

FIELD TRIP NO. 3B -- Silurian-Devonian Contact Relations,Oaks Corners Quarry

The highest Silurian strata (Bertie and Cobleskill, see p. 18), the lowest Devonian strata (Onondaga, see pp. 21-26), and the disconformable contact between them will be examined at a locality near Phelps, N. Y.

Miles

- 0.0 Zero mileage. River Blvd. entrance to main quadrangle (headed south).
- 0.25 Elmwood Ave. (N.Y. 47). Turn left (E). Follow route 47 to intersection with N.Y. 31 at Monroe Ave. (for details of this route, see itinerary for Trip No. 1B, miles 0.25-3.8).
- 3.8 Monroe Ave. (N.Y. 31). Turn right (SE).
- 5.2 Clover St. (N.Y. 65). Keep straight.
- 5.3 Enter town of Pittsford. The Spring House on right is old hotel on former course of the Erie Canal.
- 7.1 Cross Erie Canal and railroad.
- 7.2 Enter village of Pittsford.
- 7.5 East Ave. (N.Y. 252, 253, and 264). Keep straight.
- 7.6 South St. Turn right.
- 8.1 Stop sign. Keep straight, merging with N.Y. 252.
- 8.7 Pass under railroad. Erie Canal to left.
- 9.8 Gravel and sand operation in water-laid glacial material to right.
- 10.8 Turn left, then right to join N.Y. 96. Follow signs to Victor and Thruway.
- 11.8 High ground to left is western edge of large kame moraine area (Turk-Baker Hills, see p. 55).
- 12.2 Gravel pit in kame material to left.
- 14.8 Thruway entrance to left.
- 15.1 Pass under New York State Thruway.
- 16.2 For next few miles route runs along northern margin of Victor channel, cut by waters flowing parallel and close to the ice front. Onondaga limestone caps high ground to south of valley.
- 16.4 Junction, N.Y. 251.
- 17.2 Enter village of Victor. Straight through.

Miles

- 18.6 Pass over railroad.
- 19.4 Mud Creek.
- 20.8 N.Y. 332. Keep straight.
- 23.3-  
39.1 The route here runs about a mile south of the southern edge of the great Palmyra drumlin field. Some of the southernmost drumlins are visible to the left (N). The high ground to the right (S) is the Onondaga escarpment, rather feebly developed here.
- 26.0 Pass over Lehigh Valley Railroad.
- 27.7 N.Y. 21. Keep straight.
- 27.9 Cross Canandaigua Lake outlet.
- 30.4 Stone fences are of platy waterlime of Bertie formation.
- 31.7 Gravel pit to right (S).
- 32.3 Clifton Springs to right (S). Rise in ground is Onondaga escarpment.
- 33.5 New York Central Railroad, branch line.
- 34.0 Slight rise in route elevation marks passage onto Onondaga outcrop belt. Note Onondaga blocks in stone fences.
- 34.9 N.Y. 88 joins from right.
- 35.2 Pass over railroad.
- 36.0 Enter Village of Phelps. Bear right on N.Y. 96 at road fork where N. Y. 88 leaves route to left.
- 36.9 Cross Flint Creek. Bertie outcrops in stream bed.
- 37.5 Leave Village of Phelps.
- 39.5 Preemption Road. Turn right at Snack Bar; follow signs to Oaks Corners and Geneva.
- 40.4 Cross railroad and immediately turn sharp right into quarry entrance.

STOP 1 — Oaks Corners Quarry and Plant of General Crushed Stone Company. The stratigraphic section exposed here is as follows (measurements from Oliver, 1954):

Onondaga limestone	<u>feet</u>
Moorehouse member -- medium- to thick-bedded limestone with dark chert . . . . .	36
Nedrow member -- thin-bedded impure limestone with chert . .	16
Edgecliff member -- light gray crystalline coralline limestone, with pebbles of Cobleskill and intermittent sandy zone at base . . . . .	10±
Disconformity -- Relief up to 5 feet along irregular surface. Contact has been locus of much solution and it is difficult to judge how much of the relief of the contact surface is due to pre-Onondaga erosion and how much to post-depositional solution. Lower Devonian Helderberg-Oriskany sequence missing.	
Cobleskill formation, Akron dolomite facies, unfossiliferous massive dark dolomite, Vugs near top contain secondary minerals: calcite, dolomite, sphalerite, and gypsum . . . . .	10-14
Bertie formation (in pit in quarry floor)	
Williamsville member -- buff-weathering homogeneous water- lime with conchoidal fracture. A fine, even lamination determines breakage into thin plates. Upper surface makes quarry floor . . . . .	5
Scajaquada member -- medium-bedded dark dolomitic lime- stone. Only upper portion exposed . . . . .	15±