

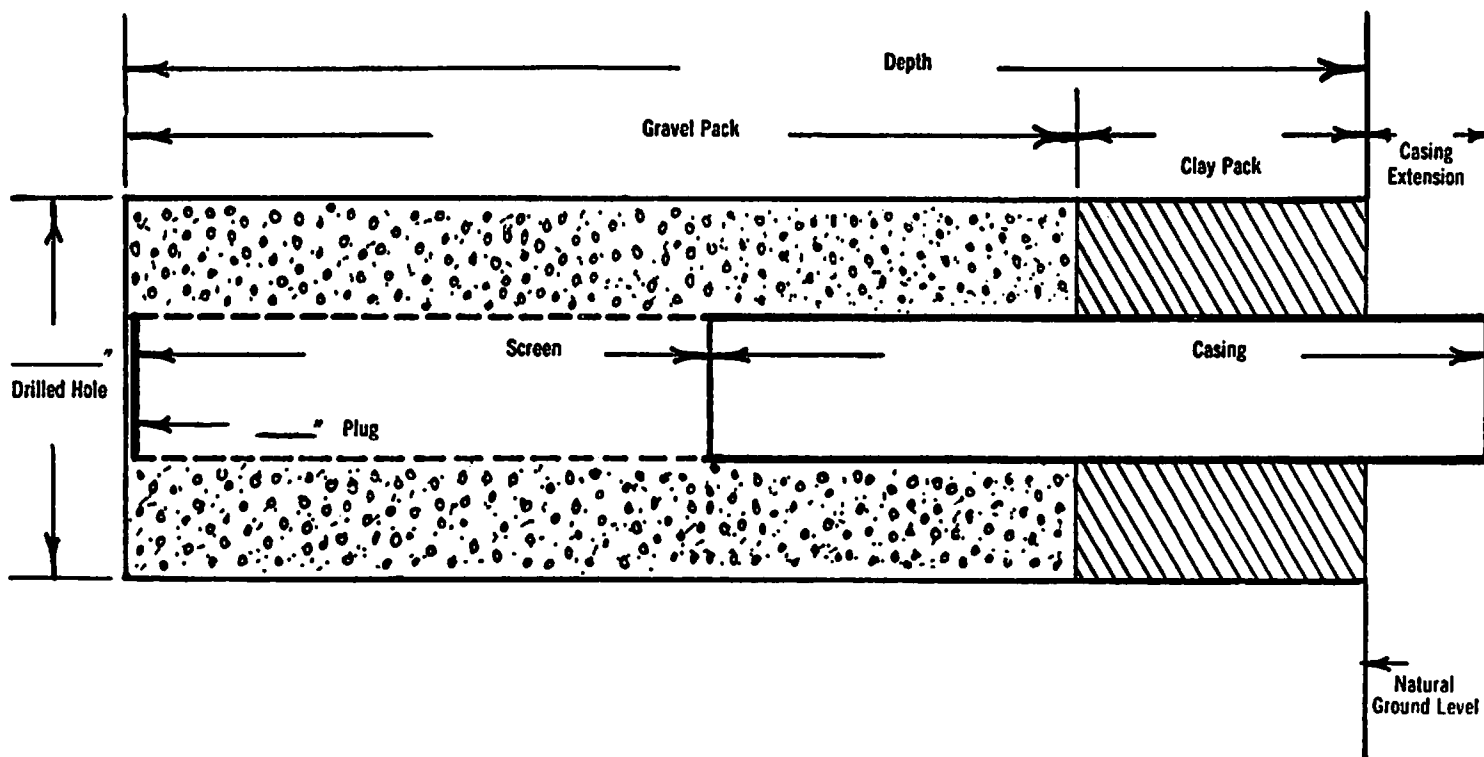
[illegible]

CONTRACT Iowa City Jordan Well

Well No. 1

Log of well from ground level:

Feet	Feet	Formation
615	to 685	Gray-Brown Dolomite
685	to 770	Gray Dolomite, Traces of Green Shale
770	to 820	Light and DARK Gray Dolomite
820	to 830	Brown and Gray Dolomite
830	to 900	Gray Limestone, Shale Streaks
900	to 945	Gray Dolomite
945	to 965	Shale
965	to 975	Shale, Sandstone
975	to 995	Sandstone
995	to 1005	Sandstone, shale, Dolomite
1005	to 1030	Dolomite
1030	to 1050	Dolomite, Traces of Shale
1056	to 1110	Light Gray Dolomite, Traces of Sandstone
1110	to 1115	Light Gray Dolomite, Sandstone Streaks
1115	to 1120	Light Gray Limestone
1120	to 1125	Light Gray Dolomite, Traces of Chert

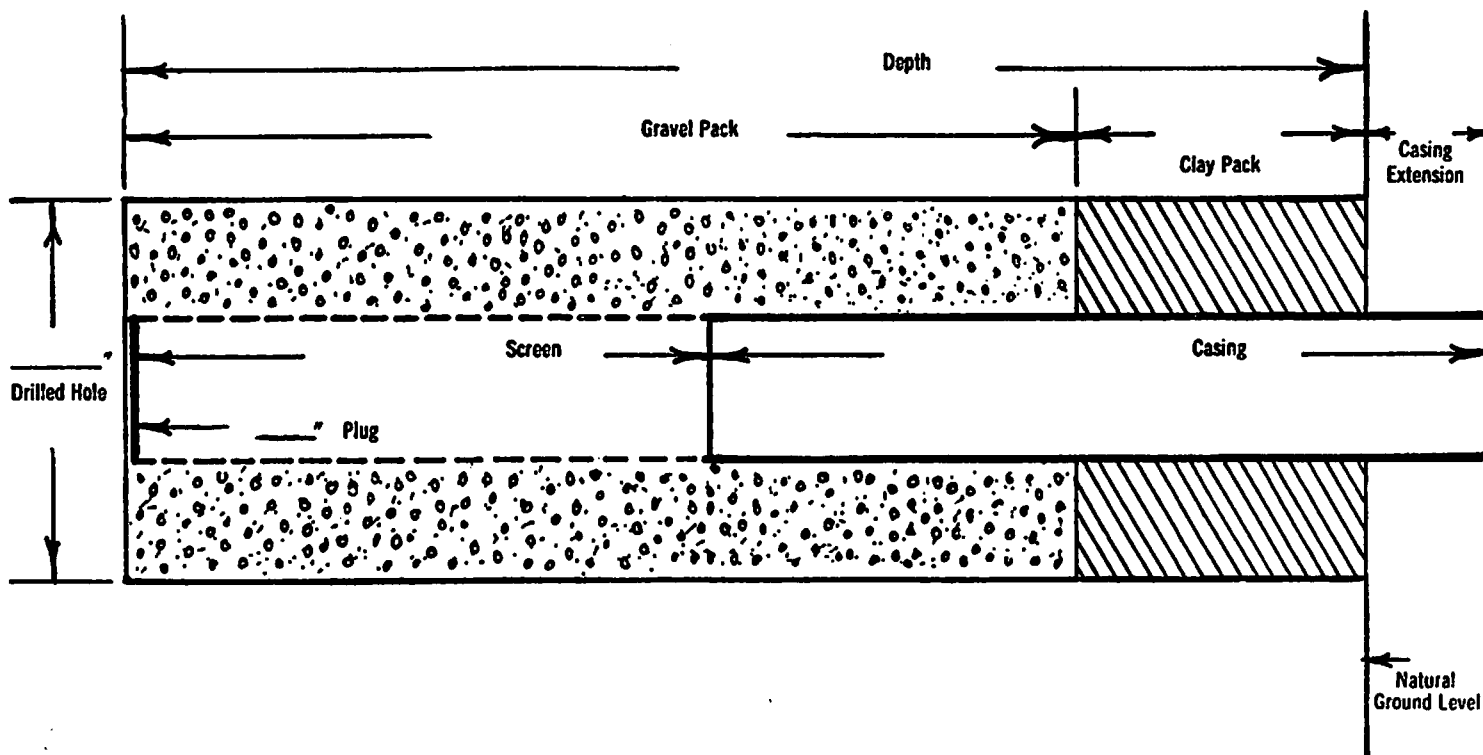


CONTRACT Iowa City Jordan Well

Well No. 1

Log of well from ground level:

Feet	Feet	Formation
0	to 15	Sand, Gravel
15	to 58	Clay - Till
58	to 80	Gray limestone, shale
80	to 105	Limestone - Chert
105	to 115	Gray shale
115	to 120	Limestone, chert, shale
120	to 135	Brown Dolomite, chert
135	to 140	Black shale
140	to 160	Light Brown Sandy Dolomite
160	to 185	Gray Dolomite, Traces of shale
185	to 270	Gray Dolomite, Traces Shale, chert, Gypsum
270	to 295	Gray Dolomite
295	to 335	Gray Dolomite, Traces of Shale - Chert
335	to 390	Gray Limestone
390	to 415	Light Gray Limestone, Traces of sandstone
415	to 615	Shale, Limestone Streaks

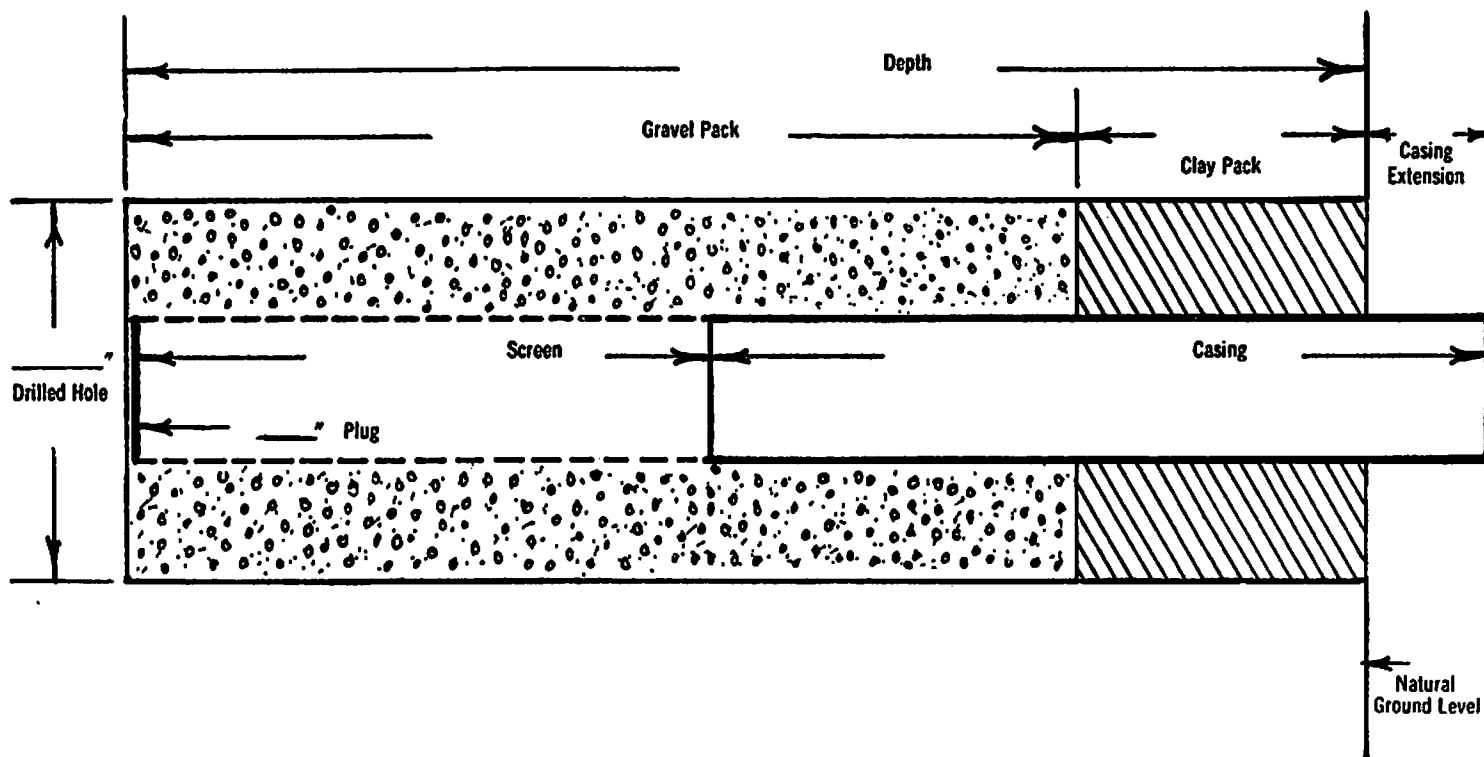


CONTRACT Iowa City Jordan Well

Well No. 1

Log of well from ground level:

Feet	Feet	Formation
1125	to 1130	Light Gray Dolomite, Traces of Chert
1130	to 1150	Light Gray Dolomite, Traces of chert
1150	to 11810	Light Gray Dolomite, Traces of chert, Green Shale
1210	to 1245	Light Gray Dolomite, Traces of chert
1245	to 1250	Light Gray Dolomite, Traces of Sandstone
1250	to 1255	Light Gray Dolomite, Traces of Shale
1255	to 1260	Light Gray Dolomite, White Sandstone
1260	to 1300	Sandy Dolomite
1300	to 1305	Light brown Dolomite, Traces of chert
1305	to 1310	Sandy Dolomite
1310	to 1350	Light Gray Sandy Dolomite
1350	to 1360	Light Gray Sandy Dolomite, DARK Gray Dolo.
1360	to 1385	Light Gray Sandy Dolomite, Traces of Green Shale
1385	to 1405	Light Gray Sandy Dolomite
1405	to 1410	Light Gray Sandy Dolomite, White Sandstone
1410	to 1430	Sandstone

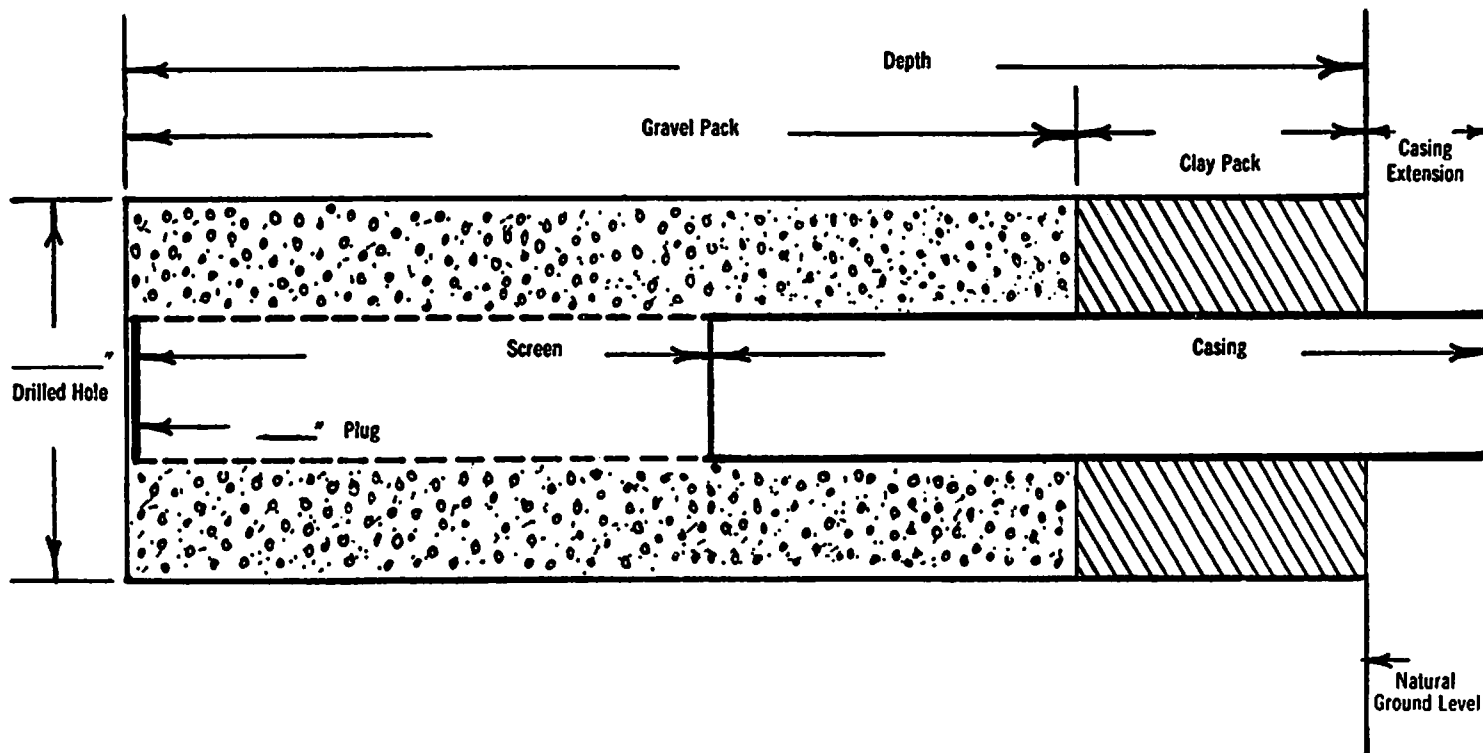


CONTRACT Iowa City Jordan Well

Well No. 1

Log of well from ground level:

Feet	Feet	Formation
1430	to 1445	Light Gray Sandy Dolomite, Green Shale
1445	to 1460	Hard Gray Dolomite + Sand Stone, Chert
1460	to 1510	Hard Sandstone, Chert
1510	to 1580	Hard Sandstone, Trace of Green Shale
1580	to 1585	Sandstone
1585	to 1590	Light Brown Dolomite
1590	to 1596	Light Brown Dolomite
	to	
	to	
	to	
	to	
	to	
	to	
	to	
	to	
	to	
	to	



STATE OF IOWA
IOWA GEOLOGICAL SURVEY
123 NORTH CAPITOL STREET
IOWA CITY, IOWA 52242
Phone: (319) 338-1173

MEMORANDUM

To: _____

Date: 4-37-000

From: B. Witke

Re: 3-28-96

Iowa City Jordan Well
all samples pulverized
poor samples

- 1500-05 Dol; ^{#1/4"bm} 10% gr silt
05-10 Dol, cm pyrite; gr silt
10-15 Dol 20% silt
15-20 Dol 5-10% silt
20-25 Dol 20% silt
-30 Dol; 20% silt v f sd
-35 Dol; 30% silt v f sd
-40 Dol; 30-40% silt v f sd
-45 Dol; 80% silt v f sd
-50 Dol; 60% silt v f sd
-55 Dol; 40% silt v f (f) sd
-60 Dol; 20% silt v f sd
-65 Dol; 60% silt v f f sd
-70 Dol; 30% silt v f f sd; tr ch
Jordan-75 Dol; 10-20% silt v f sd
1500-85 -80 Dol; 10-20% silt v f f sd; tr ch
St Lou -85 Dol, ^{#1/4"bm} v f; 5-10% silt (tr v f sd)
-90 Dol, ^{#1/4"bm} (tr 1/4"bm); tr silt; tr sh (gr)
-95 Dol; aa; tr silt-v f sd

#87000

New Ic Jordan
Current TD
1450'

~1410

3/26/96
BSB

wet sample examination by BSB.

Jordan should be 150-175 ft thick here.

∴ Top St. Lawrence estimated
to be ~ 1625.

~1430

~~1408~~
Jordan

1390-95	Dol, y brn, f; ch ^t , w, S → T
1395-1400	Dol, y. brn, f, w/emb sd grains (f-m); tr wh ch ^t .
1400-05	Dol, y brn, f.; ch ^t , wh, S, sli, T
05-10	Dol, aa; Ss, f-m, pt cemented. (1408 per drill log)
10-15	Ss, as
15-20	Ss, wh, f-m, free
20-25	Ss, lt yel brn, free.
25-30	aa.
30-35	Dol, lt y brn → lt gr, f, sdy, glauc.; Ss, m → c, cemented trace gr grn sh; ch ^t , wh, sdy, T.
35-40	Dol, y brn, f, sli sdy; ch ^t , wh, tr sb, S → T
40-45	aa.
45-50	aa, w/trace Ss.

Iowa City Jordan well

B53 - casing point strat calls

3/11/96 IC.

SP

960-965 Ss, f-m, w/lt gr clay (sh), minor cavings from Glwd & Atul

965-70 aa

70-75 Ss, v.f, v clayey w/cavings.

Good

75-80 Ss, f-m, less clay w/caving

SS.

80-85 Ss, aa, clayey, less cavings

85-90 Ss, aa, clayey

90-95 aa

95-1000 aa, st cemented.

1000-05 v.f Ss, v. clayey

Pdc

1005-10 aa; ~1008 Dol, py brn

10-15 Dol, pyel brn → dk pyel brn, v.f.

15-20

20-25

25-30

30-35 Dol, py brn, v.f; ch + wh → pyel brn, S

35-40

40-45

45-50

50-55 Dol, aa, φ, sdy

W