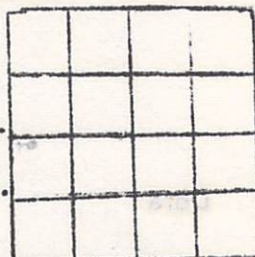


IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey
RECORD OF WELL

Location:

Town: Morning Sun City (NE) County Louisia
(SW) (E)
NE, SE, SE, NE sec. 25 T. 73 N., R. 4 (W) Twp.

Well name and number Morning Sun City Well

Owner _____ Address _____

Tenant _____ Address _____

Contractor Winslow Address Maysville, Iowa

Drillers _____

Drilling dates Oct. 12, 1962 - May 30, 1963

Well data:

Altitudes: Drilling curb _____ feet; Land surface _____ feet 755Determined by Altimeter

Topographic position _____

Total depth: Reported 1819' feet; Measured _____ feetDrilling method RotaryHole and casing data 1257' 0.88" CSG. O-1257'

Original depth to water _____ ft. above _____ below _____ Date _____

Source of data _____

Sources of water: Principal

PRAIRIE du CHIEN - JORDAN

Others

ST. LAWRENCE?

PRODUCTION DATA

Date

Static water level

198'

Pumping water level

244'

Yield (g.p.m.)

200

TEMP. Water = 70°

Measuring point

Duration of pumping

Specific capacity

LABORATORY DATA

TL9-945, 946, 947, 948

Well No.

W14419

Sample range

0-1819

No. of samples

364

No. of dupls. and cond.

364?

Washed range

Samples prepared by

Larry Pobst

Date

5/20/63

Logged by

NORTHUP

Date

SEPT. 1963

Correlations by

Date

Book #1

DRILLER'S NOTEBOOK

WELL RECORD

DRILLER.....

ADDRESS.....

.....

OWNER *MORNING SUN IOWA*.....

ADDRESS.....

.....

RETURN TO
IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA

WELL RECORD

N
N
E
E
 Well is located.....miles S and.....miles S from
W
W

MORNING SUN in LOUISA
 (Nearest Town) (County)

in the $\frac{1}{4}$ $\frac{1}{4}$ Sec.....T.....R.....

Owner..... Well No.....

Postoffice address

Contractor L. F. WINSLOW

Address RR 1 WAIKOTT IOWA

Driller

Well begun OCT-12, 19 62,

completed....., 19.....

Rig used—Cable, Rotary, Jet, or.....

Depth of well.....
(Feet)

Size of hole (note total amount of each size).....

Main water supply at.....
(Feet below surface)

Final water head.....
(Feet above or below surface)

Is well pumped?.....

Yield,
(Gallons per minute)

Water level when pumping.....

Position of well.....
(Upland, valley, side hill, etc.)

Sample No.	DEPTH		THICKNESS
	From	To	
1	0	10	10
2	10	20	10
3	20	30	10
4	30	40	
5	40	50	
6	50	60	
7	60	70	
8	70	80	
9	80	85	
10	85	90	
11	90	95	
12	95	100	
13	100	105	
14	105	110	
15	110	115	
16	115	120	
17	120	125	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

CLAY

CLAY

CLAY

CLAY

CLAY

CLAY

CLAY

CLAY

Rock HARD Light Grey

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

"

Sample No.	DEPTH		THICKNESS
	From	To	
18	125	130	
19		135	
20		140	
21		145	
22		150	
23		155	
24		160	
25		165	
26		170	
27		175	
28		180	
29		185	
30		190	
31		195	
32		200	
33		05	
34		10	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

Rock HARD

" "

" "

" "

" "

" "

" "

" "

" "

" "

SHALE BLUE SOFT

" "

" "

" "

" "

" "

" "

Sample No.	DEPTH		THICKNESS
	From	To	
35	210	215	
36		220	
37		225	
38		230	
39		235	
40		240	
41		245	
42		250	
43		255	
44		260	
45		265	
46		270	
47		275	
48		280	
49		285	
50		290	
51		295	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

SHALE Blue SOFT

" " "

" " "

" " "

" " "

" " "

" " "

SHALE Blue SOFT

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

Sample No.	DEPTH		THICKNESS
	From	To	
52	295	300	
53		05	
54		10	
55		15	
56		20	
57		25	
58		30	
59		35	
60		40	
61		45	
62		50	
63		55	
64		60	
65		65	
66		70	
67		75	
68		80	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

Blue Shale Soft

" " "
 " " "
 " " "

Dark Brown shale

" " "
 " " "
 " " "
 " " "
 " " "

DARK BROWN SHALE

" " "
 " " "
 " " "
 " " "
 " " "
 " " "

Sample No.	DEPTH		THICKNESS
	From	To	
69	380	385	
70		90	
71		95	
72		400	
73		05	
74		10	
75		15	
76		20	
77		25	
78		30	
79		35	
80		40	
81		45	
82		50	
83		55	
84		60	
85		65	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

DARK BROWN SHALE

SHALE BLUE SOFT

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

HARD BLUE SHALE (Chipping)

" " "

Sample No.	DEPTH		THICKNESS
	From	To	
86	465	470	
87		75	
88		80	
89		85	
90		90	
91		95	
92		100	
93		05	
94		10	
95		15	
96		20	
97		25	
98		30	
99		35	
100		40	
101		545	
102		550-	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

Hard Blue Slate

" " "

" " "

Rock HARD Grey

Rock HARD Grey

" " "

off colors

"

"

"

"

HARD Rock OFF COLORS

"

"

"

"

"

Book # 2

DRILLER'S NOTEBOOK

WELL RECORD

DRILLER.....

ADDRESS.....

.....

OWNER..... *Murray Linn IOWA*

ADDRESS.....

.....

RETURN TO
IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA

WELL RECORD

N
N
E
E
 Well is located.....miles S and.....miles S from
W
W

MORNING SUN in LOUISIA
 (Nearest Town) (County)

in the $\frac{1}{4}$ $\frac{1}{4}$ Sec. T. R.

Owner Morning Sun Well No.

Postoffice address

Contractor I. H. Winlow

Address Wicket

Driller

Well begun Oct, 12, 19 62;

completed....., 19.....

Rig used—Cable, Rotary, Jet, or.....

Depth of well.....
(Feet)

Size of hole (note total amount of each size).....

Main water supply at.....
(Feet below surface)

Final water head.....
(Feet above or below surface)

Is well pumped?.....

Yield
(Gallons per minute)

Water level when pumping.....

Position of well.....
(Upland, valley, side hill, etc.)

Sample No.	DEPTH		THICKNESS
	From	To	
103	550	555	
104		60	
105		65	
106		70	
107		75	
108		80	
109		85	
110	70	90	
111		95	
112		100	
113		105	
114		1070	
115		1095	
116		11020	
117		1125	
118		12030	
119		1255	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

HARD ROCK OFF COLORS

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "

" " " "

HARD ROCK OFF COLORS

SHALE GREY

" "

" "

" "

SHALE GREY

" "

" "

Sample No.	DEPTH		THICKNESS
	From	To	
120	635	640	
121		45	
122		650	
123		1155	
124		1560	
125		1565	
126		1670	
127		75	
128		80	
129		85	
130		90	
131		95	
132		700	
133		05	
134		10	
135		15	
136		20	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

SHALE GREY

" "

" "

" "

" "

" "

" "

SHALE Grey

" "

" "

" "

" "

" "

" "

" "

" "

" "

Sample No.	DEPTH		THICKNESS
	From	To	
137	720	725	
138		30	
139		35	
140		40	
141		45	
142		750	
143		55	
144		60	
145		65	
146		70	
147		75	
148		80	
149		85	
150		90	
151		95	
152		800	
153		05	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

S shale SOFT Grey

" " "

" " "

" " "

HARD SHALE

" "

" "

" "

" "

" "

" "

" "

" "

" "

" "

HARD SHALE

Dolomite HARD BROWN

Sample No.	DEPTH		THICKNESS
	From	To	
154	805	810	
155		15	
156		20	
157		25	
158		30	
159		35	
160		40	
161		45	
162		850	
163		55	
164		60	
165		65	
166		70	
167		75	
168		80	
169		85	
170		90	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

DOLAMITE HARD BROWN

" " "

" " "

" " "

" " "

" " "

" " "

" " "

DOLAMITE HARD BROWN

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

Sample No.	DEPTH		THICKNESS
	From	To	
171	890	895	
172		900	
173		05	
174		10	
175		15	
176		20	
177		25	
178		30	
179		35	
180		40	
181		45	
182		950	
183		55	
184		60	
185		65	
186		70	
187		75	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

DOLAMITE HARD BROWN

"	"	"
"	"	"
"	"	"
"	"	"
"	"	"
"	"	"

DOLAMITE HARD BROWN

"	"	"
"	"	"
"	"	"
"	"	"

DOLAMITE HARD BROWN

"	"	"
"	"	"
"	"	"
"	"	"
"	"	"

Sample No.	DEPTH		THICKNESS
	From	To	
188	975	980	
189		85	
190		90	
191		95	
192		1000	
193		05	
194		10	
195		15	
196		20	
197		25	
198		30	
199		35	
200		40	
201		45	
202		50	
203		55	
204		60	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

DOLAMITE HARD BROWN

" " "

" " "

" " "

DOLAMITE HARD BROWN

" " "

" " "

" " "

" " "

DOLAMITE HARD BROWN

" " "

" " "

" " "

" " "

DOLAMITE HARD BROWN

" " "

" " "

Book #3

DRILLER'S NOTEBOOK

WELL RECORD

DRILLER.....

ADDRESS.....

.....

OWNER *MORNING SUN, IOWA*.....

ADDRESS.....

.....

**RETURN TO
IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA**

Sample No.	DEPTH		THICKNESS
	From	To	
205	1060	1065	
206	1065	70	
207	1070	75	
208	1075	80	
209	1080	85	
210	1085	90	
211	1090	95	
212	1095	1100	
213	1100	55	
214	1105	10	
215	11010	15	
216	1115	20	
217	1120	25	
218	1125	30	
219	1130	35	
220	1135	40	
221	1140	45	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

DOLAMITE HARD BROWN

" " "

" " "

" " "

" " "

" " "

DECORA PLATTVILLE HARD

" " "

" " "

" " "

" " "

" " "

" " "

" " "

SHALE Blue HARD

" " "

" " "

Sample No.	DEPTH		THICKNESS
	From	To	
222	1145	1150	
223	1150	55	
224	1155	60	
225	1160	65	
226	1165	70	
227	1170	75	
228	1175	80	
229	1180	85	
230	1185	90	
231	1190	95	
232	1195	1200	
233	1200	05	
234	1205	10	
235	1210	15	
236	1215	20	
237	1220	25	
238	1225	30	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

SAND WHITE HARD

" " "

" " "

" " "

" " "

DOLMITE HARD BROWN

" " "

" " "

" " "

" " "

DOLMITE HARD BROWN

" " "

" " "

" " "

" " "

" " "

" " "

Sample No.	DEPTH		THICKNESS
	From	To	
239	1230	1235	
240	1235	1240	
241	1240	1245	
242	1245	1250	
243	1250	1255	
244	1255	1260	
245	1260	1265	
250	1265	1270	
251	1270	1275	
252	1275	1280	
253	1280	1285	
254	1285	1290	
255	1290	1295	
256	1295	1300	
257	1300	1305	
258	1305	1310	
259	1310	1315	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

Dolomite	HARD	BROWN
----------	------	-------

"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
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"	"	"
---	---	---

Sample No.	DEPTH		THICKNESS
	From	To	
260	1315	1320	
261	1320	1325	
262	1325	1330	
263	1330	1335	
264	1335	1340	
265	1340	1345	
266	1345	1350	
267	1350	1355	
268	1355	1360	
269	1360	1365	
270	1365	1370	
271	1370	1375	
272	1375	1380	
273	1380	1385	
274	1385	1390	
275	1390	1395	
276	1395	1400	

Sample No.	DEPTH		THICKNESS
	From	To	
277	1400	1405	
278	1405	1410	
288	1410	1415	
289	1415	1420	
290	1420	1425	
291	1425	1430	
292	1430	1435	
293	1435	1440	
294	1440	1445	
295	1445	1450	
296	1450	1455	
297	1455	1460	
298	1460	1465	
299	1465	1470	
300	1470	1475	
301	1475	1480	
2	1480	1485	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

Hard Grey rock -

" " "

Soft Fluid

Soft Fluid -

Hard Grey Rock

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

Sample No.	DEPTH		THICKNESS
	From	To	
303	1485	1490	
304	1490	1495	
305	1495	1500	
306	1500	1505	
307	1505	1510	
308	1510	1515	
309	1515	1520	
310	1520	1525	
311	1525	1530	
312	1530	1535	
313	1535	1540	
314	1540	1545	
315	1545	1550	
316	1550	1555	
317	1555	1560	
318	1560	1565	
319	1565	1570	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

ll 2 1

ll ll

ll ll

ll ll

ll ll

ll New Bit

ll ll

ll ll

ll ll

ll ll

ll ll

ll ll

ll ll

ll ll

ll ll

FOR FIGURING, CASING TALLY, ETC.

NO	FROM	TO
320	1570	1575
321	1575	1580
322	1580	1585
323	1585	1590
324	1590	1595
325	1595	1600
326	1600	1605
327	1605	1610
328	1610	1615
329	1615	1620
330	1620	1625
331	1625	1630
332	1630	1635
333	1635	1640
334	1640	1645
335	1645	1650
336	1650	1655
337	1655	1660
338	1660	1665
339	1665	1670
	1670	1675
	1675	1680
	1680	1685

FOR FIGURING, CASING TALLY, ETC.

Gray rock -

22 21

22

22 21

22 21

22 21

22 21

22 21

22 21 New Bit #7 Hughts

22 21

22 21

22 21

22 21

22 21

22 21

22 21

22 21

22 21

22 21

22 21

Book 4

DRILLER'S NOTEBOOK

WELL RECORD

DRILLER

Edwin Wilson

ADDRESS

Pike Iowa

OWNER

Morgan

ADDRESS

**RETURN TO
IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA**

WELL RECORD

Well is located.....miles $\begin{matrix} N \\ E \\ W \end{matrix}$ S and.....miles $\begin{matrix} N \\ E \\ W \end{matrix}$ S from

..... in.....
(Nearest Town) (County)

in the $\frac{1}{4}$ $\frac{1}{4}$ Sec..... T..... R.....

Owner *Manning Sam* Well No. *II*

Postoffice address

Contractor *S. Z. Winslow*

Address

Driller

Well begun *Oct 12*....., 19*62*;

completed....., 19.....

Rig used—Cable, Rotary, Jet, or.....

Depth of well.....
(Feet)

Size of hole (note total amount of each size).....

Main water supply at.....
(Feet below surface)

Final water head.....
(Feet above or below surface)

Is well pumped?.....

Yield

(Gallons per minute)

Water level when pumping.....

Position of well.....
(Upland, valley, side hill, etc.)

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

DARK ^{HARD} BROWN + CHEST 25%

Jordan Sand Stone

Now at 1737

DRILLER'S NOTEBOOK

WELL RECORD

DRILLER

ADDRESS

#14419

OWNER

ADDRESS

**RETURN TO
IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA**

WELL RECORD

Well is located.....miles $\begin{matrix} N \\ E \\ W \end{matrix}$ S and.....miles $\begin{matrix} N \\ E \\ W \end{matrix}$ S from

..... in.....
(Nearest Town) (County)

in the $\frac{1}{4}$ $\frac{1}{4}$ Sec..... T..... R.....

Owner *W. W. W. W.* Well No. *11*

Postoffice address

Contractor *L. J. W. W.*

Address *Walcott Iowa*

Driller

Well begun *Oct 12*, 19 *62*;

completed....., 19.....

Rig used—Cable, Rotary, Jet, or.....

Depth of well.....
(Feet)

Size of hole (note total amount of each size).....

Main water supply at.....
(Feet below surface)

Final water head.....
(Feet above or below surface)

Is well pumped?.....

Yield.....
(Gallons per minute)

Water level when pumping.....

Position of well.....
(Upland, valley, side hill, etc.)

Sample No.	DEPTH		THICKNESS
	From	To	
	1735	1740	
	1740	1745	
	1745	1750	
	1750	1754	
	1754	1760	
	1760	1765	
	1765	1770	
	1770	1775	
	1775	1780	
	1780	1785	
	1785	1790	
	1790	1795	
	1795	1800	
	1800	1805	
	1805	1810	
	1810	1815	
	1815	1819	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

Jordan Sandstone

Gray sandy dolomite

Hard Grey Rock

Broken

T.D