851	04-36.4373-112.3264-4-59-000	.	.	.	2.7	8	8	34	48	21800	490	4800	3.4	.	40
GCC000951	04-36.3916-112.4650-4-59-000	.	.	.	2.1	12	12	25	84	23700	70	300	4.4	2600	30
GCC001051	04-36.4033-112.4572-4-59-000	.	.	.	1.9	3	13	15	17	11400	120	1200	2.0	1900	20
GCC001151	04-36.4126-112.4917-4-59-000	.	.	.	1.3	5	9	20	27	11500	M	100	1.0	M	M
GCC001251	04-36.4351-112.4721-4-59-000	.	.	.	1.0	4	14	20	25	11700	80	800	1.8	1100	10
GCC001351	04-36.4968-112.4690-4-59-000	.	.	.	1.5	4	6	20	51	14600	320	1700	1.3	.	30
GCC000151	04-36.4506-112.1453-4-61-000	.	.	.	1.3	3	9	20	21	10400	240	1400	2.2	1500	20
GCC000251	04-36.4599-112.1677-4-59-000	.	.	.	2.8	6	7	30	27	12400	1640	6000	3.8	4500	50
GCC000351	04-36.4718-112.1570-4-61-000	.	.	.	2.0	5	4	15	47	18900	890	3500	2.0	2500	30
GCC000451	04-36.4872-112.1696-4-61-000	.	.	.	2.2	4	12	30	43	14400	210	5700	2.8	3400	30
GCC000551	04-36.4132-112.1500-4-59-000	.	.	.	2.4	8	12	15	32	20300	320	3400	4.9	2400	30
GCC000651	04-36.4170-112.1860-4-59-000	.	.	.	2.3	8	8	20	33	18600	640	4600	2.7	3200	40
GCC000751	04-36.4253-112.2117-4-59-000	.	.	.	2.9	8	8	10	48	20100	940	6400	3.7	4100	40
GCC000851	04-36.4510-112.2372-4-59-000	.	.	.	2.6	11	7	15	57	26800	480	8500	2.7	4800	40
GCC000951	04-36.4672-112.2456-4-59-000	.	.	.	3.2	7	8	30	36	14400	M	3400	4.9	M	40
GCC001051	04-36.4016-112.2285-4-61-000	.	.	.	2.9	6	5	30	48	22100	700	3500	2.3	.	30
GCC001151	04-36.3754-112.2260-4-59-000	.	.	.	2.4	7	8	10	39	18000	940	6200	3.1	4100	40
GCC001251	04-36.3770-112.1882-4-59-000	.	.	.	2.3	7	10	10	49	20900	940	7300	5.8	.	50
GCC001351	04-36.3813-112.1504-4-59-000	.	.	.	2.2	9	6	10	67	17000	400	5100	2.1	3700	30
GCC001451	04-36.4076-112.1126-4-59-000	.	.	.	2.4	9	9	10	31	12200	250	4600	2.6	3000	30
GCC001551	04-36.3749-112.1046-4-59-000	.	.	.	2.6	5	6	20	41	14600	330	2300	2.7	2100	40
GCC001651	04-36.3425-112.0945-4-59-000	.	.	.	2.2	5	7	15	31	14600	520	4900	4.2	3400	30
GCC001751	04-36.3396-112.0561-4-61-000	.	.	.	3.1	12	5	20	66	29700	1320	4900	4.8	3300	40
GCC001851	04-36.3252-112.0333-4-59-000	.	.	.	2.7	6	7	15	37	15800	450	4300	3.4	2600	30
GCC001951	04-36.3106-112.0157-4-59-000	.	.	.	2.2	8	7	15	60	19100	370	3500	3.7	2500	30
GCC002051	04-36.4037-112.0611-4-59-000	.	.	.	1.4	3	6	10	19	7200	230	2200	1.5	1800	20
GCC002151	04-36.3727-112.0601-4-59-000	.	.	.	1.8	4	6	10	37	19000	380	2900	3.2	2300	40
GCC002251	04-36.3731-112.0019-4-59-000	.	.	.	2.2	9	5	10	43	17700	390	3300	4.6	M	30
GCC002351	04-36.4067-112.0083-4-59-000	.	.	.	1.7	7	13	10	30	10300	220	1800	2.8	1700	20
GCC002451	04-36.4410-112.0083-4-59-000	.	.	.	1.6	4	9	10	25	10000	160	1200	1.4	1400	20
GCC002551	04-36.4827-112.0035-4-59-000	.	.	.	2.2	6	8	5	39	17100	290	2000	3.0	1800	20
GCC002651	04-36.4983-112.0512-4-59-000	.	.	.	2.6	5	9	5	24	10500	260	1700	2.8	.	40
GCC002751	04-36.4622-112.1060-4-59-000	.	.	.	2.4	10	12	10	57	20100	470	3200	6.0	3100	30
GCC002851	04-36.4333-112.1086-4-59-000	.	.	.	3.3	8	6	5	36	16200	M	4800	5.6	2800	60
GCD000151	04-36.0186-113.8225-4-59-000	.	.	.	1.4	4	13	24	19	8900	60	1000	2.2	800	10
GCD000251	04-36.2322-113.8846-4-61-000	.	.	.	4.7	8	3	10	42	15500	330	4600	2.2	1900	40
GCD000351	04-36.2245-113.8605-4-61-000	.	.	.	1.7	7	8	10	36	20000	310	4000	3.5	.	40
GCD000451	04-36.2301-113.7679-4-61-000	.	.	.	M	M	M	10	M	M	M	M	M	M	M
GCD000551	04-36.2446-113.8079-4-59-000	.	.	.	M	M	M	20	M	M	M	M	M	M	M
GCD000651	04-36.1999-113.8092-4-59-000	.	.	.	1.9	8	7	20	49	22100	260	5300	3.5	7500	40
GCD000751	04-36.1567-113.8163-4-59-000	.	.	.	2.5	6	8	20	42	17200	330	5600	5.0	2900	20
GCD000851	04-36.1252-113.8149-4-59-000	.	.	.	2.4	7	9	32	40	18700	240	5200	2.7	.	20
GCD000951	04-36.1349-113.7785-4-61-000	.	.	.	M	M	M	30	M	M	M	M	M	M	M
GCD001051	04-36.1597-113.7616-4-61-000	.	.	.	3.0	11	8	20	77	25000	M	7300	4.2	3800	30
GCD001151	04-36.2018-113.7587-4-59-000	.	.	.	M	M	M	10	M	M	M	M	M	M	M
GCD001251	04-36.0173-113.8618-4-59-000	.	.	.	M	M	M	30	M	M	M	M	M	M	M
GCD001351	04-36.0034-113.8719-4-59-000	.	.	.	M	M	M	30	M	M	M	M	M	M	M

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOC I.D.	PH	COND. U1/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCDA01451	04-36.0046-113.9621-4-61-000	.	.	.	2.6	14	9	20	83	29300	670	9700	4.7	4600	60
GCDA01551	04-36.0050-113.9003-4-59-000	.	.	.	2.2	17	9	22	80	31800	530	9500	4.5	5800	60
GCDA01651	04-36.0289-113.8679-4-61-000	.	.	.	2.0	9	11	22	53	23900	380	6700	7.1	3600	50
GCDA01751	04-36.0566-113.9003-4-59-000	.	.	.	1.6	11	15	20	44	18200	260	4600	5.1	2800	40
GCDB00151	04-36.1510-113.5347-4-59-000	.	.	.	2.7	11	11	38	65	38300	760	7300	9.3	4800	90
GCDB00251	04-36.1546-113.5602-4-59-000	.	.	.	2.5	7	11	34	45	23600	810	9200	7.0	.	100
GCDB00351	04-36.1654-113.5940-4-59-000	.	.	.	3.3	13	9	42	78	36500	890	9500	8.0	6300	110
GCDB00451	04-36.1712-113.6449-4-59-000	.	.	.	3.1	12	12	42	68	29000	700	9800	7.1	4200	60
GCDB00551	04-36.1555-113.6719-4-59-000	.	.	.	3.3	11	10	49	65	22400	630	10400	4.2	4800	60
GCDB00651	04-36.1371-113.6412-4-59-000	.	.	.	3.8	13	16	45	79	27300	550	8100	5.5	4200	60
GCDB00751	04-36.1380-113.6059-4-59-000	.	.	.	2.7	10	15	34	60	16300	410	5600	6.8	.	40
GCDB00851	04-36.1328-113.7065-4-59-000	.	.	.	2.8	14	8	40	.	30200	590	8300	7.4	4100	70
GCDB00951	04-36.1520-113.7306-4-59-000	.	.	.	2.9	11	13	25	70	27500	400	7000	9.0	2500	50
GCDB01051	04-36.2011-113.5985-4-59-000	.	.	.	2.9	6	11	42	40	11900	500	8500	4.0	4000	60
GCDB01151	04-36.2233-113.6073-4-59-000	.	.	.	3.2	7	15	48	76	21000	440	6100	7.1	3800	50
GCDB01251	04-36.2234-113.6490-4-59-000	.	.	.	4.0	14	11	58	68	22700	590	9300	5.1	.	60
GCDB01351	04-36.2246-113.6865-4-59-000	.	.	.	3.2	14	16	38	76	27500	330	5900	8.2	2900	40
GCDB01451	04-36.2089-113.7145-4-59-000	.	.	.	3.1	13	15	36	87	27500	520	9300	9.4	4200	60
GCDB01551	04-36.1827-113.7046-4-59-000	.	.	.	2.8	11	15	42	73	23500	350	5800	6.8	2500	40
GCDB01651	04-36.1932-113.6347-4-59-000	.	.	.	3.0	6	8	52	38	12900	500	7300	4.3	3600	50
GCDB01751	04-36.2335-113.5612-4-59-000	.	.	.	2.4	9	10	40	66	26900	850	5700	7.6	3400	80
GCDB01851	04-36.1904-113.5114-4-59-000	.	.	.	2.2	7	6	36	58	30200	600	4700	10.0	2500	60
GCDB01951	04-36.2175-113.5287-4-59-000	.	.	.	2.1	11	7	45	69	33600	830	8200	5.6	5200	100
GCDC00151	04-36.2471-113.4772-4-59-000	.	.	.	1.9	13	6	20	57	25700	360	5000	4.7	3300	40
GCDC00251	04-36.2433-113.4319-4-59-000	.	.	.	2.7	14	6	10	61	31200	520	6400	5.3	.	50
GCDC00351	04-36.2019-113.4474-4-59-000	.	.	.	2.3	12	15	10	83	40700	670	7400	11.1	.	80
GCDC00451	04-36.2057-113.4785-4-59-000	.	.	.	2.7	13	10	12	100	45800	670	5100	6.3	3700	80
GCDC00551	04-36.1653-113.4797-4-59-000	.	.	.	3.0	8	9	20	55	26200	870	7900	6.8	6900	110
GCDC00651	04-36.1564-113.4442-4-61-000	.	.	.	M	M	M	M	M	M	M	M	M	M	M
GCDC00751	04-36.0299-113.3389-4-59-000	.	.	.	M	M	M	M	M	M	M	M	M	M	M
GCDC00851	04-36.0302-113.2813-4-59-000	.	.	.	M	M	M	M	M	M	M	M	M	M	M
GCDC00951	04-36.0531-113.2572-4-81-000	.	.	.	M	M	M	M	M	M	M	M	M	M	M
GCDC01051	04-36.0771-113.2800-4-59-000	.	.	.	M	M	M	M	M	M	M	M	M	M	M
GCDD00151	04-36.0200-113.0813-4-59-000	.	.	.	2.5	9	14	40	80	25300	470	5400	4.3	3900	50
GCDD00251	04-36.0487-113.0751-4-59-000	.	.	.	2.4	10	9	40	56	23000	300	3300	7.7	2200	40
GCDD00351	04-36.0635-113.0734-4-59-000	.	.	.	1.6	2	8	18	20	8600	200	1100	2.6	1600	20
GCDD00451	04-36.1389-113.0283-4-59-000	.	.	.	2.7	8	11	40	38	13300	470	5300	4.6	3600	50
GCDD00551	04-36.1484-113.0191-4-59-000	.	.	.	2.8	7	19	30	54	19500	280	3400	6.2	2300	30
GCDD00651	04-36.1550-113.0419-4-59-000	.	.	.	2.7	10	15	40	65	21900	510	6400	6.4	3200	40
GCDD00751	04-36.1143-113.0507-4-59-000	.	.	.	3.9	8	10	25	28	21700	510	4700	5.0	.	50
GCDD00851	04-36.0944-113.0515-4-59-000	.	.	.	2.5	9	11	35	63	23300	490	4500	4.4	3600	60
GCDD00951	04-36.0838-113.0387-4-59-000	.	.	.	2.3	7	2	25	43	17000	250	2100	6.4	2800	40
GCDD01051	04-36.0628-113.0460-4-59-000	.	.	.	2.7	4	13	28	29	12200	310	4500	3.0	.	50
GCDD01151	04-36.0590-113.1438-4-59-000	.	.	.	2.5	5	16	25	29	16800	180	2500	4.3	2100	30
GCDD01251	04-36.0609-113.1684-4-59-000	.	.	.	2.6	10	14	20	63	21000	670	6000	8.0	3400	60
GCDD01351	04-36.0231-113.1290-4-59-000	.	.	.	3.1	6	6	30	25	13100	440	4500	4.8	3100	50
GCDD01451	04-36.0603-113.0276-4-59-000	.	.	.	2.2	6	8	25	45	13800	290	2900	2.8	.	40
GCDD01551	04-36.0266-113.0393-4-59-000	.	.	.	3.7	8	9	30	55	15200	320	3500	7.1	2300	40
GCDD01651	04-36.0065-113.0429-4-59-000	.	.	.	3.0	8	10	45	22	20100	570	5800	7.7	3600	70
GCDD01751	04-36.0202-113.1133-4-59-000	.	.	.	2.6	8	8	25	45	24500	390	4600	1.9	3000	40
GCDD01851	04-36.0535-113.0952-4-59-000	.	.	.	2.1	6	7	30	25	12700	280	2500	2.8	2500	30
GCDD01951	04-36.0866-113.1024-4-59-000	.	.	.	1.7	3	7	30	17	12300	200	2100	4.0	1700	20
GCDD02051	04-36.1253-113.0665-4-59-000	.	.	.	1.8	3	8	20	13	3900	210	1600	2.3	1700	20
GCDD02151	04-36.1574-113.1011-4-59-000	.	.	.	2.2	7	11	30	21	16800	290	700	6.1	3000	50
GCDD02251	04-36.1730-113.1050-4-59-000	.	.	.	1.3	6	8	15	27	7100	180	2000	1.7	.	20

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPH	HF PPH	SCINT CPS	CE PPM	FE PPM	MN PPH	NA PPH	SC PPH	T1 PPH	V PPH
GCDD02351	04-36.1629-113.0707-4-59-000	.	.	.	2.3	8	8	35	50	27900	390	6400	9.4	3300	40
GCDD02451	04-36.1625-113.0723-4-59-000	.	.	.	2.0	4	5	25	25	13000	380	4300	3.7	3600	50
GCDD02551	04-36.1980-113.0423-4-59-000	.	.	.	1.4	5	9	25	20	8900	180	2100	3.6	1900	20
GCDD02651	04-36.1848-113.0580-4-59-000	.	.	.	1.3	3	11	20	44	10100	230	1600	3.7	.	20
GCDE00151	04-36.0411-112.9589-4-59-000	.	.	.	2.4	7	7	20	38	18900	360	3000	3.0	3200	40
GCDE00251	04-36.0114-112.9386-4-59-000	.	.	.	3.1	6	8	40	43	14200	490	4400	4.2	3300	40
GCDE00351	04-36.0053-112.9096-4-59-000	.	.	.	2.3	11	11	45	56	25100	M	5200	2.9	5000	40
GCDE00451	04-36.0361-112.9116-4-59-000	.	.	.	2.2	10	9	40	61	24500	430	5700	4.0	-700	40
GCDE00551	04-36.0666-112.9126-4-59-000	.	.	.	2.2	10	14	30	70	25200	540	7500	7.0	4400	130
GCDE00651	04-36.1100-112.8986-4-59-000	.	.	.	2.2	11	5	35	61	24800	540	5900	3.2	.	50
GCDE00751	04-36.0867-112.8754-4-59-000	.	.	.	2.5	10	9	30	58	32900	580	5100	6.4	3700	50
GCDE00851	04-36.1224-112.8756-4-59-000	.	.	.	2.4	18	9	30	66	26700	450	4730	3.7	3400	50
GCDE00951	04-36.1606-112.8771-4-59-000	.	.	.	2.3	8	7	25	47	23800	420	4800	4.4	4100	50
GCDE01051	04-36.1374-112.8584-4-59-000	.	.	.	2.5	12	7	40	54	24000	560	5500	4.1	3200	40
GCDE01151	04-36.1225-112.8144-4-59-000	.	.	.	2.0	14	8	30	62	25700	420	5000	2.3	3500	60
GCDE01251	04-36.1011-112.7797-4-59-000	.	.	.	1.9	9	10	25	40	27300	390	2500	3.2	3000	50
GCDE01351	04-36.1343-112.7678-4-59-000	.	.	.	2.3	8	10	20	49	19600	M	4800	2.8	M	40
GCDE01451	04-36.0870-112.7603-4-59-000	.	.	.	2.6	11	7	30	62	25600	530	4100	3.4	3600	40
GCDE01551	04-36.0635-112.7607-4-59-000	.	.	.	3.1	5	9	30	36	14200	340	3400	3.9	2600	30
GCDF01651	04-36.0671-112.7903-4-59-000	.	.	.	2.0	9	8	22	45	21100	230	2400	3.4	2000	30
GCDE01751	04-36.0830-112.8008-4-59-000	.	.	.	2.1	5	8	30	51	17600	370	4700	3.0	3300	40
GCDE01851	04-36.0849-112.8188-4-59-000	.	.	.	2.1	14	6	35	66	24400	450	4200	3.2	2500	30
GCDE01951	04-36.0343-112.8062-4-59-000	.	.	.	1.8	8	9	30	43	14900	460	3800	3.0	3900	40
GCDE02051	04-36.0170-112.7958-4-59-000	.	.	.	2.4	13	11	22	71	21300	530	5500	4.3	3900	60
GCDE02151	04-36.0162-112.8259-4-59-000	.	.	.	2.5	9	12	40	70	26400	550	5200	3.4	.	50
GCDE02251	04-36.0565-112.8245-4-59-000	.	.	.	2.0	4	7	30	26	10400	80	1200	1.9	2900	10
GCDE02351	04-36.0286-112.7709-4-59-000	.	.	.	2.5	12	8	25	49	20600	270	3400	4.2	3200	30
GCDE02451	04-36.0181-112.8894-4-59-000	.	.	.	1.9	10	4	35	46	23600	560	5100	4.7	3600	50
GCDE02551	04-36.0587-112.8953-4-59-000	.	.	.	2.8	11	10	40	84	25400	420	4900	5.3	2900	30
GCDE02651	04-36.0884-112.9112-4-59-000	.	.	.	2.8	11	10	50	70	31000	440	5500	5.0	3100	40
GCDE02751	04-36.0500-112.8763-4-59-000	.	.	.	2.7	12	9	30	72	27200	360	4400	4.4	2900	40
GCDE02851	04-36.2229-112.9818-4-59-000	.	.	.	1.7	6	14	15	40	16100	260	3300	2.6	1900	30
GCDE02951	04-36.2267-112.9352-4-59-000	.	.	.	1.7	6	8	20	28	15100	230	2000	2.4	2100	20
GCDE03051	04-36.2347-112.8941-4-59-000	.	.	.	2.0	6	13	15	59	13100	250	2900	2.7	2200	30
GCDE03151	04-36.1894-112.1895-4-59-000	.	.	.	1.9	7	11	25	43	15700	250	3500	2.4	2400	30
GCDE03251	04-36.1720-112.8970-4-59-000	.	.	.	2.1	9	18	20	38	13400	200	2600	2.8	2100	30
GCDE03351	04-36.1646-112.9309-4-59-000	.	.	.	2.3	11	10	25	54	16500	320	2400	2.9	3600	30
GCDE03451	04-36.1890-112.9381-4-59-000	.	.	.	2.7	4	9	25	24	10800	220	3100	2.9	2100	30
GCDE03551	04-36.2015-112.9716-4-59-000	.	.	.	1.2	3	6	20	16	10600	110	1000	0.8	900	10
GCDE03651	04-36.1611-112.9785-4-59-000	.	.	.	4.5	10	49	15	37	13400	150	3300	2.9	2500	20
GCDE03751	04-36.1304-112.9862-4-59-000	.	.	.	1.1	6	10	25	16	11700	180	1800	3.1	1500	20
GCDE03851	04-36.0873-112.9808-4-61-000	.	.	.	2.5	14	4	40	52	25400	560	5400	5.2	3500	50
GCDE03951	04-36.0614-112.9907-4-61-000	.	.	.	4.0	17	13	40	81	25700	600	8400	4.0	5400	60
GCDE04051	04-36.0171-112.9801-4-59-000	.	.	.	2.9	14	10	40	65	26900	370	4300	3.5	3000	40
GCDE04151	04-36.0674-112.9478-4-59-000	.	.	.	2.4	7	7	35	36	12700	440	6400	3.3	2700	40
GCDE04251	04-36.1254-112.9215-4-59-000	.	.	.	2.5	10	12	35	62	21300	400	5000	3.6	3000	40
GCDE04351	04-36.0919-112.9262-4-59-000	.	.	.	2.7	13	9	30	77	29500	M	5500	4.8	7500	30
GCDE04451	04-36.0242-112.8471-4-59-000	.	.	.	2.5	6	7	45	41	14500	540	5700	3.7	3400	40
GCDE04551	04-36.0588-112.8469-4-59-000	.	.	.	2.7	13	6	50	90	34400	660	4700	3.5	3300	40
GCDE04651	04-36.0945-112.8464-4-59-000	.	.	.	3.0	14	16	30	72	32100	540	6400	2.5	3400	40
GCDF00151	04-36.0470-112.7332-4-59-000	.	.	.	2.9	9	13	30	43	20300	270	2700	6.5	2100	30
GCDF00251	04-36.0508-112.8905-4-59-000	.	.	.	1.4	14	5	25	77	29900	720	5900	4.5	3800	60
GCDF00351	04-36.0762-112.8934-4-59-000	.	.	.	2.2	8	10	25	51	22200	380	4800	6.8	2800	40
GCDF00451	04-36.0226-112.6763-4-59-000	.	.	.	2.1	12	16	25	46	23100	390	4000	6.1	3000	40
GCDF00551	04-36.0199-112.7048-4-59-000	.	.	.	1.9	8	8	30	51	25300	480	4800	4.4	.	60

TABLE B-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA ---- GRAND CANYON 1X2 DEGREE SHEET

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SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKMXD MEQ/L	U PPM	TH PPM	HF PPM	SCINT CPS	CE PPM	FE PPM	MN PPM	NA PPM	SC PPM	T1 PPM	V PPM
GCDF00651	04-36.0340-112.6488-4-59-000	.	.	.	2.3	11	7	32	63	26200	630	6300	5.3	4000	60
GCDF00751	04-36.0542-112.6519-4-59-000	.	.	.	1.8	10	7	30	44	22400	370	4000	3.9	.	40
GCDF00851	04-36.0397-112.6705-4-59-000	.	.	.	2.7	7	11	25	53	20000	470	5200	6.1	3100	40
GCLF00951	04-36.0188-112.6385-4-59-000	.	.	.	2.3	7	8	20	30	22700	550	4800	6.8	.	50
GCDF01051	04-36.0063-112.5924-4-59-000	.	.	.	2.5	8	12	25	63	24800	260	3000	5.4	2300	30
GCDG00151	04-36.0116-112.2614-4-59-000	.	.	.	2.0	8	7	30	30	23700	520	4200	3.6	3500	50
GCDG00251	04-36.0385-112.2541-4-59-000	.	.	.	1.5	4	7	30	34	9200	240	2400	3.8	2100	20
GCDG00351	04-36.0484-112.2802-4-59-000	.	.	.	2.0	5	9	25	30	14400	790	4000	5.1	2900	50
GCDG00451	04-36.0603-112.3200-4-59-000	.	.	.	2.9	6	16	40	36	19000	290	2600	5.1	2200	30
GCDG00551	04-36.0890-112.3322-4-59-000	.	.	.	2.3	9	9	25	58	26400	530	4800	5.2	3600	50
GCDG00651	04-36.0777-112.3609-4-59-000	.	.	.	2.7	11	14	38	61	22500	320	3200	6.1	3000	40
GCDG00751	04-36.1048-112.3560-4-59-000	.	.	.	2.2	7	10	30	40	19700	420	3500	3.3	.	40
GCDG00851	04-36.0917-112.3953-4-59-000	.	.	.	2.4	4	11	40	29	18000	300	2600	5.2	2200	30
GCDG00951	04-36.1153-112.3911-4-59-000	.	.	.	2.6	7	9	45	27	27200	860	5900	4.3	4400	60
GCDG01051	04-36.0541-112.3860-4-59-000	.	.	.	2.9	7	11	30	58	22200	530	4200	6.9	3300	50
GCDG01151	04-36.0618-112.3472-4-59-000	.	.	.	2.1	7	8	30	43	21000	420	3600	3.9	.	50
GCDG01251	04-36.0488-112.3511-4-59-000	.	.	.	2.9	10	14	35	60	18000	390	2800	6.1	2300	30
GCDG01351	04-36.0208-112.3418-4-59-000	.	.	.	2.4	6	6	35	19	15200	490	3900	3.6	3200	40
GCDG01451	04-36.0211-112.2971-4-59-000	.	.	.	2.1	4	6	30	27	13500	410	3300	3.9	2900	40
GCDG01551	04-36.0091-112.3867-4-59-000	.	.	.	2.5	4	8	40	52	15000	240	2500	2.7	2500	30
GCDG01651	04-36.0072-112.3330-4-59-000	.	.	.	1.9	7	12	30	30	15400	230	1400	4.2	1700	20
GCDH00151	04-36.0140-112.1910-4-59-000	.	.	.	1.6	7	M	45	-23	20600	450	2400	5.7	.	40
GCDH00251	04-36.0078-112.2265-4-59-000	.	.	.	2.8	5	12	30	37	14800	460	3300	5.5	2600	40

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

1

SRL I.D.

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCAA001	34034	1.9	.	.	M	.	.
GCAA002	56628	5.3	1.3	33	8	3.5	0.5
GCAA003	22022	1.0	0.6	13	1	2.6	0.2
GCAA004	20735	0.8	-0.3	M	2	-0.6	M
GCAA005	19734	0.6	-0.9	-11	1	-2.6	-0.3
GCAA006	65494	-0.1	1.9	53	8	-1.2	0.6
GCAA007	84656	12.4	1.0	41	15	2.4	0.4
GCAA008	82940	2.7	1.1	143	9	6.8	0.3
GCAA009	64064	3.4	1.9	37	4	-2.2	-0.1
GCAJ010	51051	6.2	1.4	24	4	-0.3	0.3
GCAA011	58201	3.0	1.5	110	4	-1.1	0.3
GCAA012	20306	0.9	-2.1	-3	2	-0.6	0.2
GCAA013	23595	2.2	-0.9	-22	M	-2.1	0.4
GCAA014	50765	3.7	0.7	28	7	-0.1	0.4
GCAA015	30602	6.2	-0.3	9	4	M	0.2
GCAA016	47190	1.7	.	.	M	.	.
GCAA017	44330	2.1	-0.5	21	6	-1.1	0.3
GCAA018	36894	1.1	-0.3	13	M	2.8	0.4
GCAA019	45617	2.3	0.9	35	6	-1.5	0.3
GCAA020	52348	-1.0	-2.4	58	4	-1.6	-0.6
GCAA021	72501	-0.8	-0.3	-6	17	4.9	0.6
GCAA022	72787	-1.3	1.0	27	4	-0.8	0.6
GCAA023	65208	-1.1	-0.8	26	46	-3.0	0.5
GCAA024	60632	3.9	.	.	34	.	.
GCAA025	67067	8.1	2.0	214	32	8.4	1.5
GCAA026	78650	16.2	0.6	44	26	2.2	0.4
GCAA027	60775	2.1	.	.	23	.	.
GCAA028	40612	4.3	0.8	42	4	-0.7	0.6
GCAA029	27742	-0.7	0.6	15	5	-0.6	0.3
GCAA030	46475	3.0	-2.0	-27	6	-3.5	-0.2
GCAA031	45903	2.3	-0.3	57	3	-3.9	M
GCAJ032	43472	-0.8	1.1	30	2	-0.4	0.3
GCAA033	31317	-0.8	0.2	8	1	-0.4	0.1
GCAA034	50622	-1.8	.	.	4	.	.
GCAA035	57629	5.4	0.8	28	3	-0.4	0.3
GCA001	41041	2.0	-0.2	M	3	-0.1	0.4
GCA002	55770	1.6	-0.5	26	1	-1.9	0.3
GCA003	35464	1.5	-0.7	25	1	-1.1	-0.1
GCA004	51337	2.5	1.0	79	6	2.1	0.2
GCA005	35035	2.3	-0.1	64	22	-1.0	0.4
GCA006	43901	2.3	-0.5	27	6	-4.4	-0.7
GCA007	52195	2.7	0.9	25	15	-0.5	0.2
GCA008	44330	-0.4	0.7	11	5	-0.1	0.2
GCA009	53339	4.5	0.7	34	5	4.6	0.5
GCA010	56201	3.7	-0.2	28	6	-1.0	0.4
GCA011	20449	1.6	-0.9	-11	M	-1.2	0.2
GCA012	59488	-0.3	2.4	31	5	-1.3	0.4
GCA013	56199	-1.4	0.5	17	3	-0.7	0.5
GCA014	39182	-1.0	0.3	10	5	-0.4	M
GCA015	55198	2.8	.	.	5	.	.

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2

DEGREE SHEET

2

THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCAB016	39611	-1.3	-0.4	14	6	-1.0	0.3
GCAB017	49907	-0.7	1.4	21	2	-1.2	M
GCAB018	42900	-0.7	-0.6	39	1	-1.2	0.2
GCAB019	46189	-1.0	.	.	3	.	.
GCAB020	38181	-1.2	-1.3	-1	M	-1.5	0.2
GCAB021	51909	-0.4	0.4	13	10	-0.1	0.2
GCAB022	49478	-1.6	-1.4	-24	-1	-1.8	-0.2
GCAB023	37752	2.2	0.7	22	9	2.6	0.3
GCAB024	51623	-1.3	0.5	15	3	-0.7	0.2
GCAB025	50479	1.5	.	.	2	.	.
GCAB026	54483	6.0	0.6	51	7	2.3	0.2
GCAB027	29029	1.4	1.2	20	2	-1.7	0.2
GCAB028	64779	3.4	0.9	21	5	-0.6	0.3
GCAB029	18447	1.7	-0.2	16	3	-0.8	M
GCAB030	58773	1.7	-1.5	-25	6	-1.5	0.4
GCAB031	8294	1.3	-0.2	7	M	-1.1	-0.2
GCAB032	54483	2.4	1.3	30	2	-0.7	0.3
GCAB033	54626	-0.8	.	.	2	.	.
GCAB034	54912	-0.9	1.4	33	20	-0.7	0.6
GCAB035	53482	-0.6	0.8	29	6	1.7	0.3
GCAC001	46475	4.6	0.7	13	2	-1.5	0.4
GCAC002	44759	2.4	1.3	13	3	-2.3	0.4
GCAC003	54912	-2.1	-1.2	-28	4	-1.4	0.2
GCAC004	47619	3.5	0.5	19	4	-0.1	0.3
GCAC005	52624	-0.6	0.6	9	1	-0.8	0.2
GCAC006	60632	-0.6	.	.	1	.	.
GCAC007	44902	-0.6	-0.9	-6	4	-2.4	0.3
GCAC008	38181	-0.5	1.3	-10	4	-1.4	0.3
GCAC009	32461	-0.6	1.0	545	5	-0.4	0.3
GCAC010	64636	5.9	1.0	12	3	-1.6	0.3
GCAC011	60632	-2.4	.	.	2	.	.
GCAC012	48334	1.2	0.9	498	2	-2.0	0.2
GCAC013	26741	-1.0	0.4	-4	M	3.4	0.3
GCAC014	45474	-1.5	-0.7	18	43	-0.7	0.2
GCAC015	57057	-1.1	1.8	M	6	-1.9	0.3
GCAC016	47905	-1.3	-0.7	39	31	-0.9	M
GCAC017	16588	0.9	.	.	M	.	.
GCAC018	52338	-0.9	1.6	24	44	-0.5	0.3
GCAC019	27742	-0.8	0.7	9	1	1.8	0.2
GCAC020	52910	-1.0	1.1	24	7	-0.9	0.2
GCAC021	38467	-0.5	0.5	7	3	2.3	0.3
GCAC022	52481	-0.5	-1.3	32	5	-0.5	0.2
GCAC023	51051	5.2	0.9	24	4	2.3	0.4
GCAC024	77363	-1.2	1.3	16	1	-1.2	0.4
GCAC025	55198	-0.9	2.0	-2	5	-2.0	0.2
GCAC026	44902	2.9	.	.	18	.	.
GCAC027	52338	-1.3	1.0	24	2	4.2	0.4
GCAC028	54626	-1.1	0.4	12	1	-0.6	0.2
GCAC029	34606	2.4	-1.2	-12	27	-0.6	M
GCAC030	59059	-1.0	-0.8	22	4	-1.3	0.2

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

3

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCAC031	26598	-1.1	0.6	21	M	-1.1	M
GCAC032	56628	-1.4	-0.4	14	14	-1.2	0.6
GCAC033	34892	-0.6	-0.5	-11	11	3.2	M
GCAC034	56628	-0.6	-0.2	574	35	-0.9	0.3
GCAC035	53196	-0.6	1.9	21	11	2.0	0.7
GCAC036	50050	-1.3	-1.1	-11	2	-3.6	0.3
GCAC037	26312	-0.8	.	.	M	.	.
GCAC038	49764	-0.6	0.8	23	4	-1.0	0.3
GCAC039	55770	4.2	0.5	17	4	1.0	0.2
GCAC040	46475	-0.6	0.9	-5	2	3.8	0.4
GCAC041	44616	0.9	-0.2	24	4	2.1	0.2
GCAC042	34034	-0.3	.	.	6	.	.
GCAD001	47762	-1.4	0.8	12	6	-0.9	0.2
GCAD002	28457	2.8	0.3	19	2	3.5	0.4
GCAD003	58916	4.8	1.7	26	3	-0.7	0.4
GCAD004	51766	4.7	1.4	27	4	3.8	0.5
GCAD005	56628	3.3	0.7	31	4	-0.5	0.6
GCAD006	77363	-0.7	1.0	30	11	-1.6	0.3
GCAD007	52052	2.0	.	.	-1	.	.
GCAD008	57915	4.6	0.9	21	4	3.0	0.2
GCAD009	25311	-1.2	0.2	-5	1	-0.5	M
GCAD010	20878	-1.1	-0.3	-2	1	-0.8	M
GCAD011	56199	2.9	.	.	7	.	.
GCAD012	46761	3.2	0.7	20	5	2.4	0.1
GCAD013	49335	-0.2	0.5	6	1	-0.3	M
GCAD014	52624	5.7	0.7	19	2	-0.9	-0.1
GCAD015	46475	-1.2	-0.5	28	3	5.1	0.3
GCAD016	47762	-0.7	1.3	16	2	-0.8	0.1
GCAD017	52767	1.3	1.7	25	2	3.1	0.3
GCAD018	42757	2.8	-0.5	19	2	-2.0	0.3
GCAD019	50479	M	1.2	27	7	-0.9	0.3
GCAD020	42042	-0.4	.	.	18	.	.
GCAD021	46475	2.9	0.9	22	2	-0.5	0.2
GCAD022	45903	5.2	0.6	19	6	2.5	0.3
GCAD023	55627	3.8	1.3	74	2	-1.0	0.6
GCAD024	40326	2.1	-0.6	23	M	-0.9	0.5
GCAD025	57200	3.7	0.7	31	9	6.3	0.4
GCAD026	42471	-1.2	-1.2	15	3	-1.7	0.2
GCAD027	33748	-1.3	.	.	-1	.	.
GCAD028	49907	3.8	0.8	24	2	3.3	0.2
GCAD029	57343	-0.1	0.7	14	2	1.4	0.2
GCAD030	64922	2.6	0.7	21	10	-0.5	0.1
GCAD031	48906	-0.8	-0.2	29	2	-0.6	0.4
GCAD032	37466	-0.8	-0.6	17	M	-1.8	0.3
GCAD033	44902	4.8	0.8	20	5	-0.2	0.4
GCAD034	38181	-1.3	.	.	M	.	.
GCAD035	36036	-0.4	-1.3	-9	1	-1.1	0.2
GCAD036	40612	1.6	-0.5	19	M	-1.0	0.1
GCAD037	49049	-0.5	0.6	9	1	-0.5	0.
GCAD038	34606	-0.8	-0.6	15	2	-2.0	0.2

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2

DEGREE SHEET

4

THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCAD039	51766	-1.6	0.9	11	1	3.9	0.3
GCAD040	55341	-1.0	-0.2	19	7	-1.7	0.2
GCAE001	46046	-0.8	.	.	7	.	.
GCAE002	47762	-0.4	0.6	21	3	3.8	0.5
GCAE003	40898	1.5	0.6	33	M	-0.6	0.4
GCAE004	34320	-0.4	0.4	7	1	-0.2	0.1
GCAE005	37180	1.1	-0.4	14	1	-0.3	0.2
GCAE006	56342	-0.7	-0.4	28	2	-1.0	0.5
GCAE007	M	-1.9	-0.2	20	1	-0.1	0.2
GCAE008	44044	-1.1	0.5	22	4	-0.9	M
GCAE009	36608	0.9	2.0	-10	M	-1.1	0.2
GCAE010	23452	-0.3	.	.	M	.	.
GCAE011	24453	2.0	0.3	10	1	-1.6	0.1
GCAE012	26598	1.3	-0.4	-3	3	-0.5	0.3
GCAE013	33176	-1.0	0.3	7	3	-0.1	M
GCAE014	34177	3.7	.	.	4	.	.
GCAE015	22737	1.0	0.9	4	15	-0.2	0.2
GCAE016	31889	1.8	0.3	12	1	1.6	0.2
GCAE017	M	M	M	M	M	M	M
GCAE018	42900	6.4	M	15	2	1.8	0.4
GCAE019	50765	2.8	-0.5	17	2	1.7	0.4
GCAE020	33400	2.7	-0.5	10	1	1.3	0.1
GCAE021	21450	-0.3	-0.3	4	M	1.4	0.2
GCAE022	29800	3.7	.	16	M	.	.
GCAE023	50336	-0.6	1.8	13	2	1.7	0.2
GCAE024	38000	3.1	-0.1	27	4	3.5	0.6
GCAE025	45617	5.2	-0.4	19	3	2.4	0.5
GCAE026	38100	3.4	-1.5	14	2	2.1	0.3
GCAE027	41613	-1.0	-0.7	16	3	1.1	0.2
GCAE028	52800	-1.0	-0.6	25	4	2.3	0.3
GCAE029	44187	2.2	-0.6	22	3	2.3	0.3
GCAE030	16300	-0.5	-0.4	9	1	2.3	0.3
GCAE031	42185	4.1	0.7	14	2	2.1	0.2
GCAE032	22800	-0.6	-0.2	8	1	1.1	0.2
GCAE033	23166	2.4	-0.1	3	1	0.6	M
GCAE034	27700	-0.4	-0.5	8	1	1.7	0.2
GCAE035	29315	-0.9	-0.3	8	2	2.0	0.1
GCAE036	27600	-0.6	-0.4	10	1	0.7	0.2
GCAE037	73216	5.6	-0.6	24	3	2.0	0.3
GCAE038	38000	5.0	-2.0	25	3	3.3	0.4
GCAE039	66495	-0.8	-0.6	18	3	1.6	0.3
GCAE040	40898	2.1	-0.3	13	1	3.9	0.6
GCAF001	53400	-0.9	.	19	M	.	.
GCAF002	47762	-1.1	1.2	18	3	2.1	0.5
GCAF003	47500	2.1	0.5	14	2	2.0	0.2
GCAF004	76648	-0.6	-0.6	27	4	2.1	0.3
GCAF005	59000	-0.1	1.5	24	4	1.6	0.3
GCAF006	77077	1.P	-0.6	32	4	2.0	0.3
GCAF007	28600	3.0	-0.2	14	2	3.4	0.3
GCAF008	35035	2.3	-0.9	19	3	1.9	0.3

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

5

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCAF009	41800	-0.7	-1.2	19	4	1.6	0.4
GCAF010	45474	-1.2	-2.5	24	3	3.1	0.5
GCAF011	37300	-0.5	-0.8	6	1	0.8	M
GCAF012	548J0	0.9	-3.3	22	4	2.2	0.3
GCAF013	54054	3.3	1.9	18	2	1.2	0.3
GCAF014	37500	-1.0	-0.9	19	2	1.1	0.2
GCAF015	54626	-0.6	1.0	26	3	1.4	0.2
GCAF016	48000	-0.6	-0.5	16	3	-0.2	0.4
GCAF017	57486	6.5	1.5	18	4	1.7	0.3
GCAF018	30100	-0.4	-0.4	10	2	1.4	0.3
GCAF019	53900	-0.7	.	24	M	.	.
GCAF020	55770	3.7	-0.2	23	3	2.4	0.3
GCAF021	34200	-0.6	-0.2	8	1	1.0	0.1
GCAF022	45045	4.2	-2.1	18	3	1.9	0.3
GCAF023	44044	-1.0	-0.4	20	3	2.7	0.3
GCAF024	47476	4.7	-2.4	21	4	2.1	0.4
GCAF025	45617	3.6	-0.3	17	2	4.0	0.3
GCAF026	55770	2.6	-2.9	22	4	2.7	0.3
GCAF027	59202	3.9	-2.3	23	4	2.3	0.4
GCAF028	46200	3.5	0.6	14	2	1.1	0.2
GCAF029	44616	2.7	-0.9	20	3	2.1	0.4
GCAF030	46600	2.4	-0.8	20	3	1.6	0.3
GCAF031	71214	-2.1	-0.4	22	4	-0.6	0.5
GCAF032	25400	0.7	-1.6	11	1	1.8	0.3
GCAF033	23309	1.5	-0.3	7	1	1.3	0.2
GCAF034	31800	-0.4	0.9	14	2	1.4	0.3
GCAF035	47047	2.4	1.4	16	3	2.1	0.3
GCAF036	51300	4.0	1.1	22	3	1.5	0.3
GCAF037	37180	-1.2	-0.8	9	2	1.9	0.2
GCAF038	29000	-0.6	-0.4	11	2	1.5	0.3
GCAF039	22800	-0.1	0.8	9	1	2.0	0.3
GCAF040	55055	-0.8	-0.4	18	4	2.0	0.3
GCAF041	30800	-0.4	-2.3	10	2	-0.3	0.2
GCA001	45045	-1.2	0.6	15	M	2.1	M
GCA002	50400	2.9	0.8	19	2	1.0	M
GCA003	53000	-0.7	0.7	21	3	1.7	0.3
GCA004	48191	2.5	-0.4	11	2	0.9	0.2
GCA005	M	M	M	24	4	2.5	0.3
GCA006	39897	-1.3	-0.2	10	2	1.4	0.2
GCA007	59631	0.8	2.1	26	3	2.6	0.3
GCA008	53911	4.9	0.9	39	3	5.2	0.5
GCA009	42757	-1.2	-1.3	16	2	1.6	0.2
GCA010	36800	1.2	-2.3	25	4	2.9	0.4
GCA011	47762	-1.6	-0.4	21	3	2.4	0.3
GCA012	37000	4.5	2.4	22	2	2.5	0.5
GCA013	47476	2.5	-0.5	27	3	2.4	0.4
GCA014	33800	-0.8	.	27	M	.	.
GCA015	46904	-1.1	-0.9	19	3	1.6	0.3
GCA016	42500	-0.6	-2.4	22	3	2.1	0.3
GCA017	34892	2.4	-0.5	14	2	2.0	0.2

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

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SRL I.D.	AL	DY	EU	LA	SH	YB	LU
GCA0018	47200	-0.2	-2.2	23	4	2.6	0.5
GCA0019	47762	-1.1	-4.0	19	2	1.7	0.2
GCA0020	M	M	-0.5	23	3	1.8	0.7
GCA0021	38181	-0.8	-0.9	17	3	-0.6	0.3
GCA0022	49000	6.9	1.3	24	3	2.0	0.4
GCA0023	53911	3.0	-0.2	12	2	1.8	0.2
GCA0024	52500	-0.9	-2.0	20	4	1.9	0.3
GCA0025	29458	-1.0	-0.4	15	2	1.9	0.3
GCA0026	31600	-0.7	-0.5	14	2	-0.2	0.2
GCA0027	45045	4.1	-3.2	22	3	1.7	0.4
GCA0028	50050	4.9	4.0	17	2	M	0.3
GCA0029	47333	2.0	3.0	17	2	-0.2	0.3
GCA0030	49335	-1.1	-0.4	20	3	2.4	0.3
GCA0031	52200	-1.7	1.0	22	3	2.7	0.3
GCA0032	50600	-0.9	-2.8	23	4	3.1	0.5
GCA0033	51400	-0.8	-0.7	16	2	2.1	0.2
GCA0034	57772	2.4	-0.2	25	4	4.1	0.4
GCA0035	43100	-1.1	-0.3	23	3	2.7	0.4
GCA0036	50908	-1.8	0.6	15	2	1.7	0.2
GCA0037	48200	3.3	-2.4	24	4	1.9	0.4
GCA0038	51786	2.8	-0.8	21	2	1.2	0.2
GCA0039	40300	-2.3	-2.5	21	3	1.9	0.3
GCA0040	49907	3.3	0.7	19	2	2.2	0.4
GCA0041	51500	-1.0	1.6	21	2	3.7	0.5
GCA0042	39468	-1.3	0.7	11	2	0.7	0.2
GCAH001	46100	-0.6	-0.6	25	3	3.4	0.3
GCAH002	43043	1.6	-0.7	18	2	1.2	0.3
GCAH003	40900	3.5	-0.3	26	5	3.4	0.3
GCAH004	32032	-0.8	-0.2	9	2	0.8	0.2
GCAH005	M	-0.6	-2.1	26	3	2.9	0.4
GCAH006	40469	1.6	0.6	21	3	1.1	0.3
GCAH007	46200	-1.3	-1.4	17	2	2.1	0.2
GCAH008	21736	-0.4	-0.4	7	1	1.2	0.2
GCAH009	49000	-1.6	0.9	33	4	2.6	0.6
GCAH010	19800	-0.3	-0.4	6	1	0.7	0.1
GCAH011	39400	4.5	-0.2	16	2	1.8	0.3
GCAH012	44400	-0.9	-0.9	24	3	2.0	0.4
GCAH013	24800	-0.5	-0.5	19	3	2.1	0.2
GCAH014	34500	2.9	0.9	23	3	1.9	0.4
GCAH015	38200	-0.7	-3.3	30	3	2.0	0.3
GCAH016	31600	4.8	-0.4	12	2	1.1	0.2
GCAH017	45188	4.1	-1.1	24	4	3.3	0.4
GCAH018	24200	-0.7	-0.2	5	1	0.5	0.1
GCAH019	51909	2.3	-2.8	25	4	2.9	0.4
GCAH020	18000	2.5	-0.4	7	1	1.4	0.2
GCAH021	49764	3.8	0.9	23	3	1.8	0.4
GCAH022	31600	2.4	2.0	16	1	2.1	0.3
GCAH023	57486	1.0	1.5	24	3	1.9	0.4
GCAH024	33300	5.1	1.1	20	3	-0.3	0.3
GCAH025	53911	1.1	1.3	28	4	1.9	0.4

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2

DEGREE SHEET

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THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SH	YB	LU
GCAH026	42100	6.1	-0.6	15	3	1.4	0.2
GCAH027	66781	-0.7	-0.4	14	2	1.5	0.2
GCAH028	43100	-1.8	2.1	28	4	2.1	0.4
GCAH029	53768	2.8	1.3	27	2	3.0	0.5
GCAH030	43700	-1.3	0.9	20	3	1.2	0.3
GCAH031	44902	2.8	-0.4	12	2	-0.5	0.1
GCAH032	45500	-0.6	1.0	23	4	3.9	0.3
GCAH033	42000	-0.4	-0.4	29	5	3.4	0.4
GCAH034	28400	-0.7	0.6	11	1	0.8	0.2
GCAH035	43500	3.6	-0.7	22	3	2.3	0.4
GCAH036	56500	8.3	1.2	31	3	2.7	0.3
GCAH037	38500	5.2	-2.0	21	3	2.5	0.4
GCAH038	43500	-0.5	-0.9	24	4	1.3	0.3
GCAH039	32318	M	M	M	M	.	.
GCAH040	43900	-0.7	1.5	38	5	1.8	0.5
GCAH041	44600	-0.4	-0.7	23	4	2.5	0.4
GCAH042	32300	-0.5	-0.1	25	3	2.4	0.3
GCAH043	40200	-0.8	1.2	27	4	2.1	0.4
GCAH044	51400	-1.5	-0.9	27	3	2.1	0.4
GCAH045	42400	-0.5	-2.8	26	3	1.5	0.4
GCAH046	50000	-0.7	-1.8	27	3	1.9	0.4
GCAH047	48900	-1.1	1.5	30	4	3.1	0.5
GCBA001	35500	-0.7	-0.5	20	3	1.8	0.3
GCBA002	36100	-0.1	1.7	24	4	2.4	0.3
GCBA003	46600	-0.7	-2.6	28	4	2.2	0.4
GCBA004	35000	1.8	-0.7	16	2	1.8	0.4
GCBA005	45300	-0.6	0.5	20	3	1.3	0.3
GCBA006	50200	-0.2	-0.8	26	3	1.8	0.3
GCBA007	31100	-0.6	-1.9	13	2	1.4	0.3
GCBA008	36100	-0.3	-0.5	19	2	1.7	0.3
GCBA009	62800	-0.7	-0.3	17	3	1.6	0.2
GCBA010	30745	-0.7	.	10	.	.	.
GCBA011	32400	-0.7	-0.7	17	2	3.8	0.4
GCBA012	39700	-1.4	-0.6	19	2	1.5	0.3
GCBA013	36600	-0.9	0.7	10	2	1.2	0.2
GCBA014	33891	-1.4	1.2	17	3	1.5	0.3
GCBA015	65100	-0.7	2.3	37	6	3.1	0.5
GCBA016	44473	-0.9	-0.2	15	2	1.1	0.2
GCBA017	47300	-0.7	1.3	23	3	2.3	0.2
GCBA018	38800	-0.6	-0.7	23	3	2.0	0.3
GCBA019	44330	-1.0	1.0	25	3	-0.2	0.5
GCBA020	59300	-0.5	-2.8	29	5	2.5	0.5
GCBA021	60060	4.2	1.1	29	5	2.1	0.4
GCBA022	M	-0.9	1.3	15	2	2.2	0.2
GCBA023	44902	-1.3	-0.8	23	3	-0.3	0.3
GCBA024	53900	-0.6	2.0	32	4	3.8	0.5
GCBA025	19448	-0.6	0.9	7	1	-0.1	0.2
GCBA026	M	-0.5	2.6	28	4	2.0	0.3
GCBA027	32890	-1.9	-2.4	18	3	1.8	0.3
GCBA028	34200	-0.7	1.3	19	3	2.1	0.4

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2

DEGREE SHEET

8

THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCBA029	54054	-1.3	1.5	27	3	1.2	0.3
GCBA030	79100	-1.2	0.8	57	6	5.8	0.5
GCBA031	69500	-0.7	1.1	36	7	3.4	0.3
GCBA032	31500	-0.3	-0.7	20	3	2.7	0.4
GCBA033	43200	7.6	-0.9	24	2	3.0	0.3
GCBA034	54000	-1.7	-0.8	24	3	2.2	0.4
GCBA035	59200	-0.6	1.2	30	4	2.7	0.3
GCBB001	55200	3.8	0.9	30	4	2.7	0.5
GCBB002	51200	-0.8	0.8	16	2	1.0	0.2
GCBB003	68497	-0.2	4.0	27	4	1.2	0.3
GCBB004	59500	2.4	-0.6	22	4	1.3	0.3
GCBB005	64779	-1.0	-2.6	28	4	1.9	0.3
GCBB006	67500	-1.0	2.1	30	3	-0.3	0.3
GCBB007	M	-0.7	1.3	25	3	2.3	0.3
GCBB008	M	-1.4	1.1	29	4	3.5	0.4
GCBB009	61919	2.9	0.6	15	2	1.2	0.1
GCBB010	35300	-0.5	1.4	15	2	2.7	0.2
GCBB011	37609	-1.1	-0.3	16	3	1.0	0.3
GCBB012	27400	-0.6	-0.4	12	2	1.0	0.2
GCBB013	36751	-0.6	1.1	14	1	2.0	0.1
GCBB014	30600	-0.6	-0.5	14	2	1.6	0.3
GCBB015	63206	-0.8	1.2	28	4	M	0.4
GCBB016	49100	-0.7	-2.8	38	6	1.7	0.7
GCBB017	65351	-0.8	-0.4	21	3	1.9	0.2
GCBB018	55300	-1.8	1.4	27	5	3.9	0.4
GCBB019	61100	-1.0	-3.0	39	5	4.1	0.6
GCBB020	59345	-2.3	2.2	38	3	4.1	0.7
GCBB021	M	-0.5	1.9	36	M	-0.1	M
GCBB022	63492	1.4	-0.7	35	5	3.0	0.4
GCBB023	62400	-0.2	-0.8	31	4	4.1	0.4
GCBB024	62634	-1.8	-0.4	21	3	0.8	0.2
GCBB025	48800	-0.6	0.8	26	3	5.7	0.3
GCBB026	66352	-1.6	1.4	38	6	3.4	0.6
GCBB027	57700	-0.5	-0.7	40	5	4.3	0.5
GCBB028	58058	4.7	-0.5	36	8	-0.5	M
GCBB029	59800	-0.5	2.0	36	5	2.0	0.5
GCBB030	70642	-0.9	-1.0	34	4	3.2	0.4
GCBB031	71900	-0.6	-1.0	38	4	4.2	0.6
GCBB032	63635	-0.8	-3.1	31	4	-0.3	M
GCBB033	46300	-0.6	1.5	27	4	3.3	0.6
GCBB034	56342	-1.3	2.8	31	4	3.2	0.4
GCBB035	56000	-1.9	0.7	31	3	1.8	0.3
GCBB036	65208	2.7	-1.0	33	4	1.8	0.4
GCBB037	59000	-0.9	-3.7	36	6	2.4	0.6
GCBB038	59631	2.1	-2.8	33	4	2.0	0.4
GCBB039	48500	-0.6	1.8	32	3	5.1	0.7
GCBB040	60918	-0.9	-3.2	36	6	2.8	0.4
GCBB041	50500	-1.1	0.9	31	4	3.2	0.5
GCBB042	52000	-0.2	-0.6	28	4	2.6	0.2
GCBC001	56056	-0.5	1.8	29	4	2.6	0.4

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2

DEGREE SHEET

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THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCBC002	75100	1.0	-0.3	21	3	1.4	0.2
GCBC003	51051	-0.9	0.7	24	4	2.9	0.5
GCBC004	56100	-0.3	1.7	34	6	3.5	0.6
GCBC005	56199	8.7	-0.9	29	5	2.9	0.3
GCBC006	53900	-0.6	-2.9	32	4	1.4	0.6
GCBC007	40040	-1.1	-0.1	21	3	1.8	0.4
GCBC008	59300	-1.1	1.1	36	4	3.0	0.5
GCBC009	49049	2.2	1.5	23	3	1.4	0.4
GCBC010	38000	-1.5	-3.3	23	2	-0.3	0.4
GCBC011	31460	M	.	M	M	.	.
GCBC012	38600	M	.	M	M	.	.
GCBC013	37466	M	.	M	M	.	.
GCBC014	56200	-0.2	-0.5	31	4	3.1	0.4
GCBC015	38610	-2.0	1.2	21	3	1.9	0.4
GCBC016	64800	-0.6	1.9	35	M	3.6	0.4
GCBC017	64207	2.0	0.8	23	4	-0.2	0.3
GCBC018	53700	M	-0.9	30	4	2.2	0.4
GCBC019	48048	-0.1	2.5	26	2	2.7	0.5
GCBC020	70600	-0.9	-3.4	34	5	2.6	0.4
GCBC021	61347	-0.9	0.9	16	2	1.6	0.2
GCBC022	55200	-1.2	-0.8	33	4	2.2	0.5
GCBC023	35035	4.4	-0.7	22	3	-0.2	0.4
GCBC024	56485	-0.9	-1.1	30	5	2.3	0.3
GCBC025	40898	3.9	-0.1	17	2	3.5	0.4
GCBC026	63700	-0.5	-2.9	38	5	2.9	0.5
GCBC027	31939	3.3	-1.3	19	3	2.0	0.3
GCBC028	37100	2.9	-0.4	32	4	1.9	0.4
GCBC029	51337	5.5	3.3	26	4	3.5	0.3
GCBC030	51100	4.0	-1.9	32	5	3.8	0.6
GCBC031	49600	-0.7	-2.2	32	3	2.5	0.4
GCBC032	55900	-1.3	-0.8	32	3	4.1	0.5
GCBC033	31600	2.2	-0.1	14	2	1.3	0.2
GCBC034	62491	6.8	1.1	29	4	1.7	0.4
GCBC035	66800	-0.2	2.6	21	3	1.9	0.2
GCBC036	55484	-1.2	1.5	34	5	2.2	0.4
GCBC037	62500	-0.3	-0.3	29	4	2.2	0.3
GCBD001	41000	7.2	1.4	28	3	2.8	0.3
GCBD002	29500	2.9	-2.5	30	4	2.5	0.4
GCBD003	65923	-1.5	-0.6	18	3	1.5	0.3
GCBD004	47400	1.4	-0.7	26	5	3.2	0.5
GCBD005	40040	13.7	1.9	24	3	2.2	0.3
GCBD006	50500	5.7	-0.7	28	4	2.0	0.3
GCBD007	60800	6.0	1.8	32	4	3.1	0.5
GCBD008	58773	-1.6	1.4	28	4	2.3	0.4
GCBD009	15587	-0.1	0.9	7	1	-0.3	-0.1
GCBD010	41327	5.6	1.2	26	4	3.3	0.4
GCBD011	58916	-0.7	1.1	30	5	2.3	0.4
GCBD012	46700	-0.7	-5.4	27	4	1.8	0.5
GCBD013	36751	6.7	-0.8	16	3	1.6	0.2
GCBD014	42500	3.3	-1.0	22	3	2.2	0.4

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

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SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCBD015	51480	-1.4	-0.9	26	3	2.2	0.3
GCBD016	41400	-2.1	-2.1	21	3	1.4	0.2
GCBD017	45188	-1.3	-0.4	17	3	1.5	0.3
GCBD018	52200	-0.4	-4.9	23	4	2.3	0.3
GCBD019	43329	-1.3	2.9	27	4	2.1	0.3
GCBD020	63600	-1.8	2.0	33	6	3.3	0.4
GCBD021	44800	-1.7	-2.2	27	3	1.6	0.4
GCBD022	47800	-0.3	-0.6	27	3	1.9	0.5
GCBD023	38896	-0.5	0.9	23	3	2.1	0.3
GCBD024	51100	-0.7	0.6	13	2	1.4	0.2
GCBD025	58630	-1.1	-0.8	24	4	3.3	0.3
GCBD026	56900	7.1	-0.7	26	4	1.8	0.4
GCBD027	38467	-1.3	-0.7	14	2	0.7	0.1
GCBD028	53100	-0.7	3.2	28	3	0.8	0.3
GCBD029	74700	4.1	0.5	19	3	2.3	0.3
GCBD030	52500	8.0	1.5	25	3	2.2	0.3
GCBD031	60060	-1.3	-2.8	28	5	2.0	0.3
GCBD032	65923	4.6	1.7	28	4	2.3	0.3
GCBD033	60203	-1.1	-0.4	24	2	4.1	0.4
GCBD034	47762	-1.2	-1.1	11	2	0.9	0.2
GCBD035	63063	-1.2	-2.1	25	4	1.1	0.3
GCBD036	56342	1.1	1.4	22	3	3.1	0.4
GCBD037	61490	8.7	-0.4	27	3	3.7	0.3
GCBD038	57200	-0.9	2.3	28	5	2.2	0.4
GCBD039	72800	7.7	-2.9	30	3	1.0	0.4
GCBD040	75200	-1.4	-0.5	20	3	1.3	0.2
OCBE001	56100	7.9	1.7	22	3	2.5	0.3
OCBE002	42471	-0.5	1.8	25	4	1.9	0.4
OCBE003	48700	3.9	-2.0	23	3	2.2	0.4
OCBE004	50500	-0.8	-0.4	22	3	2.8	0.5
OCBE005	39325	2.2	-1.6	21	3	3.6	0.3
OCBE006	29700	2.8	0.9	12	2	1.3	0.2
OCBE007	38038	4.8	1.1	23	3	2.1	0.5
OCBE008	52400	-0.2	-2.2	20	3	0.8	0.3
OCBE009	54789	-1.4	-2.1	22	4	3.1	0.4
OCBE010	55700	-0.4	1.1	18	3	2.4	0.3
OCBE011	40200	3.5	-0.5	18	3	1.8	0.2
OCBE012	54600	-1.0	-0.2	26	3	1.7	0.3
OCBE013	61490	3.9	.	12	.	.	.
OCBE014	55600	-1.5	-0.5	25	4	2.3	0.2
OCBE015	35178	3.3	1.8	21	2	3.5	0.3
OCBE016	M	M	-0.4	21	M	2.1	0.4
OCBE017	61347	-1.2	-0.4	27	3	2.3	0.4
OCBE018	33891	-1.2	-0.1	8	1	0.6	M
OCBE019	37180	-1.7	0.7	21	4	1.9	0.4
OCBE020	31000	-0.3	-0.5	14	3	1.1	0.2
OCBE021	45903	-2.0	-0.7	24	3	1.9	0.4
OCBE022	61300	-0.4	1.4	32	4	3.4	0.5
OCBE023	44473	-1.1	1.4	17	2	2.3	0.3
OCBE024	54200	-2.5	-0.5	28	4	2.3	0.4

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

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SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCBF025	48763	4.1	-1.3	16	2	1.5	0.2
GCBF026	48100	3.3	-0.4	23	4	1.8	0.3
GCBF027	70700	8.7	3.1	32	5	3.1	0.4
GCBF028	59000	2.7	-1.0	31	4	3.0	0.4
GCBF029	55627	-1.2	1.1	30	5	2.5	0.5
GCBF030	52600	3.2	-0.4	24	2	3.9	0.5
GCBF031	30316	-1.9	-0.7	18	3	2.3	0.4
GCBF032	21300	2.0	0.5	12	2	0.9	0.2
GCBF033	66500	-1.3	1.3	31	4	3.0	0.5
GCBF034	32000	3.0	-0.5	22	4	2.0	0.4
GCBF035	34900	-0.5	-0.6	19	2	2.0	0.4
GCBF036	40100	4.7	-1.2	16	3	1.8	0.3
GCBF037	15900	-0.3	-0.7	9	2	0.6	0.2
GCBF038	36900	-0.8	1.3	22	3	1.4	0.3
GCBF039	42900	-1.1	-0.4	23	3	3.5	0.4
GCBF040	49100	-1.3	1.2	24	3	2.0	0.5
GCBF041	27456	-1.3	-0.1	7	1	M	M
OCBF001	41300	-0.5	-1.0	12	2	2.0	0.2
OCBF002	56485	-1.8	-2.1	24	3	2.4	0.3
OCBF003	53900	-0.7	-2.7	23	2	-0.1	0.3
OCBF004	32747	-0.4	1.2	22	3	2.7	0.4
OCBF005	36100	M	3.2	20	2	2.4	0.3
OCBF006	44187	-2.2	1.0	20	2	-0.1	0.3
OCBF007	37100	-0.8	-0.6	23	4	1.6	0.3
OCBF008	34892	M	-0.3	20	2	1.3	0.3
OCBF009	41000	-0.5	-0.4	21	3	1.1	0.4
OCBF010	26028	1.6	0.9	17	2	2.0	0.3
OCBF011	52700	M	0.7	14	2	1.1	0.2
OCBF012	49907	-0.8	-0.4	19	3	1.5	0.2
OCBF013	44000	-1.9	1.6	20	3	2.4	0.5
OCBF014	42185	-1.3	.	12	.	.	.
OCBF015	47500	-0.5	-0.7	23	3	1.8	0.4
OCBF016	50336	-0.5	1.1	21	3	2.4	0.2
OCBF017	36500	-0.8	-0.7	21	3	2.6	0.4
OCBF018	M	1.1	-0.4	15	2	1.5	0.2
OCBF019	46100	-0.8	-0.7	18	3	2.3	0.2
OCBF020	32900	-0.1	-0.3	19	3	3.2	0.5
OCBF021	31889	-0.7	-0.6	20	4	-0.5	M
OCBF022	32900	-0.5	-0.5	19	3	2.1	0.4
OCBF023	40183	-0.5	-0.8	21	3	2.7	0.4
OCBF024	45900	-0.4	2.3	23	2	1.4	0.2
OCBF025	42185	1.9	-0.6	22	3	2.6	0.4
OCBF026	50200	-0.8	-0.6	28	2	8.5	0.5
OCBF027	27170	-2.1	-0.4	16	2	1.6	0.2
OCBF028	37900	-0.7	-0.9	26	4	1.5	0.4
OCBF029	32032	-0.9	-0.5	16	3	1.9	0.3
OCBF030	36100	-0.5	-3.9	18	2	2.7	0.3
OCBF031	44330	-0.6	0.7	18	2	2.6	0.3
OCBF032	43100	-0.7	1.3	26	3	1.8	0.3
OCBF033	37609	-1.2	.	20	.	.	.

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

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SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCBF034	37000	-0.5	1.5	20	3	1.9	0.3
GCBF035	35893	4.3	-0.5	16	2	1.4	0.2
GCBF036	46800	1.2	1.2	27	M	-0.5	M
GCBF037	31317	-0.5	1.3	17	3	1.2	0.3
GCBF038	52900	3.3	1.6	28	4	3.0	0.5
GCBF039	M	-1.5	.	10	.	.	.
GCBF040	22400	-0.8	1.3	18	3	3.7	0.3
GCBF041	41327	-0.6	-0.7	23	3	2.5	0.3
GCBF042	48800	-0.5	1.4	28	3	3.4	0.6
GCB0001	54483	-1.5	1.1	29	3	-0.8	0.3
GCB0002	44473	-1.0	1.6	24	1	3.6	-0.1
GCB0003	42614	-1.1	1.2	23	3	2.4	0.3
GCB0004	42185	1.4	0.7	21	2	-0.6	0.3
GCB0005	43615	2.1	0.6	22	3	-1.2	0.3
GCB0006	37466	1.3	0.8	22	3	3.5	M
GCB0007	38753	-0.8	1.1	26	5	-0.9	0.3
GCB0008	43472	-1.1	-0.4	20	5	3.5	0.4
GCB0009	38896	4.0	1.9	23	6	7.6	0.3
GCB0010	28886	8.8	0.5	19	4	-0.9	0.2
GCB0011	39468	3.7	0.5	22	3	-0.7	0.3
GCB0012	43329	2.9	1.0	23	4	-3.2	0.6
GCB0013	26026	-0.5	0.7	15	2	-0.8	0.3
GCB0014	29887	4.4	0.2	16	4	-0.2	0.1
GCB0015	49621	2.3	1.7	28	6	4.1	0.3
GCB0016	49049	4.1	-0.2	70	4	-0.9	0.4
GCB0017	37752	1.0	0.4	21	1	-0.1	0.3
GCB0018	41470	3.4	2.1	18	2	2.9	0.2
GCB0019	48191	-0.4	0.7	49	3	-0.9	0.3
GCB0020	46189	1.4	0.6	32	2	-0.8	0.3
GCB0021	59479	2.9	2.3	-10	5	-0.1	0.6
GCB0022	42900	5.1	-0.3	16	4	-0.4	0.2
GCB0023	42900	-1.0	0.3	18	1	-0.1	0.2
GCB0024	48477	-0.5	1.2	26	3	-0.9	0.2
GCB0025	43901	2.5	0.6	33	6	-0.6	0.3
GCB0026	46046	3.7	1.2	29	6	3.6	0.4
GCB0027	34892	2.6	1.6	24	28	-1.1	0.6
GCB0028	33605	1.9	-0.2	15	1	-2.4	0.4
GCB0029	37323	1.3	1.7	25	2	1.7	0.3
GCB0030	39754	5.2	1.2	15	7	-1.2	0.4
GCB0031	32461	1.6	0.7	18	1	-0.9	0.1
GCB0032	34034	-0.3	1.3	21	2	2.4	0.3
GCB0033	34892	5.0	0.7	21	2	2.4	0.3
GCB0034	41470	-0.9	0.4	18	1	1.7	0.2
GCB0035	41613	-1.0	1.3	23	4	4.3	0.5
GCB0036	46046	2.4	-0.4	27	11	2.6	0.4
GCB0037	36751	3.7	1.0	22	4	3.9	0.6
GCB0038	23023	-0.3	1.0	17	1	-1.9	0.2
GCB0039	37752	2.1	0.3	17	5	2.3	0.2
GCB0040	33176	-0.9	0.7	22	3	-1.6	0.3
GCB0041	41613	-0.7	-0.2	22	6	-0.9	0.3

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

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SRL I.D.	AL	DY	EU	LA	SH	YB	LU
GCBG042	42900	-0.7	0.8	23	2	-0.4	0.3
GCBG043	53053	-0.4	1.0	25	2	-0.8	0.6
GCBG044	41184	-1.2	1.7	25	1	-0.8	0.2
GCBG045	36751	2.8	1.0	24	4	2.1	0.4
OCBH001	42600	-0.5	-0.5	22	4	1.8	0.3
OCBH002	52767	-0.6	-0.5	30	3	3.2	0.4
OCBH003	M	-0.2	-0.4	14	2	1.2	0.2
OCBH004	39039	-1.3	2.1	21	M	-0.3	M
OCBH005	26900	-1.0	-0.5	11	2	1.4	0.2
OCBH006	53911	-1.0	-0.3	28	2	1.8	0.4
OCBH007	30800	-1.0	-0.7	21	3	1.3	0.2
OCBH008	38324	-1.3	-0.7	27	2	3.4	0.5
OCBH009	34400	-0.6	-0.7	21	3	2.3	0.4
OCBH010	51337	-1.3	-2.7	34	4	3.0	0.5
OCBH011	54600	-0.4	0.9	33	4	3.1	0.4
OCBH012	48763	-0.3	2.7	38	4	3.5	0.6
OCBH013	47900	-2.0	-2.5	26	3	4.3	0.5
OCBH014	43329	-1.5	0.8	22	4	1.8	0.4
OCBH015	39100	-0.5	1.3	26	4	2.0	0.4
OCBH016	29601	0.9	-0.6	21	3	1.5	0.3
OCBH017	44700	-1.0	0.7	25	3	4.3	0.4
OCBH018	56628	3.5	-0.7	28	4	2.5	0.4
OCBH019	55500	-0.7	2.9	38	9	-0.3	M
OCBH020	56771	6.5	-0.5	28	3	2.4	0.3
OCBH021	65600	-1.1	0.7	29	4	3.5	0.4
OCBH022	50050	-1.1	-0.6	21	2	2.3	0.3
OCBH023	55800	-0.5	1.5	30	3	4.4	0.4
OCBH024	M	3.0	-3.0	35	4	3.3	0.5
OCBH025	43901	-0.6	1.8	31	5	3.7	0.4
OCBH026	42500	-0.4	1.6	26	3	2.3	0.3
OCBH027	49784	-1.2	1.0	25	3	1.9	0.3
OCBH028	49300	-0.2	-3.3	26	2	2.0	0.5
OCBH029	43758	2.0	0.6	26	4	2.0	0.3
OCBH030	41000	-0.6	.	16	.	.	.
OCBH031	52195	-1.7	-0.6	24	5	2.8	0.4
OCBH032	22500	-0.9	.	M	.	.	.
OCBH033	44330	-1.1	.	28	.	.	.
OCBH034	32200	-0.7	-0.4	29	4	0.8	0.2
OCBH035	20163	-0.9	-0.4	12	2	1.4	0.3
OCBH036	45700	-0.9	1.7	27	3	1.6	0.5
OCBH037	28457	-1.2	-0.5	20	2	1.7	0.3
OCBH038	46500	-0.6	-0.9	28	2	1.4	0.4
OCBH039	25311	-0.7	-0.4	12	2	1.3	0.3
OCBH040	45000	-1.4	1.5	29	M	-0.5	M
OCBH041	30173	-1.0	-0.5	24	3	2.8	0.4
GCCA001	31000	1.6	-0.8	8	1	0.7	0.1
GCCA002	34892	-1.5	-0.6	12	2	1.4	0.2
GCCA003	50500	-0.8	-2.4	27	4	1.1	0.4
GCCA004	39182	-1.3	-0.5	25	3	3.0	0.2
GCCA005	60400	-0.4	1.5	33	4	2.7	0.4

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

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SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCCA006	57500	-0.8	0.9	21	3	2.1	0.3
GCCA007	49907	-1.4	1.0	30	3	3.0	0.4
GCCA008	62800	-1.0	1.6	33	4	2.0	0.5
GCCA009	54769	-0.8	-2.8	31	4	2.4	0.5
GCCA010	40900	0.8	-0.6	26	3	3.3	0.4
GCCA011	52338	-1.3	1.2	34	8	M	M
GCCA012	43600	16.0	1.2	23	4	2.2	0.3
GCCA013	45188	-1.3	0.8	28	3	2.6	0.5
GCCA014	50600	1.7	-0.5	31	4	3.2	0.4
GCCA015	48331	-0.3	1.5	32	3	-0.6	0.3
GCCA016	53400	-0.8	0.9	27	3	1.8	0.4
GCCA017	41470	-0.6	0.6	27	3	-0.2	M
GCCA018	35500	1.4	.	16	.	.	.
GCCA019	54054	-0.4	-0.3	14	2	1.4	0.2
GCCA020	47600	-0.7	-0.4	24	3	-0.2	0.3
GCCA021	51623	-1.6	-0.5	22	3	2.1	0.2
GCCA022	45300	-1.5	-2.3	35	5	3.2	0.5
GCCA023	38324	-0.9	-0.6	22	3	3.2	0.3
GCCA024	46600	-1.4	0.6	32	5	4.3	0.5
GCCA025	59488	-1.9	-0.2	32	3	-0.2	0.3
GCCA026	50300	-0.2	-0.2	33	4	2.8	0.4
GCCA027	M	-1.3	-0.5	21	2	1.6	0.2
GCCA028	41000	-1.4	0.8	26	M	-0.3	M
GCCA029	40755	-1.0	-0.6	9	2	-0.1	0.2
GCCA030	21593	0.7	-1.1	10	1	-1.6	-0.4
GCCA031	51300	-0.6	-2.6	27	3	2.5	0.3
GCCA032	36000	-0.6	-1.0	21	5	-0.4	M
GCCA033	23881	-0.7	-0.7	9	1	0.6	0.2
GCCA034	30500	1.5	-0.2	10	1	0.4	0.1
GCCA035	32747	6.0	-0.6	20	3	1.5	0.4
GCCB001	34000	-1.0	-2.8	27	5	4.1	0.4
GCCB002	51194	2.2	-0.7	31	4	1.7	0.4
GCCB003	59900	4.3	1.1	36	6	2.6	0.6
GCCB004	68600	1.0	1.3	41	6	4.1	0.5
GCCB005	54100	-1.0	-2.9	36	6	4.2	0.4
GCCB006	49700	-0.9	-1.5	18	3	1.5	0.3
GCCB007	50908	0.9	-2.8	30	4	5.2	0.5
GCCB008	49000	-1.0	-3.1	31	4	-0.3	0.4
GCCB009	42000	2.7	-0.5	28	4	2.4	0.4
GCCB010	67496	-1.2	-4.2	36	4	2.9	0.5
GCCB011	58700	1.0	3.2	36	3	1.7	0.7
GCCB012	53053	1.4	-2.6	29	4	3.0	0.4
GCCB013	72400	-0.4	2.9	43	7	3.8	0.4
GCCB014	51623	M	M	32	M	M	M
GCCB015	52300	-0.4	1.0	37	5	3.7	0.6
GCCB016	66781	7.8	-0.7	38	3	3.7	0.5
GCCB017	37800	5.7	-1.2	39	5	4.8	0.4
GCCB018	39700	-0.6	-0.5	25	1	2.4	0.4
GCCB019	38900	-0.9	2.0	40	5	3.9	0.6
GCCB020	65600	-1.1	-3.0	41	6	5.0	0.6

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

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SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCCB021	49100	3.4	2.0	32	3	2.3	0.6
GCCB022	61600	-0.6	2.8	34	4	1.9	0.3
GCCB023	43400	3.7	-0.4	23	3	1.6	0.2
GCCB024	52400	2.3	-3.0	31	4	3.1	0.4
GCCB025	30000	-0.8	-0.7	24	3	2.2	0.3
GCCB026	33300	-0.6	-1.0	21	4	1.6	0.5
GCCB027	62400	-0.8	-2.8	32	4	3.0	0.4
GCCB028	59200	7.8	-3.1	38	6	2.9	0.5
GCCB029	46400	-0.6	1.4	32	5	3.3	0.5
GCCB030	74100	-0.6	-2.9	35	6	3.5	0.4
GCCB031	43900	3.0	-2.5	26	3	2.3	0.3
GCCB032	42200	-0.1	-1.1	12	2	1.4	0.2
GCCB033	55500	-0.9	1.6	29	4	2.0	0.5
GCCB034	41300	5.8	-1.0	24	4	2.3	0.4
GCCB035	30800	-1.7	-0.3	17	2	2.1	0.3
GCCB036	39182	-0.5	M	14	1	-0.2	M
GCCB037	27500	4.1	1.8	37	5	1.9	0.5
GCCB038	40898	4.2	-0.1	10	2	1.1	0.2
GCCB039	45200	5.9	1.2	29	3	2.3	0.4
GCCC001	77220	-0.5	-2.5	27	5	-0.1	0.5
GCCC002	57200	M	1.0	32	6	2.6	0.4
GCCC003	48906	7.2	-2.4	26	4	2.7	0.3
GCCC004	66209	-1.4	0.6	16	3	1.2	0.2
GCCC005	59059	-1.2	-2.8	26	3	1.3	0.4
GCCC006	51909	3.1	1.3	25	4	2.3	0.4
GCCC007	45617	2.4	1.2	22	3	2.4	0.3
GCCC008	35100	-0.7	-0.3	12	2	1.1	0.2
GCCC009	66900	-0.6	-0.8	32	4	2.7	0.3
GCCC010	48300	4.1	-0.2	28	4	2.7	0.4
GCCC011	37400	-0.5	-0.6	30	3	3.5	0.5
GCCC012	64350	4.6	2.8	37	3	2.7	0.5
GCCC013	56300	10.0	4.3	29	3	-0.1	0.3
GCCC014	64600	-0.4	1.7	29	4	2.1	0.4
GCCC015	69200	13.2	-0.6	33	5	1.8	0.5
GCCC016	30030	-0.8	-0.8	23	3	M	0.3
GCCC017	52500	-0.7	-2.6	34	4	3.0	0.5
GCCC018	59202	6.5	-0.4	17	3	2.0	0.2
GCCC019	54400	-0.5	-0.6	28	4	2.1	0.4
GCCC020	51766	-0.2	2.7	25	4	1.4	0.3
GCCC021	61100	-0.9	1.0	32	3	3.5	0.5
GCCC022	37800	-0.6	-4.2	30	4	3.5	0.4
GCCC023	40183	-1.3	-0.4	25	4	2.7	0.3
GCCC024	56000	-0.8	-2.8	29	4	1.3	0.4
GCCC025	27500	-0.5	-0.2	17	3	1.2	0.2
GCCC026	41500	5.6	0.7	24	4	1.4	0.3
GCCC027	53400	-0.2	-2.0	31	4	2.1	0.5
GCCC028	31400	-1.1	-0.7	18	2	-0.2	0.4
GCCC029	17300	2.9	-0.8	16	3	1.9	0.3
GCCC030	46200	-1.1	M	16	3	1.6	0.3
GCCC031	21200	1.1	1.0	15	3	2.4	0.3

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

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SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCCC032	34700	3.8	1.4	19	4	2.3	0.2
GCCC033	41100	4.5	-3.1	34	5	2.5	0.6
GCCC034	37200	1.2	1.8	25	4	2.8	0.4
GCCC035	54900	-0.6	-0.6	35	3	5.3	0.4
GCCC036	41300	4.8	-0.5	29	3	4.6	0.7
GCCC037	56600	-0.1	2.1	32	3	3.5	0.5
GCCC038	62900	-0.1	2.4	32	4	2.6	0.4
GCCC039	73200	-1.2	-1.3	35	6	3.5	0.5
GCCC040	46000	-0.1	1.3	29	4	2.7	0.5
GCCD001	60600	-0.7	-1.1	30	5	2.5	0.4
GCCD002	89300	-0.7	1.0	22	3	1.0	0.3
GCCD003	70300	-1.1	1.7	34	6	4.2	0.4
GCCD004	64350	-0.4	1.4	32	5	2.2	0.3
GCCD005	70800	-1.3	1.2	35	4	2.1	0.4
GCCD006	68100	-0.4	-1.1	31	5	2.8	0.6
GCCD007	58200	2.9	-0.6	32	3	2.2	0.5
GCCD008	40100	4.5	-2.5	29	4	2.9	0.4
GCCD009	43600	2.3	-0.4	14	2	1.3	0.2
GCCD010	78000	2.6	1.7	31	5	2.2	0.3
GCCD011	29200	-0.8	1.0	21	3	2.2	0.4
GCCD012	60500	11.1	-3.0	34	5	3.1	0.4
GCCD013	20900	2.3	-0.3	20	3	1.1	0.5
GCCD014	73400	-0.3	2.3	36	5	3.3	0.5
GCCD015	80200	-0.4	1.8	38	4	2.7	0.4
GCCD016	62700	-0.3	-0.9	26	4	2.6	0.4
GCCD017	82100	-0.3	-0.3	21	3	2.0	0.3
GCCD018	63921	-2.3	1.6	38	6	2.3	0.4
GCCD019	47100	0.2	0.2	29	5	3.6	0.4
GCCD020	86066	-0.4	2.3	33	5	2.3	0.4
GCCD021	69300	-0.9	-0.9	36	6	3.5	0.5
GCCD022	69498	-2.0	-0.6	37	4	3.1	0.5
GCCD023	54300	-0.4	3.5	35	4	2.7	0.5
GCCD024	111683	-0.4	1.2	36	5	2.0	0.3
GCCD025	89700	6.1	-0.5	37	4	1.7	0.3
GCCD026	67300	-0.2	0.7	21	3	2.1	0.3
GCCD027	61000	-0.6	1.2	26	4	-0.7	0.4
GCCD028	44330	-1.5	-0.6	27	5	2.4	0.4
GCCD029	64400	-2.3	-0.2	25	3	2.0	0.5
GCCD030	57200	-1.8	1.0	24	4	1.5	0.4
GCCD031	61633	-1.4	1.4	36	5	-0.1	0.4
GCCD032	86086	-0.6	-3.4	38	4	2.1	0.4
GCCE001	55198	2.0	1.4	25	4	2.5	0.3
GCCE002	60632	-1.5	2.6	29	4	2.8	0.4
GCCE003	61347	-1.1	-1.1	34	6	2.1	0.5
GCCE004	51100	-0.8	-1.4	20	3	2.3	0.4
GCCE005	67496	-1.7	0.9	35	6	2.2	0.4
GCCE006	47500	-0.9	-1.3	26	5	3.4	0.5
GCCE007	37180	-0.6	-2.5	23	3	3.0	0.3
GCCE008	37700	-0.7	-0.7	26	5	3.1	0.4
GCCE009	41613	12.5	-0.7	25	4	3.0	0.5

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

17

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCCE010	37900	2.3	-0.5	21	3	1.2	0.2
GCCE011	71071	2.4	0.8	30	3	2.5	0.5
GCCE012	57500	-0.6	-0.6	29	4	3.2	0.4
GCCE013	56342	-0.8	-0.3	16	2	2.8	1.2
GCCE014	31400	3.0	-0.4	17	3	2.5	0.3
GCCE015	31700	3.9	-1.0	24	4	2.5	0.5
GCCE016	59202	-2.8	-0.2	18	3	2.6	0.3
GCCE017	83900	-0.6	-0.8	36	4	3.3	0.4
GCCE018	64779	4.0	1.4	26	3	4.2	0.4
GCCF001	38610	2.7	0.6	14	2	1.2	0.2
GCCF002	42471	-1.3	1.5	24	2	-0.3	0.5
GCCF003	42326	5.5	1.0	24	9	-0.7	0.4
GCCF004	37895	-0.9	1.0	18	3	2.3	0.3
GCCF005	40040	-1.0	0.6	21	4	-0.7	0.4
GCCF006	43615	4.1	1.9	27	2	-0.7	0.3
GCCF007	26169	3.1	M	10	4	-1.4	0.1
GCCF008	19877	1.4	-0.3	12	1	2.0	0.2
GCCF009	28314	5.1	1.3	32	6	6.2	1.0
GCCF010	23738	-0.6	-0.1	15	1	-0.5	0.3
GCCF011	26598	1.2	0.4	12	2	-1.4	0.2
GCCF012	28314	1.3	1.5	19	3	4.2	0.2
GCCF013	30745	-0.9	0.4	13	1	-0.8	0.2
GCCF014	26169	1.6	0.5	10	3	-2.3	0.2
GCCF015	20878	1.7	0.5	7	2	-0.7	0.3
GCCF016	18161	M	0.4	7	M	-2.0	0.1
GCCF017	17875	0.8	2.0	27	2	-2.8	0.3
GCCG001	36036	4.5	0.6	19	2	-0.4	0.3
GCCG002	38038	1.8	0.8	11	4	-0.5	0.2
GCCG003	37466	5.0	1.1	24	2	-1.2	0.2
GCCG004	36322	-0.7	0.7	14	4	5.4	0.3
GCCG005	35607	0.2	0.5	26	2	4.0	0.3
GCCG006	34749	4.7	0.5	19	2	-0.3	0.1
GCCG007	41899	-0.6	-0.3	22	7	-0.1	0.3
GCCG008	38610	1.1	0.8	28	3	2.7	0.4
GCCG009	32461	3.3	1.2	59	7	2.5	0.3
GCCG010	23595	2.0	3.6	10	4	-0.7	0.1
GCCG011	M	-0.1	0.8	6	1	-0.2	-0.2
GCCG012	21021	1.0	1.3	6	M	-4.3	-1.0
GCCG013	23595	-1.0	-0.2	20	2	-3.2	0.2
GCCH001	18590	-0.2	-0.1	12	1	-2.2	0.2
GCCH002	55198	2.9	0.7	15	2	-0.1	0.2
GCCH003	30459	-0.6	0.6	21	2	-2.9	0.3
GCCH004	37180	3.0	-0.2	17	2	3.2	0.2
GCCH005	35464	1.2	1.4	18	4	2.8	0.6
GCCH006	38696	19.3	-0.2	16	2	-0.1	0.3
GCCH007	56628	-0.8	0.4	18	2	-2.0	0.3
GCCH008	53482	-1.0	1.3	29	5	-2.9	0.4
GCCH009	54912	-0.9	0.8	19	2	1.3	0.3
GCCH010	36751	-0.9	-0.1	18	2	4.8	0.2
GCCH011	40612	-0.7	-0.1	19	2	-0.7	0.3

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2

DEGREE SHEET

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THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

 SFL I.D.

SFL I.D.	AL	DY	EU	LA	SM	YB	LU
GCCH012	46904	-0.4	0.9	19	2	2.0	0.2
GCCH013	32175	2.9	-0.6	18	3	-0.8	0.2
GCCH014	35178	1.4	0.7	17	1	1.6	0.3
GCCH015	36322	4.9	1.3	20	2	5.3	0.5
GCCH016	44187	0.9	0.4	20	5	1.8	0.3
GCCH017	62920	-1.4	1.2	33	3	2.4	0.3
GCCH018	32318	2.8	-0.3	16	1	2.5	0.3
GCCH019	32175	-0.5	1.0	18	2	3.0	0.3
GCCH020	28743	-0.8	0.3	45	4	-1.4	M
GCCH021	40326	1.0	-0.5	19	8	-1.4	0.2
GCCH022	35607	4.5	-0.9	72	2	-2.7	0.3
GCCH023	23595	1.8	-0.1	17	3	M	0.2
GCCH024	27456	1.4	-0.3	15	4	-1.7	0.1
GCCH025	36808	1.4	0.6	17	2	-0.4	0.4
GCCH026	35035	1.0	-0.6	16	1	M	0.2
GCCH027	40040	3.7	-0.3	19	5	-2.8	0.2
GCCH028	61061	7.5	0.5	19	2	-0.5	0.2
GCDA001	23452	1.1	-0.9	13	1	-3.3	0.1
GCDA002	47476	1.3	-0.2	18	2	-0.3	0.2
GCDA003	32890	-0.4	1.3	20	1	-3.9	M
GCDA004	M	M	M	M	M	M	M
GCDA005	M	M	M	M	M	M	M
GCDA006	49192	1.5	-0.1	28	2	M	0.3
GCDA007	55484	-0.8	0.5	46	2	1.6	0.2
GCDA008	54054	-0.9	0.3	22	1	-0.2	0.3
GCDA009	M	M	M	M	M	M	M
GCDA010	55055	-0.7	0.6	33	3	5.0	0.6
GCDA011	M	M	M	M	M	M	M
GCDA012	M	M	M	M	M	M	M
GCDA013	M	M	M	M	M	M	M
GCDA014	54197	1.5	0.9	31	6	3.5	0.4
GCDA015	52624	-0.2	0.8	31	4	2.0	0.3
GCDA016	57200	5.2	1.0	24	3	-0.9	0.3
GCDA017	35893	-0.9	0.6	20	6	-2.0	0.2
GCDB001	74500	-0.6	1.9	32	4	3.8	0.4
GCDB002	65494	-1.4	1.5	22	3	1.4	0.3
GCDB003	77363	-0.4	2.8	37	6	3.9	0.4
GCDB004	88374	9.7	-2.8	38	6	2.6	0.5
GCDB005	61776	2.1	-3.2	35	4	3.0	0.4
GCDB006	61490	3.4	M	40	7	3.8	0.5
GCDB007	42300	5.9	-0.3	29	2	3.2	0.6
GCDB008	72501	-1.3	.	44	M	.	.
GCDB009	63300	2.1	-1.1	36	4	2.9	0.4
GCDB010	51909	8.5	-0.3	19	3	1.5	0.2
GCDB011	55600	1.8	-3.5	32	4	-0.1	0.4
GCDB012	58773	-1.4	1.8	38	5	3.3	0.7
GCDB013	60800	-1.3	-0.9	40	6	3.3	0.6
GCDB014	69100	-0.8	2.0	40	5	2.1	0.4
GCDB015	29600	3.1	-0.2	32	4	1.6	0.4
GCDB016	56700	-0.8	1.0	20	3	1.5	0.3

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2

DEGREE SHEET

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THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCDB017	60346	7.2	-0.7	27	6	2.9	0.3
GCDB018	70500	-0.5	-0.5	27	4	1.3	0.3
GCDB019	60918	-0.8	2.4	35	6	2.0	0.4
GCDC001	38181	6.0	1.0	27	6	3.3	0.4
GCDC002	56342	-0.3	0.9	33	3	1.9	0.3
GCDC003	54054	-0.7	2.1	29	4	-1.3	0.4
GCDC004	62491	-0.8	1.8	29	5	4.9	0.4
GCDC005	63349	3.1	0.7	20	2	-0.7	0.2
GCDC006	M	M	M	M	M	M	M
GCDC007	M	M	M	M	M	M	M
GCDC008	M	M	M	M	M	M	M
GCDC009	M	M	M	M	M	M	M
GCDC010	M	M	M	M	M	M	M
GCDD001	53900	-0.9	1.2	33	4	3.2	0.5
GCDD002	39900	2.7	1.8	31	3	3.2	0.4
GCDD003	21000	-0.2	-2.3	11	2	1.5	0.2
GCDD004	56628	-1.1	1.0	19	3	1.8	0.3
GCDD005	45200	-0.1	0.8	25	5	1.4	0.4
GCDD006	52200	4.3	1.3	28	4	2.8	0.5
GCDD007	53768	3.6	2.4	28	3	1.9	0.3
GCDD008	59345	-0.9	1.6	29	4	3.6	0.5
GCDD009	43400	4.6	-0.9	22	4	1.2	0.2
GCDD010	37180	-0.9	-0.4	15	2	-0.3	0.2
GCDD011	31800	-2.0	-1.5	19	3	-1.7	0.4
GCDD012	45188	4.0	-3.4	32	5	-0.8	0.5
GCDD013	48500	-1.1	-0.5	18	3	2.4	0.1
GCDD014	30888	-0.6	-0.3	19	3	-0.5	0.3
GCDD015	36500	-0.6	-3.4	29	3	3.4	0.4
GCDD016	53196	3.7	-1.5	32	6	-0.6	0.8
GCDD017	47500	4.2	-1.2	28	5	-1.5	0.8
GCDD018	34606	-1.1	-0.6	16	3	2.1	0.4
GCDD019	32900	2.7	0.9	15	2	-0.3	0.3
GCDD020	30173	1.8	-0.4	8	1	-0.1	0.2
GCDD021	49900	3.6	-0.5	21	3	2.0	0.2
GCDD022	26455	-1.8	-2.1	11	1	2.2	0.6
GCDD023	64000	3.4	-1.6	30	5	2.8	0.3
GCDD024	55484	-0.9	-0.4	14	2	M	0.2
GCDD025	25500	2.0	-0.8	13	2	-1.0	0.2
GCDD026	34606	-1.1	-2.9	15	3	-0.9	0.3
GCDE001	34320	1.0	1.6	19	2	-0.4	0.2
GCDE002	50765	4.9	0.6	18	2	1.9	0.2
GCDE003	47190	-0.7	0.6	28	3	2.0	0.3
GCDE004	44902	1.8	1.2	24	3	2.2	0.4
GCDE005	58916	6.5	0.9	26	5	1.6	0.4
GCDE006	46332	-0.7	0.8	29	3	2.3	0.3
GCDE007	60346	3.2	-0.3	28	3	7.1	0.4
GCDE008	52338	1.0	-0.5	29	4	2.6	0.5
GCDE009	49764	-0.9	-0.2	26	3	2.3	0.3
GCDE010	59202	2.2	-0.5	28	7	1.9	0.2
GCDE011	49478	3.5	3.1	25	5	1.9	0.3

TABLE B-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA--GRAND CANYON 1X2
 THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

DEGREE SHEET

20

SRL I. D.	AL	DY	EU	LA	SM	YB	LU
GCDE012	29029	2.0	1.1	20	3	1.8	0.3
GCDE013	37180	-0.5	1.0	21	3	1.5	0.2
GCDE014	47476	3.7	1.1	26	6	2.2	0.4
GCDE015	40795	3.5	-0.1	16	4	-0.3	0.2
GCDE016	34320	2.9	0.6	22	3	2.9	0.3
GCDE017	38038	-0.7	-0.1	25	6	-0.4	0.2
GCDE018	39611	-0.5	1.4	25	3	2.2	0.4
GCDE019	41470	2.3	0.5	16	3	1.7	0.2
GCDE020	48620	2.2	0.6	28	3	M	0.4
GCDE021	39897	-0.8	0.7	28	3	4.3	0.5
GCDE022	34749	-0.6	0.3	6	1	-2.0	-0.6
GCDE023	40326	3.6	1.0	26	6	1.2	0.4
GCDE024	43901	1.7	0.9	23	3	-0.3	0.2
GCDE025	45617	2.1	1.7	29	4	-1.1	0.4
GCDE026	52910	1.9	1.1	31	4	1.7	0.5
GCDE027	50908	2.3	0.6	28	5	-0.6	0.3
GCDE028	34892	2.4	M	17	3	-0.5	0.3
GCDE029	29029	2.5	-0.4	13	2	2.5	0.2
GCDE030	28028	2.5	0.8	15	4	M	0.2
GCDE031	36179	3.6	0.7	18	6	1.5	0.3
GCDE032	22880	0.9	1.0	18	3	-2.2	0.4
GCDE033	33462	3.2	0.8	22	5	2.1	0.4
GCDE034	36036	2.3	M	12	1	0.9	0.2
GCDE035	19448	0.5	-0.1	13	1	-2.0	0.2
GCDE036	27885	5.0	0.6	54	4	4.8	0.8
GCDE037	24596	1.2	-0.2	11	2	1.0	0.1
GCDE038	50765	1.3	1.9	25	2	2.6	0.3
GCDE039	48048	9.4	2.0	35	6	3.6	0.6
GCDE040	39182	3.3	1.4	31	4	3.3	0.5
GCDE041	43758	-0.7	-0.2	15	2	1.8	0.2
GCDE042	44902	0.8	0.5	23	8	2.4	0.5
GCDE043	59202	7.4	0.5	22	3	-0.3	0.4
GCDE044	44044	7.0	M	20	2	1.7	0.2
GCDE045	51766	3.2	1.4	34	8	3.2	0.4
GCDE046	53625	4.1	0.4	30	6	-0.5	0.2
GCDF001	43500	-1.0	-1.8	28	3	2.1	0.3
GCDF002	47619	1.4	1.5	31	3	1.7	0.4
GCDF003	40400	-0.4	-0.8	26	3	5.4	0.3
GCDF004	42900	-1.6	-3.8	24	4	-1.3	0.4
GCDF005	46904	1.2	1.8	27	3	4.4	0.3
GCDF006	63921	2.4	1.6	32	5	2.5	0.3
GCDF007	44759	-1.3	-3.2	25	3	-0.6	0.4
GCDF008	47900	5.7	-0.9	27	3	2.7	0.3
GCDF009	51051	5.4	-6.2	29	5	2.7	0.3
GCDF010	30700	4.4	-4.8	23	4	3.6	0.4
GCDF001	56771	-1.2	1.2	25	3	-0.4	0.6
GCDF002	29700	-0.8	-0.4	13	2	3.6	0.2
GCDF003	48334	12.0	-0.4	14	2	-0.1	0.2
GCDF004	29300	-1.5	-4.3	26	5	3.7	0.3
GCDF005	57200	-0.4	-0.8	29	4	4.0	0.5

THE FOLLOWING ELEMENTAL CONCENTRATIONS ARE IN PPM

 SRL I.D.

SRL I.D.	AL	DY	EU	LA	SM	YB	LU
GCDG006	44200	5.7	-0.7	28	3	9.5	0.4
GCDG007	39754	-1.0	2.2	26	3	2.4	0.4
GCDG008	37200	3.4	-4.1	23	4	2.8	0.3
GCDG009	59345	1.6	2.5	30	4	4.7	0.6
GCDG010	43800	-1.0	-0.4	31	5	2.7	0.5
GCDG011	46332	3.4	-3.0	23	3	1.5	0.3
GCDG012	36100	-0.7	-0.9	30	4	-1.3	0.3
GCDG013	39754	5.2	-1.3	27	4	2.8	0.3
GCDG014	45800	-0.6	-1.7	15	3	2.5	0.2
GCDG015	36036	-0.8	-0.4	25	4	-1.6	0.4
GCDG016	32200	-1.1	-0.8	21	4	3.2	0.3
GCDH001	54483	-1.2	-3.9	21	2	-2.1	-0.1
GCDH002	35750	-1.2	-1.0	24	4	3.1	0.2

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

1

S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T I O N	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F R A M E W O R K	O D D R	W A T E R T E M P	SAMPDATE	TEAM
GCAA001	06	9	2	1	1	1	1	3	1	2	10	.	.	.	2	QTRN	.	M	5/ 5/79	018
GCAA002	07	9	1	1	1	1	1	3	1	2	10	.	.	.	8	QTRN	.	M	5/ 5/79	018
GCAA003	07	9	1	1	1	1	1	3	1	1	10	.	.	.	8	QTRN	.	M	5/ 5/79	018
GCAA004	07	7	3	1	1	1	1	3	2	4	10	.	.	.	8	PRMN	.	M	5/ 5/79	018
GCAA005	06	5	1	1	1	1	1	1	2	4	15	.	.	.	8	PRMN	.	M	5/ 5/79	018
GCAA006	05	5	1	4	2	.	.	3	2	4	5	.	.	1	8	PRCM	.	M	5/ 6/79	018
GCAA007	07	4	1	1	1	1	1	1	2	4	10	.	.	.	8	PRCM	.	M	5/ 6/79	018
GCAA008	07	4	1	1	1	1	1	1	2	4	10	.	.	.	8	PRCM	.	M	5/ 6/79	018
GCAA009	07	3	4	1	1	1	1	1	2	1	10	.	.	.	8	QTRN	.	M	5/ 6/79	018
GCAA010	07	3	1	1	1	1	1	1	2	3	10	.	.	.	8	QTRN	.	M	5/ 6/79	018
GCAA011	07	3	4	1	1	1	1	1	2	2	10	.	.	.	8	QTRN	.	M	5/ 6/79	018
GCAA012	06	7	1	1	1	1	1	1	3	3	5	.	.	.	2	PRMN	.	M	5/ 7/79	018
GCAA013	06	9	1	1	1	1	1	1	3	3	5	.	.	1	8	PRMN	.	M	5/ 7/79	018
GCAA014	07	1	1	1	1	1	1	1	2	2	10	.	.	.	8	QTRN	.	M	5/ 7/79	018
GCAA015	08	9	1	1	1	1	1	1	1	4	10	.	.	.	1	PRMN	.	M	5/ 7/79	018
GCAA016	06	9	1	1	1	1	1	1	2	2	5	.	.	1	8	QTRN	.	M	5/ 8/79	018
GCAA017	06	9	1	1	1	1	1	1	2	1	10	.	.	.	8	QTRN	.	M	5/ 8/79	018
GCAA018	06	1	1	1	1	1	1	1	2	1	5	.	.	.	8	QTRN	.	M	5/ 8/79	018
GCAA019	07	1	1	1	1	1	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/ 8/79	018
GCAA020	07	1	1	1	1	1	1	1	2	2	10	.	.	.	8	QTRN	.	M	5/ 8/79	018
GCAA021	06	5	1	1	1	1	1	1	3	3	5	.	.	.	8	PRCM	.	M	5/ 8/79	018
GCAA022	07	1	1	1	1	1	1	1	2	2	10	.	.	.	8	QTRN	.	M	5/ 8/79	018
GCAA023	07	1	1	1	1	1	1	3	1	1	10	.	.	.	8	QTRN	.	M	5/ 8/79	018
GCAA024	06	5	1	1	1	1	1	1	1	5	5	.	.	8	8	PRCM	.	M	5/ 9/79	018
GCAA025	06	5	1	1	1	1	1	1	2	2	5	.	.	.	8	PRCM	.	M	5/ 9/79	018
GCAA026	05	1	1	5	2	.	.	2	1	2	5	.	.	.	8	QTRN	.	M	5/ 9/79	018
GCAA027	06	1	1	1	1	1	1	1	1	1	5	.	.	.	8	QTRN	.	M	5/ 9/79	018
GCAA028	07	9	1	1	1	1	1	3	2	2	10	.	.	.	8	QTRN	.	M	5/ 9/79	018
GCAA029	06	9	1	1	1	1	1	1	2	2	5	.	.	.	8	PRMN	.	M	5/ 10/79	018
GCAA030	07	9	1	1	1	1	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/ 10/79	018
GCAA031	07	1	1	1	1	1	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/ 10/79	018
GCAA032	07	9	1	1	1	1	1	3	2	4	10	.	.	1	8	PRMN	.	M	5/ 10/79	018
GCAA033	08	9	1	1	1	1	1	3	1	4	10	.	.	.	9	QTRN	.	M	5/ 11/79	018
GCAA034	07	3	1	1	1	1	1	1	2	4	10	.	.	.	8	QTRN	.	M	5/ 11/79	018
GCAA035	07	3	1	1	1	1	1	2	2	4	10	.	.	.	8	QTRN	.	M	5/ 11/79	018
GCA001	07	9	2	1	1	1	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/ 5/79	015
GCA002	07	9	2	1	1	1	1	3	2	4	10	.	.	.	8	PRMN	.	M	5/ 5/79	015
GCA003	06	7	2	1	1	1	1	3	2	3	10	.	.	.	8	TRSS	.	M	5/ 5/79	015
GCA004	06	9	2	1	1	1	1	3	2	3	10	.	.	.	8	PRMN	.	M	5/ 5/79	015
GCA005	06	9	2	1	1	1	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/ 5/79	015
GCA006	06	1	1	1	1	1	1	3	2	4	10	.	.	.	8	PRMN	.	M	5/ 5/79	015
GCA007	06	1	1	1	1	1	1	3	2	1	10	.	.	.	8	PRMN	.	M	5/ 6/79	015
GCA008	07	9	2	1	1	1	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/ 6/79	015
GCA009	07	9	3	1	1	1	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/ 6/79	015
GCA010	07	3	2	1	1	1	1	1	3	3	10	.	.	.	8	TRSS	.	M	5/ 10/79	015
GCA011	06	1	1	1	1	1	1	3	2	4	10	.	.	.	8	QTRN	.	M	5/ 8/79	015
GCA012	07	1	2	1	1	1	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/ 8/79	015
GCA013	07	3	2	1	1	1	1	3	2	2	10	.	.	.	8	QTRN	.	M	5/ 8/79	015
GCA014	07	3	3	1	1	1	1	2	2	3	10	.	.	.	8	QTRN	.	M	5/ 8/79	015
GCA015	07	3	2	1	1	1	1	3	2	2	10	.	.	.	8	QTRN	.	M	5/ 8/79	015

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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*****	S	R	S	S	S	S	V	V	R	C	C	C	C	F	O	H			
*****	A	O	E	T	T	T	E	E	E	O	O	O	O	R	D	A			
*****	M	C	D	R	R	R	O	O	L	M	N	N	N	H	O	R			
*****	P	K	S	W	D	D	T	T	L	P	A	A	A	A	A	T			
*****	T	T	I	I	E	E	P	P	E	S	M	M	M	M	M	O			
*****	Y	P	Z	D	T	T	T	T	E	I	N	N	N	N	N	N			
*****	P	E	E	H	H	H	L	L	L	T	1	2	3	4	8				
*****	E	E	E	H	H	H	L	L	L	T	1	2	3	4	8				
	07	1	3	1	1	1	3	2	2	10	.	.	.	8	1	QTRN		5/ 9/79	015
	07	1	3	1	1	1	3	1	1	10	.	.	.	8	1	QTRN		5/ 9/79	015
	07	1	3	1	1	1	3	2	2	10	.	.	.	8	1	QTRN		5/ 9/79	015
	07	1	3	1	1	1	3	2	2	10	.	.	.	1	8	QTRN		5/ 9/79	015
	07	1	3	1	1	1	3	2	2	10	.	.	.	1	8	QTRN		5/ 9/79	015
	07	1	3	1	1	1	3	2	2	10	.	.	.	1	8	QTRN		5/ 9/79	015
	07	9	2	1	1	1	3	2	2	10	.	.	.	1	8	PRRN		5/ 9/79	015
	07	7	2	1	1	1	3	2	2	10	.	.	.	1	8	TRSS		5/ 9/79	015
	07	9	2	1	1	1	3	2	2	10	.	.	.	8	1	PRRN		5/ 9/79	015
	07	9	2	1	1	1	3	2	2	10	.	.	.	8	1	PRRN		5/ 9/79	015
	07	1	2	1	1	1	3	2	2	10	.	.	.	1	8	QTRN		5/ 9/79	015
	07	7	2	1	1	1	3	1	1	10	.	.	.	8	8	TRSS		5/ 9/79	015
	07	1	2	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 9/79	015
	07	9	3	1	1	1	2	2	2	10	.	.	.	8	8	PRRN		5/ 9/79	015
	07	3	2	1	1	1	3	2	2	10	.	.	.	8	8	QTRN		5/ 9/79	015
	07	9	2	1	1	1	3	2	2	10	.	.	.	1	8	PRRN		5/ 9/79	015
	07	3	2	1	1	1	3	2	2	10	.	.	.	8	8	QTRN		5/10/79	015
	07	3	2	1	1	1	3	2	2	10	.	.	.	8	8	QTRN		5/10/79	015
	07	3	2	1	1	1	3	3	2	10	.	.	.	8	8	QTRN		5/10/79	015
	07	3	3	1	1	1	3	2	2	10	.	.	.	8	8	TRSS		5/10/79	015
	07	7	3	1	1	1	3	1	1	10	.	.	.	8	8	QTRN		5/ 5/79	013
	07	3	1	1	1	1	3	1	1	10	.	.	.	8	8	QTRN		5/ 5/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	KBBL		5/ 5/79	013
	07	3	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 5/79	013
	07	1	1	1	1	1	3	3	3	10	.	.	.	8	8	KBBL		5/ 5/79	013
	07	7	1	1	1	1	3	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	008
	07	7	1	1	1	1	3	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	008
	07	9	1	1	1	1	3	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	008
	07	7	3	1	1	1	3	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	008
	07	7	3	1	1	1	3	1	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	3	1	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	3	1	1	1	1	4	2	3	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	4	1	1	1	4	2	1	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	3	1	1	1	1	3	1	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	3	1	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	7	3	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	1	1	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013
	07	9	4	1	1	1	4	2	2	10	.	.	.	8	8	QTRN		5/ 6/79	013

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T I O N	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F R A C T I O N	O D O R	H A T T E M P	SAMPDATE	TEAM
GCAC031	07	9	1	1	1	.	1	3	1	2	10	.	.	.	8	KBBL	.	M	5/ 9/79	013
GCAC032	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/10/79	009
GCAC033	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/ 9/79	013
GCAC034	07	9	4	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/10/79	009
GCAC035	07	1	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/ 9/79	013
GCAC036	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/10/79	009
GCAC037	07	1	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/10/79	013
GCAC038	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/10/79	009
GCAC039	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/10/79	013
GCAC040	07	1	3	1	1	.	1	4	2	2	10	.	.	.	8	QTRN	.	M	5/10/79	013
GCAC041	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/10/79	013
GCAC042	07	1	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/10/79	013
GCAD001	07	3	3	1	1	.	1	4	2	3	10	.	.	7	8	TRSS	.	M	5/ 6/79	014
GCAD002	07	7	3	1	1	.	1	2	2	3	10	.	.	.	2	TRSS	.	M	5/ 6/79	014
GCAD003	07	7	3	1	1	.	1	2	2	3	10	.	.	.	2	TRSS	.	M	5/ 6/79	014
GCAD004	07	7	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 6/79	014
GCAD005	07	7	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 7/79	010
GCAD006	07	3	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 7/79	010
GCAD007	07	7	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 7/79	010
GCAD008	07	7	4	1	1	.	1	4	2	2	10	.	.	7	8	TRSS	.	M	5/ 7/79	010
GCAD009	07	3	3	1	1	.	1	4	2	1	10	.	.	.	6	TRSS	.	M	5/ 7/79	010
GCAD010	07	9	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 7/79	010
GCAD011	07	3	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 7/79	010
GCAD012	07	7	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 7/79	010
GCAD013	07	3	3	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/ 8/79	014
GCAD014	07	7	3	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/ 8/79	014
GCAD015	07	3	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 8/79	014
GCAD016	07	7	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 8/79	014
GCAD017	07	7	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 8/79	014
GCAD018	07	9	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 8/79	014
GCAD019	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 8/79	014
GCAD020	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/10/79	010
GCAD021	07	9	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 9/79	010
GCAD022	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 9/79	010
GCAD023	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 9/79	010
GCAD024	07	7	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 9/79	010
GCAD025	07	9	4	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 9/79	010
GCAD026	07	9	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 9/79	010
GCAD027	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/ 9/79	010
GCAD028	07	3	3	1	1	.	1	4	2	2	10	.	.	.	8	QTRN	.	M	5/ 9/79	010
GCAD029	07	9	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/ 9/79	010
GCAD030	07	3	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/10/79	010
GCAD031	07	9	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/10/79	010
GCAD032	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/10/79	010
GCAD033	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/10/79	010
GCAD034	07	7	3	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/10/79	010
GCAD035	07	7	4	1	1	.	1	4	2	3	10	.	.	.	8	TRSS	.	M	5/10/79	010
GCAD036	07	7	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/10/79	010
GCAD037	07	3	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	7/12/79	014
GCAD038	07	7	3	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	014

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL i.D.	S P T Y P E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T I O N	C O O N T A M E N T S	C O O N T A M E N T S	C O O N T A M E N T S	C O O N T A M E N T S	F R A M E W O R K	O D O R	W A T E R T E M P	SAMPDATE	TEAM
GCA0039	07		3	1	1	.	.	4	2	2	10	1	2	3	4	TRSS	.	M	5/12/79	014
GCA0040	07		3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/12/79	014
GCAE001	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	010
GCAE002	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	014
GCAE003	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	014
GCAE004	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	014
GCAE005	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE006	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE007	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE008	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE009	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE010	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE011	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE012	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE013	07	*	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/13/79	014
GCAE014	07	7	3	1	1	.	.	4	2	2	10	.	.	6	8	TRSS	.	M	5/14/79	014
GCAE015	07	7	3	1	1	.	.	4	2	2	10	.	.	.	7	TRSS	.	M	5/14/79	014
GCAE016	04	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/14/79	014
GCAE017	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/14/79	014
GCAE018	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/14/79	014
GCAE019	07	*	3	1	1	.	.	4	2	1	10	.	.	.	2	TRSS	.	M	5/14/79	014
GCAE020	07	*	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	7/14/79	014
GCAE021	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/14/79	014
GCAE022	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/14/79	014
GCAE023	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/15/79	014
GCAE024	07	6	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/15/79	014
GCAE025	07	*	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/15/79	014
GCAE026	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/15/79	014
GCAE027	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/15/79	014
GCAE028	07	*	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/14/79	014
GCAE029	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/15/79	014
GCAE030	07	7	3	1	1	.	.	4	2	2	10	.	.	.	1	TRSS	.	M	5/16/79	014
GCAE031	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/16/79	014
GCAE032	07	7	3	1	1	.	.	4	2	2	10	.	.	.	2	TRSS	.	M	5/16/79	014
GCAE033	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/16/79	012
GCAE034	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/16/79	014
GCAE035	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/16/79	014
GCAE036	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/16/79	014
GCAE037	07	*	4	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/16/79	014
GCAE038	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/16/79	014
GCAE039	07	*	3	1	1	.	.	4	2	1	10	.	.	.	8	TRSS	.	M	5/16/79	010
GCAE040	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	TRSS	.	M	5/17/79	014
GCAF001	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	MNKP	.	M	5/13/79	007
GCAF002	07	7	3	1	1	.	.	4	2	2	10	.	.	.	8	MNKP	.	M	5/13/79	007
GCAF003	07	7	1	1	1	.	.	4	2	2	10	.	.	.	8	MNKP	.	M	5/13/79	007
GCAF004	07	9	1	1	1	.	.	4	2	2	10	.	.	.	8	KBBL	.	M	5/13/79	007
GCAF005	07	8	1	1	1	.	.	4	2	1	10	.	.	.	8	MNKP	.	M	5/13/79	007
GCAF006	07	8	1	1	1	.	.	4	2	1	10	.	.	.	8	MNKP	.	M	5/13/79	007
GCAF007	07	8	1	1	1	.	.	4	2	1	10	.	.	.	8	MNKP	.	M	5/13/79	007
GCAF008	07	8	1	1	1	.	.	4	2	1	10	.	.	.	8	MNKP	.	M	5/13/79	007

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	SAMP	ROCK	SED	STR	STR	STR	STR	VE	VE	REL	C	C	C	C	F	O	W	SAMPDATE	TEAM
TYPE	TYPE	DSD	RHW	RDE	RFL	RLE	GT	GD	EF	OMP	CONT	CONT	CONT	CONT	RMAT	ODOR	TEMP		
PE	PE	ZE	IDT	PTH	LOW	VEL	YPE	ENS		OSIT	AMN	AMN	AMN	AMN	TON				
GCAF009	07	8	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/13/79	007
GCAF010	07	8	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/13/79	007
GCAF011	07	8	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/13/79	007
GCAF012	07	7	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/14/79	007
GCAF013	07	7	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/14/79	007
GCAF014	07	8	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/14/79	007
GCAF015	07	8	4	1	1	.	4	2	2	3	10	.	.	8	MNKP	.	M	5/14/79	007
GCAF016	07	8	4	1	1	.	4	2	2	3	10	.	.	8	MNKP	.	M	5/14/79	007
GCAF017	07	8	1	1	1	.	4	2	2	3	10	.	.	1	MNKP	.	M	5/14/79	007
GCAF018	07	7	3	1	1	.	4	2	2	3	10	.	.	1	MNKP	.	M	5/14/79	007
GCAF019	07	8	4	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/14/79	007
GCAF020	07	8	4	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/14/79	007
GCAF021	07	8	4	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/14/79	007
GCAF022	07	1	1	1	1	.	4	2	2	3	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF023	07	7	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF024	07	7	1	1	1	.	4	2	2	3	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF025	07	7	1	1	1	.	4	2	2	3	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF026	07	7	1	1	1	.	4	2	2	3	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF027	07	7	1	1	1	.	4	2	2	3	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF028	07	7	1	1	1	.	4	2	2	1	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF029	07	1	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF030	07	1	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF031	07	7	1	1	1	.	2	2	2	3	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF032	07	7	3	1	1	.	4	2	2	3	10	.	.	8	MNKP	.	M	5/15/79	007
GCAF033	07	7	3	1	1	.	2	2	2	4	10	.	.	8	MNKP	.	M	5/16/79	007
GCAF034	07	7	3	1	1	.	2	2	2	4	10	.	.	8	MNKP	.	M	5/16/79	007
GCAF035	07	7	3	1	1	.	1	2	2	3	10	.	.	8	MNKP	.	M	5/16/79	007
GCAF036	07	8	1	1	1	.	1	2	1	3	10	.	.	8	MNKP	.	M	5/16/79	007
GCAF037	07	7	1	1	1	.	2	1	1	3	10	.	.	8	MNKP	.	M	5/16/79	007
GCAF038	07	8	1	1	1	.	4	2	2	2	10	.	.	8	MNKP	.	M	5/16/79	007
GCAF039	08	7	3	1	1	.	1	2	2	3	10	.	.	8	MNKP	.	M	5/17/79	007
GCAF040	07	7	1	1	1	.	4	2	2	1	10	.	.	8	MNKP	.	M	5/17/79	007
GCAF041	07	7	3	1	1	.	2	2	2	2	10	.	.	8	MNKP	.	M	5/17/79	018
GCA001	07	8	4	1	1	.	3	2	1	2	10	.	.	8	MNKP	.	M	5/13/79	018
GCA002	07	8	4	1	1	.	4	2	1	1	10	.	.	8	MNKP	.	M	5/13/79	018
GCA003	08	1	4	1	1	.	3	2	1	2	10	.	.	8	MNKP	.	M	5/13/79	018
GCA004	07	9	1	1	1	.	1	3	2	2	10	.	.	8	KBBL	.	M	5/13/79	018
GCA005	07	9	1	1	1	.	1	3	2	1	10	.	.	8	KBBL	.	M	5/13/79	018
GCA006	07	9	1	1	1	.	1	3	2	2	10	.	.	8	KBBL	.	M	5/13/79	018
GCA007	07	9	1	1	1	.	1	3	2	1	10	.	.	8	KBBL	.	M	5/13/79	018
GCA008	07	9	1	1	1	.	2	2	2	2	10	.	.	8	KBBL	.	M	5/13/79	018
GCA009	07	9	1	1	1	.	1	2	2	1	10	.	.	1	KBBL	.	M	5/13/79	018
GCA010	07	9	1	1	1	.	1	2	2	2	10	.	.	1	KBBL	.	M	5/13/79	018
GCA011	07	9	1	1	1	.	1	2	2	1	10	.	.	8	KBBL	.	M	5/13/79	018
GCA012	07	9	1	1	1	.	1	2	2	1	10	.	.	8	KBBL	.	M	5/13/79	018
GCA013	07	9	1	1	1	.	1	2	2	1	10	.	.	8	KBBL	.	M	5/13/79	018
GCA014	07	9	1	1	1	.	1	2	2	1	10	.	.	8	KBBL	.	M	5/13/79	018
GCA015	07	9	1	1	1	.	1	2	1	2	10	.	.	8	KBBL	.	M	5/13/79	018
GCA016	07	9	1	1	1	.	1	2	1	2	10	.	.	8	KBBL	.	M	5/14/79	018
GCA017	07	9	1	1	1	.	1	3	2	1	10	.	.	8	KBBL	.	M	5/14/79	018

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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***** ***** SRL I.D. ***** ***** ***** *****	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R W I D T H	S T R D E P T H	S T R F L O W	S T R L E V E L	V E G E T Y P E	V E G E D E N S	R E L I E F	C O M P O S I T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F R A C T I O N	O D O R	H A T T E M P	SAMPDATE	TEAM
GCA0018	07	9	1	1	1	.	1	3	2	1	10	.	.	1	8	KBBL	.	M	5/14/79	018
GCA0019	07	9	1	1	1	.	1	3	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0020	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0021	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0022	07	9	1	1	1	.	1	1	1	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0023	07	9	1	1	1	.	1	1	1	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0024	07	8	4	1	1	.	1	1	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0025	06	8	1	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0026	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0027	07	8	4	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0028	07	8	4	1	1	.	1	3	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0029	07	8	4	1	1	.	1	1	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0030	07	9	1	1	1	.	1	2	1	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0031	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0032	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0033	07	8	4	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0034	07	9	1	1	1	.	1	2	1	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0035	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0036	07	9	1	1	1	.	1	1	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0037	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0038	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0039	07	9	1	1	1	.	1	3	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0040	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0041	07	8	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCA0042	07	8	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	018
GCAH001	07	9	1	1	1	.	1	2	2	3	10	.	.	.	2	KBBL	.	M	5/18/79	018
GCAH002	07	9	1	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/18/79	007
GCAH003	07	9	1	1	1	.	1	2	2	3	10	.	.	.	1	KBBL	.	M	5/18/79	018
GCAH004	07	7	3	1	1	.	1	4	2	4	10	.	.	.	8	TRSS	.	M	5/13/79	007
GCAH005	07	9	1	1	1	.	1	2	2	3	10	.	.	.	1	KBBL	.	M	5/18/79	018
GCAH006	07	9	1	1	1	.	1	1	2	2	10	.	.	.	8	KBBL	.	M	5/18/79	007
GCAH007	07	9	1	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/18/79	018
GCAH008	07	7	3	1	1	.	1	2	2	2	10	.	.	.	8	TRSS	.	M	5/18/79	007
GCAH009	07	9	1	1	1	.	1	2	2	2	10	.	.	.	2	KBBL	.	M	5/18/79	018
GCAH010	07	7	3	1	1	.	1	2	2	3	10	.	.	.	8	TRSS	.	M	5/18/79	007
GCAH011	07	9	1	1	1	.	1	2	2	1	10	.	.	.	1	KBBL	.	M	5/18/79	018
GCAH012	07	9	1	1	1	.	1	1	2	3	10	.	.	.	8	KBBL	.	M	5/18/79	007
GCAH013	07	9	1	1	1	.	1	2	2	2	10	.	.	.	2	KBBL	.	M	5/19/79	018
GCAH014	07	9	1	1	1	.	1	1	2	2	10	.	.	.	8	KBBL	.	M	5/18/79	007
GCAH015	07	9	1	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/19/79	018
GCAH016	07	7	3	1	1	.	1	2	1	1	10	.	.	.	8	TRSS	.	M	5/19/79	007
GCAH017	07	9	1	1	1	.	1	2	1	1	10	.	.	.	8	KBBL	.	M	5/19/79	018
GCAH018	07	7	3	1	1	.	1	2	1	2	10	.	.	.	8	TRSS	.	M	5/19/79	007
GCAH019	07	9	1	1	1	.	1	2	1	1	10	.	.	.	8	KBBL	.	M	5/19/79	018
GCAH020	07	7	3	1	1	.	1	2	1	3	10	.	.	.	8	TRSS	.	M	5/19/79	007
GCAH021	07	9	1	1	1	.	1	2	1	1	10	.	.	.	8	KBBL	.	M	5/19/79	018
GCAH022	07	9	1	1	1	.	1	1	1	4	10	.	.	.	8	KBBL	.	M	5/19/79	007
GCAH023	07	9	1	1	1	.	1	2	1	3	10	.	.	.	8	KBBL	.	M	5/19/79	018
GCAH024	01	9	1	1	1	.	1	1	2	3	10	.	.	.	8	KBBL	.	M	5/19/79	007
GCAH025	07	9	1	1	1	.	1	2	1	3	10	.	.	.	8	KBBL	.	M	5/19/79	018

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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S A M P L E	R O C K T Y P E	S E D I M E N T	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F O R M A T I O N	O D O R	W A T E R T E M P	SAMPDATE	TEAM
GCBA026	07	9	1	1	1	1	1	2	2	4	10	8	8	8	KBBL		M	5/19/79	007
GCBA027	07	9	1	1	1	1	1	2	2	4	10	8	8	8	KBBL		M	5/19/79	018
GCBA028	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	007
GCBA029	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	018
GCBA030	07	8	4	1	1	1	1	2	2	3	10	8	8	8	TRSS		M	5/19/79	007
GCBA031	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	018
GCBA032	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	007
GCBA033	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	018
GCBA034	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	007
GCBA035	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	018
GCBA036	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/20/79	018
GCBA037	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	018
GCBA038	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/20/79	018
GCBA039	07	9	1	1	1	1	1	2	2	4	10	8	8	8	KBBL		M	5/19/79	018
GCBA040	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/20/79	018
GCBA041	07	9	1	1	1	1	1	2	2	2	10	8	8	8	KBBL		M	5/19/79	018
GCBA042	07	9	1	1	1	1	1	2	2	2	10	8	8	8	KBBL		M	5/20/79	018
GCBA043	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/19/79	018
GCBA044	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/20/79	018
GCBA045	07	9	1	1	1	1	1	2	2	2	10	8	8	8	KBBL		M	5/20/79	018
GCBA046	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/20/79	018
GCBA047	07	9	1	1	1	1	1	2	2	3	10	8	8	8	KBBL		M	5/20/79	018
GCBA001	06	1	2	1	1	1	1	4	2	3	5	8	8	8	TRTR		M	5/ 5/79	016
GCBA002	06	7	2	1	1	1	1	4	2	3	5	8	8	8	CRTC		M	5/ 5/79	016
GCBA003	07	7	3	1	1	1	1	4	2	3	10	8	8	8	CRTC		M	5/ 5/79	016
GCBA004	07	7	3	1	1	1	1	4	2	3	10	8	8	8	CRTC		M	5/ 5/79	016
GCBA005	07	7	3	1	1	1	1	4	2	3	10	8	8	8	CRTC		M	5/ 5/79	016
GCBA006	07	7	3	1	1	1	1	2	2	3	10	8	8	8	CRTC		M	5/ 6/79	017
GCBA007	07	7	3	1	1	1	1	3	2	3	10	8	8	8	CRTC		M	5/ 6/79	017
GCBA008	07	9	2	1	1	1	1	3	2	3	10	8	8	8	TRTR		M	5/ 6/79	017
GCBA009	07	7	3	1	1	1	1	3	2	3	10	8	8	8	TRTR		M	5/ 6/79	017
GCBA010	07	7	3	1	1	1	1	3	2	3	10	8	8	8	TRTR		M	5/ 7/79	016
GCBA011	06	7	3	1	1	1	1	2	2	3	5	8	8	8	TRTR		M	5/ 7/79	016
GCBA012	07	7	3	1	1	1	1	3	2	3	10	8	8	8	TRTR		M	5/ 7/79	016
GCBA013	05	7	3	5	3	3	2	3	2	3	5	8	8	8	TRTR		M	5/ 7/79	016
GCBA014	05	7	3	5	2	2	2	3	2	3	5	8	8	8	TRTR		M	5/ 7/79	016
GCBA015	07	4	3	1	1	1	1	4	2	3	10	8	8	8	QTRN		M	5/ 8/79	017
GCBA016	07	4	3	1	1	1	1	4	2	3	10	8	8	8	QTRN		M	5/ 8/79	017
GCBA017	06	4	3	1	1	1	1	4	2	3	5	8	8	8	QTRN		M	5/ 8/79	017
GCBA018	07	4	3	1	1	1	1	4	2	3	10	8	8	8	QTRN		M	5/ 8/79	017
GCBA019	07	3	3	1	1	1	1	4	2	3	10	8	8	8	QTRN		M	5/ 8/79	017
GCBA020	07	3	3	1	1	1	1	4	2	3	10	8	8	8	QTRN		M	5/ 8/79	017
GCBA021	07	3	3	1	1	1	1	4	2	3	10	8	8	8	QTRN		M	5/ 8/79	017
GCBA022	07	7	3	1	1	1	1	4	2	4	10	8	8	8	TRTR		M	5/ 8/79	017
GCBA023	07	7	3	1	1	1	1	4	2	4	10	8	8	8	TRTR		M	5/ 8/79	017
GCBA024	07	7	3	1	1	1	1	4	2	3	10	8	8	8	TRTR		M	5/ 9/79	016
GCBA025	07	7	3	1	1	1	1	4	2	3	10	8	8	8	TRTR		M	5/ 9/79	016
GCBA026	07	7	3	1	1	1	1	2	2	3	10	8	8	8	TRTR		M	5/ 9/79	016
GCBA027	07	7	3	1	1	1	1	3	2	3	10	8	8	8	TRTR		M	5/ 9/79	016
GCBA028	07	7	3	1	1	1	1	4	2	3	10	8	8	8	TRTR		M	5/ 9/79	016

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F R A C T I O N	O D O R	W A T E R	SAMPDATE	TEAM
GCBA029	07	9	3	1	1	.	1	4	2	3	10	.	.	.	8	TRTR	.	M	5/ 9/79	016
GCBA030	07	9	3	1	1	.	1	4	4	4	10	.	.	.	8	TRTR	.	M	5/10/79	017
GCBA031	07	9	3	1	1	.	1	3	3	3	10	.	.	.	8	TRTR	.	M	5/10/79	017
GCBA032	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/10/79	017
GCBA033	07	7	3	1	1	.	1	4	4	3	10	.	.	.	8	TRTR	.	M	5/10/79	017
GCBA034	07	9	3	1	1	.	1	4	4	3	10	.	.	.	8	TRTR	.	M	5/10/79	017
GCBA035	07	3	2	1	1	.	1	4	4	2	10	.	.	.	8	QTRN	.	M	5/10/79	017
GCBB001	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/12/79	010
GCBB002	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/12/79	010
GCBB003	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/12/79	010
GCBB004	07	9	3	3	3	.	2	3	3	3	5	.	.	.	8	TRTR	.	M	5/12/79	010
GCBB005	07	9	3	1	1	.	1	3	3	3	10	.	.	.	8	TRTR	.	M	5/12/79	010
GCBB006	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/12/79	010
GCBB007	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/12/79	010
GCBB008	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/12/79	010
GCBB009	07	9	3	1	1	.	1	3	3	3	10	.	.	.	8	TRTR	.	M	5/12/79	010
GCBB010	07	7	3	1	1	.	1	3	3	3	10	.	.	.	8	TRTR	.	M	5/12/79	010
GCBB011	07	7	3	1	1	.	1	3	3	3	10	.	.	.	8	TRTR	.	M	5/12/79	010
GCBB012	07	7	3	1	1	.	1	3	3	3	10	.	.	.	8	TRTR	.	M	5/12/79	010
GCBB013	07	7	3	1	1	.	1	3	3	3	10	.	.	1	8	TRTR	.	M	5/12/79	010
GCBB014	07	9	3	3	3	.	2	3	3	3	5	.	.	1	8	TRTR	.	M	5/12/79	010
GCBB015	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	017
GCBB016	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	017
GCBB017	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	017
GCBB018	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	017
GCBB019	07	9	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	017
GCBB020	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	017
GCBB021	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	017
GCBB022	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	010
GCBB023	07	*	3	1	1	.	1	2	2	2	10	.	.	.	8	QTRN	.	M	5/13/79	010
GCBB024	07	*	3	1	1	.	1	2	2	2	10	.	.	.	8	QTRN	.	M	5/13/79	010
GCBB025	07	*	3	1	1	.	1	2	2	2	10	.	.	.	8	QTRN	.	M	5/13/79	010
GCBB026	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/13/79	010
GCBB027	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	010
GCBB028	07	*	3	1	1	.	1	3	3	3	10	.	.	.	8	QTRN	.	M	5/13/79	010
GCBB029	07	9	3	1	1	.	1	1	1	2	10	.	.	.	8	KBBL	.	M	5/12/79	016
GCBB030	07	9	3	1	1	.	1	4	4	2	10	.	.	.	8	KBBL	.	M	5/12/79	016
GCBB031	07	9	3	1	1	.	1	1	1	1	10	.	.	.	9	KBBL	.	M	5/12/79	016
GCBB032	07	9	3	1	1	.	1	1	1	1	10	.	.	.	8	KBBL	.	M	5/12/79	016
GCBB033	07	7	3	1	1	.	1	1	1	1	10	.	.	.	8	HNBKP	.	M	5/12/79	016
GCBB034	07	9	3	1	1	.	1	1	1	1	10	.	.	.	8	KBBL	.	M	5/12/79	016
GCBB035	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/13/79	016
GCBB036	07	*	4	1	1	.	1	1	1	1	10	.	.	.	8	QTRN	.	M	5/13/79	016
GCBB037	07	9	4	1	1	.	1	4	4	2	10	.	.	.	8	KBBL	.	M	5/13/79	016
GCBB038	07	9	4	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/13/79	016
GCBB039	07	9	4	1	1	.	1	4	4	2	10	.	.	.	8	KBBL	.	M	5/13/79	016
GCBB040	07	9	3	1	1	.	1	1	1	1	10	.	.	.	8	KBBL	.	M	5/13/79	016
GCBB041	07	9	4	1	1	.	1	1	1	1	10	.	.	.	8	KBBL	.	M	5/13/79	016
GCBB042	07	*	4	1	1	.	1	4	4	2	10	.	.	.	8	QTRN	.	M	5/14/79	016
GCBC001	07	1	1	1	1	.	1	4	4	1	10	.	.	.	8	QTRN	.	M	5/12/79	013

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	SAMPLE TYPE	ROCK TYPE	SEDIMENT	STRWIDT	STRDEPT	STRFLOW	STRLEVE	V E G E T Y P E	V E G E D E N S	R E L I E F	C O M P O S I T	C O N T A M I N	C O N T A M I N	C O N T A M I N	C O N T A M I N	F R M A T I O N	D O R	W A T E R T E M P	SAMPDATE	TEAM
GCBC002	07	9	4	1	1	.	1	3	3	1	10	.	.	.	8	KBBL	.	M	5/11/79	029
GCBC003	07	1	1	1	1	.	1	4	2	2	10	.	.	.	8	QTNR	.	M	5/12/79	013
GCBC004	07	9	4	1	1	.	1	3	3	1	10	.	.	.	8	KBBL	.	M	5/11/79	008
GCBC005	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/12/79	013
GCBC006	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/11/79	006
GCBC007	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/12/79	013
GCBC008	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/11/79	008
GCBC009	07	1	1	1	1	.	1	4	2	2	10	.	.	.	8	QTNR	.	M	5/12/79	013
GCBC010	06	9	1	1	1	.	1	3	2	2	7	.	.	.	8	KBBL	.	M	5/11/79	008
GCBC011	07	1	1	1	1	.	1	4	2	1	10	.	.	.	8	QTNR	.	M	5/12/79	013
GCBC012	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/11/79	008
GCBC013	07	1	1	1	1	.	1	4	2	1	10	.	.	.	8	QTNR	.	M	5/12/79	013
GCBC014	07	9	4	1	1	.	1	4	2	1	10	.	.	.	8	TRSG	.	M	5/11/79	008
GCBC015	07	9	1	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/13/79	013
GCBC016	07	9	4	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/11/79	008
GCBC017	07	3	1	1	1	.	1	4	2	1	10	.	.	.	8	QTNR	.	M	5/12/79	013
GCBC018	07	9	4	1	1	.	1	3	2	1	10	.	.	.	8	UNKN	.	M	5/11/79	008
GCBC019	07	9	1	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/12/79	013
GCBC020	07	9	4	1	1	.	1	3	3	2	10	.	.	.	8	KBBL	.	M	5/11/79	008
GCBC021	07	9	4	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/12/79	013
GCBC022	07	9	1	1	1	.	1	4	3	2	10	.	.	.	8	UNKN	.	M	5/11/79	008
GCBC023	07	9	1	1	1	.	1	4	2	4	10	.	.	.	8	KBBL	.	M	5/12/79	013
GCBC024	07	9	4	1	1	.	1	4	3	1	10	.	.	.	8	UNKN	.	M	5/11/79	008
GCBC025	07	9	1	1	1	.	1	4	2	4	10	.	.	.	8	KBBL	.	M	5/12/79	013
GCBC026	07	9	4	1	1	.	1	4	3	2	10	.	.	.	8	UNKN	.	M	5/13/79	008
GCBC027	07	9	1	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/13/79	013
GCBC028	07	9	4	1	1	.	1	4	2	1	10	.	.	.	8	UNKN	.	M	5/13/79	008
GCBC029	07	9	1	1	1	.	1	4	3	1	10	.	.	.	8	KBBL	.	M	5/13/79	013
GCBC030	07	9	4	1	1	.	1	4	3	2	10	.	.	.	8	UNKN	.	M	5/13/79	008
GCBC031	07	1	1	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/13/79	013
GCBC032	06	7	4	1	1	.	1	4	1	6	10	.	.	.	8	UNKN	.	M	5/13/79	008
GCBC033	07	9	1	1	1	.	1	4	3	1	10	.	.	.	8	KBBL	.	M	5/13/79	013
GCBC034	07	7	4	1	1	.	1	4	1	1	10	.	.	.	8	UNKN	.	M	5/13/79	008
GCBC035	07	1	1	1	1	.	1	4	3	12	10	.	.	.	8	QTNR	.	M	5/13/79	013
GCBC036	07	9	4	1	1	.	1	4	1	1	10	.	.	.	8	UNKN	.	M	5/13/79	008
GCBC037	07	9	1	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/13/79	013
GCBD001	07	9	1	1	1	.	1	3	3	3	10	.	.	.	8	KBBL	.	M	5/14/79	013
GCBD002	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	013
GCBD003	07	9	4	1	1	.	1	3	2	2	10	.	.	.	8	QTNR	.	M	5/14/79	013
GCBD004	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	013
GCBD005	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	013
GCBD006	07	9	4	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	013
GCBD007	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	013
GCBD008	07	1	3	1	1	.	1	4	2	2	10	.	.	.	8	QTNR	.	M	5/14/79	013
GCBD009	07	9	4	1	1	.	1	3	3	1	10	.	.	.	8	KBBL	.	M	5/14/79	013
GCBD010	07	9	4	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	013
GCBD011	07	9	3	1	1	.	1	3	2	3	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD012	07	9	3	1	1	.	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD013	07	9	3	1	1	.	1	3	2	3	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD014	07	9	3	1	1	.	1	3	2	3	10	.	.	.	8	KBBL	.	M	5/17/79	013

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	SAMPLE TYPE	ROCK TYPE	SEDIMENT	STRMIDT	STRDEPT	STRFLOW	STRLEVEL	VEGETYPE	VEGDENS	RELIEF	COMPOSITION	CONTAMINANT 1	CONTAMINANT 2	CONTAMINANT 3	CONTAMINANT 4	FRMATION	ODOR	WATERTEMP	SAMPDATE	TEAM
GCBD015	07	9	3	1	1	.	1	3	2	3	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD016	07	9	3	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD017	07	3	3	1	1	.	1	4	2	2	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD018	07	9	4	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD019	07	*	3	1	1	.	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD020	07	*	1	1	1	.	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD021	07	6	1	1	1	.	1	4	2	1	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD022	07	9	1	1	1	.	1	3	2	3	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD023	07	*	1	1	1	.	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD024	07	*	1	1	1	.	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/17/79	012
GCBD025	07	6	3	1	1	.	1	4	2	1	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD026	07	6	3	1	1	.	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD027	07	7	4	1	1	.	1	3	2	3	10	.	.	.	8	CCNN	.	M	5/17/79	013
GCBD028	07	7	3	1	1	.	1	3	2	3	10	.	.	.	8	CCNN	.	M	5/17/79	013
GCBD029	07	*	4	1	1	.	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD030	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD031	07	3	1	1	1	.	1	3	2	3	10	.	.	.	8	QTRN	.	M	5/17/79	013
GCBD032	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD033	07	9	3	1	1	.	1	3	2	3	10	.	.	.	8	KBBL	.	M	5/17/79	013
GCBD034	07	*	4	1	1	.	1	4	2	1	10	.	.	.	8	QTRN	.	M	5/19/79	013
GCBD035	07	*	4	1	1	.	1	4	2	1	10	.	.	.	8	QTRN	.	M	5/19/79	013
GCBD036	07	*	4	1	1	.	1	4	2	1	10	.	.	.	8	QTRN	.	M	5/19/79	013
GCBD037	07	3	1	1	1	.	1	4	2	3	10	.	.	.	8	QTRN	.	M	5/19/79	013
GCBD038	07	*	4	1	1	.	1	3	2	2	10	.	.	.	8	QTRN	.	M	5/19/79	013
GCBD039	07	*	4	1	1	.	1	4	2	1	10	.	.	.	8	QTRN	.	M	5/19/79	013
GCBD040	07	*	4	1	1	.	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/19/79	013
GCBE001	07	7	1	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE002	07	7	1	1	1	.	1	4	2	1	10	.	.	.	8	PRMN	.	M	5/12/79	009
GCBE003	07	9	4	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE004	07	7	1	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE005	07	7	4	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE006	07	7	4	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE007	07	7	4	1	1	.	1	3	2	2	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE008	07	7	4	1	1	.	1	4	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE009	07	7	4	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE010	07	7	4	1	1	.	1	3	1	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE011	07	9	4	1	1	.	1	3	1	2	10	.	.	.	8	PRMN	.	M	5/12/79	009
GCBE012	07	7	4	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/12/79	009
GCBE013	07	7	3	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/13/79	009
GCBE014	07	7	3	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/13/79	009
GCBE015	07	7	4	1	1	.	1	4	2	2	10	.	.	.	8	TRSS	.	M	5/13/79	009
GCBE016	07	7	1	1	1	.	1	3	2	2	10	.	.	.	8	TRTR	.	M	5/13/79	009
GCBE017	07	1	1	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/13/79	009
GCBE018	07	7	4	1	1	.	1	3	2	2	10	.	.	.	8	TRTR	.	M	5/13/79	009
GCBE019	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/13/79	009
GCBE020	07	1	4	1	1	.	1	3	1	1	10	.	.	.	8	TRTR	.	M	5/13/79	009
GCBE021	07	1	4	1	1	.	1	4	2	1	10	.	.	.	8	TRTR	.	M	5/13/79	009
GCBE022	07	7	4	2	2	.	2	3	1	2	5	.	.	.	8	TRTR	.	M	5/13/79	009
GCBE023	07	1	4	1	1	.	1	3	2	1	10	.	.	.	8	TRTR	.	M	5/13/79	009
GCBE024	07	1	1	1	1	.	1	4	2	1	10	.	.	.	8	TRTR	.	M	5/14/79	009

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T I O N	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F R A C T I O N	O D O R	W A T E R T E M P	SAMPDATE	TEAM
GCBE 025	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	PRMN	.	M	5/14/79	009
GCBE 026	07	1	1	1	1	.	1	3	2	1	10	.	.	.	8	TRTR	.	M	5/14/79	009
GCBE 027	07	3	1	1	1	.	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/14/79	009
GCBE 028	07	3	1	1	1	.	1	4	2	1	10	.	.	.	8	QTRN	.	M	5/14/79	009
CCBE 029	07	1	1	1	1	.	1	4	2	1	10	.	.	.	8	TRTR	.	M	5/14/79	009
GCBE 030	07	1	1	1	1	.	1	4	2	1	10	.	.	.	8	TRTR	.	M	5/14/79	009
GCBE 031	07	9	4	1	1	.	1	3	2	1	10	.	.	.	8	PRMN	.	M	5/15/79	009
GCBE 032	07	7	1	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/15/79	009
GCBE 033	07	7	1	1	1	.	1	3	2	2	10	.	.	.	8	TRSS	.	M	5/15/79	009
GCBE L 4	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	009
GCBE 035	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	009
GCBE 036	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	009
GCBE 037	08	9	1	1	1	.	1	3	4	4	10	.	.	.	8	PRMN	.	M	5/15/79	009
GCBE 038	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	009
GCBE 039	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	009
GCBE 040	07	7	1	1	1	.	1	3	2	1	10	.	.	.	8	TRSS	.	M	5/16/79	009
GCBE 041	07	7	4	1	1	.	1	3	2	1	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 001	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 002	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 003	07	7	3	1	1	.	1	3	2	1	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 004	07	7	3	1	1	.	1	3	2	1	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 005	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 006	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 007	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 008	07	7	3	1	1	.	1	3	2	1	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 009	07	7	3	1	1	.	1	3	3	3	10	.	.	.	8	UNKN	.	M	5/11/79	015
OCBF 010	07	7	3	1	1	.	1	3	2	1	10	.	.	.	8	UNKN	.	M	5/13/79	015
OCBF 011	07	7	3	1	1	.	1	3	2	1	10	.	.	.	8	UNKN	.	M	5/13/79	015
OCBF 012	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	015
OCBF 013	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	015
OCBF 014	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	015
OCBF 015	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/14/79	015
OCBF 016	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	PRMN	.	M	5/14/79	015
OCBF 017	07	9	3	1	1	.	1	3	2	1	10	.	.	.	8	PRMN	.	M	5/14/79	015
OCBF 018	07	9	3	1	1	.	1	3	3	3	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 019	07	9	3	1	1	.	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 020	07	9	3	1	1	.	1	3	2	1	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 021	07	9	3	1	1	.	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 022	07	9	3	1	1	.	1	3	1	1	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 023	07	9	3	1	1	.	1	3	3	3	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 024	07	9	3	1	1	.	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 025	07	9	3	1	1	.	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 026	07	9	3	1	1	.	1	3	2	4	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 027	07	9	3	1	1	.	1	3	4	4	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 028	07	9	3	1	1	.	1	3	1	1	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 029	07	9	3	1	1	.	1	3	3	3	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 030	07	9	3	1	1	.	1	3	3	3	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 031	07	9	3	1	1	.	1	3	1	1	10	.	.	.	8	PRMN	.	M	5/15/79	015
OCBF 032	07	9	3	1	1	.	1	3	2	2	10	.	.	1	8	PRMN	.	M	5/15/79	015
OCBF 033	07	7	3	1	1	.	1	3	4	4	10	.	.	1	8	UNKN	.	M	5/15/79	015

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T I O N	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F R A C T I O N	O D O R	H A T T E M P	SAMPDATE	TEAM	

SRL I.D.																					

OCBF034	07	9	3	1	1	1	1	3	2	1	10	.	.	.	8	PRMN	.	M	5/15/79	015	
OCBF035	07	9	3	1	1	1	1	3	2	4	10	.	.	.	8	PRMN	.	M	5/15/79	015	
OCBF031	07	9	3	1	1	1	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	015	
OCBF037	07	9	3	1	1	1	1	3	2	2	10	.	.	.	8	PRMN	.	M	5/15/79	015	
OCBF038	07	7	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/16/79	015	
OCBF039	07	7	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/16/79	015	
OCBF040	07	7	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/16/79	015	
OCBF041	07	7	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/16/79	015	
OCBF042	07	7	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/16/79	015	
OCB001	07	9	2	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/12/79	011	
OCB002	07	9	2	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/12/79	011	
OCB003	07	1	5	1	1	1	1	2	2	2	10	.	.	.	8	QTRN	.	M	5/12/79	011	
OCB004	07	9	5	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/12/79	011	
OCB005	07	9	5	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/12/79	011	
OCB006	07	9	5	1	1	1	1	2	2	1	10	.	.	.	8	UNKN	.	M	5/12/79	011	
OCB007	07	9	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	011	
OCB008	07	9	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	011	
OCB009	07	9	2	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	011	
OCB010	07	9	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	011	
OCB011	07	1	4	1	1	1	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/13/79	011	
OCB012	07	9	3	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	011	
OCB013	08	1	2	1	1	1	1	3	3	3	10	.	.	.	8	UNKN	.	M	5/13/79	011	
OCB014	08	9	2	1	1	1	1	3	3	3	10	.	.	.	8	UNKN	.	M	5/13/79	011	
OCB015	07	1	3	1	1	1	1	3	3	1	10	.	.	1	8	QTRN	.	M	5/13/79	011	
OCB016	07	9	2	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/13/79	011	
OCB017	07	1	4	1	1	1	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/13/79	011	
OCB018	07	9	4	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB019	07	9	4	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB020	07	9	4	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB021	07	9	4	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB022	07	7	4	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB023	07	9	4	1	1	1	1	3	2	2	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB024	07	9	2	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB025	07	9	2	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB026	07	7	2	1	1	1	1	2	2	1	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB027	07	7	2	1	1	1	1	2	2	1	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB028	07	7	2	1	1	1	1	2	2	3	10	.	.	.	8	UNKN	.	M	5/14/79	011	
OCB029	08	7	5	1	1	1	1	2	2	3	10	.	.	.	2	UNKN	.	M	5/15/79	011	
OCB030	08	7	2	1	1	1	1	3	2	4	10	.	.	.	2	UNKN	.	M	5/15/79	011	
OCB031	07	7	2	1	1	1	1	2	2	3	10	.	.	.	8	UNKN	.	M	5/15/79	011	
OCB032	07	7	5	1	1	1	1	2	2	1	10	.	.	.	1	UNKN	.	M	5/15/79	011	
OCB033	07	7	5	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/15/79	011	
OCB034	07	7	5	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/15/79	011	
OCB035	07	7	5	1	1	1	1	2	2	1	10	.	.	.	8	UNKN	.	M	5/16/79	011	
OCB036	07	7	5	1	1	1	1	2	2	1	10	.	.	.	8	UNKN	.	M	5/16/79	011	
OCB037	07	7	1	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/16/79	011	
OCB038	07	7	1	1	1	1	1	2	2	3	10	.	.	.	8	UNKN	.	M	5/16/79	011	
OCB039	07	7	1	1	1	1	1	2	2	2	10	.	.	.	8	UNKN	.	M	5/16/79	011	
OCB040	07	9	3	1	1	1	1	2	3	2	10	.	.	.	8	UNKN	.	M	10/25/79	044	
OCB041	07	9	3	1	1	1	1	2	3	2	10	.	.	.	8	UNKN	.	M	10/25/79	044	

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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***** ***** ***** ***** ***** ***** ***** *****	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E L O C I T Y	V E L O C I T Y	R E L I E F	C O M P O S I T I O N	C O N T A M I N T S	C O N T A M I N T S	C O N T A M I N T S	C O N T A M I N T S	F R A C T I O N	O R D E R	W A T E R T E M P	SAMPDATE	TEAM
GCBG042	07	9	3	1	1	.	.	2	3	2	10	.	.	.	8	UNKN	.	M	10/25/79	044
GCBG043	07	9	3	1	1	.	.	2	3	2	10	.	.	.	8	UNKN	.	M	10/25/79	044
GCBG044	07	9	3	1	1	.	.	2	3	2	10	.	.	.	8	UNKN	.	M	10/25/79	044
GCBG045	07	9	3	1	1	.	.	2	3	2	10	.	.	.	8	UNKN	.	M	10/25/79	044
OCBH001	07	1	1	1	1	.	.	2	2	2	10	.	.	.	1	KBBL	.	M	5/18/79	011
OCBH002	07	9	4	1	1	.	.	2	3	3	10	.	.	.	2	KBBL	.	M	5/18/79	015
OCBH003	06	1	4	1	1	.	.	2	3	1	10	.	.	.	8	QTRN	.	M	5/18/79	011
OCBH004	07	9	4	1	1	.	.	2	2	2	10	.	.	.	2	KBBL	.	M	5/18/79	015
OCBH005	06	1	1	1	1	.	.	2	3	1	10	.	.	.	8	UNKN	.	M	5/18/79	011
OCBH006	07	9	4	1	1	.	.	2	2	4	10	.	.	.	1	KBBL	.	M	5/18/79	015
OCBH007	07	1	1	1	1	.	.	2	3	3	10	.	.	.	2	QTRN	.	M	5/18/79	011
OCBH008	07	9	4	1	1	.	.	2	2	1	10	.	.	.	8	KBBL	.	M	5/18/79	011
OCBH009	07	1	1	1	1	.	.	2	2	2	10	.	.	.	8	UNKN	.	M	5/18/79	015
OCBH010	07	9	4	1	1	.	.	2	2	2	10	.	.	.	8	KBBL	.	M	5/18/79	015
OCBH011	06	1	1	1	1	.	.	2	3	2	10	.	.	.	8	QTRN	.	M	5/18/79	011
OCBH012	06	9	4	1	1	.	.	2	3	3	10	.	.	.	8	KBBL	.	M	5/18/79	015
OCBH013	06	1	1	1	1	.	.	2	3	1	10	.	.	.	8	QTRN	.	M	5/18/79	011
OCBH014	06	9	4	1	1	.	.	2	2	3	10	.	.	.	2	KBBL	.	M	5/18/79	015
OCBH015	06	1	1	1	1	.	.	2	2	2	10	.	.	.	8	QTRN	.	M	5/18/79	011
OCBH016	06	9	4	1	1	.	.	2	2	3	10	.	.	.	1	KBBL	.	M	5/18/79	015
OCBH017	07	1	1	1	1	.	.	2	2	1	10	.	.	.	8	QTRN	.	M	5/18/79	011
OCBH018	07	9	4	1	1	.	.	2	2	2	10	.	.	.	8	KBBL	.	M	5/18/79	015
OCBH019	07	1	1	1	1	.	.	2	2	1	10	.	.	.	8	QTRN	.	M	5/18/79	011
OCBH020	06	9	4	1	1	.	.	2	2	3	10	.	.	.	8	KBBL	.	M	5/18/79	015
OCBH021	07	1	1	1	1	.	.	2	3	1	10	.	.	.	8	QTRN	.	M	5/18/79	011
OCBH022	07	9	4	1	1	.	.	2	2	2	10	.	.	.	8	KBBL	.	M	5/18/79	015
OCBH023	07	1	1	1	1	.	.	2	3	2	10	.	.	.	8	QTRN	.	M	5/18/79	011
OCBH024	06	9	4	1	1	.	.	2	2	3	10	.	.	.	8	KBBL	.	M	5/19/79	015
OCBH025	07	1	1	1	1	.	.	2	2	2	10	.	.	.	8	QTRN	.	M	5/19/79	011
OCBH026	06	9	4	1	1	.	.	2	3	3	10	.	.	.	8	KBBL	.	M	5/19/79	015
OCBH027	07	1	1	1	1	.	.	2	2	2	10	.	.	.	8	QTRN	.	M	5/19/79	011
OCBH028	07	9	4	1	1	.	.	2	3	3	10	.	.	.	1	KBBL	.	M	5/19/79	015
OCBH029	06	1	1	1	1	.	.	2	2	2	10	.	.	.	8	QTRN	.	M	5/19/79	011
OCBH030	06	9	4	1	1	.	.	2	3	3	10	.	.	.	8	KBBL	.	M	5/19/79	015
OCBH031	07	1	1	1	1	.	.	2	3	1	10	.	.	.	8	QTRN	.	M	5/19/79	011
OCBH032	05	9	4	4	2	.	.	2	2	3	10	.	.	.	1	KBBL	.	M	5/19/79	015
OCBH033	07	7	1	1	1	.	.	2	3	2	10	.	.	.	8	UNKN	.	M	5/19/79	011
OCBH034	06	9	4	1	1	.	.	2	3	3	10	.	.	.	8	KBBL	.	M	5/20/79	015
OCBH035	06	7	1	1	1	.	.	2	3	1	10	.	.	.	1	UNKN	.	M	5/20/79	011
OCBH036	06	9	4	1	1	.	.	2	3	3	10	.	.	.	8	KBBL	.	M	5/20/79	015
OCBH037	06	1	1	1	1	.	.	2	3	1	10	.	.	.	8	QTRN	.	M	5/20/79	011
OCBH038	06	9	4	1	1	.	.	2	2	2	10	.	.	.	8	KBBL	.	M	5/20/79	015
OCBH039	06	7	1	1	1	.	.	2	3	2	10	.	.	.	8	UNKN	.	M	5/20/79	011
OCBH040	06	9	4	1	1	.	.	2	3	3	10	.	.	.	8	KBBL	.	M	5/20/79	015
OCBH041	08	7	1	1	1	.	.	2	3	1	10	.	.	.	8	UNKN	.	M	5/20/79	011
OCBA001	07	7	3	1	1	.	.	2	2	4	10	.	.	.	8	CCNN	.	M	5/14/79	017
OCBA002	07	7	3	1	1	.	.	2	2	2	10	.	.	.	8	CCNN	.	M	5/18/79	013
OCBA003	07	9	3	1	1	.	.	2	3	1	10	.	.	.	8	KBBL	.	M	5/15/79	017
OCBA004	07	4	3	1	1	.	.	2	3	1	10	.	.	.	8	QTRN	.	M	5/15/79	017
OCBA005	07	4	3	1	1	.	.	2	3	3	10	.	.	.	8	QTRN	.	M	5/15/79	017

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	SAMP TYPE	ROCK TYPE	SEDS IZ	STRW IDT	STRDEPT	STRFLOW	STRLEV	VEGTYP	VEGDENS	RELIEF	COMP	CONNT	CONNT	CONNT	CONNT	FRTM	ODOR	WATR	SAMPDATE	TEAM
GCCA006	07	9	3	1	1	.	1	4	2	3	10	.	.	.	8	KBBL	.	M	5/15/79	017
GCCA007	07	6	3	1	1	.	1	4	2	3	10	.	.	.	8	TRTR	.	M	5/15/79	017
GCCA008	07	4	3	1	1	.	1	4	2	3	10	.	.	.	8	QTRN	.	M	5/15/79	017
GCCA009	07	9	2	1	1	.	1	4	2	3	10	.	.	.	8	KBBL	.	M	5/15/79	017
GCCA010	07	7	3	1	1	.	1	4	2	3	10	.	.	.	8	TRTR	.	M	5/16/79	013
GCCA011	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA012	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA013	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA014	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA015	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA016	07	9	1	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA017	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA018	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA019	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA020	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA021	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/16/79	013
GCCA022	07	3	3	1	1	.	1	4	2	2	10	.	.	7	8	QTRN	.	M	5/15/79	013
GCCA023	07	1	1	1	1	.	1	3	2	2	10	.	.	.	8	QTRN	.	M	5/15/79	013
GCCA024	07	6	1	1	1	.	1	3	2	2	10	.	.	.	8	QTRN	.	M	5/15/79	013
GCCA025	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/15/79	013
GCCA026	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/15/79	013
GCCA027	06	3	3	1	1	.	1	3	2	2	5	.	.	.	8	QTRN	.	M	5/15/79	013
GCCA028	07	3	1	1	1	.	1	3	2	2	10	.	.	.	8	QTRN	.	M	5/16/79	013
GCCA029	07	3	1	1	1	.	1	4	2	2	10	.	.	.	8	QTRN	.	M	5/16/79	013
GCCA030	08	7	1	1	1	.	1	3	2	2	10	.	.	5	8	CCNN	.	M	5/18/79	013
GCCA031	07	9	1	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/18/79	013
GCCA032	07	9	3	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/18/79	013
GCCA033	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	CCNN	.	M	5/18/79	013
GCCA034	07	7	3	1	1	.	1	3	2	2	10	.	.	.	8	CCNN	.	M	5/18/79	013
GCCA035	07	9	3	1	1	.	1	3	2	2	10	.	.	.	8	KBBL	.	M	5/20/79	017
GCCB001	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	016
GCCB002	07	9	4	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	016
GCCB003	07	3	2	1	1	.	1	2	2	1	10	.	.	.	8	QTRN	.	M	5/14/79	016
GCCB004	07	9	4	1	1	.	1	1	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	016
GCCB005	07	9	3	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	016
GCCB006	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M	5/14/79	016
GCCB007	07	9	3	1	1	.	1	1	2	1	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB008	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/14/79	016
GCCB009	07	9	3	1	1	.	1	4	2	1	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB010	07	9	4	1	1	.	1	2	2	3	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB011	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB012	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB013	07	9	2	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB014	07	9	4	1	1	.	1	2	2	3	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB015	07	9	4	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB016	07	9	4	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB017	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB018	07	9	4	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB019	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M	5/15/79	016
GCCB020	07	9	3	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M	5/16/79	016

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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S R L I D. P T Y P E	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T I O N	C O N T A M I N T S	C O N T A M I N T S	C O N T A M I N T S	C O N T A M I N T S	F O O D R A T I O N	O D O R	H A T T E M P	SAMPDATE	TEAM
GCCC032	07	*	3	1	1	.	.	4	2	4	10	.	.	.	8	QTRN	.	M	5/17/79	010
GCCC033	07	9	3	1	1	.	.	2	2	2	10	.	.	.	8	KBBL	.	M	5/17/79	010
GCCC034	07	9	3	1	1	.	.	2	2	1	10	.	.	.	8	KBBL	.	M	5/17/79	010
GCCC035	07	9	3	1	1	.	.	2	2	2	10	.	.	.	8	KBBL	.	M	5/17/79	010
GCCC036	07	7	3	1	1	.	.	2	2	3	10	.	.	.	8	CCNN	.	M	5/17/79	010
GCCC037	07	9	3	1	1	.	.	2	2	2	10	.	.	.	8	KBBL	.	M	5/17/79	010
GCCC038	07	3	3	1	1	.	.	2	2	2	10	.	.	.	8	QTRN	.	M	5/17/79	010
GCCC039	07	9	3	1	1	.	.	2	2	2	10	.	.	.	8	KBBL	.	M	5/17/79	010
GCCC040	07	9	3	1	1	.	.	2	2	1	10	.	.	.	8	KBBL	.	M	5/17/79	010
GCCD001	07	3	4	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/14/79	008
GCCD002	07	3	4	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/14/79	008
GCCD003	07	3	4	1	1	.	.	1	1	2	10	.	.	.	2	QTRN	.	M	5/14/79	008
GCCD004	07	3	1	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/14/79	008
GCCD005	07	3	1	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/14/79	008
GCCD006	07	3	4	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/14/79	008
GCCD007	07	3	4	1	1	.	.	1	1	2	10	.	.	.	8	QTRN	.	M	5/14/79	008
GCCD008	07	3	1	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/14/79	008
GCCD009	07	9	1	1	1	.	.	1	1	3	10	.	.	.	8	TRWP	.	M	5/15/79	008
GCCD010	01	3	1	1	1	.	.	1	1	1	10	.	.	.	2	QTRN	.	M	5/15/79	008
GCCD011	07	*	4	1	1	.	.	1	1	4	10	.	.	.	8	QTRN	.	M	5/15/79	008
GCCD012	07	3	1	1	1	.	.	1	1	3	10	.	.	.	8	TRTR	.	M	5/15/79	008
GCCD013	07	9	1	1	1	.	.	1	1	3	10	.	.	.	8	KBBL	.	M	5/15/79	008
GCCD014	07	3	1	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/15/79	008
GCCD015	07	3	1	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/15/79	008
GCCD016	07	3	1	1	1	.	.	1	1	2	10	.	.	.	2	QTRN	.	M	5/15/79	008
GCCD017	07	3	4	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/15/79	008
GCCD018	07	3	1	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/15/79	008
GCCD019	07	9	4	1	1	.	.	1	1	3	10	.	.	.	8	MSSS	.	M	5/16/79	008
GCCD020	07	*	1	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/16/79	008
GCCD021	07	3	1	1	1	.	.	1	1	2	10	.	.	.	8	QTRN	.	M	5/16/79	008
GCCD022	07	3	1	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/16/79	008
GCCD023	07	3	4	1	1	.	.	1	1	3	10	.	.	.	2	QTRN	.	M	5/16/79	008
GCCD024	06	3	1	1	1	.	.	1	1	2	10	.	.	.	2	QTRN	.	M	5/16/79	008
GCCD025	07	3	4	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/16/79	008
GCCD026	07	3	1	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/17/79	008
GCCD027	07	*	1	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/17/79	008
GCCD028	07	*	1	1	1	.	.	1	1	1	10	.	.	.	8	QTRN	.	M	5/17/79	008
GCCD029	07	3	1	1	1	.	.	1	1	2	10	.	.	.	8	QTRN	.	M	5/18/79	008
GCCD030	07	*	1	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/18/79	008
GCCD031	07	*	1	1	1	.	.	1	1	4	10	.	.	.	8	QTRN	.	M	5/18/79	008
GCCD032	07	*	1	1	1	.	.	1	1	3	10	.	.	.	8	QTRN	.	M	5/18/79	008
GCCE001	07	7	1	1	1	.	.	1	1	2	10	.	.	.	8	TRSS	.	M	5/14/79	009
GCCE002	07	9	1	1	1	.	.	1	1	3	10	.	.	.	8	PRMN	.	M	5/14/79	009
GCCE003	07	1	4	1	1	.	.	1	1	3	10	.	.	.	8	TRTR	.	M	5/14/79	009
GCCE004	07	7	1	1	1	.	.	1	1	3	10	.	.	.	8	TRSS	.	M	5/14/79	009
GCCE005	07	1	4	1	1	.	.	1	1	3	10	.	.	.	8	TRTR	.	M	5/14/79	009
GCCE006	07	9	1	1	1	.	.	1	1	3	10	.	.	.	8	PRMN	.	M	5/14/79	009
GCCE007	07	1	1	1	1	.	.	1	1	3	10	.	.	.	6	TRTR	.	M	5/14/79	009
GCCE008	07	9	1	1	1	.	.	1	1	3	10	.	.	.	8	PRMN	.	M	5/14/79	009
GCCE009	07	7	1	1	1	.	.	1	1	3	10	.	.	.	8	TRSS	.	M	5/15/79	009

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	SAMP TYPE	ROCK TYPE	SEDS IZ E	STRW I D T H	STR D E P T H	STR F L O W	STR L E V E L	V E G T Y P E	V E G D E N S	R E L I E F	C O M P O S I T	C O N T A M I N	C O N T A M I N	C O N T A M I N	C O N T A M I N	F R A T I O N	O D O R	H A T E M P	SAHPDATE	TEAM
GCCE010	07	7	3	1	1	.	1	3	1	10	.	.	.	.	8	TPSS	.	M	5/15/79	009
GCCE011	07	9	4	1	1	.	1	3	2	10	.	.	.	.	8	PRMN	.	M	5/15/79	009
GCCE012	07	9	4	1	1	.	1	3	2	10	.	.	.	.	8	PRMN	.	M	5/15/79	009
GCCE013	07	9	4	1	1	.	1	3	2	10	.	.	.	.	8	PRMN	.	M	5/15/79	009
GCCE014	06	9	4	1	1	.	1	3	2	10	.	.	.	.	8	PRMN	.	M	5/16/79	009
GCCE015	07	9	4	1	1	.	1	3	2	10	.	.	.	.	8	TRTR	.	M	5/16/79	009
GCCE016	07	1	4	1	1	.	1	3	2	10	.	.	.	.	8	QTRR	.	M	5/16/79	009
GCCE017	07	3	4	1	1	.	1	3	2	10	.	.	.	.	8	TRSS	.	M	5/16/79	009
GCCF018	07	7	1	1	1	.	1	3	2	10	.	.	.	.	8	PRMN	.	M	5/14/79	015
GCCF001	07	9	3	1	1	.	1	3	2	10	.	.	.	.	8	PRMN	.	M	5/14/79	015
GCCF002	07	9	3	1	1	.	1	3	2	10	.	.	.	.	8	PRMN	.	M	5/14/79	015
GCCF003	07	9	3	1	1	.	1	3	2	10	.	.	.	.	8	PRMN	.	M	5/14/79	015
GCCF004	07	9	3	1	1	.	1	3	2	10	.	.	.	.	8	TRSS	.	M	5/15/79	015
GCCF005	07	9	3	1	1	.	1	3	2	10	.	.	.	.	8	UNKN	.	M	10/27/79	015
GCCF006	07	3	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF007	07	3	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF008	07	3	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF009	07	3	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF010	07	9	3	1	1	.	1	3	2	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF011	07	3	3	1	1	.	1	3	2	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF012	07	3	3	1	1	.	1	3	2	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF013	07	3	3	1	1	.	1	3	2	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF014	07	3	3	1	1	.	1	3	2	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF015	07	3	3	1	1	.	1	3	2	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF016	07	3	3	1	1	.	1	3	2	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCF017	07	3	3	1	1	.	1	3	2	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCG001	07	7	1	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	5/17/79	011
GCCG002	07	7	1	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	5/17/79	011
GCCG003	07	9	1	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	5/17/79	011
GCCG004	07	9	1	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	5/17/79	011
GCCG005	07	9	1	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	5/17/79	011
GCCG006	07	9	1	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	5/17/79	011
GCCG007	07	7	1	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	5/17/79	011
GCCG008	07	7	1	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/27/79	015
GCCG009	07	3	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCG010	07	3	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCG011	07	3	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCG012	07	3	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCG013	07	9	3	1	1	.	1	3	3	10	.	.	.	.	2	UNKN	.	M	10/27/79	015
GCCH001	06	4	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/ 4/79	044
GCCH002	07	3	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH003	06	7	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH004	06	9	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH005	07	9	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH006	07	9	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH007	07	9	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH008	07	9	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH009	07	9	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH010	06	9	3	1	1	.	1	2	2	10	.	.	.	.	8	UNKN	.	M	10/24/79	044
GCCH011	07	9	3	1	1	.	1	2	3	10	.	.	.	.	8	UNKN	.	M	10/24/79	044

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	SAMP	ROCK	SED	STR	STR	STR	STR	V	V	R	C	C	C	C	C	F	O	H	SAHP	DATE	TEAM
	TYPE	TYPE	SIZE	WID	DEPT	FLOW	LEVEL	TYPE	DENS	ELIEF	OS	ON	ON	ON	ON	RA	DO	AT			
				TH	HT						IT	1	2	3	4	OR	OR	TEMP			
GCCH012	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH013	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH014	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH015	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH016	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH017	06	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH018	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH019	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH020	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH021	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		10/24/79	044
GCCH022	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		11/ 1/79	044
GCCH023	07	9	3	1	1	.	1	2	3	2	10	.	.	.	8	UNKN	.	M		11/ 1/79	044
GCCH024	07	9	3	1	1	.	1	2	3	3	10	.	.	.	8	UNKN	.	M		11/ 1/79	044
GCCH025	07	9	3	1	1	.	1	2	3	3	10	.	.	.	8	UNKN	.	M		11/ 1/79	044
GCCH026	07	9	3	1	1	.	1	2	3	3	10	.	.	.	8	UNKN	.	M		11/ 1/79	044
GCCH027	07	9	3	1	1	.	1	2	3	3	10	.	.	.	8	UNKN	.	M		11/ 1/79	044
GCCH028	07	9	3	1	1	.	1	2	3	3	10	.	.	.	8	UNKN	.	M		11/ 1/79	044
GCDA001	07	7	3	1	1	.	1	3	3	4	10	.	.	.	8	CCNN	.	M		5/24/79	017
GCDA002	06	7	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA003	06	7	3	1	1	.	1	3	3	3	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA004	06	7	3	1	1	.	1	3	3	3	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA005	07	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA006	07	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA007	07	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA008	07	3	3	1	1	.	1	3	3	3	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA009	06	3	3	1	1	.	1	3	3	3	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA010	06	3	3	1	1	.	1	3	3	3	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA011	07	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA012	07	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA013	07	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA014	06	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA015	07	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA016	06	3	3	1	1	.	1	3	3	1	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDA017	07	3	3	1	1	.	1	3	3	2	10	.	.	.	8	UNKN	.	M		10/26/79	044
GCDB001	07	3	3	1	1	.	1	2	2	1	10	.	.	.	8	QTRN	.	M		5/18/79	016
GCDB002	07	3	3	1	1	.	1	2	2	1	10	.	.	.	8	QTRN	.	M		5/18/79	016
GCDB003	07	9	3	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/18/79	016
GCDB004	07	9	3	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/18/79	016
GCDB005	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/18/79	016
GCDB006	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/18/79	016
GCDB007	07	9	3	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/18/79	016
GCDB008	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/18/79	016
GCDB009	07	9	3	1	1	.	1	2	2	2	10	.	.	.	8	KBBL	.	M		5/18/79	016
GCDB010	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/20/79	016
GCDB011	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/20/79	016
GCDB012	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/20/79	016
GCDB013	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/20/79	016
GCDB014	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/20/79	016
GCDB015	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/20/79	016
GCDB016	07	9	4	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M		5/20/79	016

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	SAMP	ROCK	SEDS	STRW	STRD	STRF	STRL	VEGT	VEGD	RELI	COM	CON	CON	CON	CON	F	O	H	SAMP	TEAM
*****	A	P	S	R	R	R	R	T	E	E	P	N	N	N	N	R	D	A	DATE	
*****	M	T	I	I	D	D	L	Y	N	L	O	A	A	A	A	T	O	T		
*****	P	Y	Z	T	E	W	E	P	S	E	S	T	T	T	T	1	R	R		
*****	T	P	E	H	H	L	L	E	S	F	O	A	A	A	A	0	R	T		
*****	P	E	E	T	T	L	L	P	S	E	S	1	2	3	4	N	R	E		
*****	E	E	E	H	H	L	L	P	S	F	O	A	A	A	A	N	R	E		
GCDB017	07	9	4	1	1	.	1	1	2	2	10	.	.	.	8	KBBL	.	M	5/20/79	016
GCDB018	07	9	3	1	1	.	1	1	2	2	10	.	.	.	8	KBBL	.	M	5/20/79	016
GCDB019	07	9	3	1	1	.	1	1	2	2	10	.	.	.	8	KBBL	.	M	5/20/79	016
GCDC001	07	*	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	5/18/79	010
GCDC002	07	7	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDC003	07	7	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDC004	07	7	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDC005	07	7	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDC006	06	7	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDC007	07	3	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDC008	07	3	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDC009	06	3	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDC010	07	3	3	1	1	.	1	1	3	3	10	.	.	.	8	UNKN	.	M	10/26/79	044
GCDD001	07	*	3	1	1	.	1	1	2	2	10	.	.	.	8	QTRN	.	M	5/25/79	017
GCDD002	07	*	3	1	1	.	1	1	2	2	10	.	.	1	8	QTRN	.	M	5/25/79	017
GCDD003	07	*	3	1	1	.	1	1	2	2	10	.	.	1	8	QTRN	.	M	5/25/79	017
GCDD004	07	*	3	1	1	.	1	1	2	2	10	.	.	1	8	QTRN	.	M	5/25/79	017
GCDD005	07	*	3	1	1	.	1	1	2	2	10	.	.	1	8	QTRN	.	M	5/25/79	017
GCDD006	07	*	3	1	1	.	1	1	2	2	10	.	.	1	8	QTRN	.	M	5/25/79	017
GCDD007	07	9	3	1	1	.	1	1	2	2	10	.	.	1	8	KBBL	.	M	5/25/79	017
GCDD008	07	9	3	1	1	.	1	1	2	2	10	.	.	1	8	KBBL	.	M	5/25/79	017
GCDD009	07	9	3	1	1	.	1	1	2	2	10	.	.	1	8	KBBL	.	M	5/25/79	017
GCDD010	07	*	3	1	1	.	1	1	2	2	10	.	.	1	8	QTRN	.	M	5/25/79	017
GCDD011	07	7	3	1	1	.	1	1	2	2	10	.	.	1	8	CCNN	.	M	5/26/79	017
GCDD012	07	9	3	1	1	.	1	1	2	2	10	.	.	1	8	KBBL	.	M	5/26/79	017
GCDD013	07	9	3	1	1	.	1	1	2	2	10	.	.	1	8	KBBL	.	M	5/26/79	017
GCDD014	07	*	3	1	1	.	1	1	3	4	10	.	.	1	8	QTRN	.	M	5/26/79	017
GCDD015	07	*	3	1	1	.	1	1	4	4	10	.	.	1	8	QTRN	.	M	5/26/79	017
GCDD016	07	*	3	1	1	.	1	1	4	4	10	.	.	1	8	QTRN	.	M	5/26/79	017
GCDD017	07	9	3	1	1	.	1	1	2	1	10	.	.	1	8	KBBL	.	M	5/27/79	017
GCDD018	07	*	3	1	1	.	1	1	2	2	10	.	.	1	8	QTRN	.	M	5/27/79	017
GCDD019	07	*	3	1	1	.	1	1	2	2	10	.	.	1	8	QTRN	.	M	5/27/79	017
GCDD020	07	7	3	1	1	.	1	1	3	3	10	.	.	2	2	CCNN	.	M	5/27/79	017
GCDD021	07	7	3	1	1	.	1	1	3	3	10	.	.	2	2	CCNN	.	M	5/27/79	017
GCDD022	07	7	3	1	1	.	1	1	3	3	10	.	.	2	2	CCNN	.	M	5/27/79	017
GCDD023	07	3	3	1	1	.	1	1	3	3	10	.	.	2	2	QTRN	.	M	5/27/79	017
GCDD024	07	*	3	1	1	.	1	1	3	4	10	.	.	1	8	QTRN	.	M	5/27/79	017
GCDD025	07	7	3	1	1	.	1	1	2	2	10	.	.	1	8	CCNN	.	M	5/27/79	017
GCDD026	07	7	3	1	1	.	1	1	3	3	10	.	.	1	8	CCNN	.	M	5/27/79	017
GCDE001	07	9	3	1	1	.	1	1	3	3	10	.	.	2	2	KBBL	.	M	5/28/79	017
GCDE002	07	*	3	1	1	.	1	1	3	3	10	.	.	2	2	QTRN	.	M	5/28/79	017
GCDE003	07	*	3	1	1	.	1	1	3	3	10	.	.	1	8	QTRN	.	M	5/28/79	017
GCDE004	07	*	3	1	1	.	1	1	3	3	10	.	.	1	8	QTRN	.	M	5/28/79	017
GCDE005	07	*	3	1	1	.	1	1	3	3	10	.	.	1	8	KBBL	.	M	5/28/79	017
GCDE006	07	9	3	1	1	.	1	1	3	3	10	.	.	1	8	QTRN	.	M	5/28/79	017
GCDE007	07	*	3	1	1	.	1	1	3	3	10	.	.	1	8	QTRN	.	M	5/28/79	017
GCDE008	07	*	3	1	1	.	1	1	3	3	10	.	.	2	2	QTRN	.	M	5/28/79	017
GCDE009	07	9	3	1	1	.	1	1	3	3	10	.	.	2	2	KBBL	.	M	5/28/79	017
GCDE010	07	*	3	1	1	.	1	1	3	3	10	.	.	2	2	QTRN	.	M	5/28/79	017
GCDE011	07	9	3	1	1	.	1	1	3	3	10	.	.	1	8	KBBL	.	M	5/28/79	017

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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SRL I.D.	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T I O N	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F R A C T I O N	O R I G I N	H A T T E M P	SAMPDATE	TEAM
GCDE012	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	QTRN	M	5/28/79	017	
GCDE013	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	M	5/28/79	017	
GCDE014	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	M	5/28/79	017	
GCDE015	07	9	3	1	1	.	1	4	2	2	10	.	.	.	8	KBBL	M	5/28/79	017	
GCDE016	07	*	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/28/79	017	
GCDE017	07	*	3	1	1	.	1	4	2	2	10	.	.	.	8	QTRN	M	5/28/79	017	
GCDE018	07	*	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/28/79	017	
GCDE019	07	*	3	1	1	.	1	4	2	2	10	.	.	.	8	QTRN	M	5/28/79	017	
GCDE020	07	*	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/28/79	017	
GCDE021	07	*	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/28/79	017	
GCDE022	07	*	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/28/79	017	
GCDE023	07	*	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/29/79	017	
GCDE024	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDE025	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDE026	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDE027	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDE028	07	7	3	1	1	.	1	3	4	1	10	.	.	.	2	UNKN	M	10/28/79	044	
GCDE029	07	7	3	1	1	.	1	3	4	1	10	.	.	.	2	UNKN	M	10/28/79	044	
GCDE030	07	7	3	1	1	.	1	3	3	1	10	.	.	.	2	UNKN	M	10/28/79	044	
GCDE031	07	7	3	1	1	.	1	3	4	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE032	07	7	3	1	1	.	1	3	3	1	10	.	.	.	2	UNKN	M	10/28/79	044	
GCDE033	07	7	3	1	1	.	1	3	2	1	10	.	.	.	2	UNKN	M	10/28/79	044	
GCDE034	07	7	3	1	1	.	1	3	3	1	10	.	.	.	2	UNKN	M	10/28/79	044	
GCDE035	07	7	3	1	1	.	1	3	3	1	10	.	.	.	2	UNKN	M	10/28/79	044	
GCDE036	07	7	3	1	1	.	1	3	3	1	10	.	.	.	2	UNKN	M	10/28/79	044	
GCDE037	07	7	3	1	1	.	1	3	3	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE038	06	7	3	1	1	.	1	3	3	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE039	06	7	3	1	1	.	1	3	2	1	10	.	.	.	9	UNKN	M	10/28/79	044	
GCDE040	07	7	3	1	1	.	1	3	4	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE041	07	9	3	1	1	.	1	3	3	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE042	07	9	3	1	1	.	1	3	3	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE043	07	9	3	1	1	.	1	3	3	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE044	07	9	3	1	1	.	1	3	1	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE045	07	9	3	1	1	.	1	3	1	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDE046	07	9	3	1	1	.	1	3	1	1	10	.	.	.	8	UNKN	M	10/28/79	044	
GCDF001	07	*	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/29/79	017	
GCDF002	07	*	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/29/79	017	
GCDF003	07	9	3	1	1	.	1	4	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDF004	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDF005	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDF006	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDF007	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDF008	07	*	3	1	1	.	1	3	1	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDF009	07	9	3	1	1	.	1	3	1	1	10	.	.	.	8	KBBL	M	5/31/79	017	
GCDF010	07	9	3	1	1	.	1	3	1	1	10	.	.	.	8	KBBL	M	5/31/79	017	
GCDD001	07	*	3	1	1	.	1	3	3	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDD002	07	*	3	1	1	.	1	2	3	1	10	.	.	.	2	QTRN	M	5/31/79	017	
GCDD003	07	9	3	1	1	.	1	2	3	1	10	.	.	.	2	KBBL	M	5/31/79	017	
GCDD004	07	*	3	1	1	.	1	2	3	1	10	.	.	.	8	QTRN	M	5/31/79	017	
GCDD005	07	9	3	1	1	.	1	2	3	1	10	.	.	.	2	KBBL	M	5/31/79	017	

TABLE B-3 SUPPLEMENTARY FIELD AND ANALYTICAL DATA-GRAND CANYON 1X2

DEGREE SHEET

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***** ***** ***** ***** ***** ***** *****	S A M P L E	R O C K T Y P E	S E D S I Z E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	S T R U C T U R E	V E G E T A T I O N	V E G E T A T I O N	R E L I E F	C O M P O S I T I O N	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	C O N T A M I N T	F R A C T I O N	O D O R	W A T E R T E M P	SAMPDATE	TEAM
GCDG006	07	*	3	1	1	.	1	2	2	1	10	.	.	.	8	QTRN	.	M	5/31/79	017
GCDG007	07	9	3	1	1	.	1	2	2	1	10	.	.	.	8	KBBL	.	M	5/31/79	017
GCDG008	07	*	3	1	1	.	1	2	2	1	10	.	.	.	8	QTRN	.	M	5/31/79	017
GCDG009	07	*	3	1	1	.	1	2	2	1	10	.	.	.	8	QTRN	.	M	5/31/79	017
GCDG010	07	9	3	1	1	.	1	3	2	2	10	.	.	.	2	KBBL	.	M	5/31/79	017
GCDG011	07	*	3	1	1	.	1	2	2	1	10	.	.	.	8	QTRN	.	M	5/31/79	017
GCDG012	07	9	3	1	1	.	1	3	2	1	10	.	.	.	8	KBBL	.	M	5/31/79	017
GCDG013	07	9	3	1	1	.	1	3	2	1	10	.	.	.	8	KBBL	.	M	5/31/79	017
GCDG014	07	*	3	1	1	.	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/31/79	017
GCDG015	07	*	3	1	1	.	1	3	2	2	10	.	.	.	8	QTRN	.	M	5/31/79	017
GCDG016	07	*	3	1	1	.	1	3	2	1	10	.	.	.	8	QTRN	.	M	5/31/79	017
GCDH001	07	7	3	1	1	.	1	2	3	2	10	.	.	.	2	CCNN	.	M	5/31/79	017
GCDH002	07	9	3	1	1	.	1	2	3	2	10	.	.	.	2	KBBL	.	M	5/31/79	017

TABLE A-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA -GROUND WATER--GRAND CANYON 1X2 DEGREE SHEET
 U, BR, CL, F, MN, NA, AND V: ELEMENTAL CONCENTRATIONS IN PPM
 HE IN THO CC AIR GAP ABOVE 300 CC OF H2O. SCINT. IN CPS.

SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKOXD REQ/L	U	SCINT	BR	CL	F	HE	MN	NA	V	U/COND X 1000
GCAA501R	04-36.7626-113.8900-4-53-000	8.1	500	2.90	17.662	22	447.0	29700	132	5.8	.	2224.0	2.0	35.32
GCAA502R	04-36.7719-113.8517-4-53-000	7.7	460	4.80	3.887	50	.	15400	195	5.8	.	1530.0	2.0	8.45
GCAA503R	04-36.8958-113.9156-4-53-000	6.9	3630	6.80	32.040	12	.	529000	.	200.0	1513.4	247200	-0.1	8.83
GCAA504R	04-36.7703-113.7968-4-53-000	9.0	45	0.38	0.037	25	.	9100	.	6.9	95.3	4250	-0.1	0.82
GCAA505R	04-36.8038-113.7895-4-53-000	7.8	115	1.30	0.234	14	16.1	13000	23	7.1	79.1	8050	8.0	2.03
GCAA506R	04-36.9073-113.9306-4-52-000	7.9	1100	3.20	2.507	38	170.1	122300	131	8.7	.	72000	-0.1	2.28
GCAA507R	04-36.7768-113.9873-4-52-000	8.0	900	1.70	3.968	30	.	105700	170	85.0	.	95060	9.0	4.41
GCAA508R	04-36.9732-113.8825-4-52-000	7.7	445	3.30	1.146	36	86.5	18400	439	6.0	.	21940	2.0	2.58
GCAA501R	04-36.8348-113.8899-4-53-000	9.6	172	1.10	0.089	50	92.9	9100	.	6.2	98.0	5450	3.0	0.52
GCAB502R	04-36.8097-113.7402-4-53-000	7.7	500	4.90	0.458	47	108.9	24300	70	6.2	.	12970	2.0	0.92
GCAB503R	04-36.7669-113.5887-4-53-000	7.4	1450	4.20	0.930	35	.	81100	309	6.0	.	51750	3.0	0.64
GCAB504R	04-36.7569-113.6272-4-53-000	7.9	2600	7.10	5.522	70	1023.2	234400	.	6.5	1977.0	183440	8.0	2.12
GCAB505R	04-36.7762-113.7232-4-53-000	8.3	1790	5.20	1.558	35	426.2	66000	419	4.8	.	50350	2.0	0.87
GCAB506R	04-36.7631-113.7049-4-53-000	7.3	3200	8.10	6.590	40	982.0	286200	.	5.2	.	191840	-0.1	2.06
GCAC501R	04-36.9460-113.3549-4-53-000	7.7	2920	3.20	22.220	42	1397.6	224600	.	6.0	.	124220	5.0	7.61
GCAC502R	04-36.9078-113.3521-4-52-000	8.2	2500	1.60	15.622	16	633.0	237800	.	6.2	.	174120	-0.1	6.25
GCAC503R	04-36.8952-113.3127-4-53-000	7.4	2200	3.30	7.002	19	2752.0	486000	.	6.5	2228.0	230200	5.0	3.18
GCAD501R	04-36.9465-113.0114-4-52-000	7.8	1120	6.40	14.875	30	994.5	115400	641	5.7	.	105050	1.0	13.28
GCAD502R	04-36.9596-113.1494-4-52-000	7.2	1050	2.50	0.238	32	847.0	111800	181	4.9	.	41360	-0.1	0.23
GCAD503R	04-36.9484-113.0556-4-53-000	4.0	800	0.00	1.158	35	89.5	35500	874	5.7	.	19180	-0.1	1.45
GCAD504R	04-36.8760-113.1167-4-52-000	7.2	2420	2.40	3.566	51	993.6	223400	.	18.0	.	104400	-0.1	1.47
GCAD505R	04-36.8652-113.1759-4-52-000	7.1	2950	3.10	15.874	51	1268.6	255800	.	.	.	194440	4.4	5.38
GCAD506R	04-36.8901-113.1444-4-52-000	7.1	3100	3.30	6.514	21	866.8	262600	522	5.2	.	165020	5.0	2.10
GCAD507R	04-36.9194-113.1832-4-52-000	7.3	3200	3.20	25.720	41	327.6	314200	429	4.7	.	232400	-0.1	8.04
GCAD508R	04-36.9398-113.2486-4-52-000	7.0	2150	3.50	4.598	30	.	.	18352	5.5	1613.8	46220	-0.1	2.14
GCAD509R	04-36.8664-113.2243-4-52-000	7.0	3010	3.50	11.932	45	1750.6	270600	297	5.2	.	126500	-0.1	3.96
GCAD510R	04-36.8097-113.1720-4-52-000	7.4	2500	2.80	13.190	46	.	237600	.	5.4	1446.4	106820	-0.1	5.28
GCAD511R	04-36.7966-113.1244-4-52-000	7.3	3500	1.80	33.220	35	.	315000	.	5.8	.	235800	-0.1	9.49
GCAD512R	04-36.7562-113.1350-4-52-000	7.8	1900	1.90	25.700	52	.	56400	181	5.2	.	31120	-0.1	13.53
GCAD513R	04-36.9312-113.1232-4-53-000	8.0	8000	2.30	16.700	30	.	558000	.	6.1	.	572800	-0.1	2.09
GCAD514R	04-36.9973-113.1944-4-52-000	6.9	3900	3.90	1.024	38	1855.0	386200	.	10.0	.	257400	5.0	0.26
GCAE501R	04-36.8448-112.9569-4-52-000	6.8	1700	0.46	0.109	35	236.7	85000	.	11.0	957.5	33680	1.0	0.06
GCAE502R	04-36.8473-112.8617-4-52-000	7.2	1000	4.30	0.256	31	358.4	51200	194	9.3	427.0	32200	-0.1	0.26
GCAE503R	04-36.9332-112.8272-4-53-000	8.0	110	1.50	0.089	38	57.0	9200	.	5.4	.	5020	-0.1	0.81
GCAE504R	04-36.9977-112.8632-4-52-000	7.7	2700	3.00	-0.002	28	490.0	172100	.	5.4	687.4	71700	-0.1	0.00
GCAE505R	04-36.9486-112.8628-4-52-000	M	360	5.00	-0.002	35	104.4	15300	108	5.8	178.5	16410	-0.1	0.00
GCAE506R	04-36.9495-112.8922-4-52-000	7.8	60	5.80	7.279	26	116.3	22900	793	6.4	.	39360	22.0	121.32
GCAF507R	04-36.9383-112.9627-4-52-000	8.1	900	8.00	12.902	40	344.6	77100	612	9.4	.	89240	6.0	14.34
GCAF508R	04-36.9094-112.7608-4-53-000	8.1	170	2.20	0.352	24	67.4	11680	18	5.8	.	7340	-0.1	2.07
GCAF509R	04-36.9903-112.9200-4-53-000	7.9	200	2.60	0.407	35	27.1	10700	25	7.1	.	6790	-0.1	2.04
GCAF510R	04-36.8716-112.9769-4-52-000	7.5	3550	1.70	3.578	40	1378.2	275200	.	4.8	.	250000	6.0	1.01
GCAF511R	04-36.7817-112.8458-4-53-000	8.4	410	2.10	1.585	34	183.2	28000	185	6.5	.	17420	-0.1	3.87
GCAF512R	04-36.8166-112.8280-4-52-000	7.7	700	3.60	9.038	16	218.6	29900	269	6.1	.	20480	-0.1	12.91
GCAF513R	04-36.8029-112.8081-4-52-000	7.0	3150	4.20	1.923	30	1113.8	273200	.	190.0	.	231200	-0.1	0.61
GCAF514R	04-36.8031-112.8881-4-52-000	7.7	700	2.50	2.360	22	217.6	47800	136	6.5	.	31500	-0.1	3.37
GCAF515R	04-36.9561-112.7763-4-53-000	7.6	110	1.50	0.037	26	48.9	9500	60	6.5	63.9	5150	-0.1	0.34
GCAF516R	04-36.9951-112.7821-4-53-000	7.3	140	1.70	0.030	20	58.7	10500	149	5.6	70.2	5790	-0.1	0.21
GCAF517R	04-36.8811-112.7804-4-53-000	8.1	12000	9.50	249.600	32	.	.	.	6.7	.	.	-0.1	20.80
GCAF501R	04-36.9982-112.5338-4-52-000	7.1	1250	6.80	3.330	17	190.8	74400	148	46.0	.	114600	-0.1	2.86
GCAF502R	04-36.9823-112.5757-4-53-000	7.5	440	2.70	8.922	17	122.7	28300	199	5.8	.	24290	-0.1	20.28
GCAF503R	04-36.9844-112.6885-4-53-000	7.1	360	4.10	1.302	14	93.6	18800	21	5.4	.	5390	2.0	3.62
GCAF504R	04-36.9213-112.7220-4-53-000	8.5	600	3.60	25.120	22	71.9	40400	491	6.2	.	101860	132.0	41.87
GCAF505R	04-36.9481-112.6246-4-52-000	7.0	540	3.40	1.070	32	.	28600	394	6.9	668.6	13610	-0.1	1.98

TABLE A-1 TABULATION OF KEY FIELD MEASUREMENTS AND ANALYTICAL DATA -GROUND WATER--GRAND CANYON 1X2 DEGREE SHEET
 U, BR, CL, F, MN, NA, AND V: ELEMENTAL CONCENTRATIONS IN PPB
 HE IN PPM, IN TWO CC AIR GAP ABOVE 300 CC OF H₂O. SCINT. IN CPS.

2
4
4

SRL I.D. *****	DOE I.D.	PH	COND. UM/CM	AKYDD MEQ/L	U	SCINT	BR	CL	F	HE	MN	NA	V	U/COND X 1000
GCA0501R	04-36.9896-112.3234-4-53-000	3.8	1300	0.00	47.270	20	.	84000	1005	5.4	.	56700	-0.1	36.36
GCAH501R	04-36.9516-112.0337-4-53-000	6.9	525	3.90	0.794	10	.	39400	.	5.2	.	49840	5.0	1.51
GCAH502R	04-36.8229-112.0546-4-53-000	7.7	1450	6.60	5.050	14	1255.0	200100	.	6.5	.	54400	2.0	3.48
GCBA501R	04-36.6630-113.9010-4-52-000	8.5	240	1.80	0.407	22	.	16600	77	6.4	.	7070	1.0	1.70
GCBA502R	04-36.6083-113.9483-4-52-000	7.2	860	5.40	4.280	20	180.0	61500	539	5.4	.	17860	5.0	4.98
GCBA503R	04-36.6535-113.7827-4-53-000	7.1	249	2.20	0.244	27	.	.	.	9.2	.	.	-0.1	0.98
GCBA504R	04-36.5506-113.9965-4-53-000	7.3	3200	2.90	17.566	20	5006.0	986400	.	7.1	.	484400	154.0	5.49
GCBB501R	04-37.6704-113.7353-4-53-000	7.9	480	3.60	1.422	40	142.8	24800	141	4.6	.	18320	10.0	2.96
GCBB502R	04-37.5948-113.7419-4-53-000	8.2	850	2.30	1.016	25	.	25000	298	5.2	.	10260	2.0	1.56
GCBB503R	04-37.5176-113.7138-4-53-000	7.5	440	1.80	0.856	20	96.5	22700	63	6.0	.	12110	2.0	1.95
GCBD501R	04-36.6904-113.0439-4-52-000	7.9	5900	3.20	85.980	49	.	359200	582	5.0	.	728200	-0.1	14.57
GCBD502R	04-36.7239-113.0684-4-52-000	7.3	2360	3.20	15.300	29	909.8	219800	.	4.7	.	101380	-0.1	6.48
GCBE501R	04-36.7278-112.9420-4-53-000	4.0	880	0.00	31.400	80	.	95900	.	5.0	.	53480	-0.1	46.18
GCBH501R	04-36.5857-112.0446-4-53-000	9.1	850	2.90	0.772	40	156.1	22200	29	5.8	.	9680	1.0	1.19
GCCA501R	04-36.3250-113.9725-4-53-000	8.2	680	3.60	2.874	25	195.1	25800	138	6.3	.	19310	6.0	4.23
GCCA502R	04-36.4854-113.8488-4-52-000	8.6	1680	1.00	0.571	30	110.3	53200	.	5.7	.	25000	1.0	0.34
GCCA503R	04-36.4227-113.8887-4-52-000	7.6	1320	1.50	2.097	15	238.8	54100	.	4.1	.	25750	4.0	1.59
GCCA504R	04-36.3777-113.9719-4-53-000	7.6	9000	5.00	12.984	25	.	.	.	7.1	.	.	-0.1	1.44
GCCA505R	04-36.3877-113.9523-4-52-000	8.0	850	4.80	3.904	25	.	30500	.	6.9	.	42020	7.0	4.59
GCCA506R	04-36.4182-113.9586-4-53-000	7.7	550	3.50	1.748	19	116.1	20700	56	8.3	.	17940	3.0	3.18
GCCB501R	04-36.2936-113.6635-4-53-000	7.3	430	3.00	1.824	42	159.6	32000	.	5.4	.	16380	6.0	4.24
GCCB502R	04-36.2998-113.6885-4-53-000	8.1	475	3.80	1.850	25	.	33800	.	6.1	.	13430	3.0	3.89
GCCC501R	04-36.3828-113.4618-4-53-000	7.4	2450	3.30	4.218	30	.	215400	.	6.9	.	90220	6.0	1.72
GCCC502R	04-36.2675-113.4780-4-53-000	8.0	2550	2.00	13.636	30	.	245000	.	5.8	.	102000	-0.1	5.35
GCCC503R	04-36.3736-113.2608-4-53-000	7.4	950	5.00	1.486	35	193.6	90100	.	6.9	.	31880	12.0	1.56
GCCD501R	04-36.3925-113.1510-4-53-000	6.7	100	0.85	0.133	37	64.2	9600	60	5.8	.	4640	6.0	1.33
GCCD502R	04-36.3357-113.1898-4-53-000	8.4	350	3.00	1.064	25	74.2	13300	49	6.3	.	10180	8.0	3.04
GCD8501R	04-36.1512-113.5348-4-52-000	7.8	610	5.80	1.196	38	422.8	58500	.	.	.	13040	1.8	1.96
GCD8502R	04-36.1904-113.5114-4-52-000	7.8	2050	5.80	10.386	36	327.2	212600	.	.	.	81960	-0.1	5.07
GCD0501R	04-36.1260-113.0665-4-53-000	8.4	110	5.40	1.013	20	192.9	33400	.	6.0	.	8940	6.0	9.21
GCD0501R	04-36.0127-112.2982-4-52-000	7.1	1300	3.40	0.598	45	.	202500	.	5.6	.	49360	3.0	0.46

TABLE A-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA -GROUND WATER-----GRAND CANYON 1X2 DEGREE SHEET

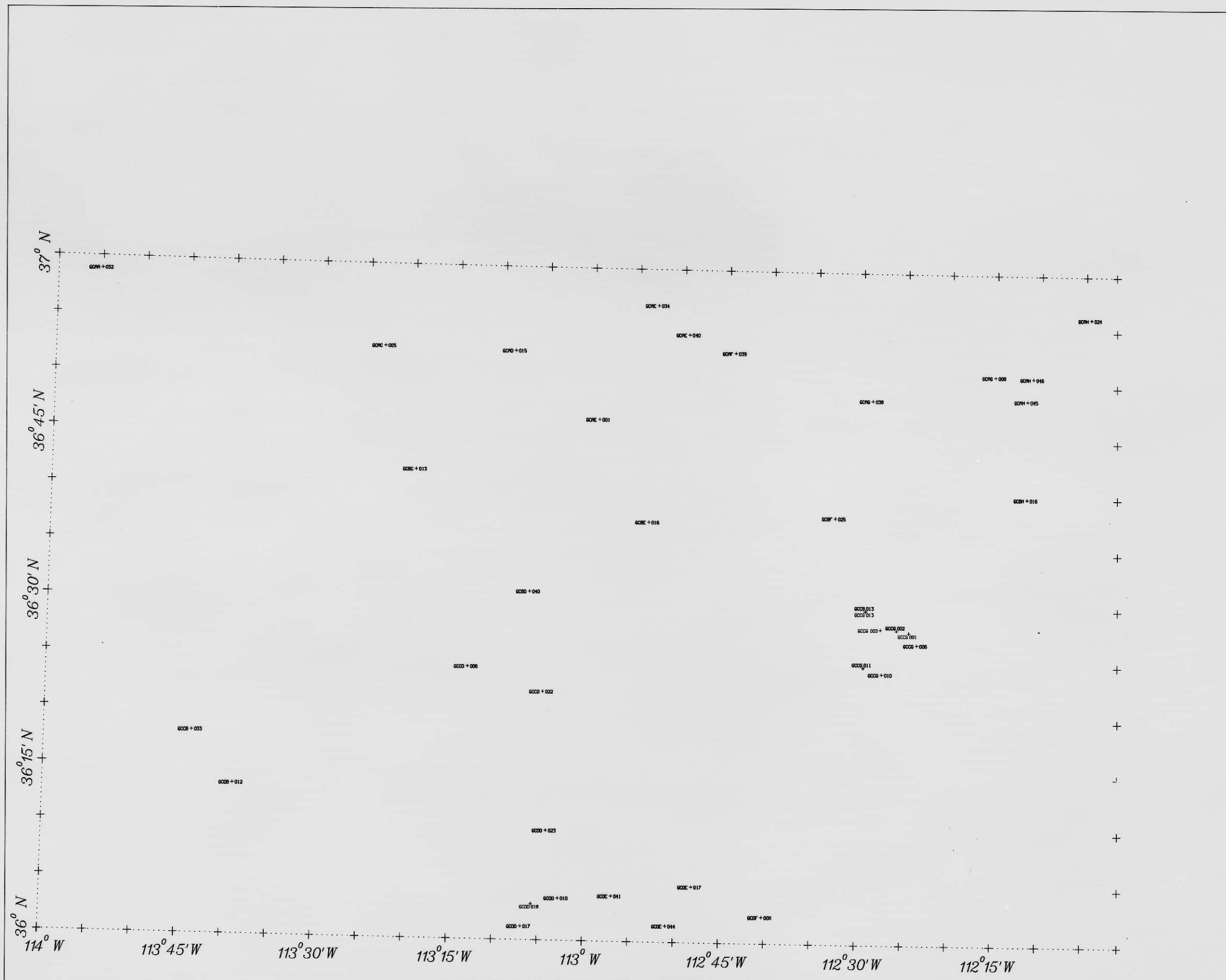
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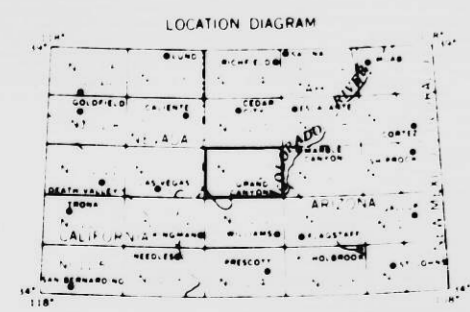
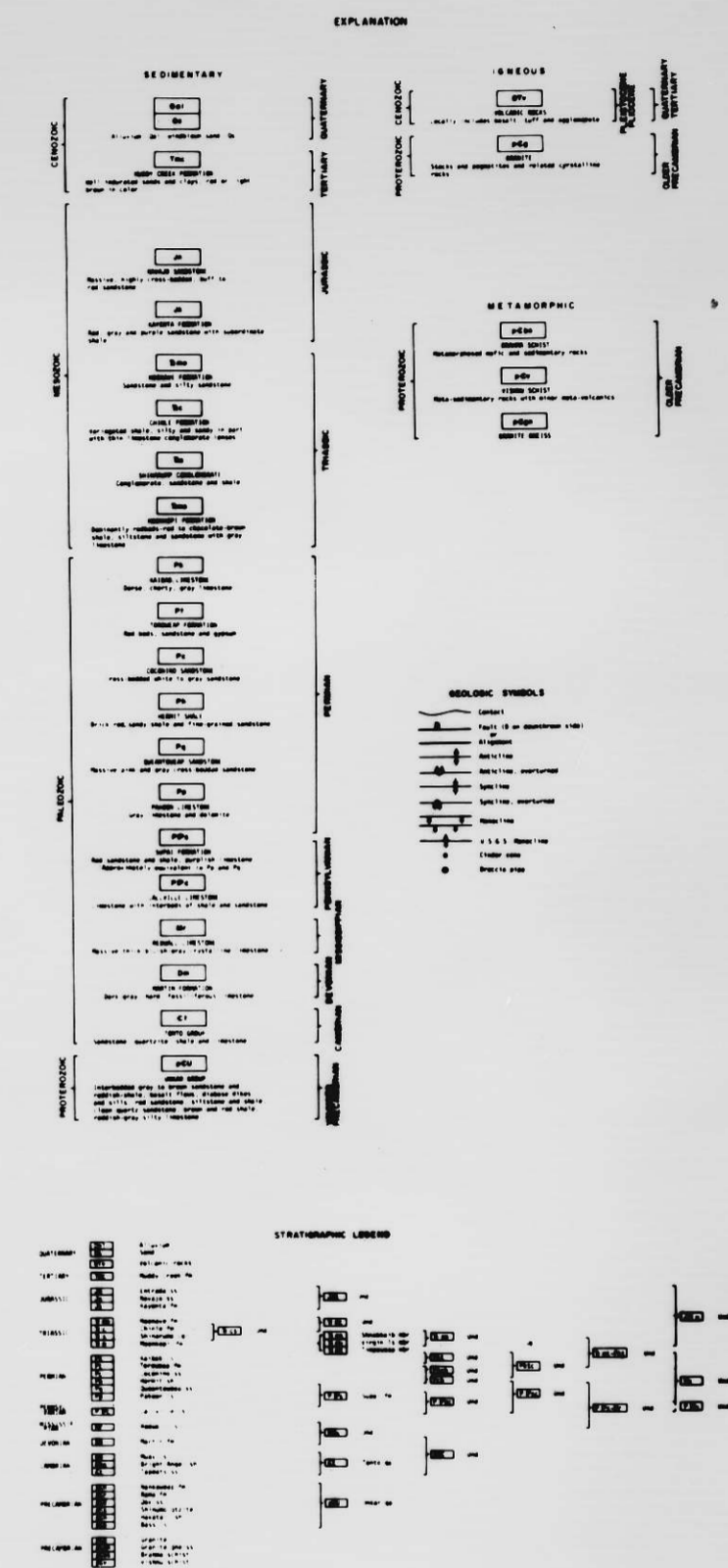
SRL I.D.	AL PPB	DY PPB	MG PPB	SAMPLING DATE	TEAM	H A T E M P	H E L D E P T H	D P T H C O N F	H E L C L A S S	S H P P O I N T	H E L L O O D O R R
GCAA501	1186.0	-0.02	11370	5/ 6/79	018	15	0	1	4	1	2
GCAA502	121.0	-0.02	13200	5/ 6/79	018	15	0	1	4	2	2
GCAA503	1575.0	-0.02	84780	5/10/79	018	25	0	1	1	5	2
GCAA504	153.0	-0.02	910	5/ 6/79	018	17	0	1	4	5	2
GCAA505	182.0	-0.02	4400	5/11/79	018	11	0	1	4	5	2
GCAA506	598.0	-0.02	39370	5/ 8/79	018	17	100	2	2	5	2
GCAA507	241.0	-0.02	18890	5/ 8/79	018	19	490	3	2	5	2
GCAA508	196.0	-0.02	10990	5/10/79	018	20	100	4	4	5	2
GCAB501	828.0	-0.02	3050	5/ 8/79	015	12	1	1	4	5	2
GCAB502	493.0	-0.02	19160	5/ 8/79	015	11	1	1	4	5	2
GCAB503	599.0	-0.02	87700	5/ 9/79	015	10	1	1	4	5	2
GCAB504	2174.0	1.22	168680	5/10/79	015	14	1	1	4	5	2
GCAB505	628.0	0.30	73950	5/10/79	015	11	1	1	4	5	2
GCAB506	1946.0	-0.02	316400	5/10/79	015	12	1	1	1	5	2
GCAC501	2550.0	-0.02	397400	5/ 6/79	013	22	0	0	4	5	2
GCAC502	2044.0	-0.02	254400	5/ 6/79	013	20	U	5	4	5	2
GCAC503	1428.0	-0.02	118120	5/10/79	013	12	0	1	4	5	2
GCA 501	598.0	-0.02	24630	5/ 6/79	014	14	U	5	4	5	2
GCAD502	866.0	-0.02	M	5/ 6/79	014	16	U	5	4	5	2
GCAD503	8756.0	-0.02	M	5/ 7/79	010	14	U	1	4	5	2
GCAD504	1472.0	-0.02	88040	5/ 8/79	014	13	U	5	4	5	2
GCAD505	1959.0	-0.02	117180	5/ 8/79	014	12	U	5	4	5	2
GCAD506	1885.0	1.29	207000	5/ 8/79	014	11	U	5	4	5	2
GCA 507	1841.0	-0.02	123520	5/ 8/79	014	14	U	5	4	5	2
GCAL508		-0.02	M	5/ 8/79	014	13	U	5	4	5	2
GCAD509	1525.0	-0.02	126060	5/ 8/79	014	14	U	5	4	5	2
GCAD510	2610.0	-0.02	117120	5/ 9/79	010	14	25	1	4	5	2
GCAD511	1979.0	-0.02	310800	5/ 9/79	011	11	U	5	4	5	2
GCAD512	643.0	-0.02	86900	5/10/79	010	13	20	4	4	5	2
GCAD513	1792.0	-0.02	960400	5/10/79	010	13	0	1	4	5	2
GCAD514	2368.0	-0.02	204000	5/12/79	014	16	U	5	4	5	2
GCAE501	769.0	-0.02	25580	5/12/79	014	16	U	5	4	5	2
GCAE502	266.0	-0.02	M	5/12/79	010	18	U	5	4	5	2
GCAE503	133.0	-0.02	1590	5/13/79	014	17	0	1	4	5	2
GCAE504	1258.0	-0.02	M	5/13/79	014	17	U	5	1	5	2
GCAE505	103.0	-0.02	M	5/13/79	014	17	100	2	1	5	2
GCAE506	117.0	-0.02	28160	5/13/79	014	21	57	2	1	5	2
GCAE507	114.0	-0.02	36760	5/13/79	014	25	13	2	4	5	2
GCAE508	124.0	-0.02	5370	5/14/79	014	16	0	1	1	5	2
GCAE509	-79.0	-0.02	10370	5/14/79	014	23	0	1	1	5	2
GCAE510	2158.0	-0.02	159700	5/14/79	014	20	U	5	4	5	2
GCAE511	231.0	-0.02	12790	5/15/79	014	15	0	1	4	5	2
GCAE512	402.0	-0.02	14200	5/15/79	014	18	U	5	4	5	2
GCAE513	1433.0	-0.02	136460	5/15/79	014	16	U	5	4	5	2
GCAE514	276.0	-0.02	18350	5/15/79	014	16	U	5	1	5	2
GCAE515	106.0	-0.02	3760	5/16/79	014	17	0	1	4	5	2
GCAE516	284.0	-0.02	4030	5/16/79	014	16	0	1	1	5	2
GCAE517	589.0	-0.02	442200	5/17/79	014	16	0	1	1	5	2
GCAF501	358.0	-0.02	56800	5/14/79	007	17	200	1	5	4	2
GCAF502	-79.0	-0.02	11490	5/14/79	007	14	0	1	4	5	2

TABLE A-2 SUPPLEMENTARY FIELD AND ANALYTICAL DATA -GROUND WATER-----GRAND CANYON 1X2 DEGREE SHEET

2

SRL I.D.	AL PPB	DY PPB	MG PPB	SAMPLING DATE	TEAM	H A T R T E M P	W E L D E P T H	D P T H C O N F	W E L C L A S S	S M P P O I N T	W E L L O D O R
GCAF503	-79.0	-0.02	15400	5/16/79	007	21	0	1	4	5	2
GCAF504	101.0	-0.02	M	5/17/79	007	17	0	1	4	5	2
GCAF505	-79.0	-0.02	16090	5/17/79	007	15	120	1	4	5	2
GCA0501	.	-0.02	M	5/14/79	018	21	0	1	4	5	2
GCAH501	244.0	-0.02	5080	5/19/79	007	18	0	1	4	5	2
GCAH502	340.0	-0.02	62450	5/18/79	007	26	0	1	4	5	2
GCBA501	86.0	0.06	M	5/ 5/79	016	17	U	5	4	1	2
GCBA502	280.0	-0.02	39900	5/ 6/79	017	19	U	5	4	3	2
GCBA503	.	-0.02	M	5/ 9/79	016	14	0	1	4	2	2
GCBA504	3880.0	-0.02	374200	5/10/79	017	10	1	5	4	5	2
GCBB501	143.0	-0.02	19550	5/12/79	010	18	0	1	4	3	2
GCBB502	264.0	-0.02	15480	5/12/79	010	17	0	1	4	3	2
GCBB503	295.0	-0.02	14830	5/12/79	010	20	0	1	4	2	2
GCBD501	1926.0	-0.02	242800	5/19/79	013	19	U	5	4	4	2
GCBD502	1698.0	-0.02	109040	5/19/79	013	16	U	5	4	4	2
GCBE501	.	-0.02	M	5/13/79	009	27	0	1	4	5	2
GCBF501	211.0	-0.02	24820	5/19/79	011	14	0	1	4	5	2
GCCA501	241.0	-0.02	28400	5/16/79	013	26	0	1	4	5	2
GCCA502	100.0	-0.02	29340	5/16/79	013	24	U	5	4	1	2
GCCA503	170.0	-0.02	63900	5/16/79	013	26	U	5	4	2	2
GCCA504	1321.0	-0.02	308600	5/16/79	013	14	0	1	4	5	3
GCCA505	168.0	-0.02	26720	5/15/79	013	24	U	5	1	5	2
GCCA506	206.0	-0.02	14970	5/15/79	013	32	0	1	2	5	2
GCCB501	275.0	-0.02	15940	5/17/79	016	17	0	1	4	5	2
GCCB502	1783.0	-0.02	18760	5/17/79	016	23	0	1	4	5	2
GCCC501	1594.0	-0.02	100180	5/14/79	010	18	0	1	4	3	2
GCCC502	2066.0	-0.02	137220	5/17/79	010	18	0	1	4	3	2
GCCC503	308.0	0.32	28040	5/18/79	010	11	0	1	4	3	2
GCCD501	123.0	-0.02	3220	5/15/79	008	12	0	1	1	1	2
GCCD502	158.0	-0.02	11200	5/16/79	008	15	0	1	1	3	2
GCD8501	425.0	-0.02	13830	5/18/79	016	18	U	5	4	4	2
GCD8502	1390.0	-0.02	74820	5/20/79	016	11	U	5	4	3	2
GCD0501	212.0	-0.02	20080	5/27/79	017	22	0	1	4	5	2
GCD0501	812.0	0.93	57150	5/31/79	017	13	22	1	2	5	2





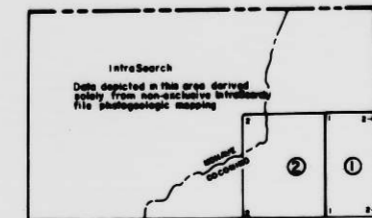
GEOLOGY OF THE GRAND CANYON QUADRANGLE

Prepared by IntraSearch

In Accordance With BFEC Specification #1125

For

UNITED STATES DEPARTMENT OF ENERGY



- 1. Munn, H. H., 1950, Preliminary Geologic Map of the Grand Canyon and Vicinity, Grand Canyon National History Association.
- 2. Brand, W. J., et al., 1970, Geologic Map of the Grand Canyon National Park, Arizona, Grand Canyon National History Association.

GRAND CANYON MINERAL LOCALITY MAP

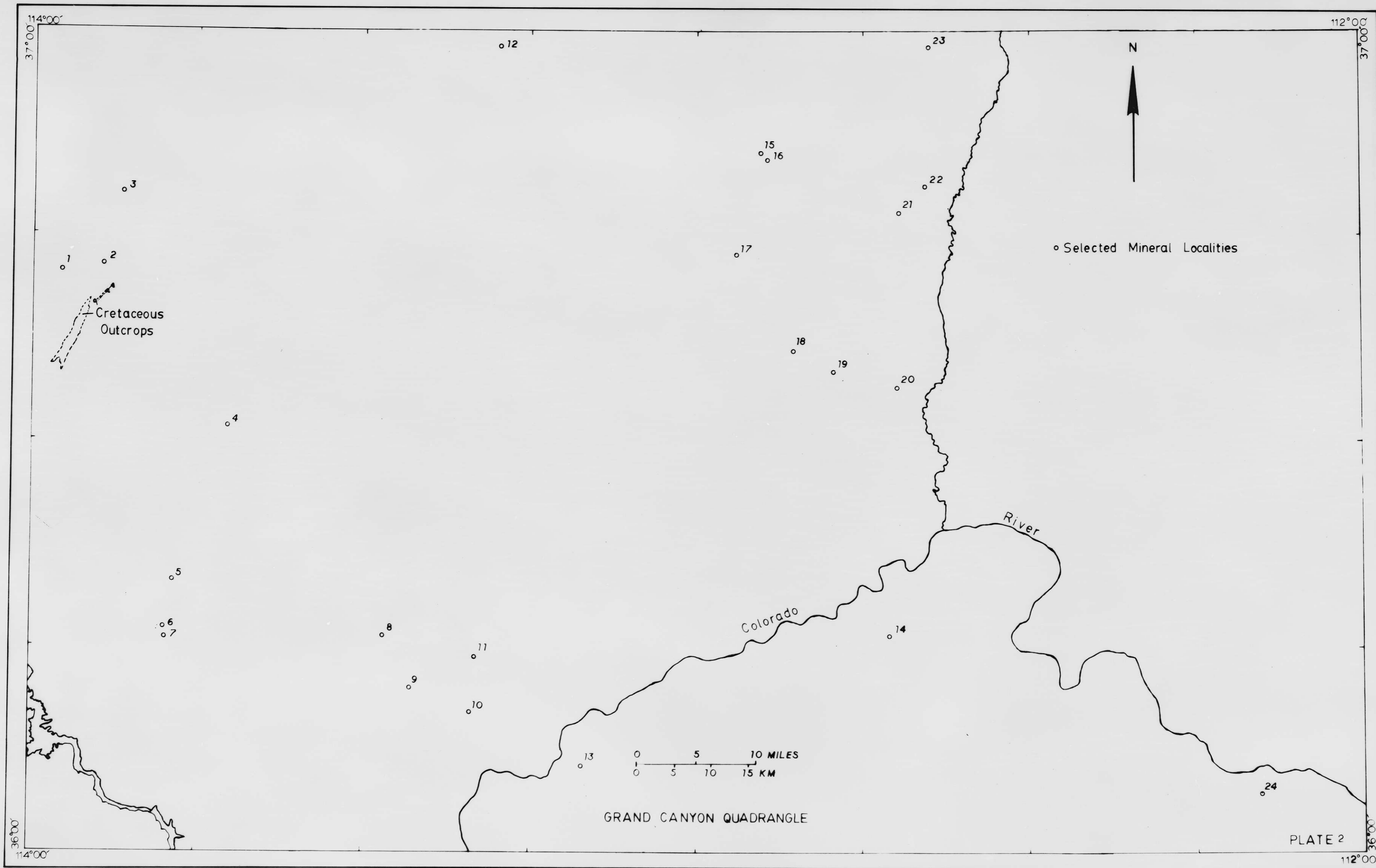
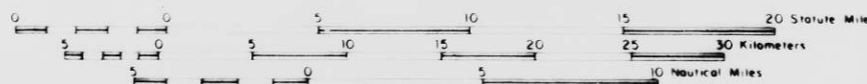
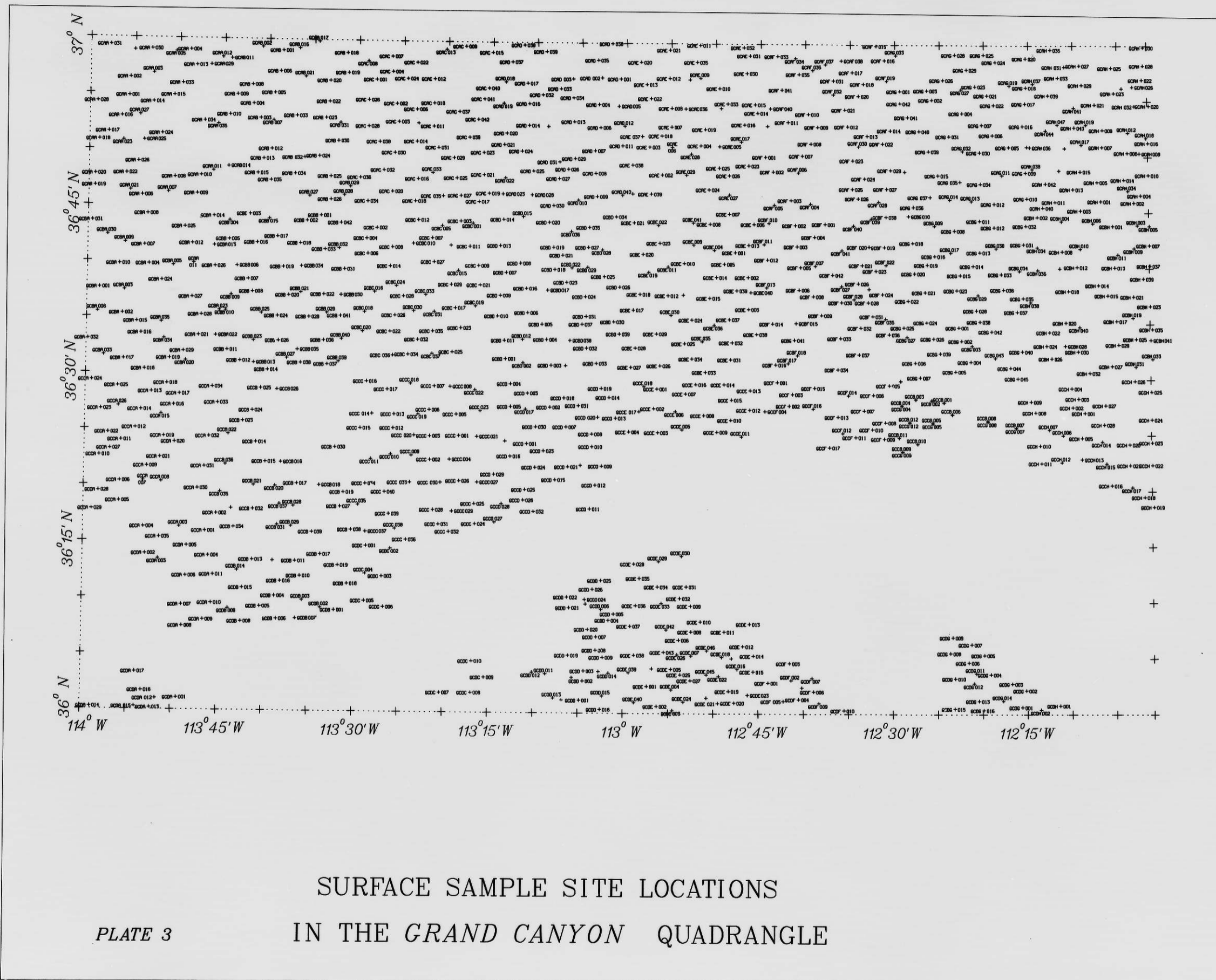
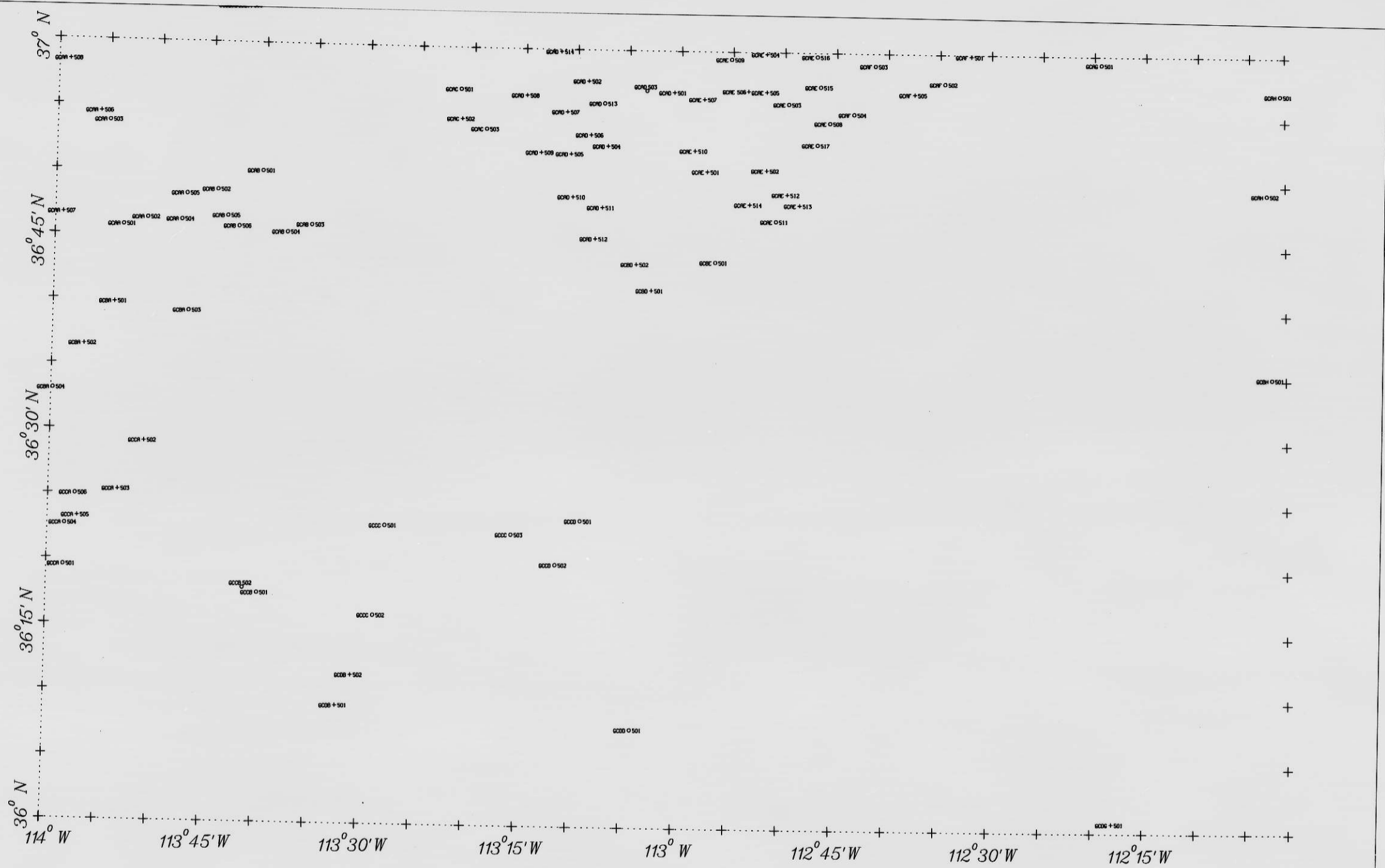


PLATE 2

PLATE 2







GROUND WATER SAMPLE SITE LOCATIONS
 IN THE GRAND CANYON QUADRANGLE

PLATE 4

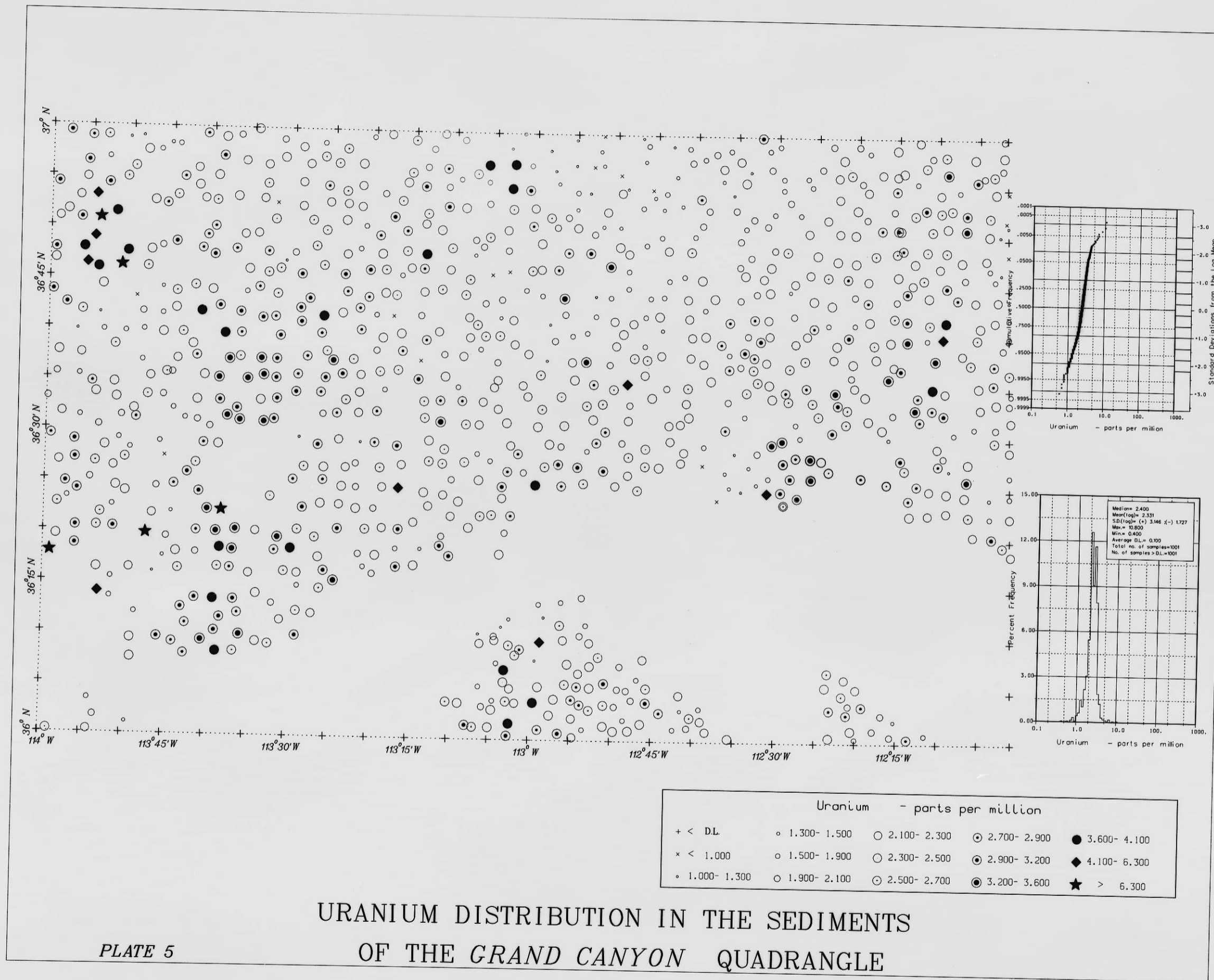
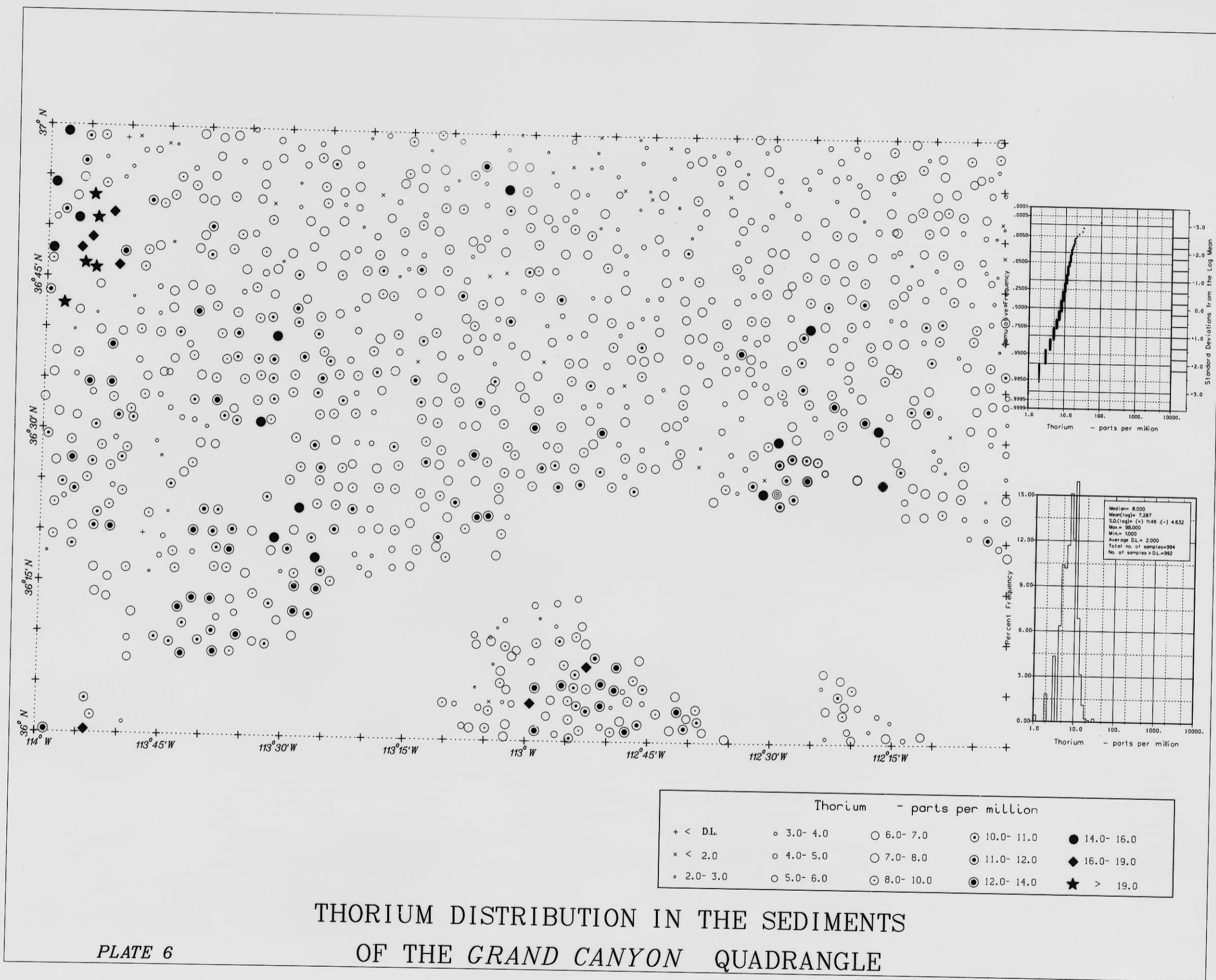
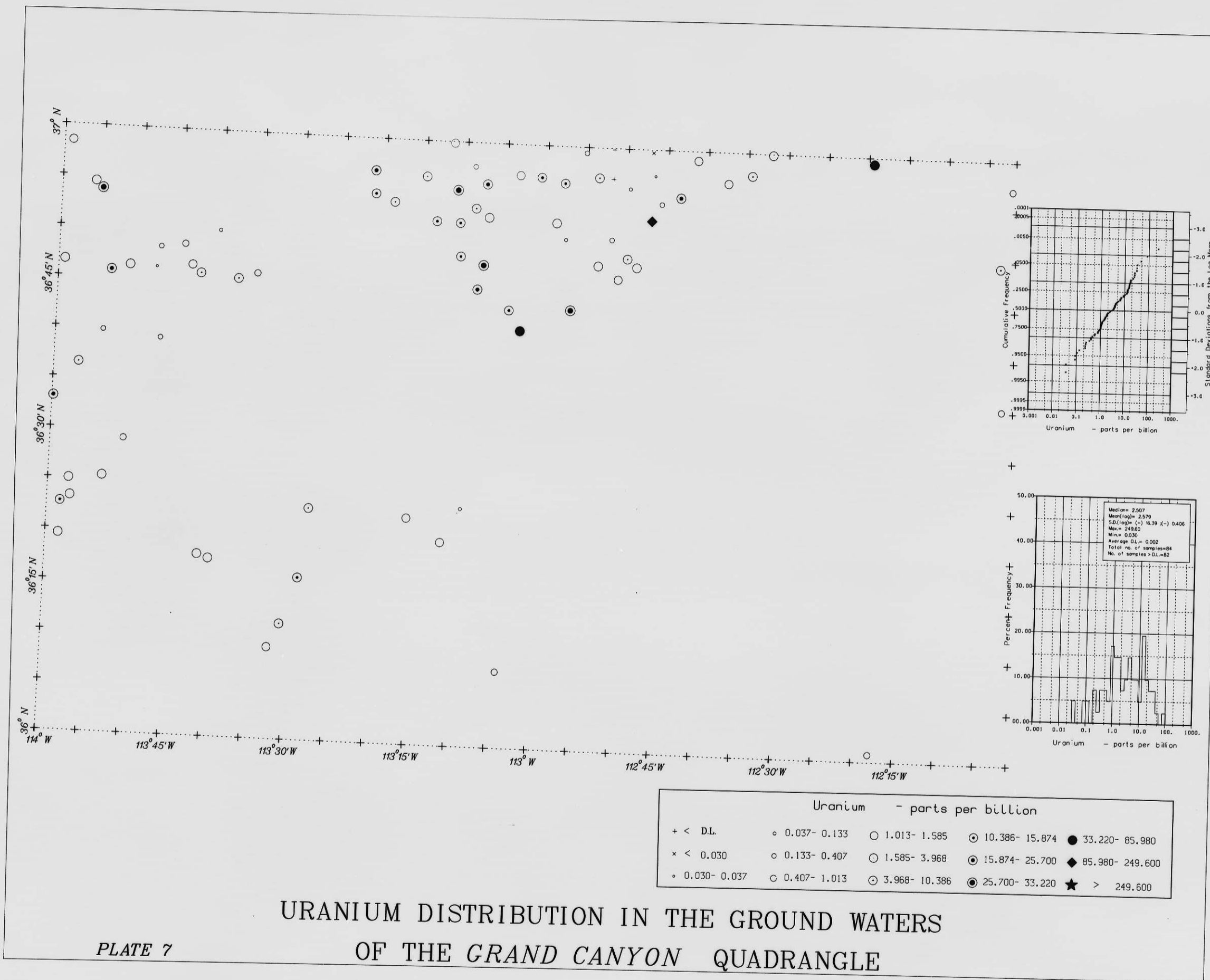


PLATE 5

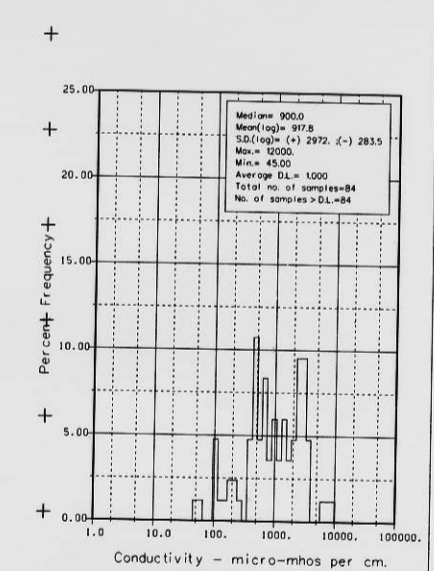
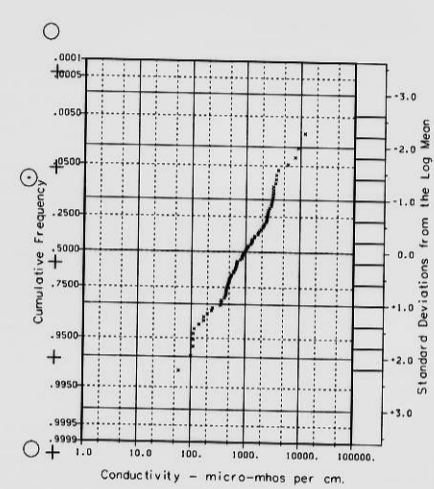
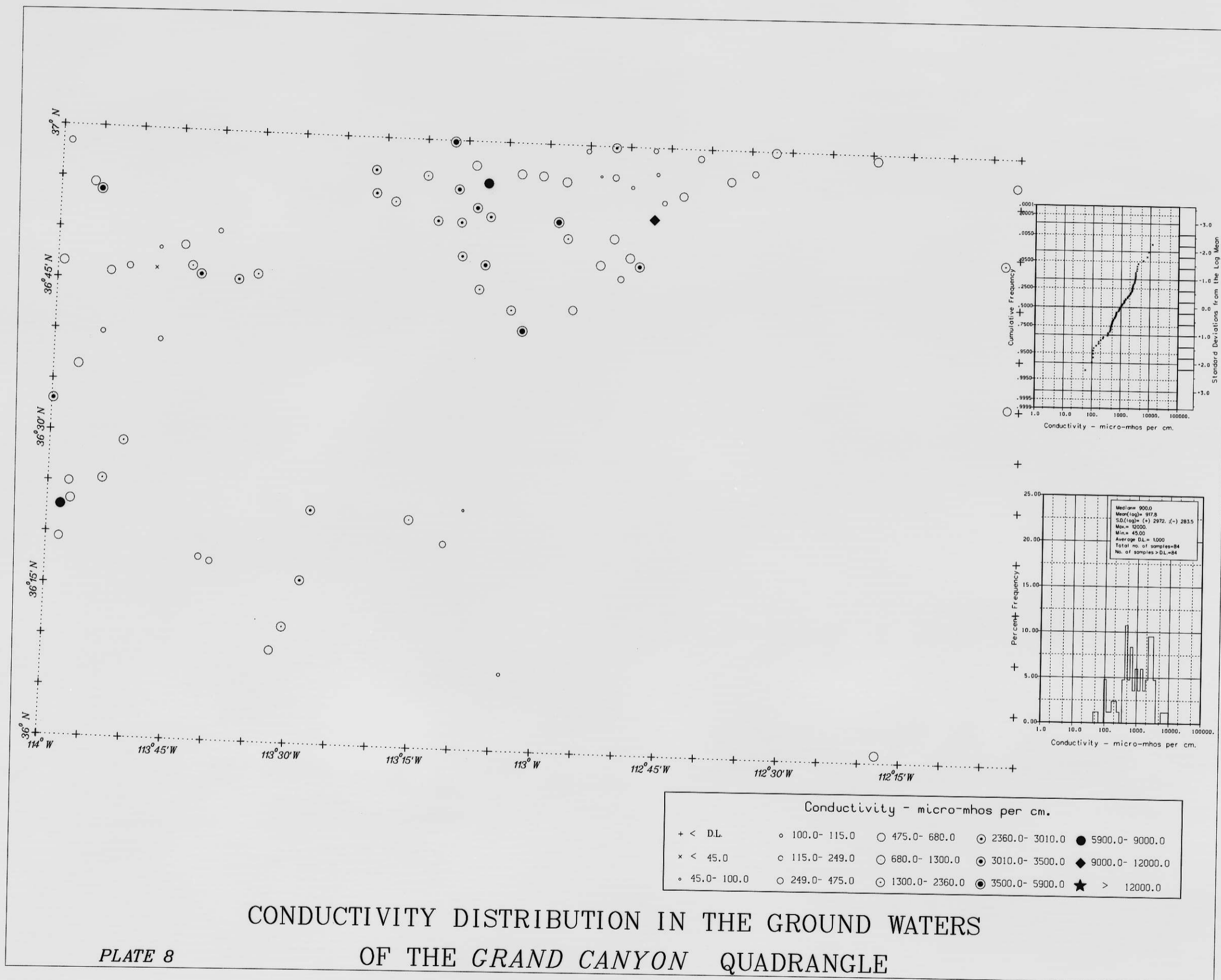
URANIUM DISTRIBUTION IN THE SEDIMENTS
OF THE GRAND CANYON QUADRANGLE





URANIUM DISTRIBUTION IN THE GROUND WATERS
OF THE GRAND CANYON QUADRANGLE

PLATE 7



Conductivity - micro-mhos per cm.					
+ < DL	○ 100.0- 115.0	○ 475.0- 680.0	⊙ 2360.0- 3010.0	● 5900.0- 9000.0	
x < 45.0	○ 115.0- 249.0	○ 680.0- 1300.0	⊙ 3010.0- 3500.0	◆ 9000.0- 12000.0	
○ 45.0- 100.0	○ 249.0- 475.0	⊙ 1300.0- 2360.0	⊙ 3500.0- 5900.0	★ > 12000.0	

CONDUCTIVITY DISTRIBUTION IN THE GROUND WATERS
OF THE GRAND CANYON QUADRANGLE

PLATE 8