

Medina County
Hinckley Township
Lot 69

Smith #1-A
Wiser Oil Company
Permit No. 1143
Sample No. 819
Elevation (KB) 1200 feet

Depth (ft)

- 1870-1890 Shale, medium-gray, very slightly calcareous, very slightly pyritic.
- 1890-1900 Limestone, light to medium-brown; predominantly micrograined to lithographic in appearance with a very few medium- and coarse-grained fossil fragments (crinoids and possibly some coral, other fragments not identifiable); slightly dolomitic (microcrystalline dolomite) in part; siliceous in large part; 95%. Chert, white- and very light-brown; 5%. TOP ONONDAGA LIMESTONE at 1900 feet (GR, Laterolog)
- 1900-1910 Limestone, very light-brown; fine- to coarse-grained fragments (predominantly brachiopod and crinoid fragments) with some microgranular lime; slightly dolomitic (microcrystalline- to very finely crystalline dolomite, crystals up to .07 mm); very slightly siliceous with some small elongate (up to .2 mm long) authogenic quartz crystals. Chert, white; 5%.
- 1910-1920 Limestone, light-grayish-brown, predominantly micrograined, dolomitic (predominantly microcrystalline dolomite but a few crystals up to .08 mm), very slightly siliceous; a few medium- and coarse-grained fossil fragments (crinoids and possibly brachiopods); the fossil fragments are generally lighter in color than the surrounding lime.
- 1920-1930 Limestone as above, 90%. Chert, white- and very light-gray; 10%.

- 1930-1940 Limestone as above, very light and light-brown- and grayish-brown; predominantly micrograined in appearance (very small cuttings); possibly some coral fragments with the other fossil fragments. Chert as above, trace.
- 1940-1950 Limestone as above; small size of cuttings makes it difficult to determine size and types of fossil fragments. Chert as above, trace.
- 1950-1960 Limestone as above, light to medium-grayish-brown, very dolomitic (most crystals .05 - .09 mm), slightly siliceous. Chert as above, slight trace.
- 1960-1970 Limestone as above, very light-brown- and grayish-brown; very few fossil fragments visible, but some of those fragments may be corals; small amount quartz void filling.
- 1970-2010 Sample composed mainly of dark-brown- and light-greenish-gray shale cavings.
- 2010-2020 Small dirty cuttings, mostly drillers mud. Limestone, white, light-brown- and very light-brownish-gray to light-brownish-gray; some medium-grained (and larger?) fossil fragments (some corals or bryzoans, brachiopods, and possibly crinoids) with some micrograined limestone; slightly dolomitic (very finely crystalline dolomite); slightly siliceous; 95%. Chert, white- and very light-gray; 5%.
- 2020-2030 Limestone as above, white- and very light-brownish-gray; more dolomitic than above; fossil fragments more difficult to identify. Chert as above, trace.
- 2030-2040 Limestone, white- and very light-brown, very slightly dolomitic;

- microcrystalline to lithographic, but could be ground up and recrystallized fossil material; some coral fragments discernible; 85%. Limestone, medium to dark-brown, very slightly dolomitic; predominantly micrograined with some medium-grained (and possibly larger) lighter colored lime fragments (probably fossils); some siliceous (and carbonaceous?) residue upon dissolving in warm dilute HCl; 15%. Chert, white; trace.
- 2040-2060 Limestone, white- and very light-brown as above; more fossil material distinguishable, predominantly corals and crinoids; 85%. Limestone, medium to dark-brown as above; possibly containing some corals; 15%. Chert as above, trace.
- 2060-2070 Limestone, white- and very light-grayish-brown, dolomitic; some medium- and coarse-grained (and possibly larger) fossil fragments (crinoids and possibly some corals) with some microgranular lime; white lime material may be recrystallized fossil material; siliceous (and silty?) in part; 80%. Chert, white- and very light-gray; very slightly calcareous and very slightly dolomitic in part; very slightly calcareous and very slightly dolomitic in part; 15%. Limestone, medium to dark-brown as above, 5%.
- 2070-2080 Limestone, white- and very light-grayish-brown as above, 95%. Chert as above, 5%. Limestone, medium to dark-brown as above, trace.
- 2080-2090 Limestone, very light-brown; predominantly microcrystalline to lithographic in appearance with the outlines of some medium- and coarse-grained (or larger) fragments (probably fossil fragments); probably recrystallized fossil material in part; dolomitic in part; a siliceous, silty and sandy (very fine-grained sand) residue in part upon dissolving in warm dilute HCl; 85%. Chert,

- white- and very light-gray; 15%. BOIS BLANC (?) at about 2066 feet (GR, Laterolog)
- 2090-2100 Limestone, very light-gray- and very light-brown; predominantly microcrystalline to lithographic with some larger fragments (fossils?) visible; a few chips may be recrystallized fossil material; the rest are dolomitic, silty, sandy, and siliceous as above; some quartz void filling; 60%. Chert, white- and very light-gray; 40%.
- 2100-2110 Limestone as above, 80%. Chert as above, 20%.
- 2110-2120 Limestone, white- and very light-gray; predominantly microcrystalline to lithographic with a very few medium- and coarse-grained fragments (probably fossils); very dolomitic (very finely crystalline dolomite); silty and sandy (very fine-grained sand) in large part; siliceous in part; 60%. Chert, white- and very light-gray; slightly dolomitic in part; 40%.
- 2120-2130 Limestone as above; a few more fine- and medium-grained fragments (probably fossils); very dolomitic (very fine and finely crystalline dolomite, crystals up to .13 or .14 mm); slightly less silt, sand (very fine and fine-grained sand), and siliceous material than above; 80%. Chert, white- and light-brownish-gray; slightly dolomitic; 20%.
- 2130-2150 Chert, white- and very light-gray, slightly dolomitic; possibly some silt and sand incorporated into the chert; very slightly calcareous in part; 75%. Limestone as above, very light-gray- and light-brownish-gray, very highly dolomitic (predominantly very finely crystalline dolomite), very slightly glauconitic, silty and sandy (very fine-grained sand), siliceous; a very few

- fine- to medium-grained lime (fossil?) fragments; 25%.
- 2150-2160 Dolomite, light-gray- and light-brownish-gray; microcrystalline and very finely crystalline (crystals up to about .07 - .08 mm) in part; slightly calcareous in part; silty, and very sandy (very fine and fine-grained sand) and slightly glauconitic in large part; 80%. Chert, white- and light-brownish-gray; slightly dolomitic in part; 20%.
- 2160-2170 Dolomite as above, very sandy and gradational to a dolomitic sandstone; 90%. Chert as above; some silicified coral or bryzoan fragments visible in some chert cuttings; 10%.
- 2170-2180 Dolomite, very light-brownish-gray, predominantly microcrystalline (crystals .05 mm and smaller); very calcareous with the calcareous material being fine- to very coarse-grained fossil fragments (predominantly coarse-grained or larger fragments) and with brachiopod shell fragments the only type discernible; some lithographic calcareous matter with the dolomite that surrounds the fossil fragments; a very slight siliceous (and silty in part) residue upon dissolving in warm dilute HCl. BASS ISLANDS at 2180 feet (GR, Laterolog)
- 2180-2190 Limestone, very light-gray, very dolomitic (predominantly microcrystalline dolomite, some crystals up to .06 + .07 mm in part); predominantly fine- to medium-grained lime fragments (broken up fossil material?) with some lime mud and very dolomitic lime matrix; very slightly siliceous and slightly sandy (very fine and fine-grained sand with siliceous overgrowths) residue in part upon dissolving in warm dilute HCl. Limestone, light to medium-brown, slightly dolomitic; medium- and coarse-grained fossil

- fragments (predominantly brachiopods) with some dolomitic and lime mud matrix; some siliceous and carbonaceous residue upon dissolving in warm dilute HCl; heavy trace.
- 2190-2200 Dolomite, very light-brown, microcrystalline, very slightly calcareous; the outlines of a few medium- and coarse-grained fragments (probably fossils) visible, some of which are calcareous.
- 2200-2220 Dolomite as above, very light-gray- and very light-brown, very slightly calcareous, very very slight siliceous residue in part upon dissolving in warm dilute HCl.
- 2220-2230 Dolomite, white- and very light-gray, microcrystalline to lithographic, a very few argillaceous stylolites, very slightly siliceous, very slightly calcareous; 75%. Dolomite, very light-brown and light-brown, very slightly calcareous; predominantly microcrystalline but some crystals up to .08 mm; a few fine- and medium-grained lighter colored (white and very light-gray) irregular shaped zones of dolomite that may be dolomitized fossil fragments; a slight siliceous and silty residue upon dissolving in warm dilute HCl; 25%.
- 2230-2240 Dolomite, very light-brownish-gray, very very slightly calcareous; predominantly microcrystalline but very finely crystalline (crystals up to .09 - .10 mm) in small part; several inclusions (void filling?) of clear white crystalline quartz.
- 2240-2250 Dolomite, very light-gray- and very light-brown, microcrystalline; 90%. Quartz, white; broken irregular fragments of crystalline quartz (void filling?); 10%. (Very small cuttings, very small amount of sample.)
- 2250-2270 NO SAMPLES
- 2270-2280 Sample composed mainly of greenish-gray shale cavings. A small amount of light-gray- and brown microcrystalline dolomite with a small amount

of brownish anhydrite in part.

- 2280-2290 Dolomite, very light-brown and light-brown, microcrystalline to lithographic, very slightly calcareous in part; slightly siliceous in part; 95%. Dolomite, light-gray- and light-brownish-gray, microcrystalline to lithographic, very slightly siliceous; a small amount of argillaceous and pyritic material in part; 5%. Sandstone, white, fine- and medium-grained, angular to subangular; some calcareous and siliceous cement; some dark accessory mineralization; slight trace. Many greenish-gray shale cavings.
- 2290-2320 Dolomite, very light-brown and light-brown; a very few argillaceous and pyritic partings. About 10% of the sample made up of light-greenish-gray to medium-gray pyritic shale (cavings?). A very few individual quartz fragments; some appear to be subrounded to round medium- and coarse-grained sand grains; some appear to be crystalline quartz void filling.
- 2320-2330 NO SAMPLES.
- 2330-2340 Anhydrite; medium and dark-brown- and grayish-brown (brown color primarily to presence of dolomite), and white in small part; dolomitic (lithographic brown dolomite). G UNIT at 2310 feet (GR, Laterolog)

BY J. Hermann

5-1976

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6410 - 6420	medium-grained; minor Dolomite, light-gray, light- and dark-grayish-brown, microcrystalline and very finely crystalline, sandy (very fine- and fine-grained sand)	5789.3 - 5790.3	and medium-grained, dolomitic Sandstone, light-brown and gray, fine- and medium-grained, very dolomitic. Dolomite, light- to medium-brown, very finely to medium-sucrosic; poor vuggy porosity (vugs filled with pyrite); patches of light-green shale
6420 - 6430	Dolomite as above, pelletal and oolitic in part	5790.3 - 5794.0	Shale, medium-gray, very dolomitic, sandy (very fine- to coarse-grained sand)
6430 - 6440	Dolomite, light-yellowish-gray and dark-brown, oolitic, pelletal, sandy; grading into poorly sorted fine- and coarse-grained (predominantly fine) sandstone	5794.0 - 5798.0	Sandstone, very light-gray, very fine- and fine-grained, very dolomitic
6440 - 6500	As above. Sandstone, minor	5798.0 - 5799.7	Dolomite, light-grayish-brown, microcrystalline (dolosiltite), slightly sandy (very fine- and fine-grained sand); oil-stained; poor pinpoint porosity; passing laterally into siltstone. Siltstone, very light-gray, sandy (very fine- and fine-grained sand), dolomitic
6500 - 6540	As above. Sandstone, light-yellowish-gray, fine- and medium-grained; minor to trace	5799.7 - 5800.0	Sandstone, very light-gray, very fine-grained, very dolomitic, pyritic; slightly pinkish and brownish in part
6540 - 6560	Sandstone, white, fine- and coarse-grained (predominantly fine and medium); slightly dolomitic in part. MT. SIMON SANDSTONE at 6540 feet	5800.0 - 5800.8	Dolomite, very light- to light-brown, microcrystalline (dolosiltite), very sandy (very fine- and fine-grained sand)
6560 - 6580	Sandstone as above, light brown, coarse grained, one fossiliferous mold (brachiopod)	5800.8 - 5801.1	As in sample from 5798.0 to 5799.7 feet
6580 - 6600	Sandstone as above, white	5801.1 - 5801.6	Sandstone (gradation from dolomite of sample from 5800.0 to 5800.8 feet)
6600 - 6610	Sandstone as above, light gray	5801.6 - 5804.5	Sandstone, light- to medium-brown, fine-grained, very dolomitic to dolomitic, pyritic; some medium-sized sand
6610 - 6640	Sandstone as in sample from 6560 to 6580 feet	5804.5 - 5807.8	Dolomite, very light- to light-brown, microcrystalline (dolosiltite)
6640 - 6650	Sandstone as above. Sandstone, pink. Orthoclase and microcline with biotite, trace	5807.8 - 5808.5	Dolomite as above, sandy (fine- and medium-grained sand), silty in patches
6650 - 6660	As above	5808.5 - 5808.8	Sandstone, light-gray, fine-grained, micaceous (biotite); angular grains
6660 - 6670	As above. Quartz, biotite (quartz-biotite gneiss?) and orthoclase. PRECAMBRIAN at 6662 feet (GRN)	5808.8 - 5809.3	Dolomite, light-gray to very light-brown, microcrystalline (dolosiltite), sandy (fine-grained sand); dark-gray shale lamination
6670 - 6728	Gneiss(?) as above TD samples 6728 feet	5809.3 - 5810.0	Sandstone, very light-brownish-gray, fine-grained, very dolomitic. Dolomite, very light-grayish-brown, microcrystalline (dolosiltite), sandy (very fine- and fine-grained), oil-stained; good pinpoint porosity
Medina County	Wiser Oil Co. #1-A Smith	5810.0 - 5819.5	Dolomite, very light-brown to brownish-gray, microcrystalline (dolosiltite)
Hinckley Township	Estate	5819.5 - 5819.8	Sandstone, light- to medium-brown, fine- and medium-grained, slightly dolomitic (angular grains), oil-stained. Dolomite, light- to medium-brown, microcrystalline (dolosiltite), sandy (fine- and medium-grained sand); grading into sandstone
Lor 69, 4th quarter	Permit No. 1143 Sample No. 819 Elevation (KB) 1200 feet	5819.8 - 5820.7	Sandstone as above, slightly glauconitic
Depth (ft)	Core chips	5820.7 - 5821.2	Sandstone, very light-gray, fine- and medium-grained, dolomitic; some coarse-grained sand; stained with dead oil
5759.0 - 5759.3	Limestone, dark-brown, lithographic; bird's-eye structures and patches of microsucrosic light-brown dolomite	5821.2 - 5822.2	Dolomite, light-brown, microcrystalline (dolosiltite) and very finely crystalline, sandy (fine-grained sand); excellent vuggy porosity (ovoid vugs up to 2 mm across); stained with dead oil
5759.8 - 5760.0	Limestone, medium-grayish-green, argillaceous, slightly pyritic, slightly silty; mottled medium brown; lithographic to calcisiltite	5822.2 - 5823.3	Dolomite, very light-grayish-brown, microcrystalline (dolomitic); poor vuggy porosity. Dolomite, very light-brown, microcrystalline (dolosiltite), sandy to very sandy (fine- and medium-grained sand)
5760.0 - 5760.4	Limestone, dark-brown, lithographic; partings of very argillaceous dark-brown limestone; bird's-eye structures; ostracods	5823.3 - 5833.8	Dolomite as in sample from 5821.2 to 5822.2 feet, fair porosity
5776.0 - 5776.4	Shale, dark-brown	5833.8 - 5834.0	Dolomite, light-brown, microcrystalline (dolomitic and dolosiltite); interbeds of sandy (very fine- and fine-grained sand) and silty dolomite
5776.4 - 5778.3	Limestone, light-brown, micrograined (dolosiltite), silty; crinkly laminations of argillaceous dark-gray limestone	5834.0 - 5834.6	Dolomite, light-brown, microcrystalline (dolomitic and dolosiltite), very sandy (fine- to coarse-grained sand); grading into sand-
5778.3 - 5778.8	Limestone, very light-brown, slightly grayish, lithographic, very slightly argillaceous		
5778.8 - 5778.9	Shale, dark-brownish-gray		
5778.9 - 5779.9	Shale, light- to medium-gray to greenish-gray, dolomitic		
5779.9 - 5780.0	Dolomite, very light-gray, micrograined (dolomitic and dolosiltite), calcareous; blebs of light-green shale		
5780.0 - 5780.5	Shale, dark-brown, very dolomitic		
5780.5 - 5781.1	Limestone, light-brown, micrograined, slightly argillaceous		
5781.1 - 5782.1	Limestone, medium-brown, micrograined to medium-grained, fossiliferous. Shale, dark-gray		
5782.1 - 5787.0	Dolomite, light- to medium-gray to brown, micrograined, argillaceous		
5787.0 - 5789.0	Dolomite, light- to medium-grayish-brown, microcrystalline (dolosiltite) and very finely crystalline, oil-stained; good vuggy porosity. KNOX DOLOMITE at 5787 feet		
5789.0 - 5789.3	Sandstone, very light- and light-gray, fine-		

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5834.6 - 5834.7	stone. KERBEL FORMATION at 5834 feet Dolomite as in sample from 5833.8 to 5834.0 feet	6060 - 6080	crystalline (dolosiltite) to medium-crystalline, sandy (fine- and medium-grained sand) Dolomite as above. Sandstone, very light-brown, medium- and coarse-grained, dolomitic, slightly glauconitic; trace
5834.7 - 5835.7	Dolomite, light- to medium-brown, microcrystalline (dolosiltite), sandy (very fine- to medium-grained sand); very fine and fine grained in part	6080 - 6090	Dolomite, very light- and light-brown, microcrystalline (dolosiltite), sandy (very fine- to coarse-grained sand); grading into sandstone. Sandstone, predominantly fine-grained; heavy trace
5835.7 - 5836.1	Dolomite, very light- to light-grayish-brown, microcrystalline (dolosiltite), sandy to very sandy (fine- and medium-grained sand); poor pinpoint porosity	6090 - 6120	Dolomite as above. Sandstone as above, minor. Both sandstone and dolomite slightly glauconitic from 6100 feet
5836.1 - 5837.7	Dolomite, very light-brown, microcrystalline (dolosiltite), slightly sandy (fine- and medium-grained sand). Dolomite as above, interbedded with very argillaceous medium-brown and medium-greenish-gray dolomite	6120 - 6140	Dolomite, very light- and light-brown, microcrystalline (dolomicrite and dolosiltite), sandy (very fine- to medium-grained sand)
5837.7 - 5843.0	Dolomite, light-brown, microcrystalline (dolosiltite), very sandy (fine- to coarse-grained sand); grading into sandstone	6140 - 6150	Dolomite, light-yellowish-gray to light-brown, very finely and finely crystalline, slightly sandy (very fine-grained sand)
5843.0 - 5843.7	Dolomite as above	6150 - 6160	Dolomite, sandy to very sandy, grading into sandstone. Sandstone, fine- and medium-grained; minor
5843.7 - 5844	Sandstone, very light-brownish-gray to white, very fine- and fine-grained, slightly dolomitic	6160 - 6170	Sandstone and dolomite as above, dolomite minor
5860 - 5862	Sandstone as above, very light brown to brownish gray	6170 - 6220	Dolomite, very light- and light-brown, very finely to medium crystalline, sandy (fine- and medium-grained sand); pinkish in part; coarsely sucrosic in part; trace of pinpoint porosity
5862 - 5863	Sandstone as in sample from 5837.7 to 5843.0 feet, very dolomitic	6220 - 6230	Dolomite, very light- to medium-brown, microcrystalline (dolosiltite), slightly sandy (very fine- and fine-grained sand); fine grained in part
5863 - 5866	Sandstone as above	6230 - 6240	Dolomite as above, pink and red in small part
5866 - 5869	Sandstone, very light-gray, fine- and medium-grained, dolomitic. Sandstone, very light-brown, very fine-grained, dolomitic	6240 - 6260	Dolomite, very light- and light-brown, microcrystalline (dolomicrite and dolosiltite), sandy (very fine- and fine-grained sand); oolitic and pelletal in part (fine- and medium-grained, grain-supported; oolites in part sand centered)
5869 - 5872.8	Sandstone, very light-brown to gray, medium- and coarse-grained, very dolomitic	6260 - 6270	Dolomite, very light- and light-brown, microcrystalline (dolosiltite), sandy (very fine- and fine-grained sand); very fine and fine grained in part; pelletal in part (medium-grained, grain-supported)
5872.8 - 5874.5	Sandstone as above, fine to coarse grained, predominantly medium grained	6270 - 6310	Dolomite, light-yellowish-gray to very light-brown, microcrystalline (dolomicrite and dolosiltite), very slightly sandy (very fine- to medium-grained sand); pelletal in part (very fine- and fine-grained, grain-supported); fine-grained dolarenite in part
5874.5 - 5880.0	Sandstone as above	6310 - 6320	Dolomite as above, pink in part, very finely and finely crystalline in part, sandy, grading into sandstone. Sandstone, fine-grained; heavy trace
5880.0 - 5881.5	Sandstone as above, predominantly fine grained	6320 - 6340	Dolomite as above, microcrystalline (dolomicrite and dolosiltite), very slightly sandy as above
5881.5 - 5887.0	Sandstone as above	6340 - 6350	Dolomite, light-brown, pinkish-brown, and light- and medium-gray, microcrystalline (dolomicrite and dolosiltite), oolitic (medium- and coarse-grained, grain-supported), sandy to very sandy (fine- to coarse-grained sand)
5887.0 - 5887.5	Dolomite, light-brown, microcrystalline (dolosiltite) slightly sandy (fine- and medium-grained sand)	6350 - 6400	Dolomite, light- and medium-brown and gray, microcrystalline (dolomicrite and dolosiltite), pelletal (fine- and medium-grained, grain-supported), sandy (fine- to coarse-grained sand); slightly oolitic as above; laminations of black to dark-gray shale
5887.5 - 5888.0	Dolomite, light-brown, microcrystalline (dolosiltite) and very finely crystalline; fine grained in part; fair pinpoint porosity	6400 - 6410	Dolomite as above. Sandstone, very light-brownish-gray, fine- and medium-grained; heavy trace
5888.0 - 5890.0	Dolomite as above, sandy, grading into medium-grained sandstone <i>Base of core chips</i>	6410 - 6480	Dolomite, light- to dark-gray and brown, microcrystalline (dolosiltite), slightly sandy (fine- to coarse-grained sand). ROME FORMATION at 6022 feet (GRN)
5890.0 - 5920	Sandstone, light-yellowish-gray, fine- and medium-grained, dolomitic		
5920 - 5930	Sandstone, light-gray to very light-brownish-gray, very fine- and fine-grained, siliceous; silty in part. Sandstone as above, minor. Shale, dark-brown, silty; heavy trace. Shale, black and dark-gray; cavings.		
5930 - 5970	CONASAUGA FORMATION at 5920 feet Siltstone, light-gray to medium- and dark-brown and brownish-gray, argillaceous; very slightly glauconitic in part. Shale, dark-brown, silty. Sandstone as above, trace		
5970 - 5990	As above. Dolomite, very light- and light-gray, very finely crystalline, bioclastic(?); heavy trace		
5990 - 6020	Siltstone, light-gray to brownish-gray; argillaceous in small part. Shale, black and dark-gray; cavings		
6020 - 6030	Dolomite, light- to dark-brown, very finely and finely crystalline, slightly silty.		
6030 - 6040	Dolomite as above, very light brown and grayish brown in part. Shale, light-green, micaceous; trace		
6040 - 6060	Dolomite, very light- and light-brown, micro-		

GEOLOGICAL SURVEY OF OHIO
SAMPLE #819

P-1143
OIL AND GAS WELL LOG

State Ohio County Medina Township Hinckley Quadrangle
 Lot 69 Quarter 4th Tract Section NW NE SW
 Measured 821 Feet From West Line And 853 Feet From North Line Of Lot 69
49.18 acres (160 acres)
 Land Owner Frank L. Smith Estate Well No. 1-A Date Started 10/11/58
 Operator Wiser Oil Co. (O.F.G. & E.O.G) Well No. Date Completed 1/3/59
 Elevation Bar. S. L. 1200 K. B. Total Depth 7040 Plugged Back
 Formation Drilled To Granite Producing Form. Trempealeau Init. Prod. Nat. 192 M
 Shot or Acid Record 2000 gal acid Prod. A. S. or Acid 1,200 MAA
 Init. Rock Press. 2100# BHP 2435# Abandoned
 Casing Record 20-99'; 13-480'; 10-3547'; 7-6076'; 3 1/2-5814

Formation	Top	Bottom	Remarks	Formation	Top	Bottom	Remarks
	0	23	soil cover				
	23	70	injun sandstone, gray to brn fine grained subangular quartz				
	70	390	Cuyahoga shale med to dark gray				
	390	460	Berea sandstone light gray, fine grained, quartzose				
	460	490	Bedford shale red				
	490	1893	Ohio shale gray to brown				
	1893	3320	Big Lime-limestone & dolo. gray to brown				
<u>CLINTON GROUP</u>							
	3320	3335	shale gray				
	3335	3344	dolomite, gray to buff, finely crystalline-Casing Shell				
	3344	3385	shale gray				
	3385	3397	dolomite, buff, med crystalline-Packer Sehl				
	3397	3455	shale, gray, interbedded with buff dolo.				
<u>MEDINA GROUP</u> (Clinton Sand)							
	3455	3592	sandstone, white to red, interbedded with gray shale				
	3592	3960	<u>Queenston Shale</u> shale, red				
	3960	5058	shale, gray to very dark gray				
	5058	5743	<u>Trenton & Black River Limestone</u> limestone, buff to brown, very finely crystalline, shale content increases near bottom				
	5743	5890	described from core				
	5743	5747	limestone, dark gray, dense				
	5747	5749	limestone, gray with streaks of shale				
	5749	5750	dolomite, light gray, slightly sucrose				
	5750	5758	limestone, dark gray, dense				
	5758	5764	shale, black, silty, slightly carbonaceous				
(5764-5874 Trempe)	5764	5782	dolomite, light gray, dense				
(5874-5940 Francon)							
	5782	5793	dolomite, gray to brown, sandy				
	5793	5795	dolomite, light gray, dense, sucrose				
	5795	5817	dolomite, light gray, dense, streaks of shale				
	5817	5818	dolomite, light gray, xln.				
	5818	5822 1/2	dolomite, white-light gray, streaks of brown dolomite				
	5822 1/2	5823 1/2	dolomite, light gray, dense, traces of coarse quartz grain				
	5823 1/2	5828	dolomite, light gray, slightly sucrose				
	5828	5832	dolomite, light gray, dense				
	5832	5862	dolomite, light gray slightly sucrose				
	5862	5867	dolomite, white to buff, xln, dense, slightly sucrose				
	5867	5874	dolomite, light gray, dense sln.				
	5874	5890	dolomite, white to buff, xln, dense, clear, quartz grains abundant				
	5890	5910	dolomite, white to buff, xln. dense, clear quartz grains abundant, traces of chalky limestone.				
	5910	5920	dolomite, light gray, xln. with traces of glauconite and chalky limestone				
	5920	5930	dolomite, light gray, xln, with traces of glauconite & pyrite				
	5930	5940	dolomite, gray-dark gray, xln, with traces of glauconite, pyrite and calcite xls, some shaly dolomite				

DIVISION OF GEOLOGICAL SURVEY MAKES NO STATEMENT CONCERNING THE COMPLETENESS OR ACCURACY OF THIS INFORMATION.

GEOLOGICAL SURVEY OF OHIO

1143

OIL AND GAS WELL LOG

SAMPLE #819

State Ohio
 County Medina Township Hinckley Quadrangle _____
 Lot 69 Quarter _____ Tract _____ Section _____ NW _____ NE _____ SW _____
 Measured 821 Feet From West Line And 853 Feet From North Line Of Lot 69
49.18 acres (160 acres)
 Land Owner Frank L. Smith Estate Well No. 1-A Date Started 10/11/58
 Operator Wiser Oil Co. (O.F.G. & E.O.G.) Well No. _____ Date Completed 1/13/59
 Elevation Bar. S. L. 1200 K. B. Total Depth 7040 Plugged Back _____
 Formation Drilled To Granite Producing Form. Trempealeau Init. Prod. Nat. 192 M
 Shot or Acid Record 2000 gallons acid Prod. A. S. or Acid 1,200 MAA
 Init. Rock Press. 2100# BHP 2435# Abandoned _____
 Casing Record 20-99'; 13-480'; 10-3547'; 7-6076'; 3 1/2-5814'

Formation	Top	Bottom	Remarks	Formation	Top	Bottom	Remarks
(5940-6480 Eau Claire)	5940	5950	dolomite, dark gray, shaly				
	5940	5970	dolomite, dark gray with traces of brown xln. dolomite				
	5970	5980	dolomite, brown, xln.				
	5980	5990	dolomite, gray, dense				
	5990	6000	dolomite, light gray with traces of pyrite & glauconite				
	6000	6010	dolomite, gray to dark gray, xln., abundance of glauconite				
	6010	6020	same as above with traces of brown dolomite				
	6020	6030	dolomite, gray to dark gray with traces of pyrite				
	6030	6040	dolomite, light gray to gray, xln., with traces of pyrite and glauconite				
	6040	6050	dolomite, light gray to buff, xln., with traces of pyrite and glauconite				
	6050	6090	same as above with traces of rounded quartz grains & glauconite				
	6090	6110	same, with increase in sand content				
	6110	6140	dolomite, white to pink, xln, traces of quartz grains & glauc.				
	6140	6150	dolomite, white to pink, xln. traces of white sandy dolo.				
	6150	6180	dolomite, white, sandy, (rounded, frosted quartz) traces of calcite				
	6180	6210	same as above with traces of pink to red xln. dense dolo.				
	6210	6230	dolomite, light gray to buff, xln.				
	6230	6250	same as above with traces of white chalky oolitic ls.				
	6250	6310	dolomite, white to light gray, finely xln. traces of calcite xls				
	6310	6330	same as above with traces of pink to red specks & streaks				
	6330	6340	dolomite, pink, finely xln.				
	6340	6350	dolomite, light gray to gray, xln., with some pink dolomite				
	6350	6400	dolomite, gray to dark gray argillaceous, traces of lge. frosted quartz grains				
6400	6440	dolomite, light gray to gray sandy					
6440	6460	same as above with traces of silicious oolites					
6460	6480	dolomite, brown mottled, sandy some calcareous shale, traces of fossils & silicious oolites					
6480	6500	dolomite, light gray to gray, shaly, with coarse, clear & frosted qtz. grains, traces of pyrite.					
6500	6520	same as above with traces of white medium grained, well cemented sandstone.					
6520	6570	sandstone, light gray, med. grained, calcareous					
6570	6580	same as above with traces of clear to pink quartzose with imbedded magnetite					
6580	6640	Quartzose, pink to red, med grained, with imbedded magnetite, biotite & chlorite					
6640	6730	same as above with traces of kaolinite & weathered red feld.					
6730	6750	feldspar, red weathered, some clear, large angular quartz grains, traces of magnetic ilmenite					
6750	6800	arkosic sandstone, with feldspar & coarse grained, clear to pink quartzose, some magnetite, kaolinite & chlorite					
(6930 Mt. Simon)	6800	6930	quartzose, clear to pink, medium to coarse grained, some arkosic sandstone with feldspar, traces of chlorite magnetite				

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GEOLOGICAL SURVEY OF OHIO

OIL AND GAS WELL LOG

SAMPLE #819

State Ohio
 County Medina Township Hinckley Quadrangle
 Lot 69 Quarter 4th Tract NW Section NE SW
 Measured 821 Feet From West Line And 853 Feet From North Line Of Lot 69
49.18 acres (160 acres)
 Land Owner Frank L. Smith Estate Well No. L-A Date Started 10/11/58
 Operator Wiser Oil Co. (OFC & EOG) Well No. Date Completed 1/3/59
 Elevation Bar. S. L. 1200 K. B. Total Depth 7040 Plugged Back
 Formation Drilled To Granite Producing Form. Trempealeau Init. Prod. Nat. 192 M
 Shot or Acid Record 2000 gal acid Prod. A. S. or Acid 1,200 Maa
 Init. Rock Press. 2100# BHP 2435# Abandoned
 Casing Record 20-99; 13-480; 10-3547; 7-6076; 3-5814

Formation	Top	Bottom	Remarks	Formation	Top	Bottom	Remarks
(6930-7040 Grenville)	6930	7028	kaolinite & biotite feldspar, red, weathered, some medium to large clear quartz xls., traces of kaolinite, chlorite, magnetite, & biotite				
	started coring	@ 7028'	Cored 12', recovered 8'. 3' left in bot. of hole.				
	7028	7029	feldspar, red and weathered with traces of chlorite, abundant large angular Qtz. grains.				
	7029	7030 $\frac{1}{2}$	quartzose, clear to pink, large to med, grained, angular, some red weathered feldspar. Traces of chlorite.				
	7030 $\frac{1}{2}$	7032	same as above; less pink				
	7032	7033	quartzose, light gray to light green, traces of chlorite, no red feldspar				
	7033	7033 $\frac{1}{2}$	a dark brown soft mineral (hardness of about 1.3) with a vitreous luster with traces of medium angular quartz grains				
	7033 $\frac{1}{2}$	7034	dolomite, brown, with an abundance of a green micaceous mineral (chlorite)?				
	7034	7034 $\frac{1}{2}$	same as above with less of the green mineral				
	7034 $\frac{1}{2}$	7035 $\frac{1}{2}$	dolomite, white, highly xln. with vugular porosity				
	7035 $\frac{1}{2}$	7035 $\frac{3}{4}$	dolomite, light gray, highly xln. traces of pyrite & chlorite				
	7035 $\frac{3}{4}$	7036 $\frac{1}{2}$	quartzose, light gray to light green, (maybe some Plagioclase)				
	7036 $\frac{1}{2}$	7037	Feldspar (Plagioclase?) & quartz. Traces of talc				
		7040	TD Lost 3' of core in bottom of hole				
	Rock Pressure:	2080#					
		2435	bottom hole pressure				
	192 M @	5775-90					
	1500'	salt water	3804-40				
	2500'	salt water & 135'	of oil cut mud @ 5856-65 & 5875-84				

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 AND ACCURACY OF THIS INFORMATION.

AMERADA

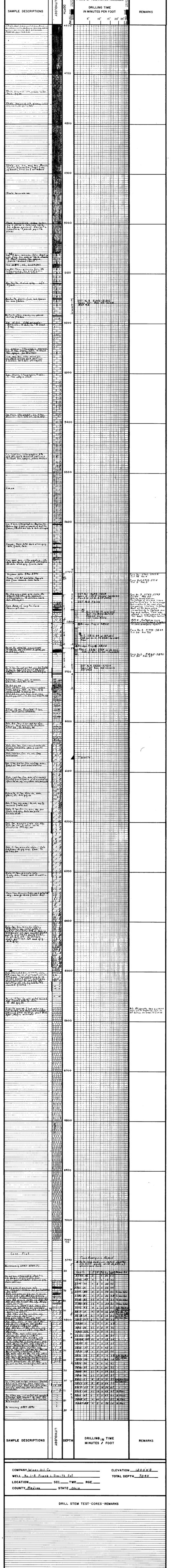
DRILLING TIME
COLUMBUS DISTRICT
OHIO STATE SURVEY

Company: Wiser Oil Co.
 Well: No. 1-A Frank L. Smith Est.
 Field: Wildcat
 County: Medina State: Ohio
 Location: Shankley Twp.
 Section: _____ Township: _____ Range: _____
 Conductor: Delta Drilling Co.
 Commenced: 10/15/28 Completed: 11/2/28
 Rotary Tool Depth: 7021.4 Feet
 Mud up at: 5:22 P.M.
 Type Mud: Slit Base

Drilling Time kept from _____ Feet to _____ Feet
 Samples Examined & Described from 4600 Feet to 7020 Feet

Geological Supervision from _____ Feet to _____ Feet

COMPLETION
 I, P. J. Leach
 Form: 12-28-28
 Date: 12/28/28
 By: Leach



COMPANY Wiser Oil Co. ELEVATION 1200.8
 WELL No. 1-A Frank L. Smith Est. TOTAL DEPTH 7020
 LOCATION _____ SEC. _____ TWP. _____ RGE. _____
 COUNTY Medina STATE Ohio

DRILL STEM TEST CORES - REMARKS