LONGFELLOW DRILLING, INC.
RR 1, BOX 123 CLEARFIELD, IOWA 50840
(515) 336-2297

Earlham, Iowa Well No. 5
Drill Log 9-25-86

Sample No.	Depth From	Depth To	Thickness	Description of Beds
1	0'	8'	8'	Fill
2	8'	13'	5'	Top Soil
3	13'	18'	5'	Sand and Silt
4	19'	20'	1'	Silt
5	20'	23'	3'	Sand
6	23'	28'	5'	Sand, Large Sand and Gravel, 1"-2"
7	28'	33'	5'	Sand, Large Sand and Gravel with Coal, 1"-2", 6" of Rock @ 29' 3"
8	33'	38'	5'	Sand, Large Sand and Gravel, 1"-2"
9	38'	38' 8"	8"	Sand, Large Sand and Gravel, 3/8" to 2"
10	38' 8"	41' 2"	2' 6"	Clay

Pump. level @ 24'

Spec. Yield = 125 ÷ 5.5 = 22.7 gpm/ft drawdown

Btm Bbl = 38.67
Static Water = 18.5
Sat. Depth = 20.17
Drawdown = 5.5
14.67

% Max drawdown = 27
% Max yield = 46%
@85%

Max drawdown & Top of screen = 12.17/20.17 = 60%

Max yield = .7 x 22.7 x 12.17 = 193 gpm

Static head = (1119 - 886) + 25
= 233 + 25
= 258

Friction loss = 36.5 in pipe
" " (well) = 3.0
297.5

Use 150 GPM @ 305' TDH - Well # 5 (305' used is O.K.)