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DAM ℄

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                POLYLINE  Layer: ANNOTATIONS
                          Space: Model space
                 Color: BYLAYER    Linetype: CENTER
            Open
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: ANNOTATIONS
                          Space: Model space
                 Color: BYLAYER    Linetype: CENTER
              at point, X=-3861.3124  Y=-2190.5575  Z=4725.0000
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: ANNOTATIONS
                          Space: Model space
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              at point, X=-3785.8680  Y=-2128.8753  Z=4725.0000
   starting width    0.0000
     ending width    0.0000
            bulge   -0.3271
           center X=-3741.5607  Y=-2183.0682  Z=4725.0000
-- Press RETURN for more --



           center X=-3741.5607  Y=-2183.0682  Z=4725.0000
-- Press RETURN for more --
           radius   70.0000
      start angle N 33d10'36" E
        end angle N 39d16'8" W

                VERTEX    Layer: ANNOTATIONS
                          Space: Model space
                 Color: BYLAYER    Linetype: CENTER
              at point, X=-3703.2552  Y=-2124.4791  Z=4725.0000
   starting width    0.0000
     ending width    0.0000
            bulge    0.1474
           center X=-3664.9494  Y=-2065.8901  Z=4725.0000
           radius   70.0000
      start angle S 33d10'37" W
        end angle S 0d21'10" E

                VERTEX    Layer: ANNOTATIONS
                          Space: Model space
                 Color: BYLAYER    Linetype: CENTER
              at point, X=-3664.5183  Y=-2135.8888  Z=4725.0000
   starting width    0.0000
     ending width    0.0000
-- Press RETURN for more --

     ending width    0.0000
-- Press RETURN for more --

                VERTEX    Layer: ANNOTATIONS
                          Space: Model space
                 Color: BYLAYER    Linetype: CENTER
              at point, X=-3531.2698  Y=-2135.0683  Z=4725.0000
   starting width    0.0000
```

```
    ending width    0.0000
           bulge    0.1391
          center X=-3531.7009  Y=-2065.0696  Z=4725.0000
          radius   70.0000
     start angle S 0d21'10" E
       end angle S 32d1'37" E

                 VERTEX    Layer: ANNOTATIONS
                           Space: Model space
                  Color: BYLAYER    Linetype: CENTER
              at point, X=-3494.5787  Y=-2124.4156  Z=4725.0000
   starting width    0.0000
     ending width    0.0000

                 VERTEX    Layer: ANNOTATIONS
                           Space: Model space
-- Press RETURN for more --

                           Space: Model space
-- Press RETURN for more --
                  Color: BYLAYER    Linetype: CENTER
              at point, X=-3278.2506  Y=-1989.0976  Z=4725.0000
   starting width    0.0000
     ending width    0.0000
           bulge   -0.1407
          center X=-3241.1313  Y=-2048.4334  Z=4725.0000
          radius   69.9899
     start angle N 0d0'9" E
       end angle N 32d1'45" W

                 VERTEX    Layer: ANNOTATIONS
                           Space: Model space
                  Color: BYLAYER    Linetype: CENTER
              at point, X=-3241.1284  Y=-1978.4435  Z=4725.0000
   starting width    0.0000
     ending width    0.0000

                 VERTEX    Layer: ANNOTATIONS
                           Space: Model space
                  Color: BYLAYER    Linetype: CENTER
              at point, X=-3017.4989  Y=-1978.4435  Z=4725.0000
   starting width    0.0000
-- Press RETURN for more --

       end angle N 32d1'45" W

                 VERTEX    Layer: ANNOTATIONS
                           Space: Model space
                  Color: BYLAYER    Linetype: CENTER
              at point, X=-3241.1284  Y=-1978.4435  Z=4725.0000
   starting width    0.0000
     ending width    0.0000

                 VERTEX    Layer: ANNOTATIONS
                           Space: Model space
                  Color: BYLAYER    Linetype: CENTER
              at point, X=-3017.4989  Y=-1978.4435  Z=4725.0000
   starting width    0.0000
-- Press RETURN for more --
     ending width    0.0000
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END SEQUENCE Layer: ANNOTATIONS
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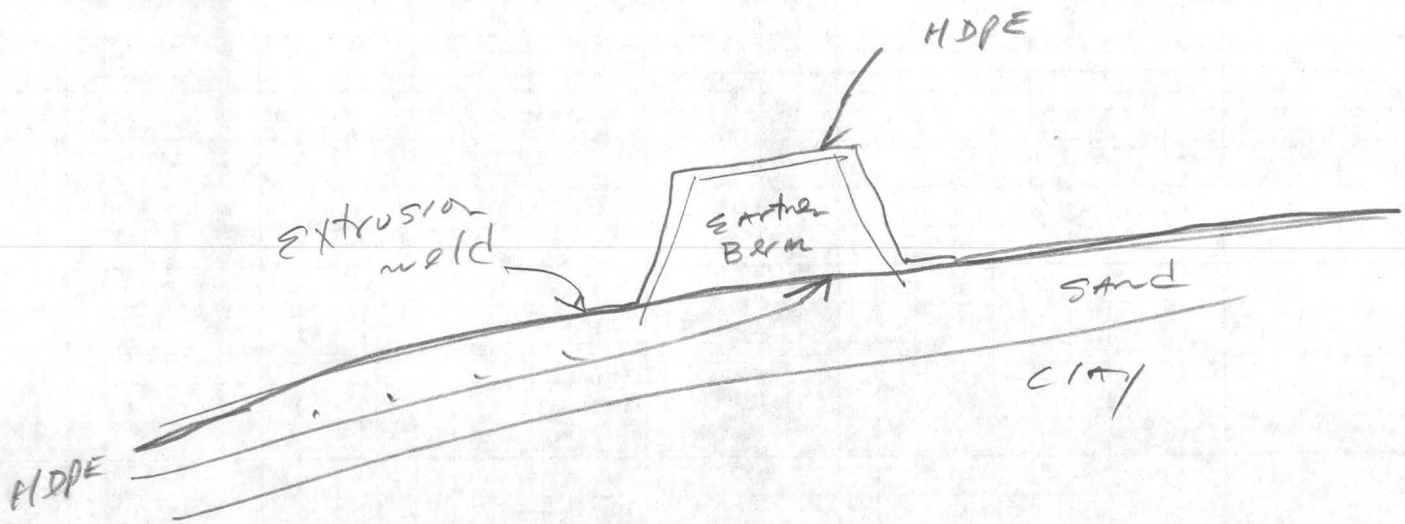
Color: BYLAYER Linetype: CENTER
area 14761.0531
length 916.7938

Command:

National® Brand
13-782 500 SHEETS, FILLER 5 SQUARE
42-381 50 SHEETS EYE-EASE® 5 SQUARE
42-382 100 SHEETS EYE-EASE® 5 SQUARE
42-389 200 SHEETS EYE-EASE® 5 SQUARE
42-392 100 RECYCLED WHITE 5 SQUARE
42-399 200 RECYCLED WHITE 5 SQUARE
Made in U.S.A.



FLOWRATE IS EXPRESSED IN GPM AND PRESSURE IN PSIG

A SUMMARY OF THE ORIGINAL DATA FOLLOWS

THE SPECIFIC GRAVITY OF THIS LIQUID = 1.04

PIPE NO.	NODE NOS.		LENGTH (FEET)	DIAMETER (INCHES)	ROUGHNESS	MINOR LOSS K	FIXED GRADE
1	0	2	358.3	18.0	155.0	.00	4668.50
2	2	3	316.0	18.0	155.0	.00	
3	3	4	128.5	18.0	155.0	.00	
4	4	5	263.3	18.0	155.0	.00	
5	5	6	244.9	18.0	155.0	.00	
6	6	7	897.9	18.0	155.0	.00	
7	7	8	88.6	18.0	155.0	.00	
8	8	9	560.1	18.0	155.0	.00	
9	9	10	74.0	18.0	155.0	.00	
10	10	11	250.0	18.0	155.0	.00	
11	11	12	32.8	18.0	155.0	.00	
12	12	13	55.3	18.0	155.0	.00	
13	13	14	188.6	18.0	155.0	.00	
14	14	15	99.6	18.0	155.0	.00	
15	15	16	183.5	18.0	155.0	.00	
16	16	17	244.8	18.0	155.0	.00	
18	17	20	922.6	18.0	155.0	.00	
19	20	21	181.3	18.0	155.0	.00	
20	21	22	182.5	18.0	155.0	.00	
21	22	23	162.7	18.0	155.0	.00	
22	23	24	101.3	18.0	155.0	.00	
23	24	25	151.5	18.0	155.0	.00	
24	25	26	215.9	18.0	155.0	.00	
25	26	27	68.6	18.0	155.0	.00	
26	27	29	369.6	18.0	155.0	.00	

JUNCTION NUMBER	DEMAND	ELEVATION	CONNECTING PIPES	
2	.00	4640.00	1	2
3	.00	4630.00	2	3
4	.00	4640.00	3	4
5	.00	4630.00	4	5
6	.00	4620.00	5	6
7	.00	4610.00	6	7
8	.00	4590.00	7	8
9	.00	4580.00	8	9
10	.00	4590.00	9	10
11	.00	4580.00	10	11
12	.00	4570.00	11	12
13	.00	4560.00	12	13
14	.00	4570.00	13	14
15	.00	4580.00	14	15
16	.00	4570.00	15	16
17	.00	4560.00	16	18

20	.00	4520.00	18	19
21	.00	4510.00	19	20
22	.00	4490.00	20	21
23	.00	4510.00	21	22
24	.00	4520.00	22	23
25	.00	4530.00	23	24
26	.00	4520.00	24	25
27	.00	4510.00	25	26
29	4800.00	4480.00	26	

OUTPUT SELECTION: ALL RESULTS ARE OUTPUT EACH PERIOD

THIS SYSTEM HAS 25 PIPES WITH 25 JUNCTIONS , 0 LOOPS AND 1 FGNS

THE RESULTS ARE OBTAINED AFTER 2 TRIALS WITH AN ACCURACY = .00000

Zonia Mine
Leach Basin No. 4
PLS Line

PIPE NO.	NODE NOS.		FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	VELOCITY	HL/1000
1	0	2	4800.00	1.66	.00	.00	6.05	4.64
2	2	3	4800.00	1.47	.00	.00	6.05	4.64
3	3	4	4800.00	.60	.00	.00	6.05	4.64
4	4	5	4800.00	1.22	.00	.00	6.05	4.64
5	5	6	4800.00	1.14	.00	.00	6.05	4.64
6	6	7	4800.00	4.17	.00	.00	6.05	4.64
7	7	8	4800.00	.41	.00	.00	6.05	4.64
8	8	9	4800.00	2.60	.00	.00	6.05	4.64
9	9	10	4800.00	.34	.00	.00	6.05	4.64
10	10	11	4800.00	1.16	.00	.00	6.05	4.64
11	11	12	4800.00	.15	.00	.00	6.05	4.64
12	12	13	4800.00	.26	.00	.00	6.05	4.64
13	13	14	4800.00	.88	.00	.00	6.05	4.64
14	14	15	4800.00	.46	.00	.00	6.05	4.64
15	15	16	4800.00	.85	.00	.00	6.05	4.64
16	16	17	4800.00	1.14	.00	.00	6.05	4.64
18	17	20	4800.00	4.28	.00	.00	6.05	4.64
19	20	21	4800.00	.84	.00	.00	6.05	4.64
20	21	22	4800.00	.85	.00	.00	6.05	4.64
21	22	23	4800.00	.76	.00	.00	6.05	4.64
22	23	24	4800.00	.47	.00	.00	6.05	4.64
23	24	25	4800.00	.70	.00	.00	6.05	4.64
24	25	26	4800.00	1.00	.00	.00	6.05	4.64
25	26	27	4800.00	.32	.00	.00	6.05	4.64
26	27	29	4800.00	1.72	.00	.00	6.05	4.64

JUNCTION NUMBER	DEMAND	GRADE LINE	ELEVATION	PRESSURE
2	.00	4666.84	4640.00	12.09
3	.00	4665.37	4630.00	15.94
4	.00	4664.77	4640.00	11.16
5	.00	4663.55	4630.00	15.12
6	.00	4662.41	4620.00	19.11
7	.00	4658.25	4610.00	21.74

8	.00	4657.83	4590.00	30.57
9	.00	4655.23	4580.00	33.91
10	.00	4654.89	4590.00	29.24
11	.00	4653.73	4580.00	33.23
12	.00	4653.58	4570.00	37.67
13	.00	4653.32	4560.00	42.06
14	.00	4652.45	4570.00	37.16
15	.00	4651.98	4580.00	32.44
16	.00	4651.13	4570.00	36.56
17	.00	4650.00	4560.00	40.56
20	.00	4645.71	4520.00	56.65
21	.00	4644.87	4510.00	60.78
22	.00	4644.02	4490.00	69.41
23	.00	4643.27	4510.00	60.06
24	.00	4642.80	4520.00	55.34
25	.00	4642.09	4530.00	50.52
26	.00	4641.09	4520.00	54.57
27	.00	4640.77	4510.00	58.94
29	4800.00	4639.06	4480.00	71.68

THE NET SYSTEM DEMAND = 4800.00

SUMMARY OF INFLOWS(+) AND OUTFLOWS(-) FROM FIXED GRADE NODES

PIPE NUMBER	FLOWRATE
1	4800.00

THE NET FLOW INTO THE SYSTEM FROM FIXED GRADE NODES = 4800.00
THE NET FLOW OUT OF THE SYSTEM INTO FIXED GRADE NODES = .00

FLOWRATE IS EXPRESSED IN GPM AND PRESSURE IN PSIG

A SUMMARY OF THE ORIGINAL DATA FOLLOWS

THE SPECIFIC GRAVITY OF THIS LIQUID = 1.04

PIPE NO.	NODE NOS.		LENGTH (FEET)	DIAMETER (INCHES)	ROUGHNESS	MINOR LOSS K	FIXED GRADE
1	0	2	358.3	16.0	155.0	.00	4668.50
2	2	3	316.0	16.0	155.0	.00	
3	3	4	128.5	16.0	155.0	.00	
4	4	5	263.3	16.0	155.0	.00	
5	5	6	244.9	16.0	155.0	.00	
6	6	7	897.9	16.0	155.0	.00	
7	7	8	88.6	16.0	155.0	.00	
8	8	9	560.1	16.0	155.0	.00	
9	9	10	74.0	16.0	155.0	.00	
10	10	11	250.0	16.0	155.0	.00	
11	11	12	32.8	16.0	155.0	.00	
12	12	13	55.3	16.0	155.0	.00	
13	13	14	188.6	16.0	155.0	.00	
14	14	15	99.6	16.0	155.0	.00	
15	15	16	183.5	16.0	155.0	.00	
16	16	17	244.8	16.0	155.0	.00	
18	17	20	922.6	16.0	155.0	.00	
19	20	21	181.3	16.0	155.0	.00	
20	21	22	182.5	16.0	155.0	.00	
21	22	23	162.7	16.0	155.0	.00	
22	23	24	101.3	16.0	155.0	.00	
23	24	25	151.5	16.0	155.0	.00	
24	25	26	215.9	16.0	155.0	.00	
25	26	27	68.6	16.0	155.0	.00	
26	27	29	369.6	16.0	155.0	.00	

JUNCTION NUMBER	DEMAND	ELEVATION	CONNECTING PIPES	
2	.00	4640.00	1	2
3	.00	4630.00	2	3
4	.00	4640.00	3	4
5	.00	4630.00	4	5
6	.00	4620.00	5	6
7	.00	4610.00	6	7
8	.00	4590.00	7	8
9	.00	4580.00	8	9
10	.00	4590.00	9	10
11	.00	4580.00	10	11
12	.00	4570.00	11	12
13	.00	4560.00	12	13
14	.00	4570.00	13	14
15	.00	4580.00	14	15
16	.00	4570.00	15	16
17	.00	4560.00	16	18

20	.00	4520.00	18	19
21	.00	4510.00	19	20
22	.00	4490.00	20	21
23	.00	4510.00	21	22
24	.00	4520.00	22	23
25	.00	4530.00	23	24
26	.00	4520.00	24	25
27	.00	4510.00	25	26
29	4800.00	4480.00	26	

OUTPUT SELECTION: ALL RESULTS ARE OUTPUT EACH PERIOD

THIS SYSTEM HAS 25 PIPES WITH 25 JUNCTIONS , 0 LOOPS AND 1 FGNS

THE RESULTS ARE OBTAINED AFTER 2 TRIALS WITH AN ACCURACY = .00000

Zonia Mine
Leach Basin No. 4
PLS Line

PIPE NO.	NODE NOS.		FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	VELOCITY	HL/1000
1	0	2	4800.00	2.95	.00	.00	7.66	8.24
2	2	3	4800.00	2.60	.00	.00	7.66	8.24
3	3	4	4800.00	1.06	.00	.00	7.66	8.24
4	4	5	4800.00	2.17	.00	.00	7.66	8.24
5	5	6	4800.00	2.02	.00	.00	7.66	8.24
6	6	7	4800.00	7.40	.00	.00	7.66	8.24
7	7	8	4800.00	.73	.00	.00	7.66	8.24
8	8	9	4800.00	4.61	.00	.00	7.66	8.24
9	9	10	4800.00	.61	.00	.00	7.66	8.24
10	10	11	4800.00	2.06	.00	.00	7.66	8.24
11	11	12	4800.00	.27	.00	.00	7.66	8.24
12	12	13	4800.00	.46	.00	.00	7.66	8.24
13	13	14	4800.00	1.55	.00	.00	7.66	8.24
14	14	15	4800.00	.82	.00	.00	7.66	8.24
15	15	16	4800.00	1.51	.00	.00	7.66	8.24
16	16	17	4800.00	2.02	.00	.00	7.66	8.24
18	17	20	4800.00	7.60	.00	.00	7.66	8.24
19	20	21	4800.00	1.49	.00	.00	7.66	8.24
20	21	22	4800.00	1.50	.00	.00	7.66	8.24
21	22	23	4800.00	1.34	.00	.00	7.66	8.24
22	23	24	4800.00	.83	.00	.00	7.66	8.24
23	24	25	4800.00	1.25	.00	.00	7.66	8.24
24	25	26	4800.00	1.78	.00	.00	7.66	8.24
25	26	27	4800.00	.57	.00	.00	7.66	8.24
26	27	29	4800.00	3.04	.00	.00	7.66	8.24

JUNCTION NUMBER	DEMAND	GRADE LINE	ELEVATION	PRESSURE
2	.00	4665.55	4640.00	11.51
3	.00	4662.95	4630.00	14.85
4	.00	4661.89	4640.00	9.86
5	.00	4659.72	4630.00	13.39
6	.00	4657.70	4620.00	16.99
7	.00	4650.30	4610.00	18.16

8	.00	4649.57	4590.00	26.85
9	.00	4644.96	4580.00	29.27
10	.00	4644.35	4590.00	24.49
11	.00	4642.29	4580.00	28.07
12	.00	4642.02	4570.00	32.46
13	.00	4641.56	4560.00	36.76
14	.00	4640.01	4570.00	31.55
15	.00	4639.19	4580.00	26.67
16	.00	4637.68	4570.00	30.50
17	.00	4635.66	4560.00	34.10
20	.00	4628.06	4520.00	48.70
21	.00	4626.57	4510.00	52.53
22	.00	4625.06	4490.00	60.87
23	.00	4623.72	4510.00	51.25
24	.00	4622.89	4520.00	46.37
25	.00	4621.64	4530.00	41.30
26	.00	4619.86	4520.00	45.00
27	.00	4619.30	4510.00	49.26
29	4800.00	4616.25	4480.00	61.40

THE NET SYSTEM DEMAND = 4800.00

SUMMARY OF INFLOWS(+) AND OUTFLOWS(-) FROM FIXED GRADE NODES

PIPE NUMBER	FLOWRATE
1	4800.00

THE NET FLOW INTO THE SYSTEM FROM FIXED GRADE NODES = 4800.00
THE NET FLOW OUT OF THE SYSTEM INTO FIXED GRADE NODES = .00

LEACH BASIN NO. 4
PLS PIPE LINE

FLOWRATE IS EXPRESSED IN GPM AND PRESSURE IN PSIG

A SUMMARY OF THE ORIGINAL DATA FOLLOWS

THE SPECIFIC GRAVITY OF THIS LIQUID = 1.04

PIPE NO.	NODE NOS.		LENGTH (FEET)	DIAMETER (INCHES)	ROUGHNESS	MINOR LOSS K	FIXED GRADE
1	0	2	358.3	14.0	155.0	.00	4668.50
2	2	3	316.0	14.0	155.0	.00	
3	3	4	128.5	14.0	155.0	.00	
4	4	5	263.3	14.0	155.0	.00	
5	5	6	244.9	14.0	155.0	.00	
6	6	7	897.9	14.0	155.0	.00	
7	7	8	88.6	14.0	155.0	.00	
8	8	9	560.1	14.0	155.0	.00	
9	9	10	74.0	14.0	155.0	.00	
10	10	11	250.0	14.0	155.0	.00	
11	11	12	32.8	14.0	155.0	.00	
12	12	13	55.3	14.0	155.0	.00	
13	13	14	188.6	14.0	155.0	.00	
14	14	15	99.6	14.0	155.0	.00	
15	15	16	183.5	14.0	155.0	.00	
16	16	17	244.8	14.0	155.0	.00	
18	17	20	922.6	14.0	155.0	.00	
19	20	21	181.3	14.0	155.0	.00	
20	21	22	182.5	14.0	155.0	.00	
21	22	23	162.7	14.0	155.0	.00	
22	23	24	101.3	14.0	155.0	.00	
23	24	25	151.5	14.0	155.0	.00	
24	25	26	215.9	14.0	155.0	.00	
25	26	27	68.6	14.0	155.0	.00	
26	27	29	369.6	14.0	155.0	.00	
			6447.7				

JUNCTION NUMBER	DEMAND	ELEVATION	CONNECTING PIPES	
2	.00	4640.00	1	2
3	.00	4630.00	2	3
4	.00	4640.00	3	4
5	.00	4630.00	4	5
6	.00	4620.00	5	6
7	.00	4610.00	6	7
8	.00	4590.00	7	8
9	.00	4580.00	8	9
10	.00	4590.00	9	10
11	.00	4580.00	10	11
12	.00	4570.00	11	12
13	.00	4560.00	12	13
14	.00	4570.00	13	14
15	.00	4580.00	14	15
16	.00	4570.00	15	16
17	.00	4560.00	16	18

20	.00	4520.00	18	19
21	.00	4510.00	19	20
22	.00	4490.00	20	21
23	.00	4510.00	21	22
24	.00	4520.00	22	23
25	.00	4530.00	23	24
26	.00	4520.00	24	25
27	.00	4510.00	25	26
29	4800.00	4480.00	26	

OUTPUT SELECTION: ALL RESULTS ARE OUTPUT EACH PERIOD

THIS SYSTEM HAS 25 PIPES WITH 25 JUNCTIONS , 0 LOOPS AND 1 FGNS

THE RESULTS ARE OBTAINED AFTER 2 TRIALS WITH AN ACCURACY = .00000

Zonia Mine
Leach Basin No. 4
PLS Line

PIPE NO.	NODE NOS.		FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	VELOCITY	HL/1000
1	0	2	4800.00	5.66	.00	.00	10.00	15.79
2	2	3	4800.00	4.99	.00	.00	10.00	15.79
3	3	4	4800.00	2.03	.00	.00	10.00	15.79
4	4	5	4800.00	4.16	.00	.00	10.00	15.79
5	5	6	4800.00	3.87	.00	.00	10.00	15.79
6	6	7	4800.00	14.17	.00	.00	10.00	15.79
7	7	8	4800.00	1.40	.00	.00	10.00	15.79
8	8	9	4800.00	8.84	.00	.00	10.00	15.79
9	9	10	4800.00	1.17	.00	.00	10.00	15.79
10	10	11	4800.00	3.95	.00	.00	10.00	15.79
11	11	12	4800.00	.52	.00	.00	10.00	15.79
12	12	13	4800.00	.87	.00	.00	10.00	15.79
13	13	14	4800.00	2.98	.00	.00	10.00	15.79
14	14	15	4800.00	1.57	.00	.00	10.00	15.79
15	15	16	4800.00	2.90	.00	.00	10.00	15.79
16	16	17	4800.00	3.86	.00	.00	10.00	15.79
18	17	20	4800.00	14.56	.00	.00	10.00	15.79
19	20	21	4800.00	2.86	.00	.00	10.00	15.79
20	21	22	4800.00	2.88	.00	.00	10.00	15.79
21	22	23	4800.00	2.57	.00	.00	10.00	15.79
22	23	24	4800.00	1.60	.00	.00	10.00	15.79
23	24	25	4800.00	2.39	.00	.00	10.00	15.79
24	25	26	4800.00	3.41	.00	.00	10.00	15.79
25	26	27	4800.00	1.08	.00	.00	10.00	15.79
26	27	29	4800.00	5.83	.00	.00	10.00	15.79

JUNCTION NUMBER	DEMAND	GRADE LINE	ELEVATION	PRESSURE
2	.00	4662.84	4640.00	10.30
3	.00	4657.86	4630.00	12.55
4	.00	4655.83	4640.00	7.13
5	.00	4651.67	4630.00	9.77
6	.00	4647.80	4620.00	12.53
7	.00	4633.63	4610.00	10.65

8	.00	4632.23	4590.00	19.03
9	.00	4623.39	4580.00	19.55
10	.00	4622.22	4590.00	14.52
11	.00	4618.28	4580.00	17.25
12	.00	4617.76	4570.00	21.52
13	.00	4616.89	4560.00	25.64
14	.00	4613.91	4570.00	19.79
15	.00	4612.34	4580.00	14.57
16	.00	4609.44	4570.00	17.77
17	.00	4605.57	4560.00	20.54
20	.00	4591.01	4520.00	32.00
21	.00	4588.15	4510.00	35.22
22	.00	4585.27	4490.00	42.93
23	.00	4582.70	4510.00	32.76
24	.00	4581.10	4520.00	27.54
25	.00	4578.71	4530.00	21.95
26	.00	4575.30	4520.00	24.92
27	.00	4574.22	4510.00	28.94
29	4800.00	4568.30	4480.00	39.83

THE NET SYSTEM DEMAND = 4800.00

SUMMARY OF INFLOWS(+) AND OUTFLOWS(-) FROM FIXED GRADE NODES

PIPE NUMBER	FLOWRATE
1	4800.00

THE NET FLOW INTO THE SYSTEM FROM FIXED GRADE NODES = 4800.00
THE NET FLOW OUT OF THE SYSTEM INTO FIXED GRADE NODES = .00

FLOWRATE IS EXPRESSED IN GPM AND PRESSURE IN PSIG

A SUMMARY OF THE ORIGINAL DATA FOLLOWS

THE SPECIFIC GRAVITY OF THIS LIQUID = 1.04

PIPE NO.	NODE NOS.		LENGTH (FEET)	DIAMETER (INCHES)	ROUGHNESS	MINOR LOSS K	FIXED GRADE
1	0	2	358.3	12.0	155.0	.00	4668.50
2	2	3	316.0	12.0	155.0	.00	
3	3	4	128.5	12.0	155.0	.00	
4	4	5	263.3	12.0	155.0	.00	
5	5	6	244.9	12.0	155.0	.00	
6	6	7	897.9	12.0	155.0	.00	
7	7	8	88.6	12.0	155.0	.00	
8	8	9	560.1	12.0	155.0	.00	
9	9	10	74.0	12.0	155.0	.00	
10	10	11	250.0	12.0	155.0	.00	
11	11	12	32.8	12.0	155.0	.00	
12	12	13	55.3	12.0	155.0	.00	
13	13	14	188.6	12.0	155.0	.00	
14	14	15	99.6	12.0	155.0	.00	
15	15	16	183.5	12.0	155.0	.00	
16	16	17	244.8	12.0	155.0	.00	
18	17	20	922.6	12.0	155.0	.00	
19	20	21	181.3	12.0	155.0	.00	
20	21	22	182.5	12.0	155.0	.00	
21	22	23	162.7	12.0	155.0	.00	
22	23	24	101.3	12.0	155.0	.00	
23	24	25	151.5	12.0	155.0	.00	
24	25	26	215.9	12.0	155.0	.00	
25	26	27	68.6	12.0	155.0	.00	
26	27	29	369.6	12.0	155.0	.00	

JUNCTION NUMBER	DEMAND	ELEVATION	CONNECTING PIPES	
2	.00	4640.00	1	2
3	.00	4630.00	2	3
4	.00	4640.00	3	4
5	.00	4630.00	4	5
6	.00	4620.00	5	6
7	.00	4610.00	6	7
8	.00	4590.00	7	8
9	.00	4580.00	8	9
10	.00	4590.00	9	10
11	.00	4580.00	10	11
12	.00	4570.00	11	12
13	.00	4560.00	12	13
14	.00	4570.00	13	14
15	.00	4580.00	14	15
16	.00	4570.00	15	16
17	.00	4560.00	16	18

20	.00	4520.00	18	19
21	.00	4510.00	19	20
22	.00	4490.00	20	21
23	.00	4510.00	21	22
24	.00	4520.00	22	23
25	.00	4530.00	23	24
26	.00	4520.00	24	25
27	.00	4510.00	25	26
29	4800.00	4480.00	26	

OUTPUT SELECTION: ALL RESULTS ARE OUTPUT EACH PERIOD

THIS SYSTEM HAS 25 PIPES WITH 25 JUNCTIONS , 0 LOOPS AND 1 FGNS

THE RESULTS ARE OBTAINED AFTER 2 TRIALS WITH AN ACCURACY = .00000

Zonia Mine
Leach Basin No. 4
PLS Line

PIPE NO.	NODE NOS.		FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	VELOCITY	HL/1000
1	0	2	4800.00	11.98	.00	.00	13.62	33.44
2	2	3	4800.00	10.57	.00	.00	13.62	33.44
3	3	4	4800.00	4.30	.00	.00	13.62	33.44
4	4	5	4800.00	8.81	.00	.00	13.62	33.44
5	5	6	4800.00	8.19	.00	.00	13.62	33.44
6	6	7	4800.00	30.03	.00	.00	13.62	33.44
7	7	8	4800.00	2.96	.00	.00	13.62	33.44
8	8	9	4800.00	18.73	.00	.00	13.62	33.44
9	9	10	4800.00	2.47	.00	.00	13.62	33.44
10	10	11	4800.00	8.36	.00	.00	13.62	33.44
11	11	12	4800.00	1.10	.00	.00	13.62	33.44
12	12	13	4800.00	1.85	.00	.00	13.62	33.44
13	13	14	4800.00	6.31	.00	.00	13.62	33.44
14	14	15	4800.00	3.33	.00	.00	13.62	33.44
15	15	16	4800.00	6.14	.00	.00	13.62	33.44
16	16	17	4800.00	8.19	.00	.00	13.62	33.44
18	17	20	4800.00	30.85	.00	.00	13.62	33.44
19	20	21	4800.00	6.06	.00	.00	13.62	33.44
20	21	22	4800.00	6.10	.00	.00	13.62	33.44
21	22	23	4800.00	5.44	.00	.00	13.62	33.44
22	23	24	4800.00	3.39	.00	.00	13.62	33.44
23	24	25	4800.00	5.07	.00	.00	13.62	33.44
24	25	26	4800.00	7.22	.00	.00	13.62	33.44
25	26	27	4800.00	2.29	.00	.00	13.62	33.44
26	27	29	4800.00	12.36	.00	.00	13.62	33.44

JUNCTION NUMBER	DEMAND	GRADE LINE	ELEVATION	PRESSURE
2	.00	4656.52	4640.00	7.44
3	.00	4645.95	4630.00	7.19
4	.00	4641.65	4640.00	.75
5	.00	4632.85	4630.00	1.28
6	.00	4624.66	4620.00	2.10
7	.00	4594.63	4610.00	-6.93

8	.00	4591.66	4590.00	.75
9	.00	4572.93	4580.00	-3.18
10	.00	4570.46	4590.00	-8.81
11	.00	4562.10	4580.00	-8.07
12	.00	4561.00	4570.00	-4.05
13	.00	4559.15	4560.00	-.38
14	.00	4552.85	4570.00	-7.73
15	.00	4549.51	4580.00	-13.74
16	.00	4543.38	4570.00	-12.00
17	.00	4535.19	4560.00	-11.18
20	.00	4504.34	4520.00	-7.06
21	.00	4498.27	4510.00	-5.28
22	.00	4492.17	4490.00	.98
23	.00	4486.73	4510.00	-10.49
24	.00	4483.34	4520.00	-16.52
25	.00	4478.28	4530.00	-23.31
26	.00	4471.06	4520.00	-22.06
27	.00	4468.76	4510.00	-18.58
29	4800.00	4456.40	4480.00	-10.63

THE NET SYSTEM DEMAND = 4800.00

SUMMARY OF INFLOWS(+) AND OUTFLOWS(-) FROM FIXED GRADE NODES

PIPE NUMBER	FLOWRATE
1	4800.00

THE NET FLOW INTO THE SYSTEM FROM FIXED GRADE NODES = 4800.00
THE NET FLOW OUT OF THE SYSTEM INTO FIXED GRADE NODES = .00

LEACH BASIN NO. 4

PLS LINE

```
POLYLINE  Layer: PROFILE
          Space: Model space
 Open space

VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=8625.5670  Y=5829.4761  Z=4660.0000

VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=8588.0163  Y=5939.0269  Z=   0.0000

VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=8452.0090  Y=5992.2374  Z=4660.0000

VERTEX    Layer: PROFILE
          Space: Model space
Space
-- Press RETURN for more --



Space
-- Press RETURN for more --
  at point, X=8369.9375  Y=5995.1569  Z=4660.0000

VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=8306.8125  Y=5993.0617  Z=4640.0000

VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=8257.7481  Y=5995.8666  Z=4640.0000

VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=8109.9292  Y=5985.8422  Z=   0.0000

VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=8059.1092  Y=6156.0936  Z=4640.0000

-- Press RETURN for more --


-- Press RETURN for more --
VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=8049.3258  Y=6176.1611  Z=4630.0000

VERTEX    Layer: PROFILE
          Space: Model space
Space
  at point, X=7980.9183  Y=6259.0690  Z=4630.0000
```

```
                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7959.3188  Y=6276.6713  Z=4640.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7876.4585  Y=6430.2582  Z=4640.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
-- Press RETURN for more --

                          Space: Model space
-- Press RETURN for more --
          Space
            at point, X=7841.6290  Y=6506.9711  Z=4630.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7712.3042  Y=6714.9532  Z=4620.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7568.6659  Y=7009.5551  Z=4620.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7512.0622  Y=7167.2559  Z=4620.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7494.0782  Y=7314.3941  Z=4620.0000
-- Press RETURN for more --

            at point, X=7494.0782  Y=7314.3941  Z=4620.0000
-- Press RETURN for more --

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7519.8509  Y=7427.3326  Z=4620.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7596.3932  Y=7493.6950  Z=4620.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7701.0277  Y=7573.2321  Z=4620.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7750.2471  Y=7612.0340  Z=4610.0000

                VERTEX    Layer: PROFILE
-- Press RETURN for more --
```

```
                VERTEX    Layer: PROFILE
-- Press RETURN for more --
                          Space: Model space
            Space
               at point, X=7818.7002  Y=7668.3246  Z=4590.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=7884.4202  Y=7734.6704  Z=4590.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=7920.3499  Y=7799.1225  Z=4590.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=7972.5172  Y=7977.2259  Z=4590.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
-- Press RETURN for more --

            Space
-- Press RETURN for more --
               at point, X=7990.2929  Y=8044.5002  Z=4590.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=8010.6830  Y=8078.3094  Z=4590.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=8038.0249  Y=8183.6862  Z=4580.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=8064.9000  Y=8252.6045  Z=4590.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=8151.8650  Y=8457.4493  Z=4590.0000

-- Press RETURN for more --


-- Press RETURN for more --
                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=8157.8512  Y=8484.6600  Z=4580.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
            Space
               at point, X=8166.8993  Y=8516.1465  Z=4570.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
```

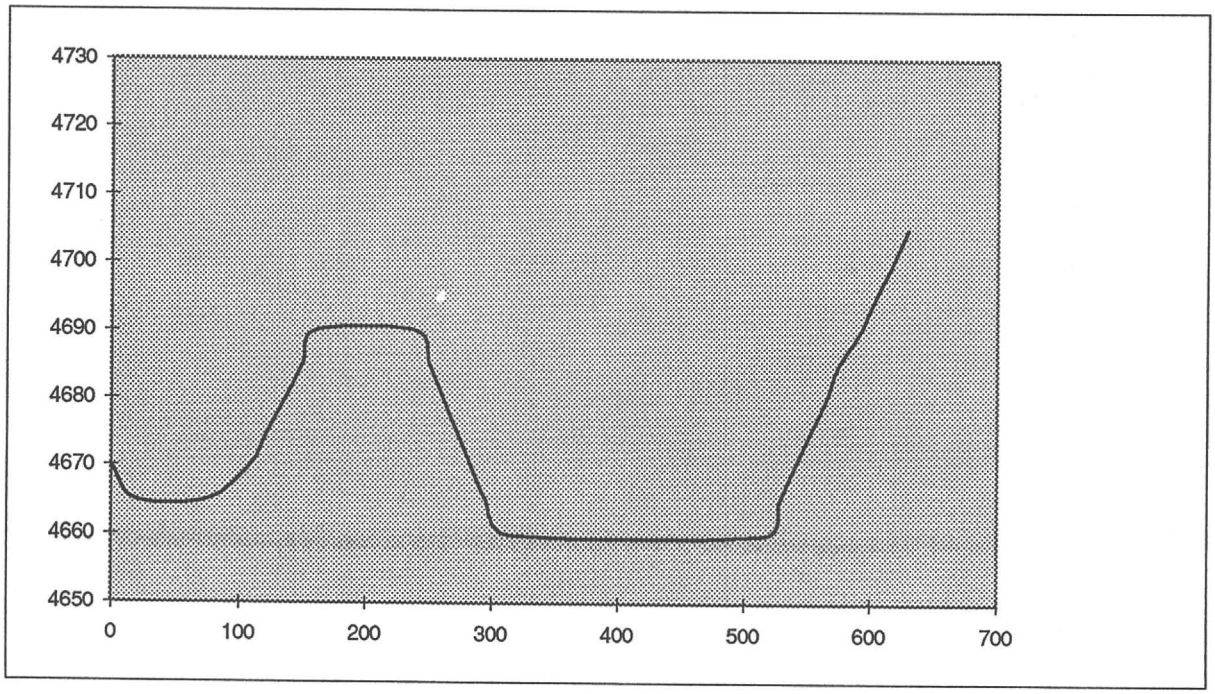
```
            Space
               at point, X=8177.0418  Y=8570.4753  Z=4560.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=8187.4298  Y=8725.6975  Z=4560.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
-- Press RETURN for more --

                           Space: Model space
-- Press RETURN for more --
            Space
               at point, X=8181.9510  Y=8759.0465  Z=4570.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=8138.9016  Y=8848.8715  Z=4580.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=8069.0195  Y=8948.7149  Z=4580.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=8024.5022  Y=8992.3314  Z=4570.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=7954.7984  Y=9067.7763  Z=4570.0000
-- Press RETURN for more --

               at point, X=7954.7984  Y=9067.7763  Z=4570.0000
-- Press RETURN for more --

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=7866.1528  Y=9179.0094  Z=4560.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=7756.3181  Y=9398.9884  Z=4560.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=7736.2506  Y=9484.9455  Z=4560.0000

                 VERTEX    Layer: PROFILE
                           Space: Model space
            Space
               at point, X=7695.5594  Y=9678.1965  Z=4560.0000

                 VERTEX    Layer: PROFILE
-- Press RETURN for more --

                 VERTEX    Layer: PROFILE
-- Press RETURN for more --
```

```
                    Space: Model space
          Space
            at point, X=7546.7538  Y=9880.4329  Z=4560.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7599.7829  Y=10017.1331  Z=4540.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7613.7001  Y=10035.3000  Z=4530.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7630.3861  Y=10070.9504  Z=4520.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
-- Press RETURN for more --

          Space
-- Press RETURN for more --
            at point, X=7635.6763  Y=10133.3010  Z=4520.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7646.9558  Y=10251.4378  Z=4510.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7608.5681  Y=10429.8873  Z=4490.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7594.1087  Y=10508.0810  Z=4490.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7585.4978  Y=10590.9014  Z=4510.0000

-- Press RETURN for more --


-- Press RETURN for more --
              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7589.5343  Y=10692.1359  Z=4520.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7571.0433  Y=10798.6098  Z=4520.0000

              VERTEX    Layer: PROFILE
                        Space: Model space
          Space
            at point, X=7587.5019  Y=10843.5916  Z=4530.0000
```

```
                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7624.4414  Y=10969.0785  Z=4530.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
-- Press RETURN for more --

                          Space: Model space
-- Press RETURN for more --
          Space
            at point, X=7693.1295  Y=10982.6155  Z=4530.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7750.3123  Y=10985.3472  Z=4520.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7818.8000  Y=10989.5000  Z=4510.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=7996.5955  Y=11011.9954  Z=4490.0000

                VERTEX    Layer: PROFILE
                          Space: Model space
          Space
            at point, X=8175.4832  Y=11086.2201  Z=4480.0000
-- Press RETURN for more --
```

ZONIA MINE
Leach Basin No. 4
Sect A - Proposed

#	Distance	Elevation		#	Distance	Elevation
1	0	4670	10			
2	18.87097	4665	0			
3	74.88839	4665	0			
4	108.4488	4670	10			
5	122.1181	4675	20			
6	136.5016	4680	30			
7	149.947	4685	40			
8	160.7729	4690	50			
9	238.8099	4690	50			
10	250.0098	4685	40			
11	261.0136	4680	30			
12	272.0578	4675	20			
13	283.1338	4670	10			
14	295.4722	4665	0			
15	312.1305	4660	-10			
16	517.8214	4660	-10			
17	528.3485	4665	0			
18	540.3837	4670	10			
19	552.4147	4675	20			
20	564.9291	4680	30			
21	574.7565	4685	40			
22	591.8322	4690	50			
23	603.9135	4695	60			
24	617.2685	4700	70			
25	629.3819	4705	80			



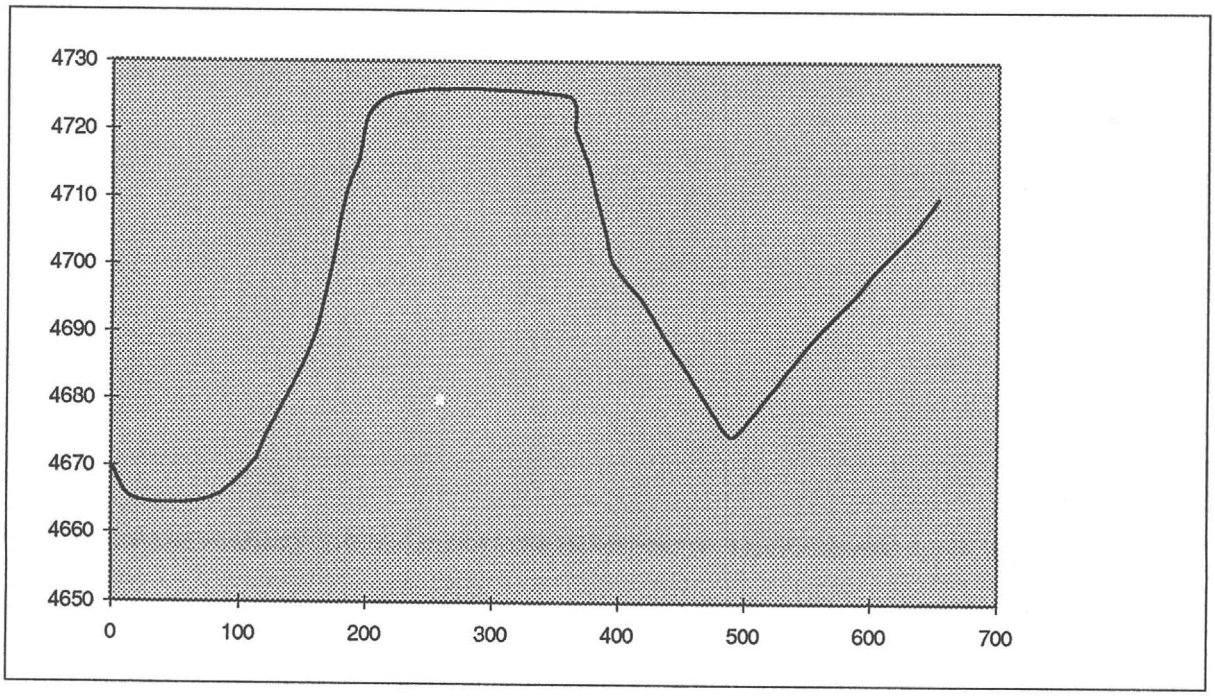
```
                POLYLINE  Layer: PAPER_TEXT
                          Space: Model space
          Open space

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
            at point, X=-3946.8116  Y=-2003.5031  Z=4670.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
            at point, X=-3934.3431  Y=-2017.6682  Z=4665.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
            at point, X=-3890.7149  Y=-2052.8041  Z=4665.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
-- Press RETURN for more --



         Space
-- Press RETURN for more --
            at point, X=-3871.4557  Y=-2080.2884  Z=4670.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
            at point, X=-3861.5933  Y=-2089.7531  Z=4675.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
            at point, X=-3851.5834  Y=-2100.0821  Z=4680.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
            at point, X=-3840.2097  Y=-2107.2527  Z=4685.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
            at point, X=-3833.4300  Y=-2115.6928  Z=4690.0000

-- Press RETURN for more --


-- Press RETURN for more --
                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
         Space
            at point, X=-3780.4978  Y=-2173.0335  Z=4690.0000

                VERTEX    Layer: PAPER_TEXT
```

```
                         Space: Model space
            Space
               at point, X=-3771.6282  Y=-2179.8723  Z=4685.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3764.3388  Y=-2188.1154  Z=4680.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3756.6659  Y=-2196.0590  Z=4675.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
-- Press RETURN for more --

                           Space: Model space
-- Press RETURN for more --
            Space
               at point, X=-3748.7831  Y=-2203.8397  Z=4670.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3740.4645  Y=-2212.9521  Z=4665.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3726.6813  Y=-2222.3074  Z=4660.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3567.1876  Y=-2352.1939  Z=4660.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3558.8955  Y=-2358.6794  Z=4665.0000
-- Press RETURN for more --

               at point, X=-3558.8955  Y=-2358.6794  Z=4665.0000
-- Press RETURN for more --

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3549.2509  Y=-2365.8785  Z=4670.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3539.7647  Y=-2373.2783  Z=4675.0000

                 VERTEX    Layer: PAPER_TEXT
                           Space: Model space
            Space
               at point, X=-3529.5506  Y=-2380.5090  Z=4680.0000
```

```
                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3520.4493  Y=-2384.2163  Z=4690.0000

                VERTEX    Layer: PAPER_TEXT
-- Press RETURN for more --

                VERTEX    Layer: PAPER_TEXT
-- Press RETURN for more --
                          Space: Model space
            Space
               at point, X=-3506.3159  Y=-2393.7990  Z=4690.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3497.0876  Y=-2401.5961  Z=4695.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3485.5347  Y=-2408.2959  Z=4700.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3476.2191  Y=-2416.0389  Z=4705.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
-- Press RETURN for more --

            Space
               at point, X=-3497.0876  Y=-2401.5961  Z=4695.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3485.5347  Y=-2408.2959  Z=4700.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3476.2191  Y=-2416.0389  Z=4705.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
-- Press RETURN for more --
               at point, X=-3454.5311  Y=-2430.3184  Z=4710.0000

                END SEQUENCE  Layer: PAPER_TEXT
                          Space: Model space
  Points not coplanar.  No area calculated.


Command:
```

ZONIA MINE
Leach Basin No. 4
Sect A - Natural Ground

#	Distance	Elevation	
1	0	4670	10
2	18.87097	4665	0
3	74.88839	4665	0
4	108.4488	4670	10
5	122.1181	4675	20
6	136.5016	4680	30
7	149.947	4685	40
8	160.7729	4690	50
9	166.9326	4695	60
10	173.0848	4700	70
11	177.5766	4705	80
12	183.3378	4710	90
13	192.9451	4715	100
14	219.2499	4725	120
15	357.4095	4725	120
16	364.8615	4720	110
17	374.837	4715	100
18	381.7533	4710	90
19	388.7761	4705	80
20	395.8961	4700	70
21	417.5396	4695	60
22	434.3493	4690	50
23	451.75	4685	40
24	468.7088	4680	30
25	486.2648	4675	20
26	494.1372	4675	20
27	516.1109	4680	30
28	536.7452	4685	40
29	558.5765	4690	50
30	584.9186	4695	60
31	607.6201	4700	70
32	633.3075	4705	80
33	652.9571	4710	90



```
                POLYLINE  Layer: PAPER_TEXT
                          Space: Model space
         Open space

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
           at point, X=-3834.6216  Y=-2114.2092  Z=4689.1212

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
           at point, X=-3832.3442  Y=-2121.7561  Z=4695.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
           at point, X=-3828.4186  Y=-2126.4931  Z=4700.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
-- Press RETURN for more --



        Space
-- Press RETURN for more --
           at point, X=-3825.6967  Y=-2130.0662  Z=4705.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
           at point, X=-3823.0090  Y=-2135.1621  Z=4710.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
           at point, X=-3817.0876  Y=-2142.7276  Z=4715.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
           at point, X=-3798.2014  Y=-2161.0375  Z=4725.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
           at point, X=-3696.0609  Y=-2254.0720  Z=4725.0000

-- Press RETURN for more --


-- Press RETURN for more --
                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
        Space
           at point, X=-3691.9535  Y=-2260.2898  Z=4720.0000

                VERTEX    Layer: PAPER_TEXT
```

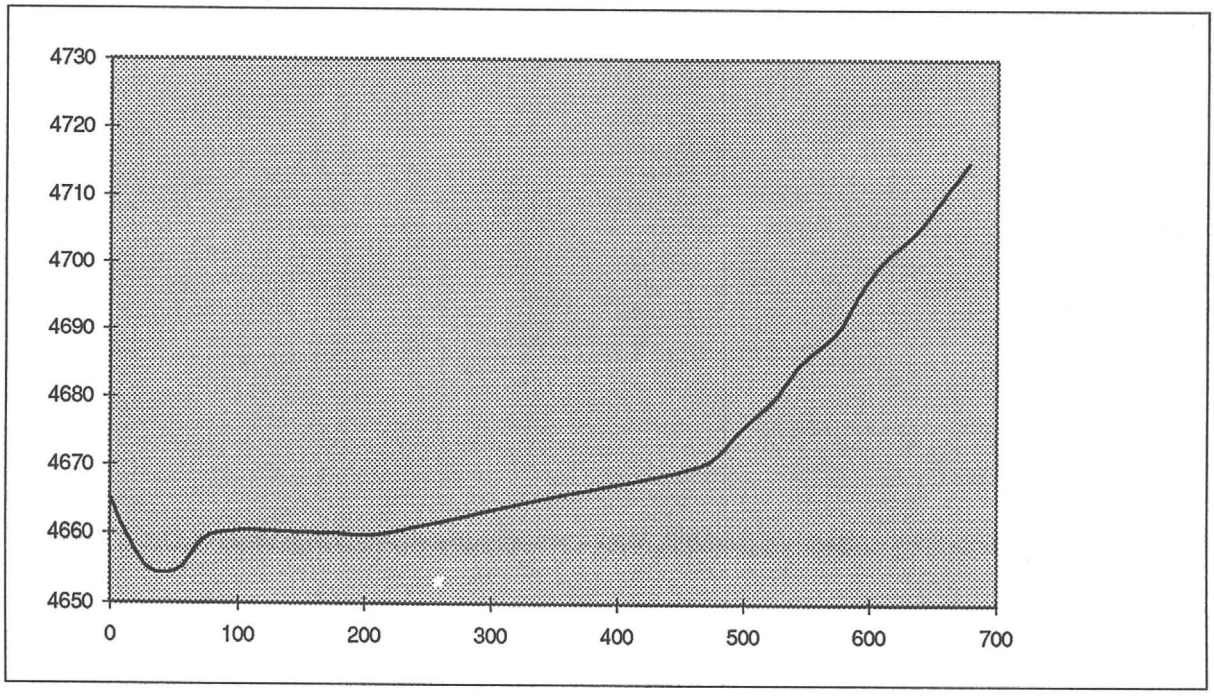
```
                              Space: Model space
            Space
               at point, X=-3684.8292  Y=-2267.2722  Z=4715.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3680.0838  Y=-2272.3038  Z=4725.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3675.1170  Y=-2277.2687  Z=4725.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
-- Press RETURN for more --

                              Space: Model space
-- Press RETURN for more --
            Space
               at point, X=-3669.3225  Y=-2281.4061  Z=4725.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3650.9728  Y=-2292.8836  Z=4725.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3637.9831  Y=-2303.5528  Z=4690.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3623.6243  Y=-2313.3818  Z=4685.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3610.6028  Y=-2324.2465  Z=4680.0000
-- Press RETURN for more --

               at point, X=-3610.6028  Y=-2324.2465  Z=4680.0000
-- Press RETURN for more --

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3597.6811  Y=-2336.1310  Z=4675.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3591.7682  Y=-2341.3284  Z=4675.0000

                 VERTEX    Layer: PAPER_TEXT
                              Space: Model space
            Space
               at point, X=-3574.4533  Y=-2354.8575  Z=4680.0000
```

```
                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3560.0024  Y=-2369.5866  Z=4685.0000

                VERTEX    Layer: PAPER_TEXT
-- Press RETURN for more --

                VERTEX    Layer: PAPER_TEXT
-- Press RETURN for more --
                          Space: Model space
            Space
               at point, X=-3542.5926  Y=-2382.7588  Z=4690.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3521.9845  Y=-2399.1665  Z=4695.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3502.4468  Y=-2410.7265  Z=4700.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3478.3664  Y=-2419.6696  Z=4705.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
-- Press RETURN for more --

            Space
               at point, X=-3521.9845  Y=-2399.1665  Z=4695.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3502.4468  Y=-2410.7265  Z=4700.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
               at point, X=-3478.3664  Y=-2419.6696  Z=4705.0000

                VERTEX    Layer: PAPER_TEXT
                          Space: Model space
            Space
-- Press RETURN for more --
               at point, X=-3463.3896  Y=-2432.3897  Z=4710.0000

                END SEQUENCE  Layer: PAPER_TEXT
                          Space: Model space
  Points not coplanar.  No area calculated.


Command:
```

ZONIA MINE
Leach Basin No. 4
Sect A - Natural Ground

#	Distance	Elevation	
1	0	4665	0
2	12.20795	4660	-10
3	30.74621	4655	-20
4	54.00648	4655	-20
5	84.03423	4660	-10
6	172.9262	4660	-10
7	216.4583	4660	-10
8	340.4799	4665	0
9	464.4525	4670	10
10	495.694	4675	20
11	524.6493	4680	30
12	545.6293	4685	40
13	575.1673	4690	50
14	590.4607	4695	60
15	608.8429	4700	70
16	637.5653	4705	80
17	658.1268	4710	90
18	678.4103	4715	100

#	Distance	Elevation



LEACH BASIN NO. 4
SW POND - SECTION A
Original Topography.

```
          POLYLINE  Layer: OLD_TOPO
                    Space: Model space
       Open space

          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
         at point, X=-3946.3062  Y=-2004.0773  Z=4669.7973
```

4665

```
          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
         at point, X=-3938.7781  Y=-2013.6878  Z=4660.0000

          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
         at point, X=-3926.0914  Y=-2027.2050  Z=4655.0000

          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
-- Press RETURN for more --


      Space
-- Press RETURN for more --
         at point, X=-3906.9742  Y=-2040.4554  Z=4655.0000

          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
         at point, X=-3884.6285  Y=-2060.5137  Z=4660.0000

          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
         at point, X=-3821.8924  Y=-2123.4896  Z=4660.0000

          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
         at point, X=-3792.0879  Y=-2155.2187  Z=4660.0000

          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
         at point, X=-3699.7195  Y=-2237.9800  Z=4665.0000

-- Press RETURN for more --

      Space
```

~~at point, X=-3821.8924 Y=-2123.4896 Z=4660.0000~~

```
          VERTEX    Layer: OLD_TOPO
                    Space: Model space
      Space
```

~~at point, X=-3792.0879 Y=-2155.2187 Z=4660.0000~~

```
                VERTEX     Layer: OLD_TOPO
                           Space: Model space
          Space
             at point, X=-3699.7195  Y=-2237.9800  Z=4665.0000

-- Press RETURN for more --
                VERTEX     Layer: OLD_TOPO
                           Space: Model space
          Space
             at point, X=-3602.8428  Y=-2315.3370  Z=4670.0000

                END SEQUENCE  Layer: OLD_TOPO
                           Space: Model space
  Points not coplanar.  No area calculated.


Command:
```

```
                POLYLINE  Layer: OLD_TOPO
                          Space: Model space
            Open
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: OLD_TOPO
                          Space: Model space
             at point, X=-3602.8428  Y=-2315.3370  Z=4670.0000   4670
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: OLD_TOPO
                          Space: Model space
             at point, X=-3579.0110  Y=-2335.5379  Z=4670.0000  4675
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: OLD_TOPO
                          Space: Model space
             at point, X=-3555.3643  Y=-2352.2485  Z=4670.0000  4680
   starting width    0.0000
-- Press RETURN for more --



   starting width    0.0000
-- Press RETURN for more --
     ending width    0.0000

                VERTEX    Layer: OLD_TOPO
                          Space: Model space
             at point, X=-3539.2349  Y=-2365.6650  Z=4670.0000 4685
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: OLD_TOPO
                          Space: Model space
             at point, X=-3514.9462  Y=-2382.4743  Z=4670.0000 4690
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: OLD_TOPO
                          Space: Model space
             at point, X=-3501.8786  Y=-2390.4196  Z=4670.0000 4695
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: OLD_TOPO
                          Space: Model space
-- Press RETURN for more --

                          Space: Model space
-- Press RETURN for more --
             at point, X=-3486.6659  Y=-2400.7384  Z=4670.0000 4700
   starting width    0.0000
     ending width    0.0000

                VERTEX    Layer: OLD_TOPO
                          Space: Model space
```

```
                at point, X=-3462.3302  Y=-2415.9946  Z=4670.0000
    starting width    0.0000
      ending width    0.0000

                  VERTEX    Layer: OLD_TOPO
                            Space: Model space
                at point, X=-3446.2605  Y=-2428.8218  Z=4670.0000
    starting width    0.0000
      ending width    0.0000

                  VERTEX    Layer: OLD_TOPO
                            Space: Model space
                at point, X=-3429.5657  Y=-2440.3416  Z=4670.0000
    starting width    0.0000
      ending width    0.0000

-- Press RETURN for more --

                            Space: Model space
                at point, X=-3462.3302  Y=-2415.9946  Z=4670.0000
    starting width    0.0000
      ending width    0.0000

                  VERTEX    Layer: OLD_TOPO
                            Space: Model space
                at point, X=-3446.2605  Y=-2428.8218  Z=4670.0000
    starting width    0.0000
      ending width    0.0000

                  VERTEX    Layer: OLD_TOPO
                            Space: Model space
                at point, X=-3429.5657  Y=-2440.3416  Z=4670.0000
    starting width    0.0000
      ending width    0.0000

-- Press RETURN for more --
                  END SEQUENCE  Layer: OLD_TOPO
                            Space: Model space
              area  341.0923
            length  213.9578


Command:
```