

8224

OCD

Exh. ~~18~~

4/23/1985

Aquifer Parameters

	Lower Limit	Upper Limit	Flora Vista
K	25 FT/day (Textbook)	2500 FT/day (McMahon #1)	100 FT/day (Report. From Sp. Cap.)
ick. b'	25 (Assumed)	25'	15' (Logs)
$\tau = Kb \times 7.48$	4675 gal/ft	467500	11220
S (Alluvial)	0.1	0.1	0.1
m (Sands & Gravels)	0.25	0.25	0.25
Dispersivity _x	50 FT	50	50
Disper. y	10 FT	10	10

(From Thomas Prickett & Assoc., Consultants)

Regional Flow = $\frac{Ki}{n}$ (Grid oriented X = Reg. Flow Direction)

i (gradient)	0.0024	0.0024	0.0041
	0.24 FT/day	24 FT/day	1.64 FT/day

Coefficient: 7 FT (From Tab 5, Meridian Exh,
1% organic carbon)

Concentrations

Particle Mass depends on concentration and flow rate and
particles chosen for each simulation

For $C = 14 \frac{\text{mg}}{\text{L}}$ Benzene at 210 gal/day :

Pollutant Load = PL

$$PL = \frac{14 \text{ Lbs B}}{10^6 \text{ lbs H}_2\text{O}} \times \frac{210 \text{ gal}}{\text{day}} \times \frac{\text{ft}^3}{7.48 \text{ gal}} \times \frac{62.4 \text{ lbs H}_2\text{O}}{\text{ft}^3}$$
$$= 0.02453 \text{ Lbs Benz/day}$$

For 20 Particles/day:

$$\text{Particle Mass} = \frac{PL}{N. \text{ Part}} = \frac{0.02453 \text{ lbs}}{20} = 0.0012 \text{ lbs}$$

Input Mixing zone:

Wellbore area Radius = 2 Feet, $h = 25 \text{ sat.}$

$$V = \pi r^2 h n = 78.5 \text{ ft}^3 \quad \text{porosity } n = 0.25$$

Output Concentrations calculation:

$$\text{Grid size} = X * Y \text{ ft}^2$$

$$\text{conc (ppm)} = \frac{PM \times N. \text{ Particles} \times 10^6}{X * Y \times n \times b \times 62.4}$$

TRANSMISSIVITY (GPD/FT) = 4675 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 187 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = 7 FT
REGIONAL X FLOW (FT/DAY) = .24
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .00123

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SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 , 0
SINK/SOURCE STRENGTH     =-210 GP0
TIME SINK/SOURCE ACTIVE  = 0 DAYS

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PARTICLES ON A CIRCLE
CIRCLE NUMBER      1
CIRCLE CENTER COORDINATES (X,Y) =  0 ,  0  FT
CIRCLE RADIUS =    2  FT
NUMBER OF PARTICLES = 20

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PRESENT SIMULATION TIME = 0 DAYS
INCREMENTAL SIMULATION TIME = 1 DAYS
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CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

ILLEGIBLE

PARTICLES ON A CIRCLE

CIRCLE RADIUS = 2 FT
NUMBER OF PARTICLES = 100

TOTAL SYSTEM PARTICLES = 600

////////////////////////////////////
PRESENT SIMULATION TIME = 25 DAYS

INCREMENTAL SIMULATION TIME = 5 DAYS

DMAX = 1 FT

NP= 600

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

ACCUMULATED TIME = 30 DAYS PARTICLES= 600

CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

25		+	+	+	+	+	+	+	+	+	+	+
20		+	+	+	+	+	+	+	+	+	+	+
15		+	+	+	+	+	18	18	18	18	+	+
10		+	+	18	162	216	252	72	144	+	+	+
5		+	54	198	541	901	270	198	54	18	18	+
0		36	72	487	1514	I	523	162	72	90	+	+
-5		+	18	144	523	847	324	198	108	18	+	+
-10		18	+	36	36	234	144	90	36	+	+	+
-15		+	+	+	+	+	36	+	+	18	+	+
-20		+	+	+	+	+	+	+	+	+	+	+
-25		+	+	+	+	+	+	+	+	+	+	+

		-	-	-	-							
		2	1	1	5	0	5	1	1	2	2	3
		0	5	0				0	5	0	5	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

////////////////////////////////PARTICLES\\////////////////////////////////

PARTICLES ON A CIRCLE

CIRCLE NUMBER 1

CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT

CIRCLE RADIUS = 2 FT

NUMBER OF PARTICLES = 100

TOTAL SYSTEM PARTICLES = 700

////////////////////////////////////
PRESENT SIMULATION TIME = 30 DAYS

INCREMENTAL SIMULATION TIME = 5 DAYS

DMAX = 1 FT

NP= 700

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

1.2

PARTICLE MAP (P SIGNIFIES PUMP LOCATION, I SIGNIFIES LOCATION OF INJECTION)
 CONCENTRATION MAP IN PPM (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

25	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	1	+	+	+	+	+
15	+	+	1	1	2	6	5	2	1	1	1
10	+	1	6	9	19	26	17	5	2	1	+
5	+	4	6	14	43	80	39	25	7	1	+
0	+	2	13	34	129	1	40	27	10	3	2
-5	+	3	3	18	54	61	30	18	10	2	1
-10	+	+	1	4	12	20	23	13	8	1	3
-15	+	+	+	1	2	2	5	1	1	+	1
-20	+	+	+	+	+	+	+	+	+	+	+
-25	+	+	+	+	+	+	+	+	+	1	+

	-	-	-	-							
	2	1	1	5	0	5	1	1	2	2	3
	0	5	0				0	5	0	5	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 50 DAYS PARTICLES= 1000
 CONCENTRATION MAP IN PPM (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

25	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	18	+	+	+	+	+
15	+	+	18	18	36	108	90	36	18	18	+
10	+	18	108	162	343	469	306	90	36	18	+
5	+	72	108	252	775	1442	703	451	126	18	+
0	+	36	234	613	2325	1947	721	487	180	54	36
-5	+	54	54	324	973	1100	541	324	180	36	18
-10	+	+	18	72	216	361	415	234	144	18	54
-15	+	+	+	18	36	36	90	18	18	+	18
-20	+	+	+	+	+	+	+	+	+	+	+
-25	+	+	+	+	+	+	+	+	+	18	+

	-	-	-	-							
	2	1	1	5	0	5	1	1	2	2	3
	0	5	0				0	5	0	5	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

PARTICLE MAP (P SIGNIFIES PUMP LOCATION, I SIGNIFIES LOCATION OF INJECTION)
 CONCENTRATION MAP IN PPM (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

10	+	2	1	1	1	3	4	5	6	3	8
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ACCUMULATED TIME = 360 DAYS PARTICLES= 1000
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

50	+	+	5	+	+	+	+	+	+	+	+
40	14	5	9	18	9	+	5	+	+	5	+
30	5	23	27	27	27	14	27	23	5	+	5
20	59	32	59	63	90	72	63	27	18	36	23
10	59	113	99	99	90	68	50	54	36	32	9
0	95	104	135	140	158	122	72	72	77	23	14
-10	54	104	104	140	63	77	86	63	27	9	5
-20	63	45	68	59	50	59	27	23	27	+	14
-30	23	5	5	32	32	18	18	18	+	+	+
-40	5	+	9	+	14	+	+	5	+	+	+
-50	+	+	+	+	+	+	+	5	+	+	+

-	-										
2	1	0	1	2	3	4	5	6	7	8	
0	0		0	0	0	0	0	0	0	0	

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.

ACCUMULATED TIME = 360 DAYS PARTICLES= 1000
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

100	+	+	+	+	+	+	+	+	+	+	+
80	+	+	+	+	+	+	+	+	+	+	+
60	+	1	+	+	+	+	+	+	+	+	+
40	7	7	10	6	2	+	1	+	+	+	+
20	48	54	65	51	15	20	1	+	+	+	+
0	89	116	121	70	52	11	2	+	+	+	+
-20	48	60	64	43	20	3	1	1	+	+	+
-40	1	5	6	3	2	+	+	+	+	+	+
-60	+	+	+	+	+	+	+	+	+	+	+
-80	+	+	+	+	+	+	+	+	+	+	+
-100	+	+	+	+	+	+	+	+	+	+	+

-											
2	0	2	4	6	8	1	1	1	1	1	
0		0	0	0	0	0	2	4	6	8	
						0	0	0	0	0	

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.
 INCREMENTAL SIMULATION TIME = 360 DAYS
 DMAX = 20 FT

NP= 1000

ILLEGIBLE

PARTICLE MAP (P SIGNIFIES PUMP LOCATION. I SIGNIFIES LOCATION OF
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

100	+	+	+	+	+	+	+	+	+	+	+
80	+	+	+	+	+	+	+	+	+	+	+
60	+	5	4	3	+	1	3	+	+	+	+
40	10	9	9	14	10	10	1	1	+	+	1
20	30	34	41	48	37	19	22	4	6	+	+
0	42	49	59	58	49	19	14	5	2	3	1
-20	26	35	37	28	23	15	8	6	3	+	+
-40	8	8	13	11	5	8	5	3	+	+	+
-60	+	1	1	2	5	+	+	1	+	1	+
-80	+	+	+	+	1	+	+	+	+	+	+
-100	+	+	+	+	+	+	+	+	+	+	+

-	2	0	2	4	6	8	1	1	1	1	1
0	0	0	0	0	0	0	0	2	4	6	8
							0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.

ACCUMULATED TIME = 720 DAYS PARTICLES= 1000
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

100	+	+	+	+	+	+	+	+	+	+	+
80	+	+	+	+	+	+	+	+	+	+	+
60	+	6	5	3	+	1	3	+	+	+	+
40	11	10	10	16	11	11	1	1	+	+	1
20	34	38	46	54	42	21	25	5	7	+	+
0	47	55	66	65	55	21	16	6	2	3	1
-20	29	39	42	32	26	17	9	7	3	+	+
-40	9	9	15	12	6	9	6	3	+	+	+
-60	+	1	1	2	6	+	+	1	+	1	+
-80	+	+	+	+	1	+	+	+	+	+	+
-100	+	+	+	+	+	+	+	+	+	+	+

-	2	0	2	4	6	8	1	1	1	1	1
0	0	0	0	0	0	0	0	2	4	6	8
							0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.

ACCUMULATED TIME = 720 DAYS PARTICLES= 1000
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

-----GROUNDWATER QUALITY MODEL FOR ABBOTT LABORATORIES-----

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//////////BASIC TRANSPORT COEFFICIENTS\\\\\\\\\\\\\\

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TRANSMISSIVITY (GPD/FT) = 4675 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 187 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = 7 FT
REGIONAL X FLOW (FT/DAY) = .24
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .004905

/SINK INFORMATION\

NO. OF SINKS = 1

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SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 , 0
SINK/SOURCE STRENGTH     =-42 GFD
TIME SINK/SOURCE ACTIVE  = 0 DAYS

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//////////////////PARTICLES\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

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PARTICLES ON A CIRCLE
CIRCLE NUMBER      1
CIRCLE CENTER COORDINATES (X,Y) =  0 , 0  FT
CIRCLE RADIUS =    2  FT
NUMBER OF PARTICLES =  5

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TOTAL SYSTEM PARTICLES = 5

```
PRESENT SIMULATION TIME = 0 DAYS
INCREMENTAL SIMULATION TIME = 5 DAYS
```

DMAX = 1 FT

NF= 5

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

/P/PARTICLES

ACCUMULATED TIME = 30 DAYS PARTICLES= 30
CONCENTRATION MAP IN PPB (F SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

25	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+
10	+	+	+	+	+	+	+	+	+	+
5	72	+	144	72	288	144	+	72	+	+
0	+	+	+	72	1	216	72	72	+	+
-5	+	+	72	144	216	+	+	72	+	+
-10	+	+	+	+	+	+	+	+	+	+
-15	+	+	+	+	+	+	+	+	+	+
-20	+	+	+	+	+	+	+	+	+	+
-25	+	+	+	+	+	+	+	+	+	+
	-	-	-	-	0	5	1	1	2	2
	2	1	1	5	0	5	1	1	2	2
	0	5	0				0	5	0	5

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

/////////////////PARTICLES\\

PARTICLES ON A CIRCLE

CIRCLE NUMBER 1

CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT

CIRCLE RADIUS = 2 FT

NUMBER OF PARTICLES = 10

TOTAL SYSTEM PARTICLES = 40

////////////////////////////////////

PRESENT SIMULATION TIME = 30 DAYS

INCREMENTAL SIMULATION TIME = 10 DAYS

DMAX = 1 FT

NF= 40

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN FFM, IS= 0

////////////////PARTICLES\\

PARTICLES ON A CIRCLE

CIRCLE NUMBER 1

CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT

CIRCLE RADIUS = 2 FT

NUMBER OF PARTICLES = 10

TOTAL SYSTEM PARTICLES = 50

.....

PRESENT SIMULATION TIME = 40 DAYS

EXPERIMENTAL STIMULUS ATTENTION TIME = 10 DAYS

TOTAL SYSTEM PARTICLES = 360
 //////////////////////////////////////
 PRESENT SIMULATION TIME = 270 DAYS
 INCREMENTAL SIMULATION TIME = 90 DAYS
 DMAX = 4 FT
 NP= 360
 CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

ACCUMULATED TIME = 360 DAYS PARTICLES= 360
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

50	+	+	+	+	+	+	+	+	+	+	+
40	+	+	+	+	+	+	+	+	+	+	+
30	18	+	+	18	18	54	+	+	+	+	+
20	18	54	36	72	90	90	72	+	+	18	+
10	72	198	144	252	162	216	108	126	18	54	+
0	72	198	359	I	359	270	198	72	126	+	+
-10	144	198	162	216	198	180	144	126	36	36	72
-20	18	36	36	36	126	90	36	90	+	+	+
-30	+	18	18	18	18	18	18	+	+	+	+
-40	+	+	+	+	+	18	+	+	+	+	+
-50	+	+	+	+	+	+	+	+	+	+	+

-	-	-									
3	2	1	0	1	2	3	4	5	6	7	
0	0	0		0	0	0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

////////////////////////////////PARTICLES\\

PARTICLES ON A CIRCLE
 CIRCLE NUMBER 1
 CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT
 CIRCLE RADIUS = 2 FT
 NUMBER OF PARTICLES = 90

TOTAL SYSTEM PARTICLES = 450
 //////////////////////////////////////
 PRESENT SIMULATION TIME = 360 DAYS
 INCREMENTAL SIMULATION TIME = 90 DAYS
 DMAX = 10 FT

NP= 450
 CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

-80	+	+	+	+	+	+	+	+	+	+	+
-100	+	+	+	+	+	+	+	+	+	+	+

	-	-	-								
	6	4	2	0	2	4	6	8	1	1	1
	0	0	0		0	0	0	0	0	2	4
									0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 720 DAYS PARTICLES= 720
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET											

100	+	+	+	+	+	+	+	+	+	+	+
80	+	+	+	+	+	+	+	+	+	+	+
60	+	+	+	+	+	+	+	+	+	+	+
40	+	9	18	27	36	27	9	9	+	+	+
20	27	36	117	148	171	135	58	22	18	4	+
0	40	121	332	395	306	198	117	31	18	22	4
-20	22	31	94	112	126	153	40	4	13	+	4
-40	9	13	13	27	18	27	9	4	+	+	4
-60	+	+	+	+	4	+	9	+	+	+	+
-80	+	+	+	+	+	+	+	+	+	+	+
-100	+	+	+	+	+	+	+	+	+	+	+

	-	-	-								
	6	4	2	0	2	4	6	8	1	1	1
	0	0	0		0	0	0	0	0	2	4
									0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 720 DAYS PARTICLES= 720
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET											

50	+	18	+	+	18	+	+	+	18	+	+
40	+	18	+	+	54	18	54	18	18	+	+
30	18	36	36	72	+	54	90	72	54	18	18
20	72	36	108	126	162	126	162	126	180	180	36
10	108	162	252	395	288	377	377	288	162	144	54
0	54	198	395	449	431	341	252	288	162	162	108
-10	54	180	198	180	323	216	359	234	234	198	54
-20	+	36	72	90	144	108	108	162	126	72	+
-30	36	36	72	36	36	54	18	72	18	54	36
-40	18	18	18	18	18	+	18	36	36	36	+
-50	+	+	+	+	+	+	+	18	+	+	36

	-	-	-	-							
	4	3	2	1	0	1	2	3	4	5	6
	0	0	0	0		0	0	0	0	0	0

1	8	6	4	2	0	2	4	6	8	10
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-----GROUNDWATER QUALITY MODEL FOR ABBOTT LABORATORIES-----

TRANSMISSIVITY (GPD/FT) = 4675 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 187 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = 7 FT
REGIONAL X FLOW (FT/DAY) = .24
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .002453

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SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 ,  0
SINK/SOURCE STRENGTH     =-21 GFD
TIME SINK/SOURCE ACTIVE  = 0 DAYS

```

NP= 10

1.10

ACCUMULATED TIME = 360 DAYS PARTICLES = 360
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

25	+	36	36	+	+	+	+	+	+	+	+
20	36	72	+	+	+	+	36	36	36	+	+
15	+	108	+	108	+	36	+	+	+	36	108
10	36	72	36	36	180	108	144	180	36	144	72
5	180	+	216	360	72	36	108	180	180	180	144
0	144	144	324	108	1	252	288	288	144	36	+
-5	36	180	108	180	72	252	144	108	144	+	72
-10	72	108	144	72	216	180	108	144	108	+	144
-15	108	108	216	108	72	72	72	144	108	72	72
-20	+	+	+	+	144	72	36	+	36	36	+
-25	+	36	+	+	+	+	+	36	+	+	+

-	-	-	-							
2	1	1	5	0	5	1	1	2	2	3
0	5	0				0	5	0	5	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

////////////////PARTICLES\\

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PARTICLES ON A CIRCLE
CIRCLE NUMBER      1
CIRCLE CENTER COORDINATES (X,Y) =  0., 0  FT
CIRCLE RADIUS =    2  FT
NUMBER OF PARTICLES =  90

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TOTAL SYSTEM PARTICLES = 450
////////////////////////////////////
PRESENT SIMULATION TIME = 360 DAYS
INCREMENTAL SIMULATION TIME = 90 DAYS

```

DMAX = 20 FT

NP= 450

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

FOR THE RECORD--THE MOVE WILL BE DONE OVER.

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PRESENT SIMULATION TIME = 160 DAYS
PRESENT INITIAL STIMULATION TIME = 70 DAYS

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DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 720 DAYS PARTICLES= 720
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

50	+	+	+	+	18	+	+	+	+	+	+
40	+	+	+	18	18	+	+	+	9	9	27
30	27	9	36	9	36	27	27	9	18	18	9
20	63	72	72	81	108	72	54	36	45	18	63
10	72	144	99	126	270	171	171	108	27	45	72
0	90	117	252	207	207	207	99	81	90	45	27
-10	27	117	153	171	144	189	126	81	36	36	27
-20	54	36	45	81	27	45	54	54	9	36	9
-30	9	18	27	36	+	54	9	27	+	9	36
-40	+	+	18	9	+	+	+	9	+	9	9
-50	9	+	+	+	+	+	9	+	+	+	+

	-	-	-								
	3	2	1	0	1	2	3	4	5	6	7
	0	0	0		0	0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 720 DAYS PARTICLES= 720
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

100	+	+	+	+	+	+	+	+	+	+	+
80	+	+	+	+	+	+	+	+	+	+	+
60	+	+	+	+	4	+	2	+	+	+	+
40	2	+	7	13	11	7	9	4	2	+	+
20	13	38	63	83	92	47	38	22	4	2	+
0	13	56	130	204	198	79	47	13	13	4	+
-20	11	27	49	56	65	58	31	11	7	2	+
-40	+	9	2	13	7	2	7	4	4	+	+
-60	+	+	4	+	+	2	+	+	+	+	+
-80	+	+	+	+	+	+	+	+	+	+	+
-100	+	+	+	+	+	+	+	+	+	+	+

	-	-	-								
	6	4	2	0	2	4	6	8	1	1	1
	0	0	0		0	0	0	0	0	2	4
									0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

PRESNET SIMULATION TIME = 720 DAYS
INCREMENTAL SIMULATION TIME = 180 DAYS
DMAX = 9 FT
NP= 720

TRANSMISSIVITY (GPD/FT) = 4675 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 187 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = 7 FT
REGIONAL X FLOW (FT/DAY) = .24
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .000292

//////////////////SINK INFORMATION\\\\\\\\\\\\\\\\\\\\\\

```

SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 , 0
SINK/SOURCE STRENGTH     =-2.5 GPD
TIME SINK/SOURCE ACTIVE  = 0 DAYS

```

////////////////PARTICLES\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

////////////////////////////////////

INCREMENTAL SIMULATION TIME = 10 DAYS

MF= 10

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

PARTICLES ON A CIRCLE
CIRCLE NUMBER 1
CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FI

ACCUMULATED TIME = 60 DAYS PARTICLES= 60
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

[illegible]

-	-	-	-							
2	1	1	5	0	5	1	1	2	2	3
0	5	0				0	5	0	5	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

////////////////PARTICLES\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

PARTICLES ON A CIRCLE

CIRCLE NUMBER 1

CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT

CIRCLE RADIUS = 2 FT

NUMBER OF PARTICLES = 10

TOTAL SYSTEM PARTICLES = 70

.....

PRESENT SIMULATION TIME = 60 DAYS

INCREMENTAL SIMULATION TIME = 10 DAYS

D_{MAX} = 1 FT

NF = 70

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

////////////////PARTICLES\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

PARTICLES ON A CIRCLE

CIRCLE NUMBER 1

CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT

CIRCLE RADIUS = 2 FT

NUMBER OF PARTICLES = 10

TOTAL SYSTEM PARTICLES = 80

.....

PRESENT SIMULATION TIME = 70 DAYS

40	+	+	1	1	1	2	3	1	+	1	+
20	1	1	3	5	7	9	6	3	1	1	+
0	1	2	8	15	27	25	17	6	3	1	1
-20	1	2	1	4	7	6	8	2	1	1	+
-40	+	1	1	1	1	1	1	1	+	+	+
-60	+	+	+	+	+	1	+	+	+	+	+
-80	+	+	+	+	+	+	+	+	+	+	+
-100	+	+	+	+	+	+	+	+	+	+	+

-	-	-	-								
8	6	4	2	0	2	4	6	8	1	1	
0	0	0	0		0	0	0	0	0	2	
									0	0	

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

100	+	+	+	+	+	+	+	+	+	+	+
80	+	+	+	+	+	+	+	+	+	+	+
60	+	+	+	+	+	+	+	+	+	+	+
40	+	+	1	1	1	2	3	1	+	1	+
20	1	1	3	5	7	9	6	3	1	1	+
0	1	2	8	15	27	25	17	6	3	1	1
-20	1	2	1	4	7	6	8	2	1	1	+
-40	+	1	1	1	1	1	1	1	+	+	+
-60	+	+	+	+	+	1	+	+	+	+	+
-80	+	+	+	+	+	+	+	+	+	+	+
-100	+	+	+	+	+	+	+	+	+	+	+

-	-	-	-								
8	6	4	2	0	2	4	6	8	1	1	
0	0	0	0		0	0	0	0	0	2	
									0	0	

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

PRESENT SIMULATION TIME = 730 DAYS
 INCREMENTAL SIMULATION TIME = 180 DAYS
 DMAX = 8 FT
 NP= 730

ACCUMULATED TIME = 910 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

1.16

-----GROUNDWATER QUALITY MODEL FOR ABBOTT LABORATORIES-----

```

//////////BASIC TRANSPORT COEFFICIENTS\\

```

```
TRANSMISSIVITY (GPD/FT) = 467500 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 18700 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = 7 FT
REGIONAL X FLOW (FT/DAY) = 24
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .02453
```

//////////////////////////////////SINK INFORMATION\\////////////////////////////////

NO. OF SINKS = 1

```

SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 , 0
SINK/SOURCE STRENGTH     =-210 GPD
TIME SINK/SOURCE ACTIVE   = 0 DAYS

```

//////////////////////////////////PARTICLES\\

```

PARTICLES ON A CIRCLE
CIRCLE NUMBER      1
CIRCLE CENTER COORDINATES (X,Y) =  0 , 0  FT
CIRCLE RADIUS =    2  FT
NUMBER OF PARTICLES = 10

```

```

TOTAL SYSTEM PARTICLES = 10
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
PRESENT SIMULATION TIME = 0 DAYS
INCREMENTAL SIMULATION TIME = 10 DAYS

```

DMAX = 10 FT

NP= 10
CONCENTRATION IN PUMPED WELL NUMBER 1, IN PPM, IS= 0

ACCUMULATED TIME = 30 DAYS PARTICLES= 30
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

50	+	+	+	+	+	+	+	+	+	+
40	+	+	+	+	+	90	+	+	+	+
30	+	+	+	+	+	+	+	90	+	90
20	+	+	+	+	+	+	90	+	+	+
10	+	90	+	+	90	+	90	+	+	90
0	+	+	180	+	I	+	+	+	+	90
-10	+	90	90	+	+	+	+	90	+	+
-20	+	90	90	+	+	+	90	+	90	+
-30	+	+	+	+	+	+	+	+	+	+
-40	+	+	+	+	+	+	+	+	+	+
-50	+	+	+	+	+	+	+	+	+	+
	-	-	-	-						
	4	3	2	1	0	1	2	3	4	5
	0	0	0	0		0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

////////////////PARTICLES\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

PARTICLES ON A CIRCLE

CIRCLE NUMBER 1

CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT

CIRCLE RADIUS = 2 FT

NUMBER OF PARTICLES = 10

TOTAL SYSTEM PARTICLES = 40

(The following section contains handwritten notes.)

PRESENT SIMULATION TIME = 30 DAYS

INCREMENTAL SIMULATION TIME = 10 DAYS

DIMAX = 25 FT

NF= 40

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

////////////////PARTICLES\\\\\\\\\\\\\\\\\\\\\\

PARTICLES ON A CIRCLE

CIRCLE NUMBER 1

CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT

CIRCLE RADIUS = 2 FT

NUMBER OF PARTICLES = 10

ACCUMULATED TIME = 360 DAYS PARTICLES= 360
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

250	+	+	+	+	+	4	+	+	+	+	+
200	+	+	4	+	+	4	+	+	+	4	+
150	+	+	4	+	4	+	4	+	7	11	7
100	+	7	+	11	14	4	+	+	14	18	+
50	+	4	7	18	18	+	7	+	7	7	25
0	18	7	14	29	7	22	18	18	11	7	32
-50	+	14	14	11	11	4	14	7	14	11	11
-100	4	4	+	7	+	11	4	4	4	11	4
-150	4	+	+	+	4	+	4	4	11	4	4
-200	4	+	+	4	+	+	+	4	+	+	4
-250	+	+	+	+	+	+	+	+	+	+	+

1	1	2	2	3	3	4	4	5	5	6
0	5	0	5	0	5	0	5	0	5	0
0	0	0	0	0	0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 360 DAYS PARTICLES= 360
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

250	+	+	+	+	+	+	4	4	+	11	4
200	+	4	+	4	7	4	+	+	+	+	+
150	7	11	7	4	4	4	7	7	7	4	4
100	14	18	+	11	7	11	4	+	7	4	4
50	7	7	25	14	11	11	+	11	4	4	14
0	11	7	32	11	29	4	7	7	7	14	+
-50	14	11	11	14	7	4	7	11	7	+	7
-100	4	11	4	7	11	7	4	14	11	4	4
-150	11	4	4	+	11	4	4	+	+	4	7
-200	+	+	4	+	4	4	+	4	+	7	+
-250	+	+	+	7	+	4	+	4	+	+	4

5	5	6	6	7	7	8	8	9	9	1
0	5	0	5	0	5	0	5	0	5	0
0	0	0	0	0	0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 360 DAYS PARTICLES= 360
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

250	+	+	+	+	+	+	+	+	+	+	+
200	+	+	+	+	+	+	+	+	4	+	+
150	+	+	+	+	+	+	+	+	+	+	+

ACCUMULATED TIME = 360 DAYS PARTICLES= 360
CONCENTRATION MAP IN PFB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

[illegible][illegible]

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 360 DAYS PARTICLES= 360
CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

[illegible][illegible]

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

/////////////////PARTICLES\\////////////////////////////////

PARTICLES ON A CIRCLE

CIRCLE NUMBER 1

CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT

CIRCLE RADIUS = 2 FT

NUMBER OF PARTICLES = 90

TOTAL SYSTEM PARTICLES = 450

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

500	+	+	+	+	+	+	+	+	+	+	+
400	+	+	+	+	+	+	+	+	+	+	1
300	+	+	1	+	+	+	2	+	+	+	+
200	+	2	+	+	+	+	+	6	1	2	4
100	1	3	4	7	5	6	6	4	6	10	4
0	1	8	13	14	9	12	7	10	4	13	6
-100	+	2	6	4	4	7	4	5	11	3	3
-200	+	+	2	+	+	+	+	1	3	4	+
-300	+	+	+	+	2	+	1	+	2	+	+
-400	+	+	+	+	+	+	+	+	+	1	+
-500	+	+	+	+	+	+	+	+	+	+	+

0	1	2	3	4	5	6	7	8	9	1
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
										0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

500	+	+	+	+	+	1	+	+	+	+	+
400	1	+	+	1	+	+	+	1	1	2	1
300	+	2	5	3	2	5	4	4	3	3	3
200	4	3	2	1	4	7	4	4	4	3	4
100	4	4	4	7	7	5	10	4	4	4	4
0	6	9	7	6	4	7	4	3	7	4	6
-100	3	4	4	7	4	6	4	4	2	6	7
-200	+	4	4	4	+	2	3	6	3	2	2
-300	+	+	+	2	1	3	3	2	2	1	3
-400	+	+	+	+	1	2	1	+	+	1	+
-500	+	+	+	+	+	+	1	+	+	+	+

1	1	1	1	1	1	1	1	1	1	1	2
0	1	2	3	4	5	6	7	8	9	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

500	+	+	+	+	+	+	+	+	+	+	+
400	1	+	1	1	1	2	1	+	1	+	1
300	3	1	2	+	1	1	3	2	+	+	+

////////////////////

TRANSMISSIVITY (GPD/FT) = 467500 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 18700 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY,(FT)= 10
RETARDATION COEFFICIENT = 7 FT
REGIONAL X FLOW (FT/DAY) = 24
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .004905

```

SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 ,  0
SINK/SOURCE STRENGTH     =-42 GFD
TIME SINK/SOURCE ACTIVE  = 0 DAYS

```

```

PARTICLES ON A CIRCLE
CIRCLE NUMBER 1
CIRCLE CENTER COORDINATES (X,Y) = 0 , 0 FT
CIRCLE RADIUS = 2 FT
NUMBER OF PARTICLES = 90

```

NF= 90
 CONCENTRATION IN PUMPED WELL NUMBER 1 , IN FPM, IS= 0

4	4	5	5	6	6	7	7	8	8	9
0	5	0	5	0	5	0	5	0	5	0
0	0	0	0	0	0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 360 DAYS PARTICLES= 360
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

250	+	+	+	+	+	+	+	1	+	+	1
200	+	+	+	+	+	+	+	1	+	+	+
150	+	+	1	1	1	+	+	1	+	+	+
100	+	+	+	+	1	1	2	2	1	1	1
50	+	1	+	1	1	3	2	1	2	4	1
0	1	1	1	+	4	1	1	2	5	1	1
-50	1	1	2	1	+	3	5	2	2	1	2
-100	+	+	1	+	2	2	+	1	+	+	1
-150	+	1	1	+	1	+	+	+	+	+	1
-200	+	1	+	+	+	+	1	+	1	1	+
-250	+	+	+	+	+	+	+	+	+	+	+

5	0	5	1	1	2	2	3	3	4	4
0		0	0	5	0	5	0	5	0	5
			0	0	0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 360 DAYS PARTICLES= 360
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

500	+	+	+	+	+	+	+	+	+	+	+
400	+	+	+	+	+	+	+	+	+	+	+
300	+	+	+	+	+	+	+	+	+	+	+
200	+	+	+	1	+	1	1	+	1	1	+
100	+	1	1	1	1	1	1	1	2	1	1
0	1	1	2	3	3	1	1	2	2	1	1
-100	1	1	1	1	1	1	2	1	2	1	1
-200	+	+	+	+	+	+	1	+	+	1	+
-300	+	+	+	+	+	+	+	+	+	+	+
-400	+	+	+	+	+	+	+	+	+	+	+
-500	+	+	+	+	+	+	+	+	+	+	+

0	1	2	3	4	5	6	7	8	9	1
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

TRANSMISSIVITY (GPD/FT) = 11220 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 748 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = 7. FT
REGIONAL X FLOW (FT/DAY) = 1.64
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .02453

/SINK INFORMATION\

```
SINK/SOURCE NUMBER 1
COORDINATE OF SINK (X,Y)= 0 , 0
SINK/SOURCE STRENGTH =-210 GPD
TIME SINK/SOURCE ACTIVE = 0 DAYS
```

////////////////PARTICLES\\

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

CIRCLE NUMBER 1
PARTICLE CENTER COORDINATES (X,Y) = 0 , 0 FT
CIRCLE RADIUS = 2 FT
NUMBER OF PARTICLES = 10

TOTAL SYSTEM PARTICLES = 40

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN FPM, IS= 0

CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

[illegible]

4	3	2	1	0	1	2	3	4	5	6
0	0	0	0		0	0	0	0	0	0

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

/////////////////PARTICLES\\

NUMBER OF PARTICLES = 10

TOTAL SYSTEM PARTICLES = 70

[illegible]

PRESENT SIMULATION TIME = 60 DAYS

INCREMENTAL SIMULATION TIME = 10 DAYS

DMAX = 3 FT

NF= 70

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM. IS= 0

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

250	+	+	+	+	+	+	+	+	+	+	+
200	+	+	+	+	+	+	+	+	+	+	+
150	+	+	+	+	+	+	6	+	6	+	6
100	+	6	12	30	60	18	30	18	6	6	+
50	36	78	114	240	150	78	84	78	36	18	+
0	78	240	1	419	354	228	132	120	72	12	+
-50	18	60	126	228	216	168	90	48	30	6	6
-100	+	6	18	30	12	30	18	30	12	+	6
-150	+	6	+	+	+	+	+	+	+	+	+
-200	+	+	+	+	+	+	+	+	+	+	+
-250	+	+	+	+	+	+	+	+	+	+	+

-	-										
1	5	0	5	1	1	2	2	3	3	4	
0	0		0	0	5	0	5	0	5	0	
0				0	0	0	0	0	0	0	

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

PRESENT SIMULATION TIME = 730 DAYS
 INCREMENTAL SIMULATION TIME = 183 DAYS
 DMAX = 140 FT

NP= 730
 CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

PRESENT SIMULATION TIME = 913 DAYS
 INCREMENTAL SIMULATION TIME = 182 DAYS
 DMAX = 150 FT

NP= 730

-----GROUNDWATER QUALITY MODEL FOR ABBOTT LABORATORIES-----

```

//////////BASIC TRANSPORT COEFFICIENTS\\

```

TRANSMISSIVITY (GPD/FT) = 11220 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 748 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = .7 FT
REGIONAL X FLOW (FT/DAY) = 1.64
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .004905

////////////////////

//////////////////SINK INFORMATION\\\\\\\\\\\\\\\\\\\\\\

NO. OF SINKS = 1

```

SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 , 0
SINK/SOURCE STRENGTH     =-42 GPD
TIME SINK/SOURCE ACTIVE  = 0 DAYS

```

[illegible]

```

PARTICLES ON A CIRCLE
CIRCLE NUMBER      1
CIRCLE CENTER COORDINATES (X,Y) =  0 , 0  FT
CIRCLE RADIUS =    2  FT
NUMBER OF PARTICLES = 30

```

```

TOTAL SYSTEM PARTICLES = 30
////////////////////////////////////
PRESENT SIMULATION TIME = 0 DAYS
INCREMENTAL SIMULATION TIME = 30 DAYS

```

DMAX = 50 FT

NF= 30

CONCENTRATION IN PUMPED WELL NUMBER 1, IN PPM, IS= 0

CONCENTRATION IN PUMPED WELL NUMBER 1 . IN PPM, IS= 0

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

[illegible]

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

NUMBER OF PARTICLES = 30

[illegible]

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

| | | | | | | | | | | | |
|-------|---|---|----|----|----|----|----|-----|-----|-----|----|
| 100 | : | + | 7 | 15 | + | + | + | + | + | 7 | 7 |
| 80 | : | 7 | + | + | 7 | + | + | 30 | 22 | 15 | 22 |
| 60 | : | + | 7 | + | 15 | 15 | 7 | 22 | 30 | 30 | 22 |
| 40 | : | + | + | 30 | 22 | 22 | 37 | 30 | 22 | 45 | 22 |
| 20 | : | 7 | + | 30 | 37 | 82 | 67 | 60 | 82 | 90 | 75 |
| 0 | : | 7 | 7 | 45 | 82 | 67 | 1 | 67 | 105 | 150 | 45 |
| -20 | : | + | 15 | 22 | 45 | 60 | 60 | 112 | 97 | 60 | 75 |
| -40 | : | 7 | 15 | 7 | 45 | 30 | 52 | 52 | 37 | 30 | 52 |
| -60 | : | + | 7 | 7 | 15 | 7 | + | 30 | 15 | 30 | 22 |
| -80 | : | + | + | + | 7 | + | 7 | + | + | 45 | 15 |
| -100 | : | + | 7 | + | + | + | + | 7 | 7 | + | + |
| ----- | | | | | | | | | | | |
| | | - | - | - | - | - | | | | | |
| | | 1 | 8 | 6 | 4 | 2 | 0 | 2 | 4 | 6 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| | | 0 | | | | | | | | | 0 |

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

| | | | | | | | | | | | |
|-------|---|----|----|-----|----|----|----|----|----|----|----|
| 100 | : | 7 | + | 7 | + | + | 7 | + | 15 | + | 7 |
| 80 | : | 15 | 15 | + | 7 | 7 | + | 7 | 7 | + | + |
| 60 | : | 22 | 22 | 7 | 22 | 22 | 7 | 7 | 15 | 7 | + |
| 40 | : | 75 | 45 | 15 | 37 | 15 | 30 | + | 15 | + | 7 |
| 20 | : | 60 | 37 | 67 | 67 | 7 | 22 | 15 | 7 | 7 | 15 |
| 0 | : | 52 | 75 | 105 | 67 | 30 | 15 | 60 | 52 | 7 | 22 |
| -20 | : | 75 | 37 | 37 | 52 | 37 | 30 | 30 | 15 | 37 | 30 |
| -40 | : | 22 | 45 | 52 | 15 | 45 | 30 | 37 | + | 22 | 7 |
| -60 | : | 22 | 15 | 7 | 7 | + | 22 | 30 | 15 | 15 | 7 |
| -80 | : | 7 | 7 | 15 | + | 15 | + | + | + | + | 7 |
| -100 | : | 7 | 7 | + | 7 | + | 15 | + | + | + | + |
| ----- | | | | | | | | | | | |
| | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| | | 0 | 2 | 4 | 6 | 8 | 0 | 2 | 4 | 6 | 8 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

-----GROUNDWATER QUALITY MODEL FOR ABBOTT LABORATORIES-----

```
//////////BASIC TRANSPORT COEFFICIENTS\\\\\\\\\\\\
```

TRANSMISSIVITY (GPD/FT) = 11220 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 748 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = 7 FT
REGIONAL X FLOW (FT/DAY) = 1.64
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .002453

//////////////////SINK INFORMATION\\\\\\\\\\\\\\\\\\\\\\

NO. OF SINKS = 1

```

SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 , 0
SINK/SOURCE STRENGTH     =-21 GPD
TIME SINK/SOURCE ACTIVE  = 0. DAYS

```

////////////////PARTICLES\\

```

PARTICLES ON A CIRCLE
CIRCLE NUMBER      1
CIRCLE CENTER COORDINATES (X,Y) =  0 , 0  FT
CIRCLE RADIUS =    2  FT
NUMBER OF PARTICLES = 10

```

TOTAL SYSTEM PARTICLES = 10

PRESENT SIMULATION TIME = 0 DAYS

INCREMENTAL SIMULATION TIME = 10 DAYS

DMAX = 1 FT

THEORETICAL STUDENT TUBING TABLE - 10000000

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

ACCUMULATED TIME = 60 DAYS PARTICLES= 60

| | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|
| 50 | + | + | + | + | + | + | + | + | + | + |
| 40 | + | + | + | + | + | + | + | + | + | + |
| 30 | + | + | + | + | + | + | + | + | + | + |
| 20 | 15 | 15 | 30 | 15 | 15 | 30 | 45 | + | + | 15 |
| 10 | + | + | 15 | 30 | 15 | 75 | 15 | + | + | + |
| 0 | + | 30 | 30 | 45 | 1 | 60 | 60 | 15 | + | + |
| -10 | 15 | 30 | 30 | + | 30 | + | 15 | 15 | 15 | 15 |
| -20 | + | + | 15 | + | + | 15 | 15 | + | + | + |
| -30 | 15 | + | + | + | 15 | + | 15 | + | + | + |
| -40 | + | + | + | + | 15 | + | + | + | + | + |
| -50 | + | + | + | + | + | + | + | + | + | + |
| | - | - | - | - | | | | | | |
| | 4 | 3 | 2 | 1 | 0 | 1 | 2 | 3 | 4 | 5 |
| | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 |

////////////////PARTICLES\\\\\\\\\\\\\\\\\\\\\\

CIRCLE NUMBER 1

CIRCLE RADIUS = 2 FT

TOTAL SYSTEM PARTICLES = 90

INCREMENTAL SIMULATION TIME = 30 DAYS

MF= 90

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM. IS= 0

| | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|
| -100 | + | + | + | + | + | + | + | 4 | 4 | 4 | + |
| | - | - | - | - | - | | | | | | |
| | 1 | 8 | 6 | 4 | 2 | 0 | 2 | 4 | 6 | 8 | 1 |
| | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 |
| | 0 | | | | | | | | | | 0 |

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

COORDINATES ARE IN FEET

| | | | | | | | | | | | |
|------|---|---|----|----|----|----|----|----|----|---|---|
| 250 | + | + | + | + | + | + | + | + | + | + | + |
| 200 | + | + | + | + | + | + | + | + | + | + | + |
| 150 | + | + | 1 | + | + | + | + | + | + | + | + |
| 100 | + | 1 | 1 | 2 | 2 | 3 | 5 | 1 | 1 | 1 | 1 |
| 50 | 1 | 2 | 5 | 15 | 22 | 13 | 14 | 10 | 5 | 2 | 2 |
| 0 | 1 | 5 | 16 | 43 | 54 | 32 | 27 | 20 | 11 | 6 | 2 |
| -50 | 1 | 4 | 7 | 15 | 20 | 12 | 8 | 11 | 8 | 4 | 2 |
| -100 | 1 | + | 2 | 2 | 2 | 3 | 1 | 2 | + | 1 | + |
| -150 | + | 1 | + | + | 1 | + | 1 | 1 | 1 | + | + |
| -200 | + | + | + | + | + | + | + | + | + | + | + |
| -250 | + | + | + | + | + | + | + | + | + | + | + |
| | - | - | - | | | | | | | | |
| | 1 | 1 | 5 | 0 | 5 | 1 | 1 | 2 | 2 | 3 | 3 |
| | 5 | 0 | 0 | | 0 | 0 | 5 | 0 | 5 | 0 | 5 |
| | 0 | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 |

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

```

TRANSMISSIVITY (GPD/FT) = 11220 GPD/FT
STORAGE COEFFICIENT = .1
HYDRAULIC CONDUCTIVITY = 748 GPD/SQ.FT.
POROSITY = .25
LONGITUDINAL DISPERSIVITY= 50
TRANSVERSE DISPERSIVITY (FT)= 10
RETARDATION COEFFICIENT = 7 FT
REGIONAL X FLOW (FT/DAY) = 1.64
REGIONAL Y FLOW (FT/DAY)= 0
PARTICLE MASS (LBS) = .000292

```

//////////////////SINK INFORMATION\\\\\\\\\\\\\\\\\\\\\\

```

SINK/SOURCE NUMBER      1
COORDINATE OF SINK (X,Y)=  0 ,  0
SINK/SOURCE STRENGTH     =-2.5 GPD
TIME SINK/SOURCE ACTIVE  = 0 DAYS

```

//////////////////////////PARTICLES\\

```

TOTAL SYSTEM PARTICLES = 30
////////////////////////////////////
PRESENT SIMULATION TIME = 0 DAYS
INCREMENTAL SIMULATION TIME = 30 DAYS

```

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

PARTICLES ON A CIRCLE
CIRCLE NUMBER 1
CIRCLE CENTER COORDINATES (X Y) = 0 0 ET

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

COORDINATES ARE IN FEET

| | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|
| 50 | + | + | + | + | + | + | + | + | + | + | + |
| 40 | + | + | + | + | 2 | 2 | + | + | 2 | + | + |
| 30 | + | + | + | + | 2 | 2 | + | + | + | + | + |
| 20 | + | + | 4 | 4 | + | + | + | + | + | + | + |
| 10 | 2 | 4 | + | 4 | + | + | 5 | 5 | 2 | + | + |
| 0 | 2 | 2 | 4 | + | 1 | 2 | 5 | 2 | 2 | 4 | + |
| -10 | + | 2 | 4 | + | 2 | 2 | 2 | 2 | + | 4 | 2 |
| -20 | 2 | + | 2 | 2 | + | 2 | + | 4 | + | + | 2 |
| -30 | + | + | + | + | + | 2 | + | + | + | + | + |
| -40 | + | + | + | + | + | + | + | + | + | + | + |
| -50 | + | + | + | + | + | + | + | + | + | + | + |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|--|
| - | - | - | - | | | | | | | | |
| 4 | 3 | 2 | 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |
| 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | |

////////////////PARTICLES\\

```

PARTICLES ON A CIRCLE
CIRCLE NUMBER      1
CIRCLE CENTER COORDINATES (X,Y) =  0 , 0  FT
CIRCLE RADIUS =    2  FT
NUMBER OF PARTICLES = 60

```

[illegible]

CONCENTRATION IN PUMPED WELL NUMBER 1 , IN PPM, IS= 0

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

Case No. 8224 E. & M. No. 18

Submitted by Division

Hearing Date 4-23-85

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

| | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|
| 100 | + | + | + | + | + | + | + | + | + | + | + |
| 80 | + | + | 1 | 1 | + | + | + | + | 1 | 1 | 1 |
| 60 | + | + | + | 1 | 1 | 1 | + | + | 1 | 1 | 1 |
| 40 | + | + | 2 | 1 | 2 | 2 | 3 | 4 | 2 | 1 | 2 |
| 20 | + | 1 | 3 | 2 | 5 | 8 | 5 | 6 | 4 | 7 | 4 |
| 0 | 1 | + | + | 6 | 4 | 3 | 5 | 6 | 8 | 5 | 5 |
| -20 | 1 | 2 | 1 | 1 | 3 | 5 | 3 | 6 | 4 | 2 | 4 |
| -40 | + | + | 1 | 1 | + | 1 | 3 | 3 | 2 | 4 | 3 |
| -60 | + | + | + | + | + | 3 | 1 | 1 | 2 | 1 | 2 |
| -80 | + | + | + | + | + | 1 | 1 | + | 1 | 1 | 1 |
| -100 | + | + | + | + | + | + | 1 | + | 1 | + | + |
| ----- | | | | | | | | | | | |
| | - | - | - | - | - | | | | | | |
| | 1 | 8 | 6 | 4 | 2 | 0 | 2 | 4 | 6 | 8 | 1 |
| | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 |
| | 0 | | | | | | | | | | 0 |

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

| | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|
| 100 | + | + | + | + | + | + | + | 1 | + | + | + |
| 80 | 1 | + | + | 1 | + | + | + | + | + | 1 | + |
| 60 | 1 | 2 | 1 | 1 | 1 | + | 1 | + | + | + | + |
| 40 | 2 | 2 | 2 | 2 | 1 | + | 2 | 4 | + | 1 | 1 |
| 20 | 4 | 4 | 3 | 1 | 4 | 2 | 1 | + | 1 | 1 | + |
| 0 | 5 | 4 | 2 | 3 | + | + | + | 2 | + | 2 | + |
| -20 | 4 | 5 | 4 | 3 | 3 | 2 | 1 | + | + | 1 | 1 |
| -40 | 3 | 3 | 2 | + | 1 | + | + | + | 1 | 2 | + |
| -60 | 2 | + | 1 | 2 | 2 | 1 | 1 | + | 1 | + | 1 |
| -80 | 1 | 1 | + | + | 2 | + | 1 | + | + | + | + |
| -100 | + | + | + | + | + | + | + | 1 | + | + | + |
| ----- | | | | | | | | | | | |
| | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 0 | 2 | 4 | 6 | 8 | 0 | 2 | 4 | 6 | 8 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

DO A SCREEN PRINT NOW OR PRESS <RETURN> TO GO BACK TO THE MENU.?

ACCUMULATED TIME = 730 DAYS PARTICLES= 730
 CONCENTRATION MAP IN PPB (P SIGNIFIES PUMPAGE, I SIGNIFIES INJECTION)

 COORDINATES ARE IN FEET

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

Case No. 8224 Sub. No. 18

Submitted by Division

Hearing Date 4-23-85