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Water Well	Тор	Bottom
drift	0	3
light coarse lime	3	35
light lime, some hard	35	40
lime, some dark gray to brown	40	55
dark coarse lime	55	60
dk coarse lime, showing shaley lime @ 65	60	70
shaley lime dark	70	75
shaley lime & shale breaks	75	95
light lime	95	129
shale, brown	129	140
shale	140	201
brown lime	201	215
lime, charcoal to light gray	215	225
light gray lime	225	405
lime, some darker	405	410
blue lime	410	441
light gray lime	441	465
light gray lime hard	465	535
St Peter sand	535	722
sandy lime	722	727
green & brown shale	727	730
lime & shale	730	735
lime, gray	735	795
lime, gray	795	795

Permit Date: Permit #:

COMPANY Miller, J.P. Co.

FARM Caterpillar Tactor Co.

DATE DRILLED August 1, 1960 NO. 3

ELEVATION 545TM COUNTY NO. 01198

 $\textbf{LOCATION} \hspace{0.3cm} 2456\, {}^{\shortmid} \mathbb{N} \hspace{0.1cm} \texttt{line, 33} \, {}^{\shortmid} \mathbb{E} \hspace{0.1cm} \texttt{line of section}$ 

**LATITUDE** 41.486607 **LONGITUDE** -88.139142

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hard gray lime	795	870
lime, hard gray	870	955
hard light gray lime	955	1190
green shaley lime	1190	1248
brown lime	1248	1275
hard brown lime	1275	1290
hard sandy lime	1290	1320
Galesville sandstone	1320	1405
sand & brown lime	1405	1415
soft sand	1415	1420
medium sand	1420	1440
hard sand	1440	1460
medium to soft sand	1460	1465
soft sand	1465	1490
green shale & green lime	1490	1500
shale & hard lime	1500	1505
green shale & lime	1505	1556
Interpretation by: Albert Glover on 01-DEC-61 no samples	0	5
dolomite, slightly silty slightly glauconitic, buff, finely crystalline, little very fine and medium, slightly porous	5	15
dolomite, slightly silty, cherty, (milky), light gray light buff, fine to medium crystalline	7 to 15	25
dolomite, as above, white to light gray, finely crystalline	25	35

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dolomite, cherty (milky, gray), light gray, brownish-gray, finely crystalline; little siltstone, dolomitic, brownish-gray, brittle	35	45
dolomite, cherty, silty, brownish-gray, fine to very finely crystalline, slight speckled (black); little siltstone, dolomitic, brownish-gray, brittle	45	65
dolomite, silty, brownish-gray to dark gray, very fine crystalline, little fine, slight speckled (black); sha partings, dolomitic, brownish-gray, brittle to weak		80
shale, argillaceous, dolomitic, gray to green, brittle to weak, little tough	80	90
dolomite, slightly glauconitic, white, medium crystalline, slightly porous, pyritic	90	100
dolomite, light buff to light gray, medium crystalline porous, slightly speckled (black)	100	115
dolomite, slightly silty, light buffish-gray, fine to medium crystalline	115	125
dolomite, slightly silty, light gray, fine to medium crystalline; little shale partings, dolomitic, brown, tough to weak	125	135
shale, dolomitic, argillaceous, brown, brittle to weak little dolomite, argillaceous, brown, very finely crystalline, slightly speckled (black)	135	195
<pre>shale, argillaceous, brownish-gray, little light gray, weak; little dolomite, as above</pre>	195	201
dolomite, slightly silty, buff, little grayish-buff, little grayish-buff, medium to finely crystalline	201	215
dolomite, slightly silty, grayish-buff to buff, medium to finely crystalline, slightly porous, slightly speckled (black)	215	255
dolomite, slightly silty, buff to grayish-buff, medium to finely crystalline, slightly porous	255	285
dolomite, as above, little gray, medium crystalline	285	315
dolomite, slightly silty, buff, medium crystalline, slightly porous	315	350

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## $_{\mathtt{Page}}$ $_{4}$ ILLINOIS STATE GEOLOGICAL SURVEY

dolomite, as above, little gray, slightly speckled (black)	350	385
dolomite, slightly silty, buff to grayish-buff, fine medium crystalline, slightly porous	to 385	405
limestone, dolomitic, buff, to light buff, fine to ve finely crystalline, little medium	ry 405	410
limestone, dolomitic, slightly silty, buff, little grand brown, finely crystalline, trace speckled	ay 410	425
dolomite, carbonaceous, slightly silty, gray, little grayish-buff, fine to very finely crystalline, slight mottled	425	441
dolomite, buff, fine to very finely crystalline	441	465
dolomite, light gray, little light buff, fine to very finely crystalline, slightly porous	r 465	495
dolomite, buff to grayish-buff, very fine to finely crystalline	495	515
dolomite, slightly silty, light gray to gray, little grayish-buff, very fine to finely crystalline	515	530
dolomite, sandy, light buff to gray, finely crystall:	ne 530	535
sandstone, white, fine to medium grained, little coarsubrounded to subangular, incoherent	se, 535	570
sandstone, as above, fine to coarse grained	570	610
sandstone, white, fine to medium grained, little very fine, subrounded to subangular, incoherent	r 610	645
sandstone, as above, fine to very fine grained, littimedium $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1$	le 645	665
sandstone, as above, fine to medium grained, little $\overline{\ }$ fine	ery 665	695
sandstone, as above, fine to very fine grained, litt $\ensuremath{medium}$	le 695	705
sandstone, as above, fine to medium grained, little $\boldsymbol{\tau}$ fine	ery 705	720
sandstone, as above, very cherty (oolotic, white to		

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yellow)	720	727
shale, cherty, slightly sandy, red, green, light gray, plastic	727	733
dolomite, partly sandy, slightly silty, brownish-buff tlight buff, medium to finely crystalline	733	740
dolomite, slightly silty, brownish-buff, fine to medium crystalline	n 740	745
dolomite, light buff to buff, fine to medium crystalling	ne 745	760
dolomite, as above; interbedded with little dolomite, sandy, light buff, finely crystalline	760	775
dolomite, as above, cherty (oolitic); interbedded with dolomite, sandy, light buff, finely crystalline	775	785
dolomite, sandy, cherty, white, brownish-buff, finely crystalline, little medium; shale partings, slight sandy, green, dark brown to gray, brittle to weak	785	790
dolomite, light buff, medium crystalline, little fine; shale partings as above; interbedded with little dolomite, sandy, white, finely crystalline	790	825
dolomite, extremely cherty (oolitic), slightly sandy, white, very finely crystalline	825	835
dolomite, cherty, (oolitic), white to pinkish buff, medium to coarsely crystalline	835	845
dolomite, white, medium to coarsely crystalline	845	855
dolomite, pink, little light pink to white, coarsely crystalline	855	880
dolomite, pink, little light green, coarsely crystalline, little fine	880	885
dolomite, cherty (oolitic), pink to light buff, fine to coarsely crystalline	885	890
dolomite, pink, medium to coarsely crystalline	890	905
dolomite, as above, very cherty (oolitic), fine to medium crystalline	905	925

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dolomite, buff, fine to very finely crystalline, little medium	e 925	950
dolomite, slightly sandy, pinkish-buff, little grayish- buff, fine to medium crystalline	- 950	995
dolomite, light buff to white, very finely crystalline to lithographic, little fine to medium	995	1055
dolomite, as above, fine to very finely crystalline, geodic quartz	1055	1080
dolomite, light buff, little buff to brownish-buff, verifinely crystalline to lithographic, geodic quartz	ry 1080	1110
dolomite, buff to pinkish-buff, fine to very finely crystalline, geodic quartz	1110	1150
dolomite, as above; interbedded with little dolomite, sandy, white, finely crystalline	1150	1170
dolomite, reddish-buff, fine to very finely crystalling geodic quartz	e, 1170	1175
dolomite, slightly sandy to very sandy at bottom, glauconitic, pinkish-buff, light gray, finely crystalline, little medium	1175	1190
<pre>sandstone, glauconitic, white, fine to medium grained, subangular, incoherent; interbedded with little dolomite, very sandy, glauconitic, pinkish-buff, fine medium crystalline</pre>	1190 to	1197
dolomite, very sandy, very glauconitic, light pinkish- buff, little light gray to dark gray, fine to medium crystalline	1197	1215
dolomite, very sandy, very glauconitic, gray to light gray, finely crystalline; interbedded with sandstone, glauconitic, white, fine grained, subangular, incoherent	1215 nt	1235
dolomite, as above, little buff, finely crystalline	1235	1240
dolomite, glauconitic, buff, coarsly crystalline, littemedium	le 1240	1245
dolomite, slightly glauconitic, buff, finely crystalline, little medium	1245	1285

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dolomite, as above, little medium crystalline; interbedded with dolomite, slightly sandy, slightly glauconitic, buff, fine to medium crystalline	1285	1290
dolomite, slightly glauconitic, slightly sandy (medium), buff to light gray, fine to medium crystalline; little sandstone, glauconitic, white, medium, little fine and coarse, incoherent	1290	1295
sandstone, slightly glauconitic, light gray, fine to medium grained, little coarse, incoherent, grading to dolomite, very sandy, buff to light buff, fine to medium crystalline	1295	1305
sandstone, as above, grading to dolomite, slightly silty, light buff to buff, medium to finely crystalline	1305	1310
sandstone, white, medium to coarse, little fine and very coarse, incoherent, grading to dolomite, sandy, light buff, to light gray, finely crystalline	1310	1320
<pre>sandstone, light gray, fine to medium, little coarse, incoherent; little dolomite, very sandy, light buff, finely crystalline</pre>	1320	1325
sandstone, silty, light gray, medium, little coarse and fine, incoherent; dolomite, sandy to slightly sandy, light buff to light brown, finely crystalline	1325	1330
<pre>sandstone, light gray, fine to medium, little coarse, incoherent; little dolomite, sandy, light brown to light buff, finely crystalline, oolitic</pre>	1330	1340
sandstone, white, medium to fine, little coarse to very coarse, incoherent; little dolomite, very sandy, light buff	1340	1345
<pre>sandstone, silty, light gray, fine to medium, little coarse and very fine, incoherent; little dolomite, slightly sandy, light buff finely crystalline</pre>	1345	1350
<pre>sandstone, white, medium little fine and coarse, incoherent; dolomite, little buff to buff, very finely crystalline</pre>	1350	1360
sandstone, white, fine to very fine, little medium to coarse, subrounded to subangular, incoherent	1360	1365

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sandstone, white, medium to fine, little very fine and coarse, incoherent; little dolomite, sandy, light buff, very finely crystalline	1365	1370
sandstone, white, fine to very fine, little medium and coarse, incoherent; little dolomite, sandy, buff to light buff, finely crystalline	1370	1375
sandstone, white, fine to medium, little very fine and coarse, incoherent; little dolomite, sandy, buff, finely crystalline	1375	1380
sandstone, white, fine to very fine, little medium and coarse, incoherent	1380	1390
sandstone, white, fine to coarse, little very fine and very coarse, incoherent	1390	1395
sandstone, white, fine to medium, little very fine and coarse, incoherent	1395	1400
sandstone, white, fine to coarse, little very fine and very coarse, incoherent; little dolomite, sandy, light buff, finely crystalline	1400	1405
dolomite, very sandy, light buff to pinkish-buff, little brownish-buff, finely crystalline, pyritic	1405	1415
<pre>sandstone, white, medium to very fine, little coarse, incoherent; little dolomite, slightly sandy, buff to light buff, very finely crystalline</pre>	1415	1425
sandstone, white, fine to very fine, little medium, incoherent	1425	1435
sandstone, white, medium to very coarse, little fine to very fine, incoherent; little dolomite, yellow to light buff, very finely crystalline	1435	1440
sandstone, white, fine to medium, little very fine and coarse, incoherent; little dolomite, yellow to yellowish-buff, very finely crystalline	1440	1445
sandstone, white, fine to very fine, little medium, incoherent	1445	1455
sandstone, white, fine to medium, little coarse and very fine, incoherent; little dolomite, light buff to yellowish-buff, very finely crystalline	1455	1460

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COUNTY Will API 121970119800 25 - 35N - 9E

sandstone, white, fine, little very fine and medium, incoherent	1460	1470
sandstone, white, medium to fine, little very fine, incoherent; little shale, sandy, buff, weak	1470	1480
sandstone, white, fine to very fine, incoherent	1480	1485
sandstone, white, medium to fine, little very fine ar coarse, incoherent; little dolomite, yellowish-buff tlight buff, little brown, very finely crystalline		1490
dolomite, sandy, argillaceous, brownish-gray, finely crystalline, pyritic	1490	1495
shale, slightly sandy, greenish-gray, brittle to weak grading to siltstone, slightly sandy, greenish-gray; little dolomite, slightly sandy, glauconitic, brownis gray, finely crystalline		1500
dolomite, slightly sandy, glauconitic, brownish gray, finely crystalline; little shale, as above	1500	1505
shale, slightly sandy, greenish-gray, weak; little dolomite, as above	1505	1510
dolomite, slightly sandy, glauconitic, buff, very fir crystalline; little shale, as above, brittle to weak	nely 1510	1520
shale, slightly sandy, greenish-gray, brittle to weak little dolomite, as above	; 1520	1525
dolomite, slightly sandy, glauconitic, buff, very fir crystalline; little shale, as above, tough to weak	nely 1525	1535
shale, slightly sandy, greenish-gray, brittle to weak little dolomite, as above	; 1535	1545
dolomite, slightly sandy, glauconitic, buff, very fir crystalline; little shale, as above	nely 1545	1556
Maquoketa	65	
Galena		
	201	
St Peter	610	
Knox	733	
Franconia	1175	
Ironton	1290	

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Eau Claire		1495	
Total Depth			1556
Casing: 80" from 0' to 7' 20" from 0' to 595' " LINER 160+ from 673' to 841'			
Driller's Log filed Survey Sample Study filed Sample set # 36622 (5' - 1555') Received:	October 11, 1	L960	
Owner Address: ,			
Location source: Platbook verified Verif	ied by: VJA	on July 29	, 2014.

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