

County . . . RUSH
T . . . 12 N R 9 E
Sec SW 8
Other Survey

Quarry or Pit . . . X Core Dim Other
Name . . . Milroy Quarry
Former Names
.
Operator . . . McCorkle Stone Company
Former Operators

COAL AND INDUSTRIAL MINERALS SECTION
INDIANA GEOLOGICAL SURVEY
DEPARTMENT OF NATURAL RESOURCES
611 NORTH WALNUT GROVE
BLOOMINGTON, INDIANA 47401

MEMORANDUM REPORTS BY:	
Name	Date
1 . . . J. B. Patton	July 15, 1947
2 . . . D. J. McGregor	July 28, 1953
3 . . . R. R. French	Aug. 19, 1963
4 . . . R. R. French	May 6, 1963
5 . . . C. H. Ault	May 8, 1970
6
7
8
9
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REMARKS
Chemical analyses

McCorkle Stone Company Quarry West of Milroy, Rush County

Date of field examination- July 15, 1947

Location.—The McCorkle Stone Company quarry is 4 miles west of Milroy and on the south side of Indiana Highway 224 just west of the bridge across the Flat Rock River. It is in the northwest quarter of the northwest quarter of sec. 17, T. 12 N., R. 9 E.

Description	Feet	Inches
Average soil overburden with local pockets of thin gravel	3	
Light tan soft permeable very dolomitic limestone, thin-bedded (average thickness 2 inches) with small flat calcite faces and calcite masses (3 inches thick and 1 foot long) developed along bedding planes. Chip sample no. 1 is representative of this section. Rock sample no. 1 was taken 6 feet 7 inches from the top of this section.	8	8
Brown dolomite with dark wavy laminations. This section varies from 4 inches to 20 inches at various places in the quarry. Chip sample no. 2 represents this section. Rock sample no. 2 was taken 5 inches from the top of this band.		10
Brown firm porous dolomite with 4- to 6-inch bedding. Few thin weathered lenticular chert masses at varying positions. Chip sample no. 3 is representative of this section. Rock sample no. 3 was taken 3 feet 10 inches from the top of this section.	6	4
Brown hard porous massive dolomite. Wavy dark laminae. Blue-gray chert nodules in upper foot. Chip sample no. 4 represents this section. Rock sample no. 4 was taken 4 feet from the top of this zone.	7	11
Total thickness of stone being quarried	23	9
Estimated thickness of dolomite below water in the quarry. This amount was left by the operator to give a firm footing for mobile equipment.	3	

June 21, 1983

MEMORANDUM REPORT
BY
CURTIS H. AULT

The McCorkle Stone Co. quarry was purchased by the Rush County Stone company in January, 1983. Active quarrying was stopped and sales are now only from stock piles. The Columbes, who own the adjacent Rush County Stone Co. quarry, told me that they do not intend to actively quarry at this location until they exhaust the brown stone (Geneva Dol.) reserves at their quarry immediately east. The deepened part of this quarry in the Laurel Member as reported in 1980 (pencil comment on last memo report) will remain under water. This section is very similar to the Laurel exposed in the adjacent Rush County quarry.

The reason for closing the quarry was to eliminate the competition of the McCorkle quarry, not because of any problem with the stone.

L. SADLER ATTN N. WEST
SOURCE
FIELD OFFICE (3)

INDIANA STATE HIGHWAY COMMISSION
DIVISION OF MATERIALS AND TESTS
SUMMARY OF QUALITY RESULTS

DECEMBER 29, 1980

SOURCE MC CORKLE STONE COMPANY 2325
MILROY, IN. 46156

ELEVATION TOP OF LEDGE 1 905 FEET ABOVE MSL

LEDGE QUALITY

LAB NUMBER	DATE SAMPLED	LEDGE NUMBER	GEOLOGICAL FORMATION	BULK SP. G. PCT	ABS. PCT	BRI.	L.A. WEAR PCT	S.S. LOSS PCT	F.T. LOSS PCT	QUAL RATING	APPROX DATA THICK FT	VALID UNTIL
81-28103	10-09-80	1	GENEVA DOLOMITE	2.413	3.99	1.27	43.90	3.44		C1	6	01-09-83
80-28186	05-07-80	1	GENEVA DOLOMITE	2.332	5.00	1.52	53.32	1.14		F1	8	08-07-82
80-28187	05-07-80	2	GENEVA DOLOMITE	2.254	6.03	1.66	41.22	.43		D1*	17	08-07-82
81-28104	10-09-80	202	GENEVA DOLOMITE	2.332	5.75	1.13	38.18	6.25		D1*	6	01-09-83
81-28105	10-09-80	3	SALAMONIE	2.722	1.30	NA	31.94	4.01		A1	15	01-09-83

0.06

NOTES: THIS IS A CATEGORY I SOURCE.

FOR PRODUCTION SAMPLE QUALITY RESULTS SEE SUMMARY LETTER DATED DECEMBER 30, 1980.

*THIS MATERIAL IS NOT APPROVED FOR USE IN ANY PORTLAND CEMENT CONCRETE OR BITUMINOUS MIXTURES.

THERE IS APPROXIMATELY 3 FEET OF WALDRON SHALE BETWEEN LEDGES 202 AND 3 WHICH IS BEING STRIPPED AND WAS NOT SAMPLED.

THE SAMPLE REPRESENTED BY LAB NUMBER 81-28103 WAS TAKEN APPROXIMATELY 1000 FEET WEST OF THE SAMPLE REPRESENTED BY LAB NUMBER 80-28186 WHICH WAS TAKEN FROM THE EAST PORTION OF THE NORTHEAST PIT. SAMPLES REPRESENTED BY LAB NUMBERS 80-28186, 80-28187, AND 81-28103 WERE TAKEN FROM THE NORTHEAST PIT.

THE SAMPLES REPRESENTED BY LAB NUMBERS 81-28104 AND 81-28105 WERE TAKEN FROM THE WEST PIT.

THIS REPORT IS FOR INFORMATION ONLY AND
IS NOT INTENDED TO BE USED FOR ADVERTISING.

ACTING

R. H. Lewis

CHIEF, DIVISION OF MATERIALS AND TESTS

INDIANA GEOLOGICAL SURVEY
SPECTROCHEMICAL ANALYSES
(IN PERCENT)
MCCORKLE STONE CO.
SW SEC. 8, T. 12 N., R. 9 E
RUSH COUNTY

RU/SAMPLE NO.	THICK	CAC03	MGC03	SI02	AL203	FE203	TI02	MNO	CALC C02	CHEM C02	LOI	S	P205
GENEVA DOLOMITE													
P47-127	8.7	61.5	37.2	.76	.15	.13			46.5	47.0	46.6	.012	.002
P47-129	.8	55.8	42.6	1.00	.18	.13			46.7	46.5		.036	.002
P47-131	6.3	58.8	39.5	.88	.14	.13			46.5	46.6		.039	.003
P47-133	7.9	57.0	40.4	1.55	.27	.18	.015		46.2	46.3		.068	.004

MEMORANDUM REPORT

BY

CURTIS H. AULT

MCCORKLE STONE COMPANY QUARRY, NEAR MILROY, RUSH COUNTY, IND.

Date of field examinations:

C. H. Ault, May 8, 1970
R. R. French, Aug. 19, 1963; May 6, 1964; July, 1965
D. J. McGregor, July 28, 1953
J. B. Patton, July 15, 1947

Location: SW Sec 8-12N-9E; Adams Quad.
Four miles west of Milroy on SR 244.

Ownership: McCorkle Stone Company
Milroy, Indiana 46156

Officers: R. L. Flerlage, owner
M. Harcourt, manager

Telephone: 317-629-2208

Personnel: 18

Production: Crushed and agricultural limestone, concrete block, brick, flagstone; shipped by truck

Capacity: Primary crusher - 90 ton/hour

Geology: The overburden now ranges from 3 to 10 feet thick. Geneva dolomite is quarried on the north side of the road as described in previous reports. The thickest section of Geneva now exposed is 28 feet thick, some 4 feet thicker than measured in previous reports. The additional section is at the top where an irregular surface is present beneath the overburden. The description of the top 8.7 feet of calcareous dolomite (chemical analysis) described by Patton will also serve for the extra section reported here.

Overburden	3 - 10 feet
Geneva Dol.	<u>28.0</u>
Total	31.0

Aug 25, 1980
quarry deepened - well down 3.3'
Lunnel 25'
pit needs cleaning out
before disruption runs
be made.

MEMORANDUM REPORT
BY
ROBERT R. FRENCH

MCCORKLE STONE COMPANY QUARRY, NEAR MILROY, RUSH COUNTY, IND.

Date of field examinations.-

R.R.French, 19 August, 1963, 6 May 1964, July 1965
D.J.McGregor, 28 July, 1953
J.B.Patton, 15 July, 1947

Location.-

SW $\frac{1}{4}$ section 8, T.12N., R.9E.
4 miles west of Milroy on S.H. 224, on west bank of Flat Rock River,
Rush County.

Ownership.-

Mr. A.M. Holmes and Mr. R.L. Flergade, Cincinnati, Ohio.
Mr. Harcourt, Plant Manager.

Reserves.-

The maximum carbonate section is now 23.7 feet thick; this figure is probably very close to the maximum working depth in the Geneva dolomite.
Some thirty acres are leased to the company by the former operator, Mr. K.U. McCorkle, who is now working a small building stone quarry on the east bank of the river about 300 feet east of the main business.

Products.-

Crushed stone, aglime. A brick plant is operating next to the office. Average production is 500 t.p.d.
Shipments are by road.

Personnel.-

Eleven employees.

Geology.-

A 23.7' section of Geneva dolomite is now being quarried on the north side of the highway, the old quarry was to the south of this location but it is reported that fragments were falling in the vicinity of Mr. McCorkle's home during blasting operations and the quarry area was closed. It is believed that the subcrop pattern of the underlying Silurian formations will show the Waldron shale to be immediately subjacent to the Geneva if the owners attempt to go much deeper with the present operation. This has already been proven to be the case in the quarry to the south where a core was taken through the Waldron and into the Laurel formation. About 7 miles southwest (T.11N., R.8E.) the section shows 7.2 feet of Louisville Limestone.
No additional sampling was done.

References.-

Patton, J.B. (1947) McCorkle Stone Company Quarry West of Milroy,
Rush County, Ind. Dept. Cons. Geol. Surv., open-file memorandum
report.
McGregor, D.J. (1953) " " "

Respectfully submitted,

Robert R. French

MEMORANDUM REPORT BY DUNCAN J. MCGREGOR

MCCORKLE STONE COMPANY QUARRY WEST OF MILROY, RUSH COUNTY

Loc. 74

Date of field examination. -- July 28, 1953.

Location. -- A plant and quarry operated by A. E. Schneider is located 4 miles west of Milroy, on the north and south side of Indiana Highway 224 just west of the bridge across Flat Rock River. The quarry is in the ~~NW 1/4~~ Sec. 8, T. 12 N., R. 9 E.

Ownership. -- Mr. K. A. McCorkle still owns the land on which the quarry is located. ^{Mr. Harcourt, Manager} Mr. A. E. Schneider of Cincinnati, Ohio, bought all the ^{A. M. Holmes, R. G. Flegade} equipment and leased the land from Mr. McCorkle. Information was furnished by Mrs. Smith, of the office staff.

Geology. -- Because there was no increase in section, samples were not taken. The geology discussed in Patton's (1947) report is adequate.

Operations. -- The quarry south of State Highway 224 is no longer being operated. According to Mr. McCorkle, the quarry will be allowed to fill up to about 2 feet from the top. Pumping operations will maintain this level. Blasting, resulting in throwing rocks on the McCorkle residence, is the reason this operation was abandoned. The site will be used as swimming hole.

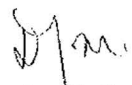
Across the road from the crusher a new quarry was opened. Eventually the plant will be moved across the road.

Production. -- Most of the production is sold locally. Much of the present production is used in the making of cement brick. Brick production averages 12,000 per day. The brick plant is located near the crusher at the quarry.

Reference cited. --

Patton, J. B. (1947) McCorkle Stone Company Quarry West of Milroy, Rush County. Unpublished memorandum report, 3 pp.

Respectfully submitted,


Duncan J. McGregor

Rushville, Indiana
September 2, 1947

MEMORANDUM REPORT BY JOHN B. PATTON

McCORKLE STONE COMPANY QUARRY WEST OF MILROY, RUSH COUNTY

Date of field examination.—July 15, 1947.

Location.—The McCorkle Stone Company quarry is 4 miles west of Milroy and on the south side of Indiana Highway 224 just west of the bridge across the Flat Rock River. It is in the northwest quarter of the northwest quarter of sec. 17, T. 12 N., R. 9 E.

Ownership.—A 30-acre tract bounded on the southeast by the Flat Rock River is owned in fee by the McCorkle Stone Company. Information for this report was obtained from Mr. K. U. McCorkle.

Geology.—The country is slightly rolling with 20 feet of local relief and 45 feet of relief where major drainage cuts through.

The following section was measured and the dolomite sampled:

Ft. in.

3

Average soil overburden with local pockets of thin gravel

8

8

Light tan soft permeable very dolomitic limestone, thin-bedded (average thickness 2 inches) with small flat calcite faces and calcite masses (3 inches thick and 1 foot long) developed along bedding planes. Chip sample no. 1 is representative of this section. Rock sample no. 1 was taken 6 feet 7 inches from the top of this section.

6.8'

10

Brown dolomite with dark wavy laminations. This section varies from 4 inches to 20 inches at various places in the quarry. Chip sample no. 2 represents this section. Rock sample no. 2 was taken 5 inches from the top of this band.

6.3'

4

Brown firm porous dolomite with 4-to 6-inch bedding. Few thin weathered lenticular chert masses at varying positions. Chip sample no. 3 is representative of this section. Rock sample no. 3 was taken 3 feet 10 inches from the top of this section.

7.9'

7

11 Brown hard porous massive dolomite. Wavy dark laminae. Blue-gray chert nodules in upper foot. Chip sample no. 4 represents this section. Rock sample no. 4 was taken 4 feet from the top of this zone.

Total thickness of stone being quarried 23 feet 9 inches.

Ft. in.

- 3 Estimated thickness of dolomite below water in the quarry. This amount was left by the operator to give a firm footing for mobile equipment.

The dolomite being quarried is Geneva. Beneath it the operator found the Waldron shale in a sump dug in the south edge of the quarry. The sump was full of water, and no Waldron was exposed at the time of this examination. This quarry was described by Dawson (1941, p. 45) before it had reached its present depth. Glacial drift has cut out the top of the Geneva in this area.

Analysis by the A.A.A. shows CaCO_3 equivalent of 102 percent to 105 percent. The maximum has been 108 percent.

Quarrying operations.—Mr. McCorkle moved his equipment to this site in the spring of 1943 from a quarry he had been operating at the south edge of the town of Milroy.

At this time the quarry is elliptical in shape with the long axis east-west. The full section described has been removed from an area 755 feet long and 270 feet wide at the widest point. In addition the upper 7 feet have been removed from an area extending west 237 feet from the west end of the deeper pit.

Equipment in use includes a Bucyrus-Erie 22T spudder, 2 Unit 3/4-yard shovels, a 30-30 New Holland impact crusher, a Pioneer roll-crusher, a Stedman cage mill, and 3 quarry trucks. All crushers are electric.

Stripping of overburden is contracted. Nine employees are needed at the quarry and plant.

Nearest rail connection is the New York Central at Milroy, a distance of 4 miles to the east. All products are trucked at present.

Production.—Present daily production is 600 tons, but the operator said that 500 tons was nearer his average. Cumulative production for 1946 was 90,000 tons. An estimated two-thirds of the products are agricultural lime and the remainder crushed stone.

Reserves.—The unquarried portion of the tract has an estimated reserve of 697,000 tons.

Cement brick plant.—A plant for the production of cement bricks is operated at the same site. The aggregate for the bricks is composed of one part sand (purchased at Shelbyville) to eight or ten parts crushed dolomite (screened to 3/16-inch) from the quarry. Only the lower and harder 16 feet of the section are used for this purpose. Standard and double and triple brick-sizes are produced at the rate of 50,000 each week on a year-round basis. Three men are employed at this operation.

Respectfully submitted,

John B. Patton

John B. Patton
Geologist

Dawson, T. A. (1941) The Devonian formations of Indiana, Pt. I, Indiana Dept.
Cons. Pub., 48 p.

SPECTROCHEMICAL ANALYSES OF THE McCORKLE STONE COMPANY QUARRY WEST OF MILROY, RUSH COUNTY

[illegible]

5-30-61

FM-188-215



5-30-6

FM-18B-216

