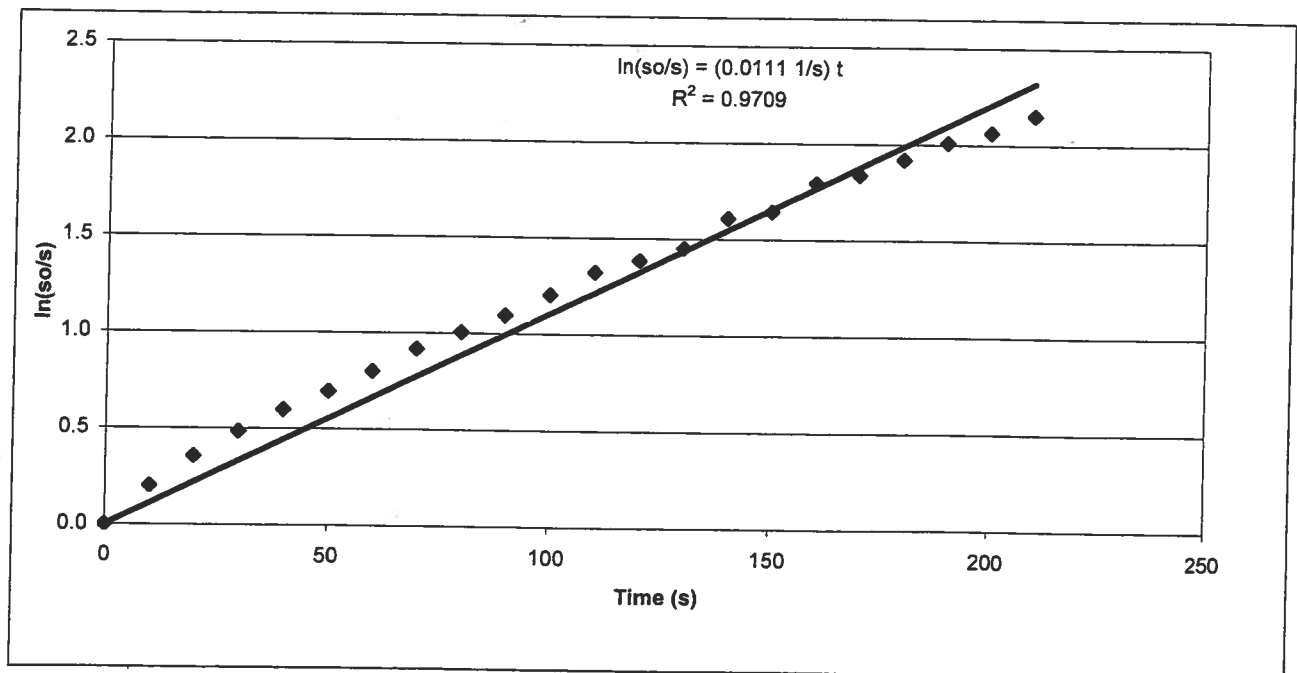


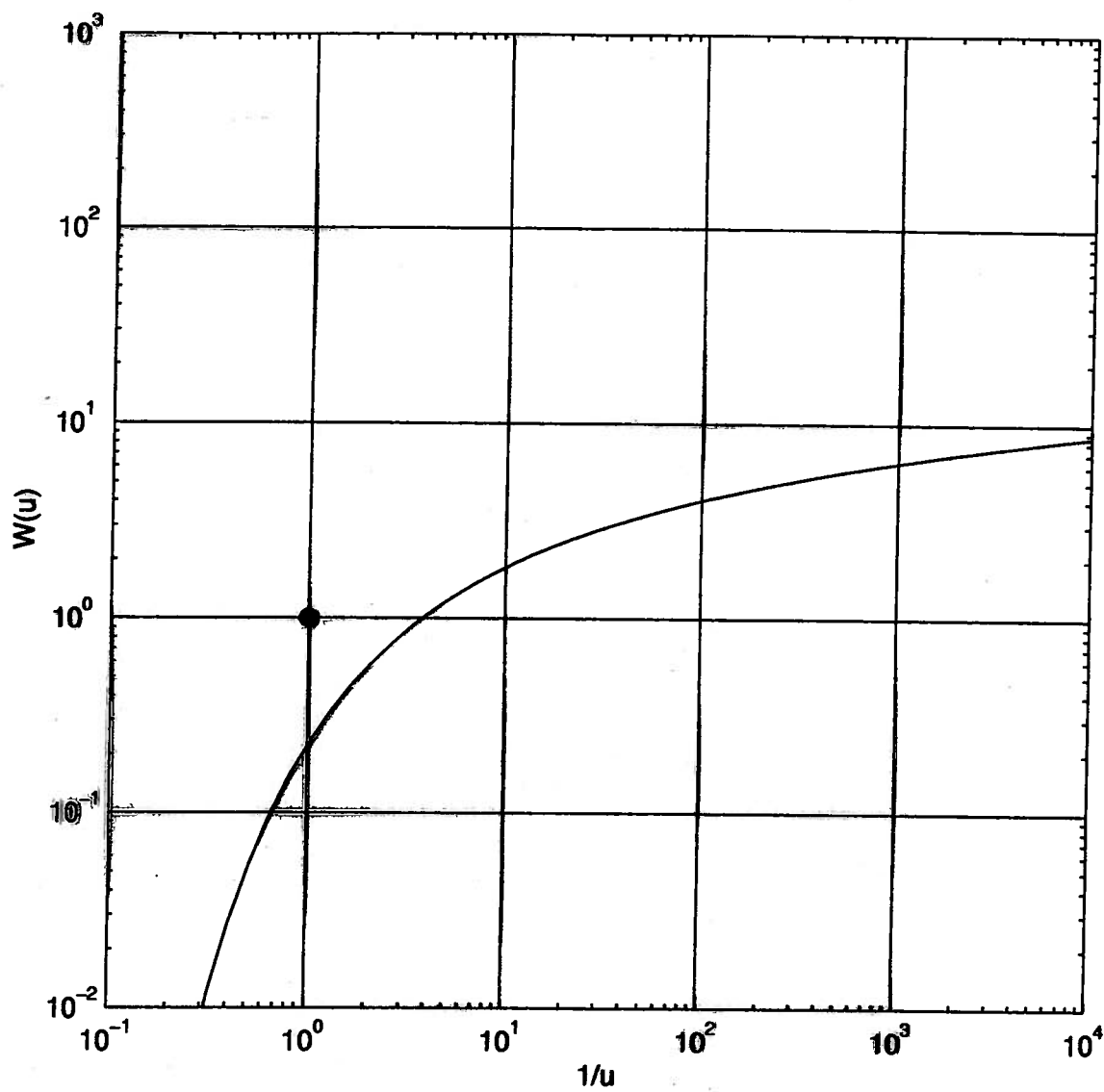


Altitude of the potentiometric surface of wells completed in deep stratified drift and bedrock, in the vicinity of wells G and H, December 4, 1985

R 3.8 cm
D 118 cm

Time (s)	Depth to Water (cm)	Drawdown (cm)	so/s	ln(so/s)
0	29.60	5.60	1.00	0.00
10	28.57	4.57	1.23	0.20
20	27.92	3.92	1.43	0.36
30	27.45	3.45	1.62	0.48
40	27.08	3.08	1.82	0.60
50	26.80	2.80	2.00	0.69
60	26.52	2.52	2.22	0.80
70	26.24	2.24	2.50	0.92
80	26.05	2.05	2.73	1.00
90	25.87	1.87	2.99	1.10
100	25.68	1.68	3.33	1.20
110	25.49	1.49	3.76	1.32
120	25.40	1.40	4.00	1.39
130	25.31	1.31	4.27	1.45
140	25.12	1.12	5.00	1.61
150	25.08	1.08	5.19	1.65
160	24.93	0.93	6.02	1.80
170	24.89	0.89	6.29	1.84
180	24.82	0.82	6.83	1.92
190	24.75	0.75	7.47	2.01
200	24.71	0.71	7.89	2.07
210	24.65	0.65	8.62	2.15

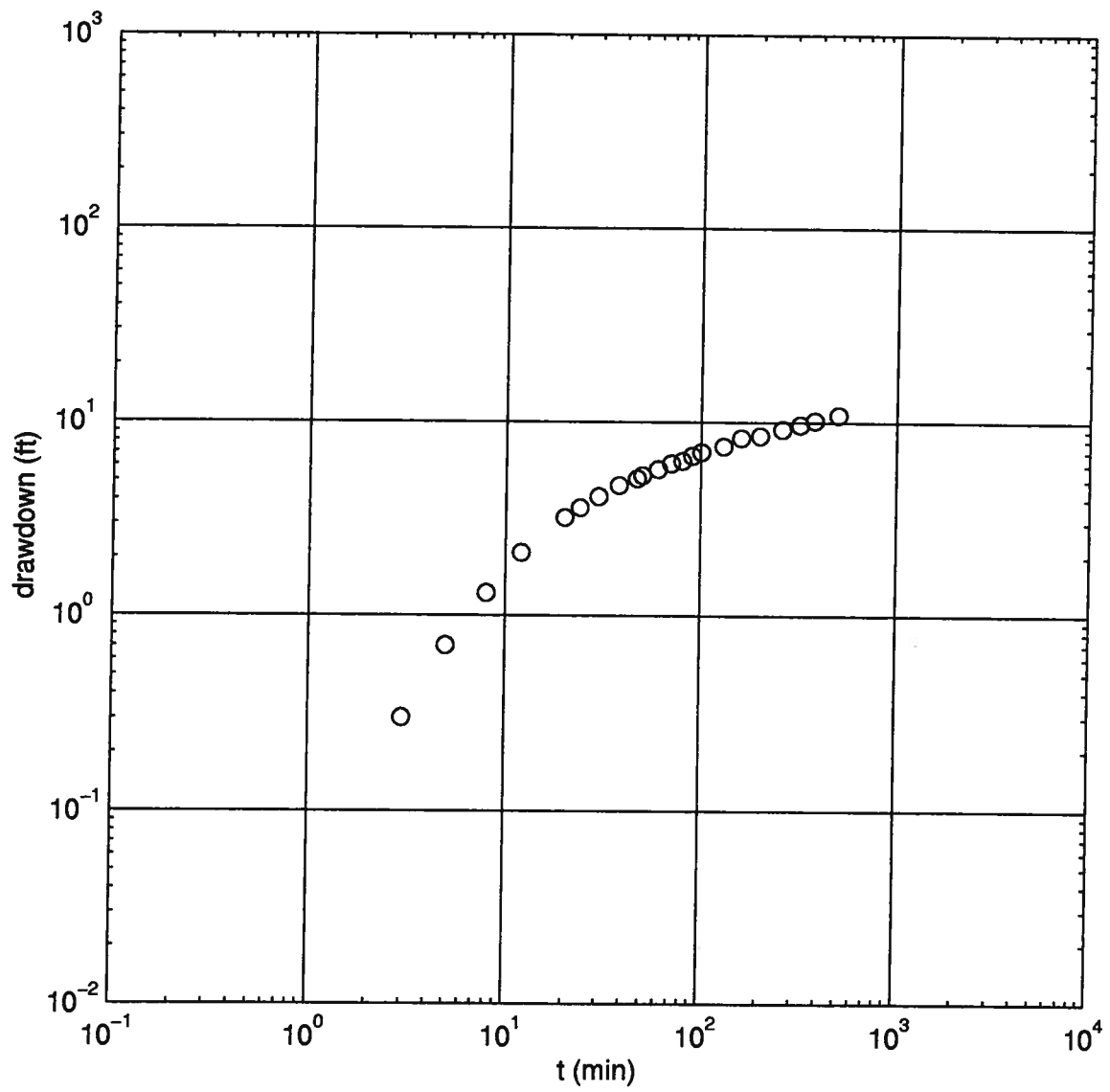


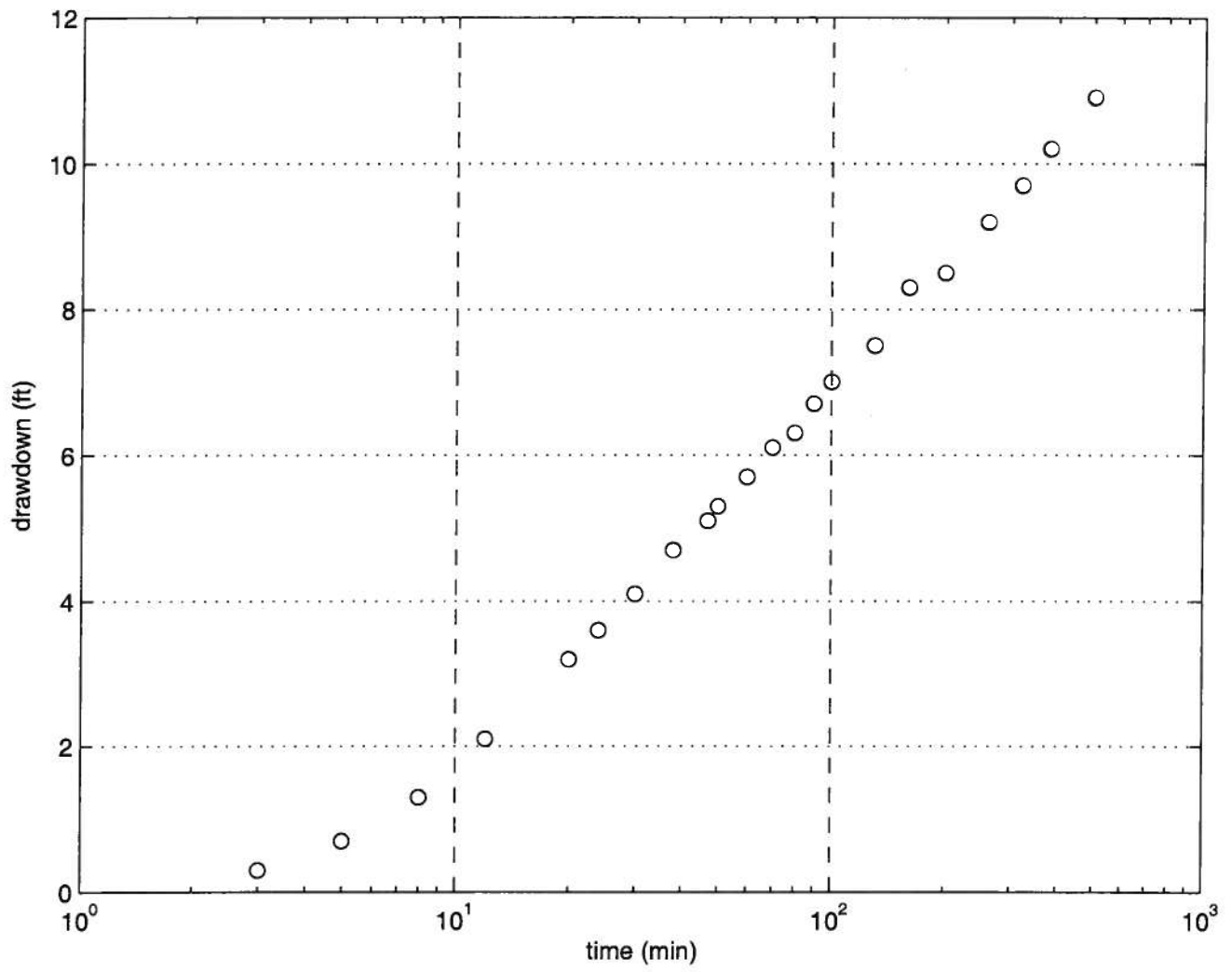


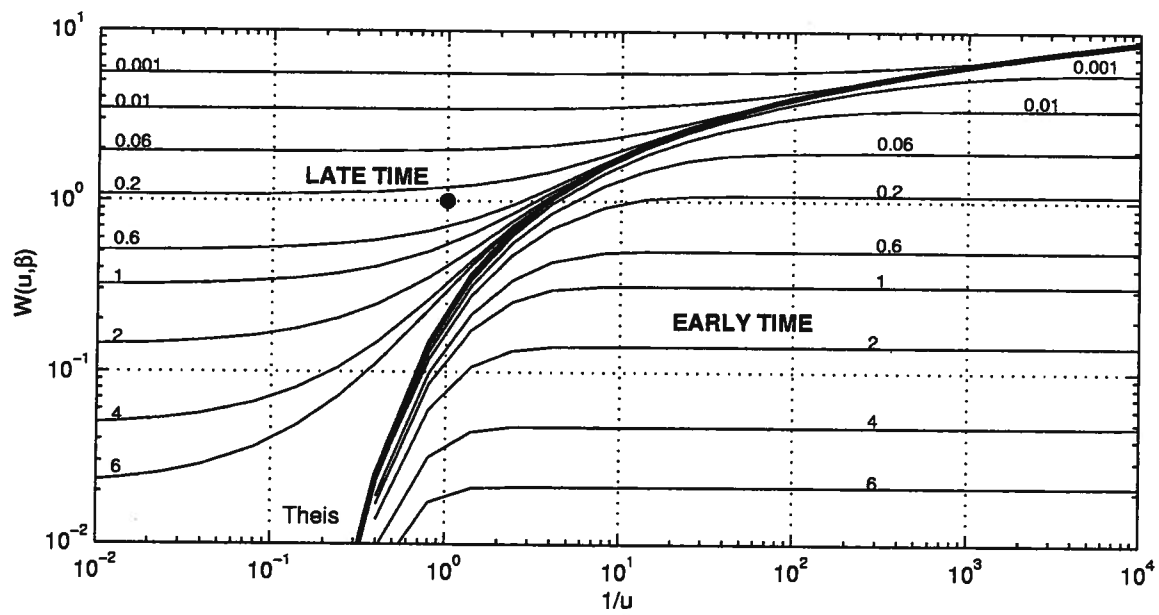
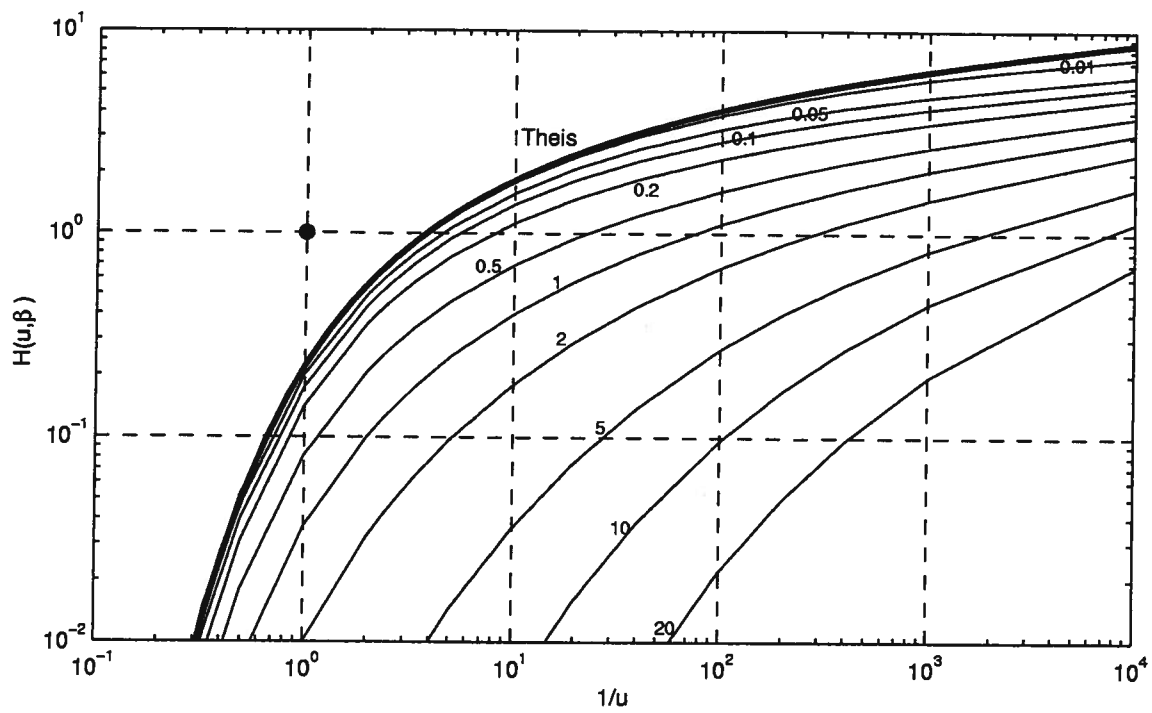
Drawdown data for example problem

Time (min)	Drawdown (ft)
3	0.3
5	0.7
8	1.3
12	2.1
20	3.2
24	3.6
30	4.1
38	4.7
47	5.1
50	5.3
60	5.7
70	6.1
80	6.3
90	6.7
100	7.0
130	7.5
160	8.3
200	8.5
260	9.2
320	9.7
380	10.2
500	10.9

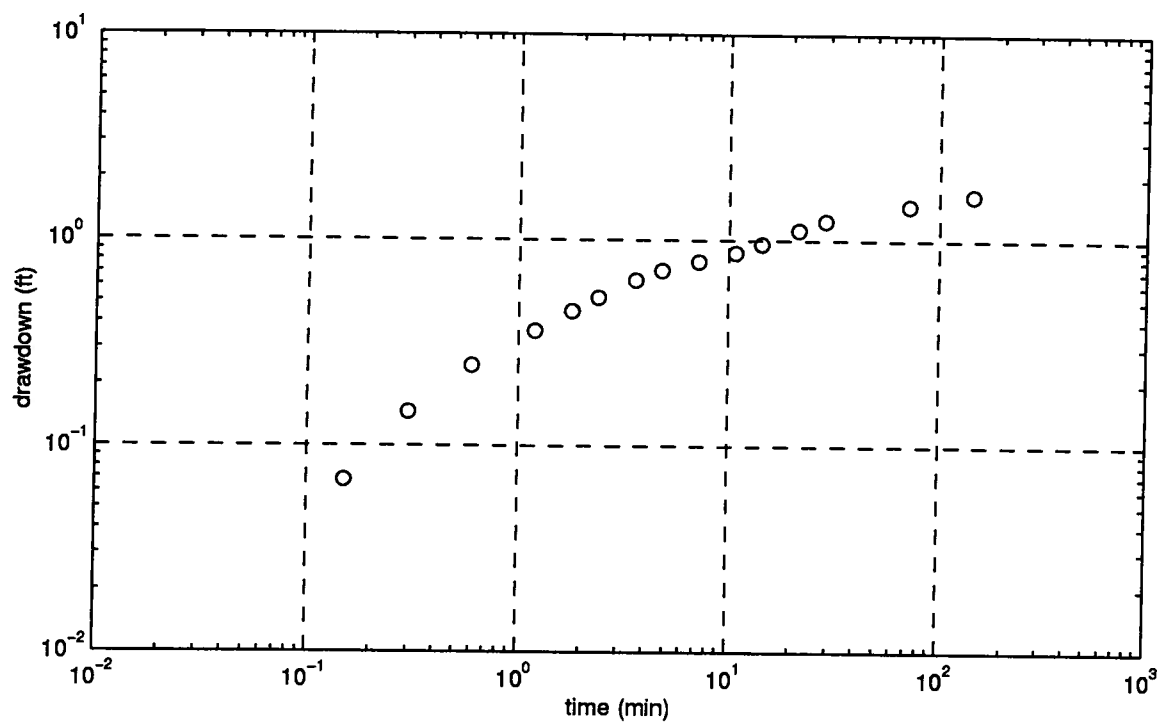
Example - Theis



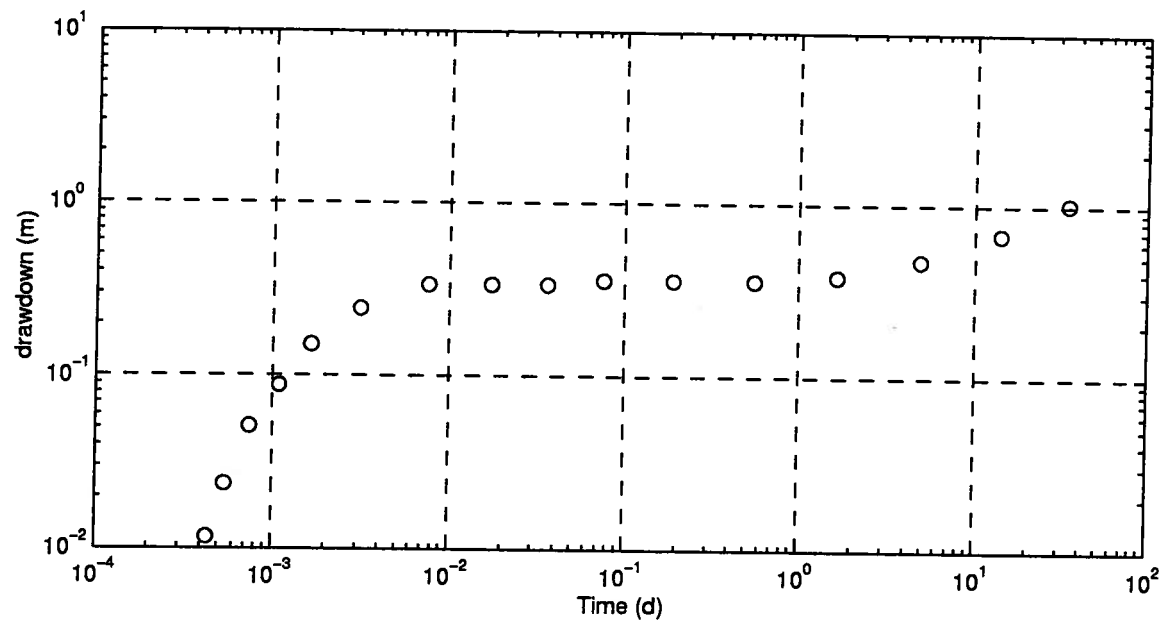


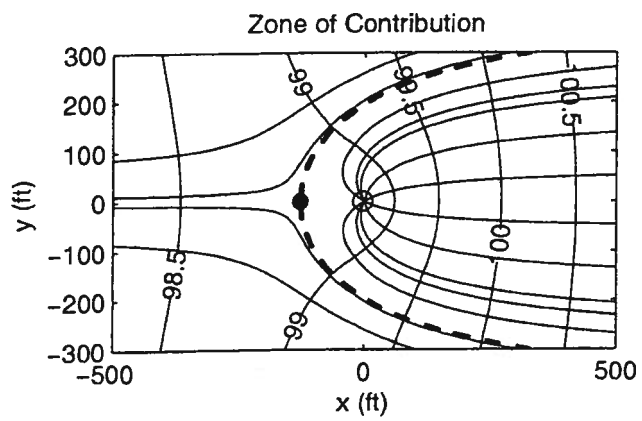
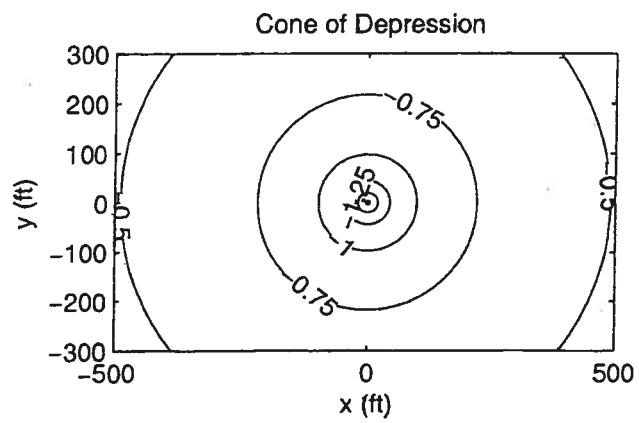
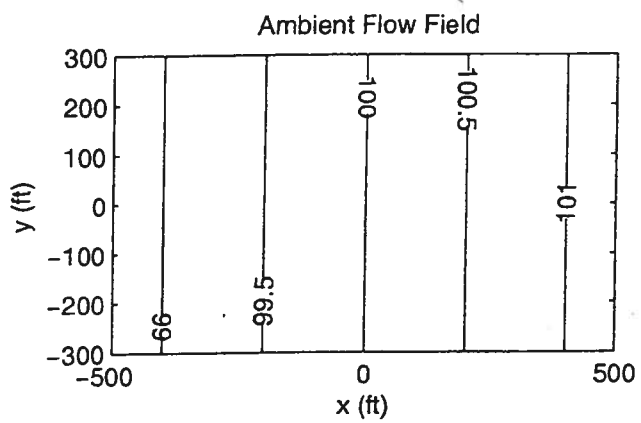


Example - Leaky Aquifer

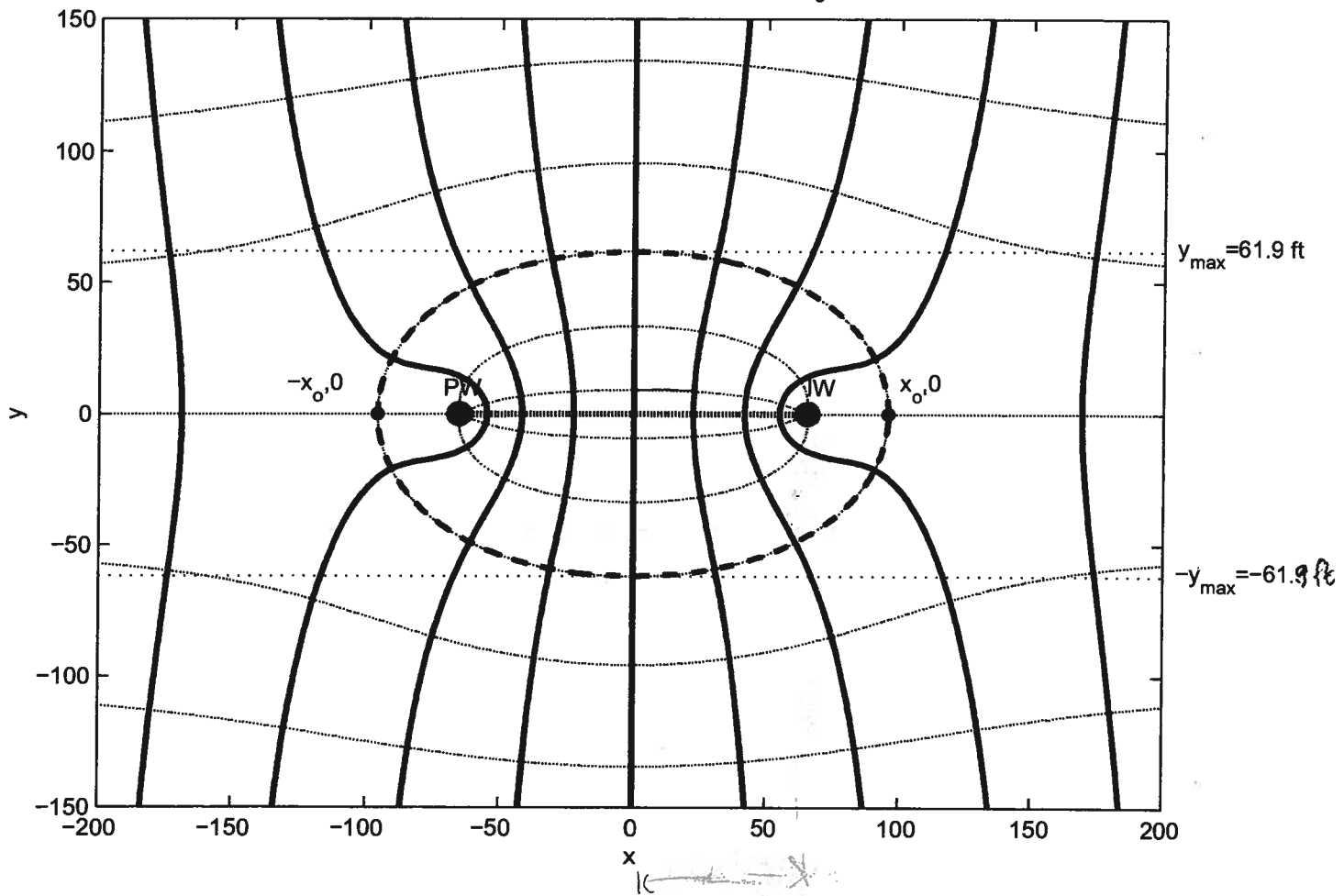


Example - Unconfined Aquifer

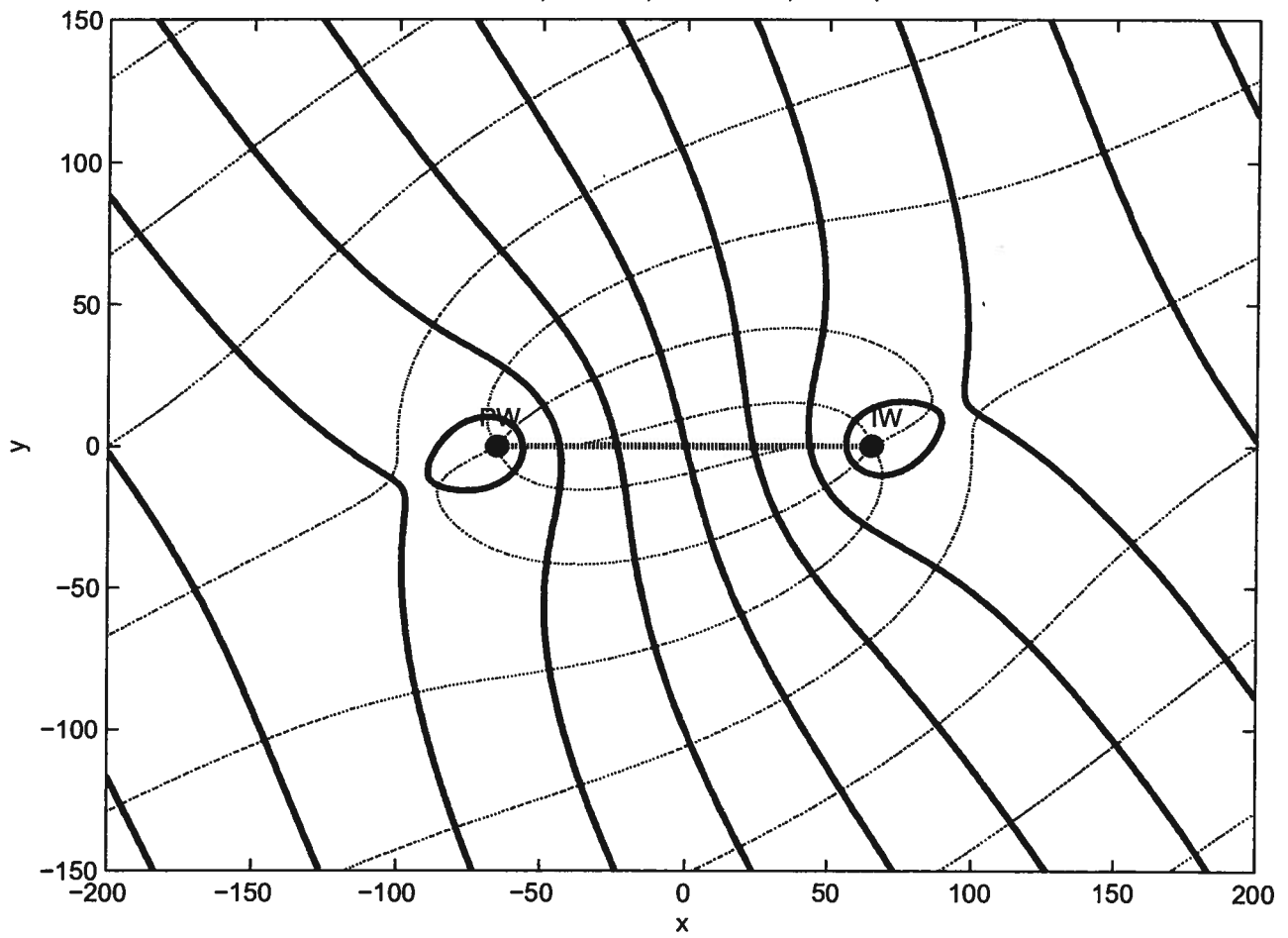




$Q=12 \text{ ft}^3/\text{d}$, $T=5 \text{ ft}^2/\text{d}$, $dh/dx=0.01$, $L=65 \text{ ft}$, $x_0=95.9 \text{ ft}$



$Q=12 \text{ ft}^3/\text{d}$, $T=5 \text{ ft}^2/\text{d}$, $dh/dx=0.01$, $L=65 \text{ ft}$, $\theta=30^\circ$



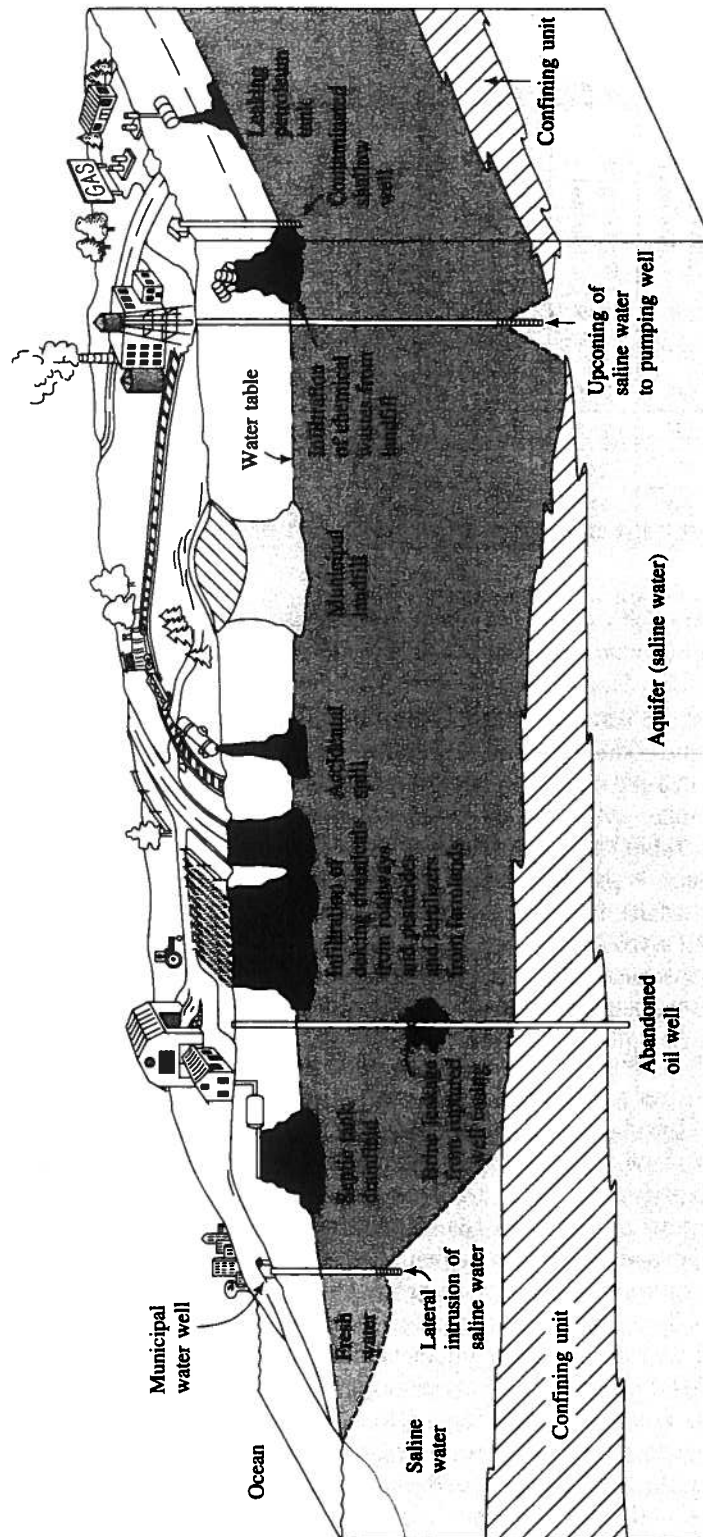
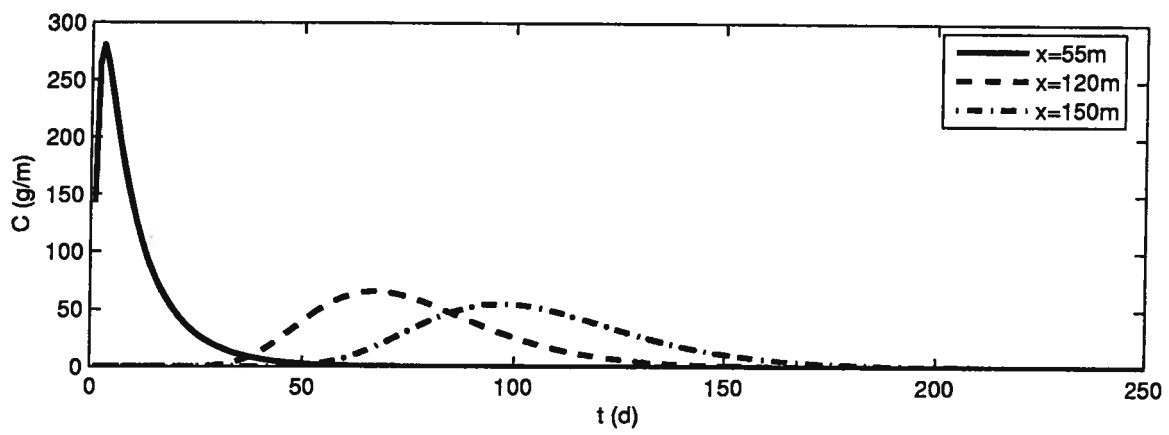
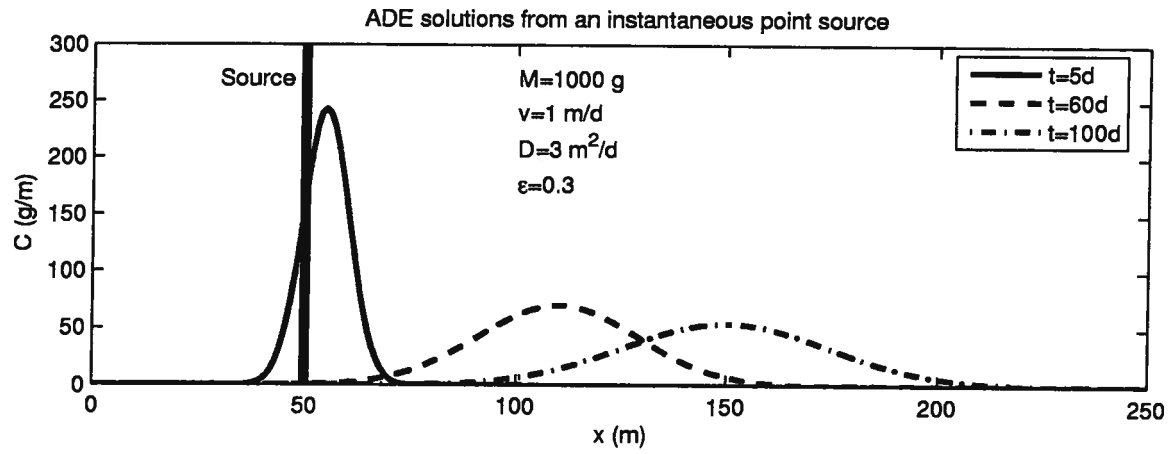
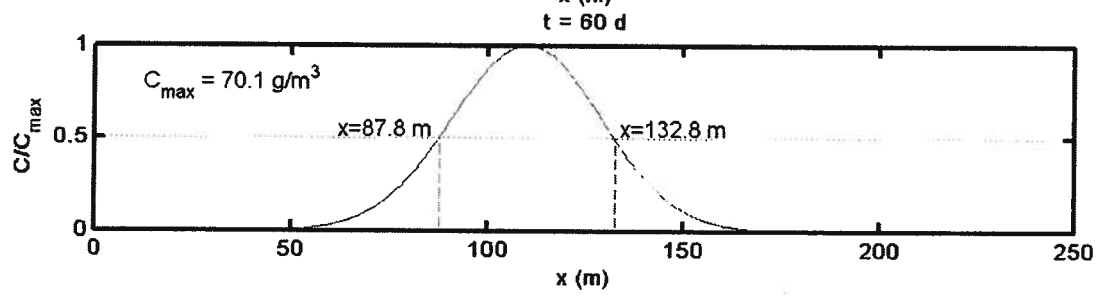
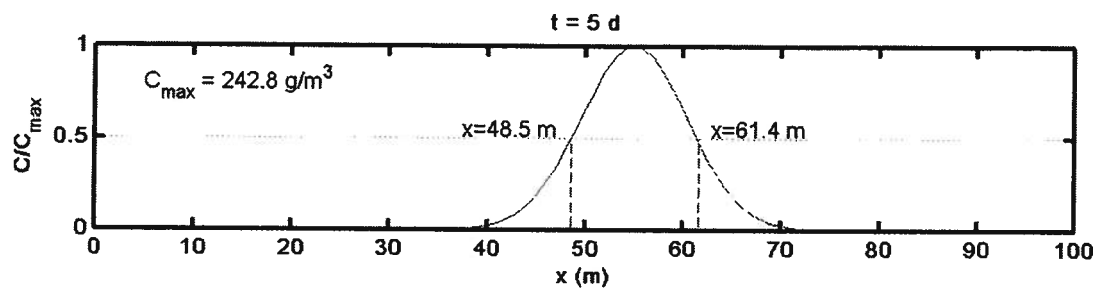
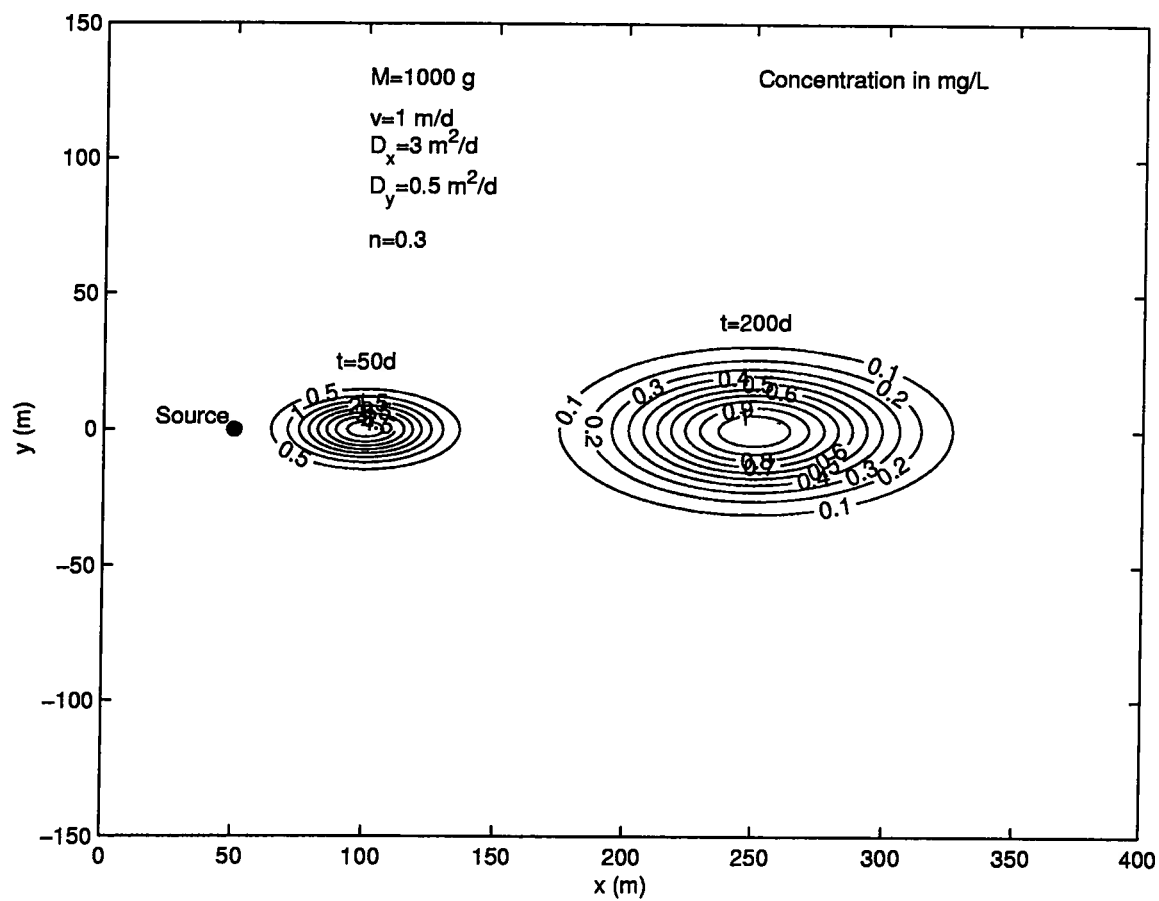
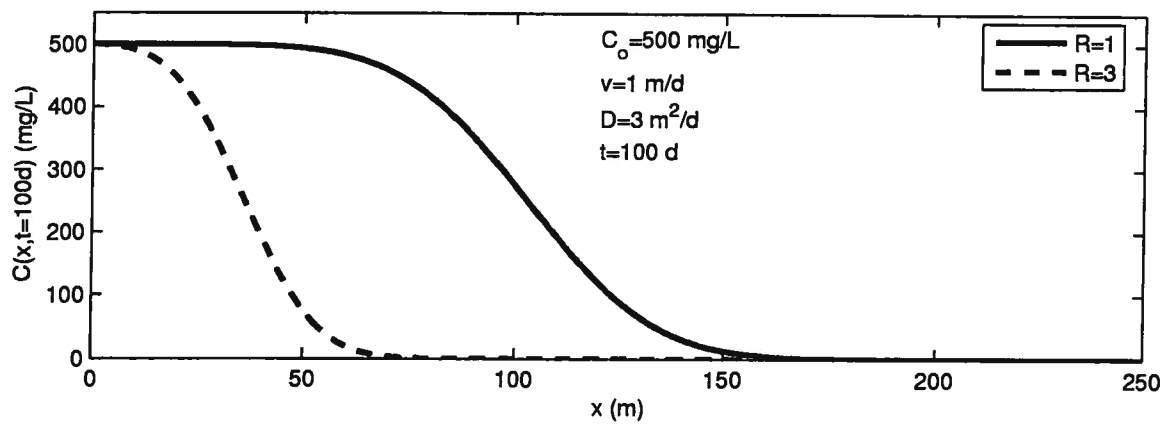
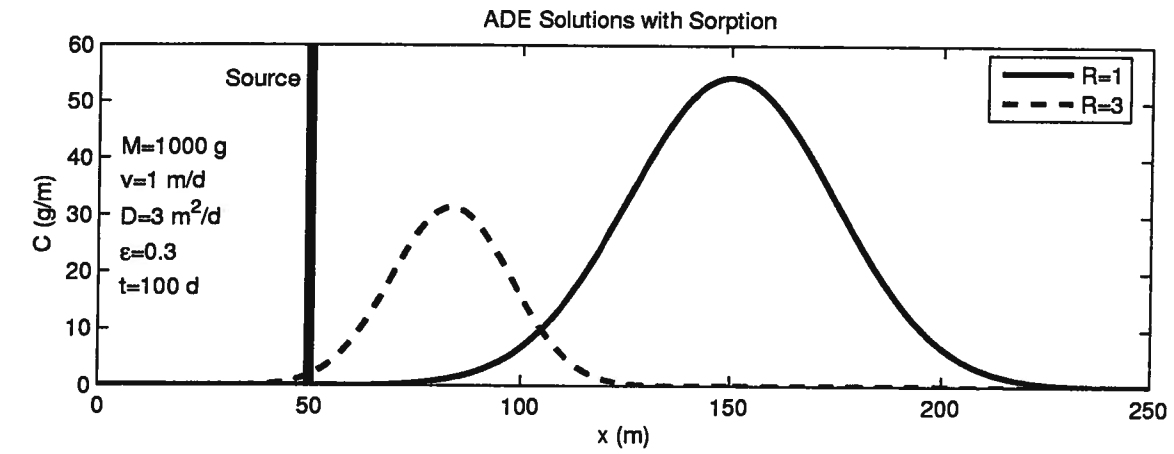


FIGURE 1.1 Mechanisms of ground-water contamination.









Appendix V Complementary Error Function (erfc)

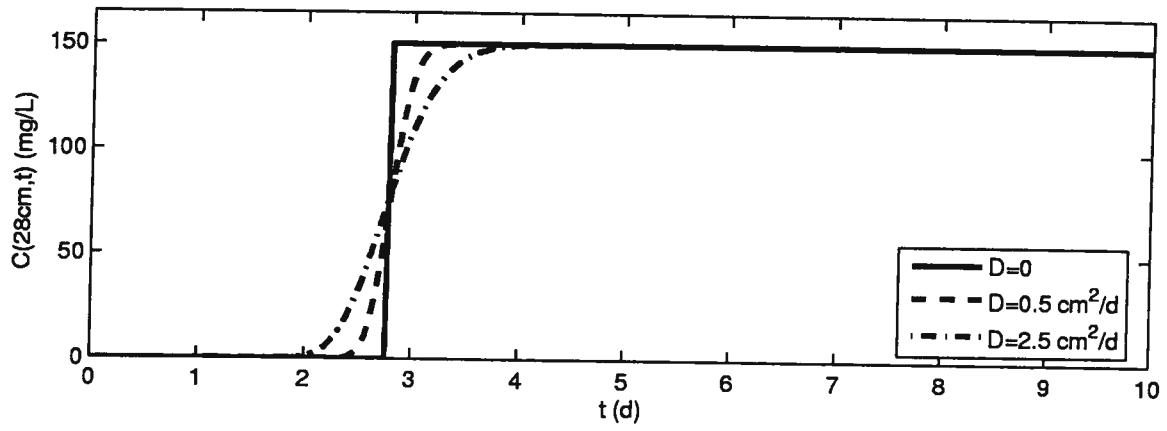
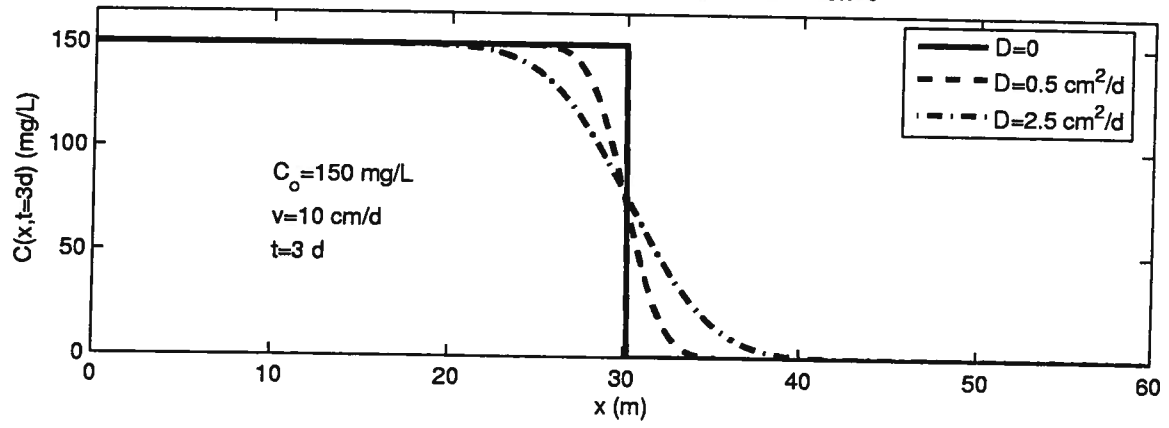
$$\operatorname{erf}(\beta) = \frac{2}{\sqrt{\mu}} \int_0^{\beta} e^{-\epsilon^2} d\epsilon$$

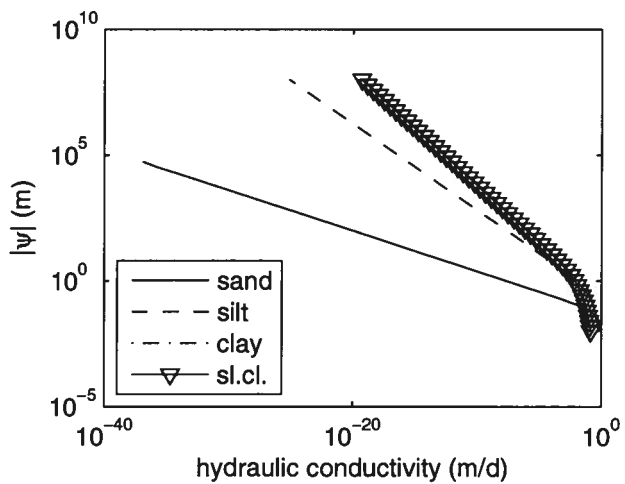
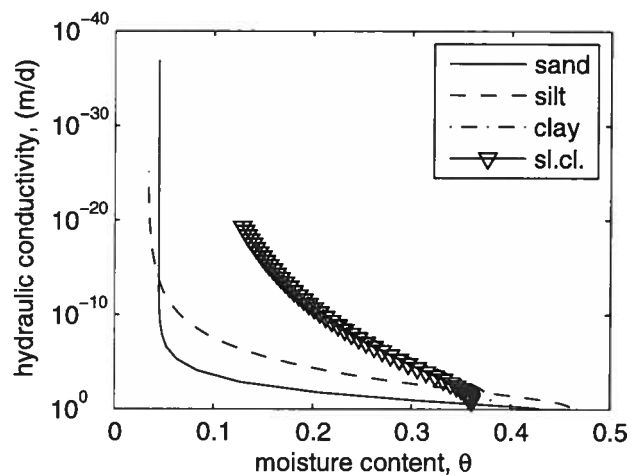
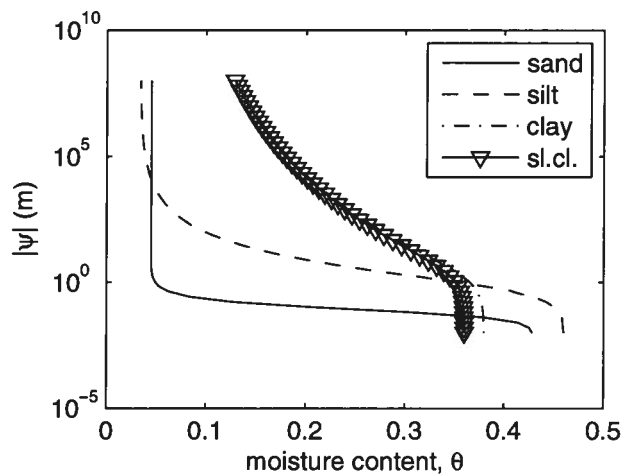
$$\operatorname{erf}(-\beta) = -\operatorname{erf} \beta$$

$$\operatorname{erfc}(\beta) = 1 - \operatorname{erf}(\beta)$$

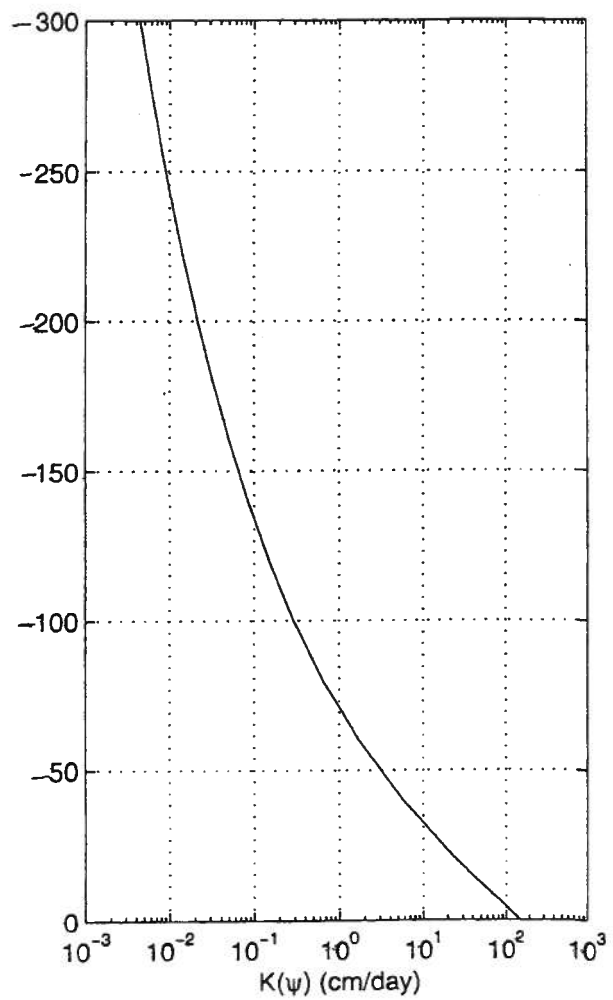
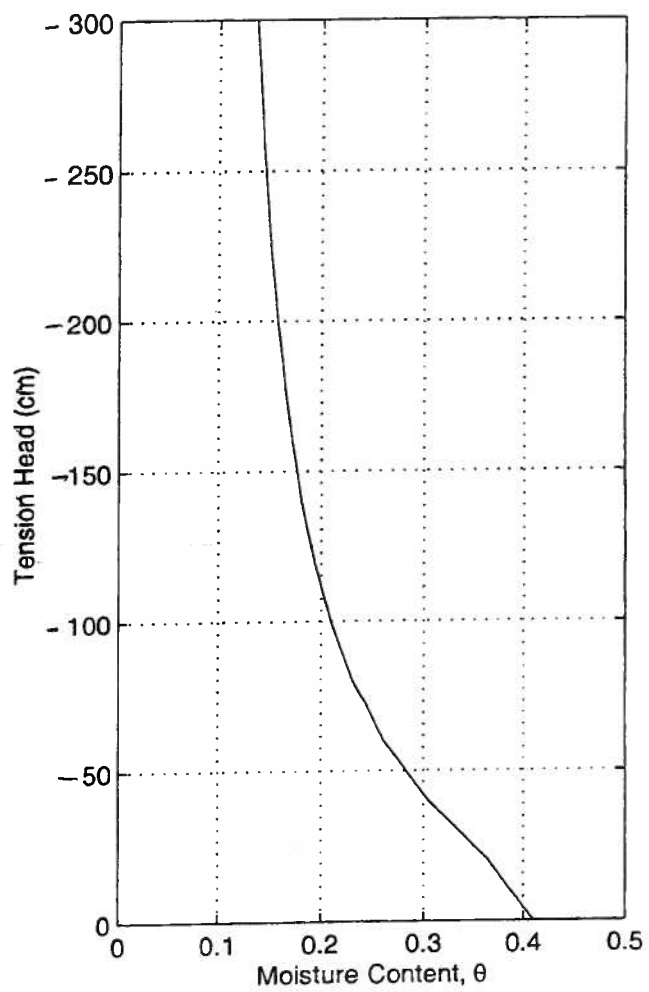
β	$\operatorname{erf}(\beta)$	$\operatorname{erfc}(\beta)$
0	0	1.0
0.05	0.056372	0.943628
0.1	0.112463	0.887537
0.15	0.167996	0.832004
0.2	0.222703	0.777297
0.25	0.276326	0.723674
0.3	0.328627	0.671373
0.35	0.379382	0.620618
0.4	0.428392	0.571608
0.45	0.475482	0.524518
0.5	0.520500	0.479500
0.55	0.563323	0.436677
0.6	0.603856	0.396144
0.65	0.642029	0.357971
0.7	0.677801	0.322199
0.75	0.711156	0.288844
0.8	0.742101	0.257899
0.85	0.770668	0.229332
0.9	0.796908	0.203092
0.95	0.820891	0.179109
1.0	0.842701	0.157299
1.1	0.880205	0.119795
1.2	0.910314	0.089686
1.3	0.934008	0.065992
1.4	0.952285	0.047715
1.5	0.966105	0.033895
1.6	0.976348	0.023652
1.7	0.983790	0.016210
1.8	0.989091	0.010909
1.9	0.992790	0.007210
2.0	0.995322	0.004678
2.1	0.997021	0.002979
2.2	0.998137	0.001863
2.3	0.998857	0.001143
2.4	0.999311	0.000689
2.5	0.999593	0.000407
2.6	0.999764	0.000236
2.7	0.999866	0.000134
2.8	0.999925	0.000075
2.9	0.999959	0.000041
3.0	0.999978	0.000022

ADE solutions from a continuous source at $x=0$

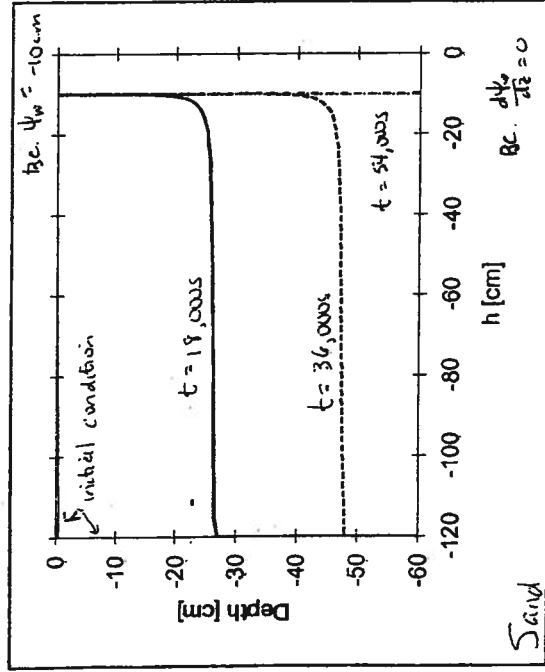




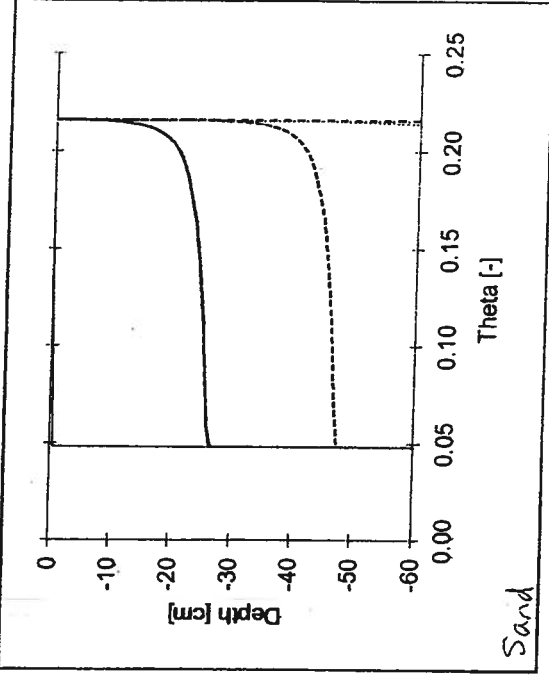
Soil	n	K (m/d)	θ_r	α (1/m)	β
Sand	0.43	7.1	0.045	14.5	2.68
Silt	0.46	0.06	0.034	1.6	1.37
Clay	0.38	0.048	0.068	0.8	1.09
Sl.cl.	0.36	0.0048	0.07	0.5	1.09



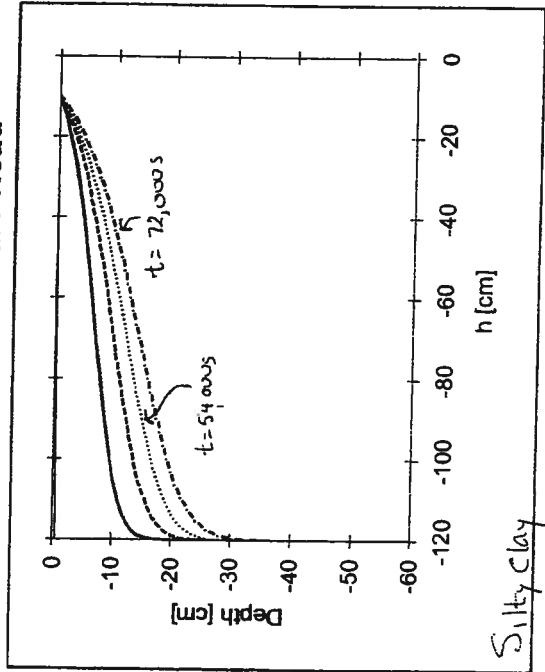
Profile Information: Pressure Head



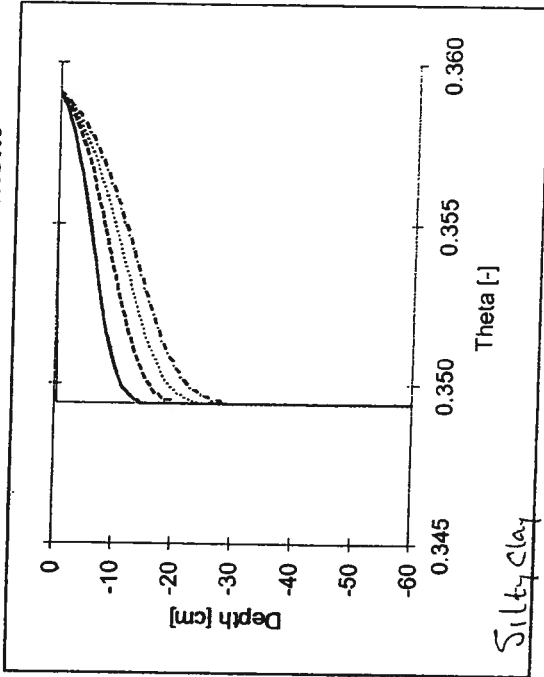
Profile Information: Water Content



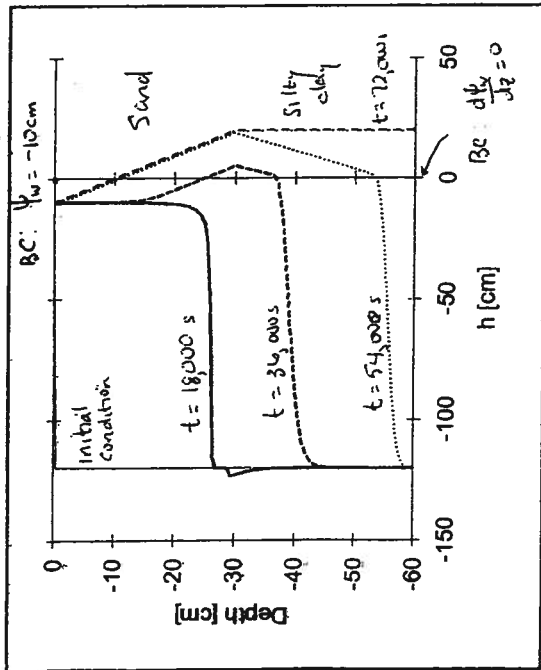
Profile Information: Pressure Head



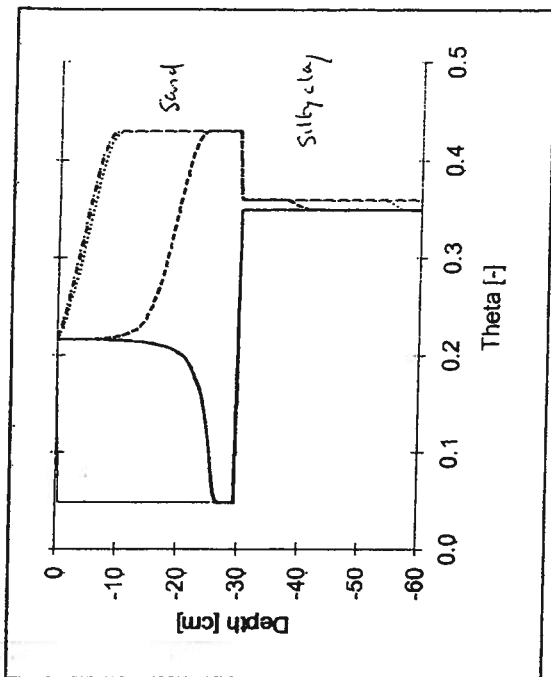
Profile Information: Water Content



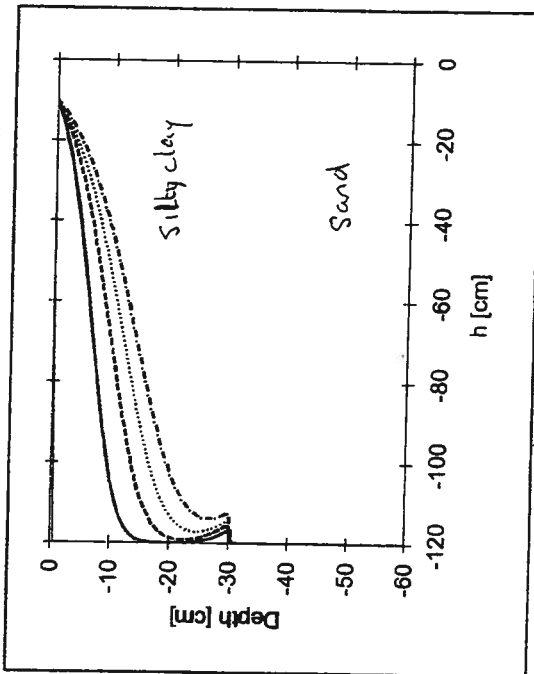
Profile Information: Pressure Head



Profile Information: Water Content



Profile Information: Pressure Head



Profile Information: Water Content

