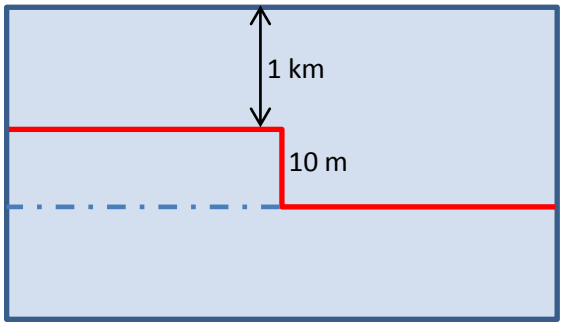
Throw	10
FW top depth	1000
Surface porosity	0.63
Compaction coeff.	0.51
Mid throw depth	1005
FW av. porosity	0.38
FW dc throw	16.83
Displacement loss	6.83
Displacement loss %	40.58



A marker s
located at
compaction

Assume

1) The sha

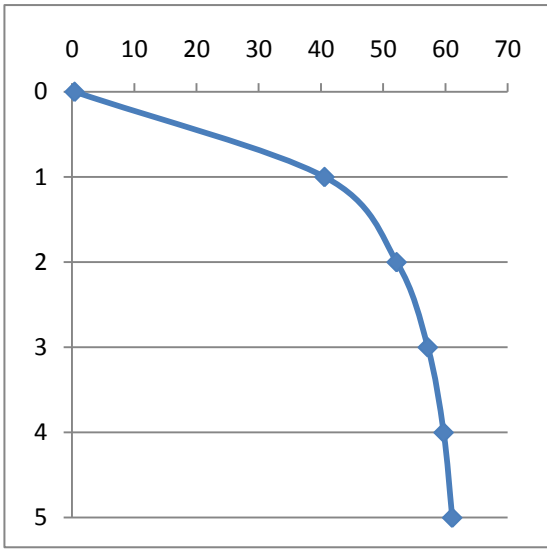
2) Once fa

3) Sequen
parame

4) Entire c
surface

Shale	0.63	0.51
Sand	0.49	0.27
1:1 sand shale	0.56	0.39

Depth	Loss %
0	0.43
1	40.58
2	52.16
3	57.17
4	59.71
5	61.09



1:1 sand shale	Hor 0	Hor 1	Hor 2	Hor 3	Hor 4	Hor 5
Depth at FW	0	1000	2000	3000	4000	5000
Throw	10	10	10	10	10	10
Initial porosity at FW	0.56	0.38	0.26	0.17	0.12	0.08
Cmpcted throw at 5 kn	4.78	6.75	8.08	8.98	9.59	10.00
Disp. Loss	5.22	3.25	1.92	1.02	0.41	0.00
%	52.19	32.54	19.24	10.23	4.13	0.00

Shale unit surface	100	40

Porosity/C	0.63		0.51
Porosity/C at 1 km	0.38		
Shale unit at 1 km	59.52		23.81
L0 (half)	49.40	mm	
Lf (half)	55.09	mm	
Stretch	1.12		

hale layer in the foot wall of a fault with a throw of 10 m is a depth of 1 km. Find the displacement loss due to n.

ale unit got faulted before compaction

aulted, the HW and FW cannot move further

nces lower than the shale unit have the same compaction eters

decompacted thickness to have the same porosity as the