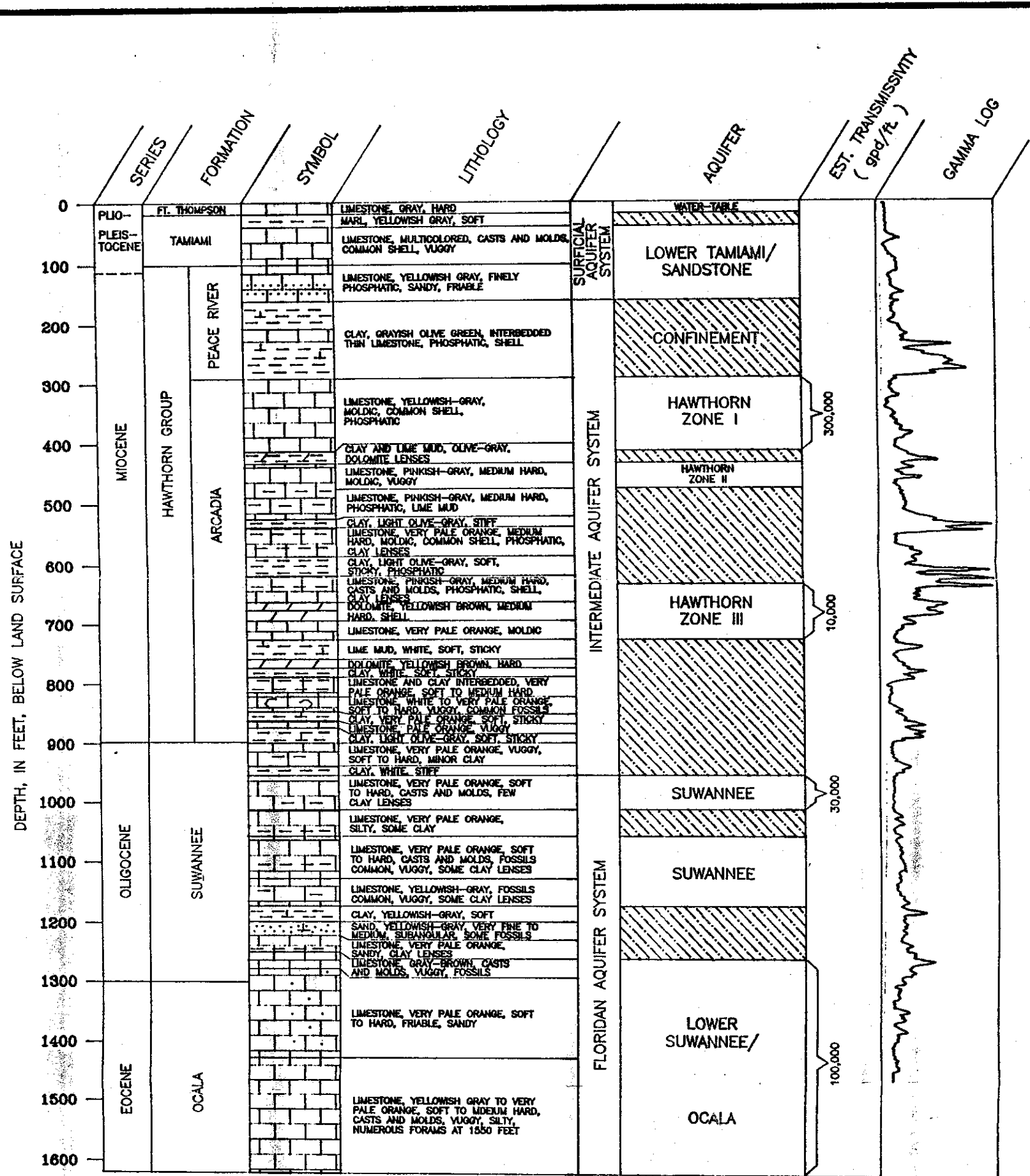


Digitized Geophysical Log Data Available.

CO-2080 = 021-67

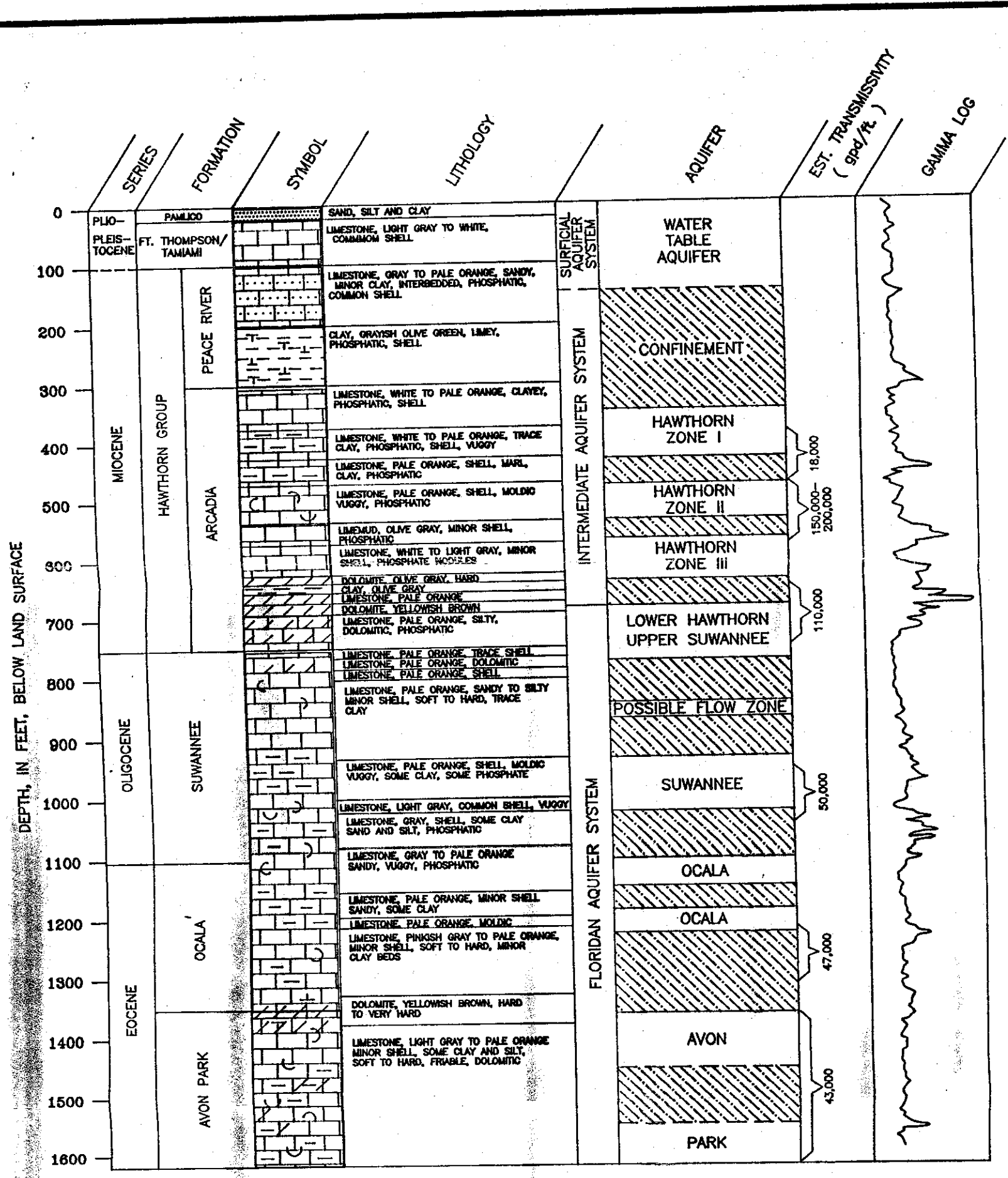
CO-2081 = 021-68

CO-2081



M&A	MISSIMER & ASSOCIATES, INC.
	DRN. BY- CAM DWG. NO.- B-9342HYD2-2DATE: 3/22/91
<i>ENVIRONMENTAL AND GROUNDWATER SERVICES</i>	

FIGURE 9. CO-2081 HYDROSTRATIGRAPHIC COLUMN AND GAMMA LOG.

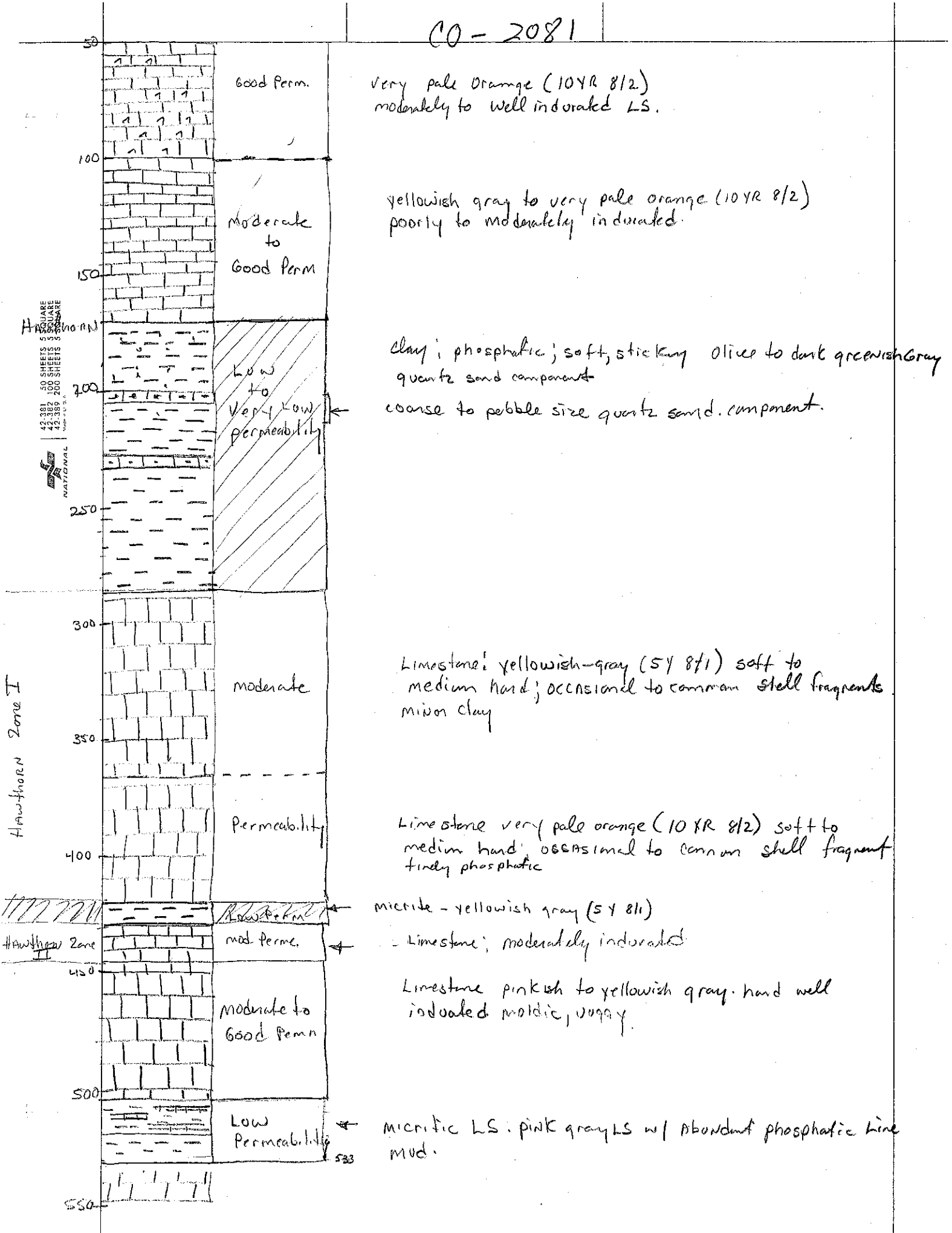


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M&A	MISSIMER & ASSOCIATES, INC.
	DRN. BY- JCS DWG. NO.- B-9342HYDR-6 DATE: 3/22/91
ENVIRONMENTAL AND GROUNDWATER SERVICES	

FIGURE 8. CO-2080 HYDROSTRATIGRAPHIC COLUMN AND GAMMA LOG.

CO-2081



Good Perm.

Very pale Orange (10YR 8/2) moderately to well indurated LS.

Moderate to Good Perm

yellowish gray to very pale orange (10YR 8/2) poorly to moderately indurated.

Low to Very Low Permeability

clay; phosphatic; soft, sticking olive to dark greenish gray quartz sand component coarse to pebble size quartz sand component.

moderate

Limestone: yellowish-gray (5Y 8/1) soft to medium hard; occasional to common shell fragments minor clay

Permeability

Limestone very pale orange (10YR 8/2) soft to medium hard; occasional to common shell fragment finely phosphatic

mod. perme.

micrite - yellowish gray (5Y 8/1) Limestone; moderately indurated

Moderate to Good Perm

Limestone pinkish to yellowish gray. hard well indurated moldic, vuggy.

Low Permeability

micritic LS: pink gray LS w/ abundant phosphatic fine mud.

42,381 SQUARE SHEETS
42,382 SQUARE SHEETS
42,383 SQUARE SHEETS
42,384 SQUARE SHEETS
42,385 SQUARE SHEETS
42,386 SQUARE SHEETS
42,387 SQUARE SHEETS
42,388 SQUARE SHEETS
42,389 SQUARE SHEETS
42,390 SQUARE SHEETS
NATIONAL MAP OF U.S.

Hawthorn Zone I

Hawthorn Zone II

523

WELL CO-2081
SINGLE PACKER TEST
ZONE TESTED: 315' TO 460'
FLOW THROUGH 2" METER

SE10008
Environmental Logger
12/28 14:28
Unit# 00913 Test# 0
INPUT 1: Level (F)
Reference 0.00
Scale factor 10.01
Offset - 0.03
Step# 0 12/28 13:01
Elapsed Time Value
0.0000 0.00
1.0000 - 0.24
2.0000 - 0.24
3.0000 Q= - 0.24
4.0000 - 0.24
5.0000 24gpm - 0.24
6.0000 - 0.24
7.0000 - 0.24
8.0000 - 0.24
END

SE10008
Environmental Logger
12/28 14:27
Unit# 00913 Test# 0
INPUT 1: Level (F)
Reference 0.00
Scale factor 10.01
Offset - 0.03
Step# 1 12/28 13:09
Elapsed Time Value
0.0000 - 0.24
1.0000 - 0.41
2.0000 - 0.41
3.0000 - 0.42
4.0000 Q=42 - 0.42
5.0000 - 0.41
6.0000 9gpm - 0.42
7.0000 - 0.42
8.0000 - 0.41
9.0000 - 0.41
10.0000 - 0.40
11.0000 - 0.39
END

SE10008
Environmental Logger
12/28 14:24
Unit# 00913 Test# 0
INPUT 1: Level (F)
Reference 0.00
Scale factor 10.01
Offset - 0.03
Step# 4 12/28 13:49
Elapsed Time Value
0.0000 - 0.95
1.0000 - 1.36
2.0000 - 1.87
3.0000 - 1.89
4.0000 - 1.81
5.0000 - 1.93
6.0000 - 1.94
7.0000 - 1.95
8.0000 - 1.97
9.0000 - 1.98
10.0000 - 1.97
11.0000 - 1.99
12.0000 - 2.00
13.0000 Q=128 - 2.00
14.0000 9gpm - 2.01
15.0000 - 2.01
16.0000 - 2.01
17.0000 - 2.02
18.0000 - 2.02
19.0000 - 2.04
20.0000 - 2.04
21.0000 - 2.05
22.0000 - 2.05
23.0000 - 2.07
24.0000 - 2.07
25.0000 - 2.07
26.0000 - 2.08
27.0000 - 2.15
END

SE10008
Environmental Logger
12/28 14:27
Unit# 00913 Test# 0
INPUT 1: Level (F)
Reference 0.00
Scale factor 10.01
Offset - 0.03
Step# 2 12/28 13:21
Elapsed Time Value
0.0000 - 0.39
1.0000 - 0.54
2.0000 - 0.54
3.0000 - 0.54
4.0000 - 0.55
5.0000 Q=57 - 0.54
6.0000 9gpm - 0.55
7.0000 - 0.55
8.0000 - 0.55
9.0000 - 0.54
10.0000 - 0.55
11.0000 - 0.55
END

SE10008
Environmental Logger
12/28 14:25
Unit# 00913 Test# 0
INPUT 1: Level (F)
Reference 0.00
Scale factor 10.01
Offset - 0.03
Step# 3 12/28 13:33
Elapsed Time Value
0.0000 - 0.56
1.0000 - 0.85
2.0000 - 0.86
3.0000 - 0.87
4.0000 - 0.88
5.0000 - 0.90
6.0000 Q=77 - 0.91
7.0000 - 0.92
8.0000 9gpm - 0.94
9.0000 - 0.94
10.0000 - 0.96
11.0000 - 0.96
12.0000 - 0.97
13.0000 - 0.97
14.0000 - 0.97
15.0000 - 0.96
16.0000 - 0.97
END

WELL CO-2081
 SINGLE PACKER TEST
 ZONE TESTED: 315' TO 665'
 FLOW THROUGH 2" METER

9E10001
 Environmental Logger
 01/02 11:44

Unit# 00913 Test# 0

INPLT 1: Level (F) TDC

Reference 0.00
 Scale factor 10.01
 Offset - 0.03

Step# 0 01/02 11:29

Elapsed Time	Value
0.0000	0.42
1.0000	0.53
2.0000	0.59
3.0000	0.60
4.0000	0.61
5.0000	0.60
6.0000	0.61
7.0000	0.61
8.0000	0.60
9.0000	0.60
10.0000	0.60
11.0000	0.60
12.0000	0.57
13.0000	0.56
14.0000	0.53
15.0000	0.58
16.0000	0.58
17.0000	0.60

END

*Q=45
9pm*

9E10008
 Environmental Logger
 01/02 16:43

Unit# 00913 Test# 0

INPLT 1: Level (F) TDC

Reference 0.00
 Scale factor 10.01
 Offset - 0.03

Step# 1 01/02 11:47

Elapsed Time	Value
0.0000	0.96
1.0000	1.46
2.0000	1.50
3.0000	1.50
4.0000	1.52
5.0000	1.52
6.0000	1.56
7.0000	1.58
8.0000	1.61
9.0000	1.62
10.0000	1.63
11.0000	1.63
12.0000	1.65
13.0000	1.69
14.0000	1.70
15.0000	1.73
16.0000	1.74
17.0000	1.76
18.0000	1.77
19.0000	1.79
20.0000	1.80
21.0000	1.84
22.0000	1.82
23.0000	1.85
24.0000	1.87
25.0000	1.88
26.0000	1.87
27.0000	1.89
28.0000	1.88
29.0000	1.89
30.0000	1.92
31.0000	1.91
32.0000	1.92

END

*Q=84
2pm*

CONTINUATION OF 315' TO 665'
SINGLE PACKER TEST
FLOW THROUGH 6" X 4" ORIFICE WEIR

SE10008
Environmental Logger
21/02 16:48

Unit# 00913 Test# 0

INPUT 1: Level (F) T00

Reference 0.00
Scale factor 13.01
Offset - 0.03

Step# 2 21/02 12:29

Elapsed Time	Value
0.0000	6.26
1.0000	6.29
2.0000	6.31
3.0000	6.32
4.0000	6.37
5.0000	6.39
6.0000	6.41
7.0000	6.43
8.0000	6.42
9.0000	6.44
10.0000	6.39
11.0000	6.46
12.0000	6.44
13.0000	6.45
14.0000	6.41
15.0000	6.41
16.0000	6.44
17.0000	6.46
18.0000	6.42
19.0000	6.44
20.0000	6.45
21.0000	6.46
22.0000	6.46
23.0000	6.46
24.0000	6.47
25.0000	6.44
26.0000	6.47
27.0000	6.46
28.0000	6.48
29.0000	6.51

END

SE10008
Environmental Logger
21/02 16:39

Unit# 00913 Test# 0

INPUT 1: Level (F) T00

Reference 0.00
Scale factor 13.01
Offset - 0.03

Step# 3 21/02 12:49

Elapsed Time	Value
0.0000	7.99
1.0000	9.37
2.0000	9.29
3.0000	9.30
4.0000	9.31
5.0000	9.29
6.0000	9.29
7.0000	9.26
8.0000	9.21
9.0000	9.28
10.0000	9.28
11.0000	9.28
12.0000	9.27
13.0000	9.26
14.0000	9.26
15.0000	9.25
16.0000	9.26
17.0000	9.24
18.0000	9.26
19.0000	9.26
20.0000	9.22
21.0000	9.23
22.0000	9.25
23.0000	9.27
24.0000	9.25
25.0000	9.26
26.0000	9.25
27.0000	9.29
28.0000	9.28
29.0000	9.29
30.0000	9.27
31.0000	9.30
32.0000	9.35
33.0000	9.34
34.0000	9.33
35.0000	9.30
36.0000	9.33
37.0000	9.35
38.0000	9.33
39.0000	9.36
40.0000	9.32
41.0000	9.17

END

Step# 4 21/02 12:51

Elapsed Time	Value
0.0000	11.25
1.0000	13.68
2.0000	13.79
3.0000	13.79
4.0000	13.76
5.0000	13.76
6.0000	13.73
7.0000	13.77
8.0000	13.89
9.0000	13.82
10.0000	13.85
11.0000	13.84
12.0000	13.84
13.0000	13.85
14.0000	13.89
15.0000	13.90
16.0000	13.91
17.0000	13.93
18.0000	13.94
19.0000	13.96
20.0000	13.95
21.0000	13.99
22.0000	14.01
23.0000	14.03
24.0000	14.04
25.0000	14.06
26.0000	14.09
27.0000	14.12
28.0000	14.13
29.0000	14.16
30.0000	14.18
31.0000	14.18
32.0000	14.23
33.0000	14.25
34.0000	14.25
35.0000	14.27
36.0000	14.30
37.0000	14.33
38.0000	14.32
39.0000	14.35
40.0000	14.36
41.0000	14.40
42.0000	14.44
43.0000	14.43
44.0000	14.46
45.0000	14.47
46.0000	14.49
47.0000	14.50
48.0000	14.52
49.0000	14.52
50.0000	14.53
51.0000	14.53
52.0000	14.56
53.0000	14.54
54.0000	14.55
55.0000	14.57
56.0000	14.56
57.0000	14.56

END

*Q=180
gpm*

*Q=257
gpm*

*Q=318
gpm*

WELL CO-2081
SINGLE PACKER TEST
ZONE TESTED: 940' TO 1033'
PUMP THROUGH 2" METER

SE1000B
Environmental Logger
01/09 16:17

Unit# 00913 Test# 2
INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 10.01
Offset - 0.03

Step# 0 01/09 13:00

Elapsed Time	Value
0.0000	-0.00
2.0000	3.57
4.0000	3.56
6.0000	3.55
8.0000	3.48
10.0000	3.50

*Q=46gpm
flow*

*actual
d.d.*

SE1000B
Environmental Logger
01/09 15:13

Unit# 00913 Test# 2
INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 10.01
Offset - 0.03

Step# 1 01/09 13:11

Elapsed Time	Value
0.0000	3.44
2.0000	3.69
4.0000	3.77
6.0000	3.73
8.0000	3.80
10.0000	3.63

*Q=50gpm
flow*

*actual
d.d.*

SE1000B
Environmental Logger
01/09 16:19

Unit# 00913 Test# 3
INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 10.01
Offset - 0.03

Step# 1 01/09 14:02

Elapsed Time	Value
0.0000	6.46
2.0000	1.12
4.0000	1.14
6.0000	0.91
8.0000	0.96
10.0000	1.00
12.0000	0.95

*Q=86gpm
pump*

d.d. + 11.9

SE1000B
Environmental Logger
01/09 16:19

Unit# 00913 Test# 3
INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 10.01
Offset - 0.03

Step# 0 01/09 13:48

Elapsed Time	Value
0.0000	2.48
2.0000	6.82
4.0000	6.63
6.0000	6.61
8.0000	6.51
10.0000	6.50
12.0000	6.53
14.0000	6.55

*Q=109gpm
pump*

+ 11.9

SE1000B
Environmental Logger
01/09 16:20

Unit# 00913 Test# 3

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 10.01
Offset - 0.03

Step# 2 01/09 14:14

Elapsed Time	Value
0.0000	0.96
2.0000	7.65
4.0000	7.59
6.0000	7.73
8.0000	7.65
10.0000	7.64
12.0000	7.61

*Q=112gpm
pump*

+ 11.9

WELL CO-2081
 SINGLE PACKER TEST
 ZONE TESTED: 1288' TO 1616'
 PUMP THROUGH 2" METER
 6" FLOW LINE OPEN - 825 GPM FLOW

SE10008
 Environmental Logger
 01/03 14:13

SE10009
 Environmental Logger
 01/03 14:13

SE10008
 Environmental Logger
 01/03 14:12

Unit# 00913 Test# 0
 INPUT 1: Level (F) TOC

Unit# 00913 Test# 0
 INPUT 1: Level (F) TOC

Unit# 00913 Test# 0
 INPUT 1: Level (F) TOC

Reference 2.30
 Scale factor 10.21
 Offset - 3.93

Reference 0.00
 Scale factor 10.21
 Offset - 3.93

Reference 0.00
 Scale factor 10.21
 Offset - 3.93

Step# 0 01/03 12:26

Step# 1 01/03 12:59

Step# 2 01/03 13:02

Elapsed Time Value

Elapsed Time Value

Elapsed Time Value

0.0000	4.56
1.0000	3.62
2.0000	4.03
3.0000	4.45
4.0000	4.95
5.0000	5.33
6.0000	5.90
7.0000	6.38
8.0000	6.74
9.0000	7.21
10.0000	7.65
11.0000	8.13
12.0000	8.51
13.0000	9.03
14.0000	9.36
15.0000	9.35
16.0000	10.36
17.0000	10.74
18.0000	11.13
19.0000	11.24
20.0000	11.17
21.0000	11.19
22.0000	11.27
23.0000	11.22
24.0000	11.26
25.0000	11.26
26.0000	11.20
27.0000	11.24
28.0000	11.23
29.0000	11.25
30.0000	11.29
31.0000	11.22
32.0000	11.24

END

3.0000	12.23
4.0000	16.28
5.0000	16.08
6.0000	15.95
7.0000	15.74
8.0000	15.61
9.0000	15.41
10.0000	15.25
11.0000	15.05
12.0000	14.91
13.0000	14.69
14.0000	14.50
15.0000	14.33
16.0000	14.18
17.0000	14.04
18.0000	14.00
19.0000	13.97
20.0000	13.92
21.0000	13.92
22.0000	13.90
23.0000	13.92
24.0000	13.93
25.0000	13.96
26.0000	13.92
27.0000	13.92
28.0000	13.92
29.0000	13.96
30.0000	13.95
31.0000	13.99
32.0000	13.94

END

0.0000	14.32
1.0000	16.84
2.0000	16.79
3.0000	16.73
4.0000	16.69
5.0000	16.61
6.0000	16.53
7.0000	16.49
8.0000	16.50
9.0000	16.42
10.0000	16.38
11.0000	16.31
12.0000	16.33
13.0000	16.34
14.0000	16.32
15.0000	16.32
16.0000	16.32

END

Step# 3 01/03 13:48

Elapsed Time Value

0.0000	16.31
1.0000	19.13
2.0000	19.14
3.0000	19.15
4.0000	19.15
5.0000	19.14
6.0000	19.14
7.0000	19.14
8.0000	19.15
9.0000	19.16
10.0000	19.14
11.0000	19.14
12.0000	19.14
13.0000	19.15
14.0000	19.15
15.0000	19.15
16.0000	19.15

END

