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 X - TRIPS A-1 AND A-2 GEOLOGICAL OUTCROPS IN WELLSVILLE AREA

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Miles

- 0.0 9:00 A.M. Wellsville Rod & Gun Club, proceed east on black top.
 0.6 Junction of Route 19, turn right (south). The Wellsville crops out at the base of the hills to the east which are capped by Germania or basal Cattaraugus.
 1.65 Stannards Corners straight ahead.
 2.25 Turn right (west) on black top.
 2.50 After crossing Genesee River bridge, make a sharp left turn (south).
 2.90 Railroad crossing.
 3.00 Left turn (south).
 3.10 Right turn (west).
 3.55 9:07 A.M. STOP NO. 1 Hinsdale outcrop in road cut along Fords Brook.
 This is a 20 minute stop. (Sta. 2 on Map 2)
- Description:
 Top - 7' Hinsdale - interbedded gray micaceous siltstones 1" to 4" in thickness and gray shales; contain loose sponge spicules, Prismodictya sp. and Cyrtospirifer disjunctus.
 Base - 5' Wellsville - interbedded 1" to 4" dark purple siltstones and shales.
- 3.55 9:27 A.M. Leave Hinsdale outcrop, proceed west on gravel road.
 3.90 Outcrop on left across creek.
 4.20 Straight ahead.
 4.50 Oil wells in Fords Brook pool on left.
 4.75 Paved road.
 5.50 Turn right (north) at crossroad.
 6.20 Straight ahead.
 8.30 Sinclair tank farm on left.
 8.50 Wellsville village limit.
 8.70 Turn left (north) on South Brooklyn Avenue
 9.10 Stop light, straight ahead. (Pink house on southwest corner belongs to Mr. Hall, a Devonian fossil collector.)
 9.30 Stop light, straight ahead.
 9.70 Turn right (north) at end of street.
 9.95 Turn right (north) on Highland Avenue.
 10.30 Turn right (east) on Route 17 at Airport.
 10.55 Cross Genesee River and turn left (north) at blinker light onto Route 19. (At northeast end of Genesee River bridge test hole encountered 125' of glacial deposits.)
 12.2 Glacial and river terraces on right.
 13.6 Glacial and river terraces on left and Scio oil pool, on right, across railroad tracks. Top of producing sand is at a depth of 290'.
 14.15 Cross railroad tracks.
 14.45 Blinker light at Scio, turn right (east) onto county road #10.
 15.15 Machias formation outcrops on right across Vandermark Creek.
 16.85 10:00 A.M. STOP NO. 2 Cuba and Machias outcrop.
 This is a 45 minute stop. (Sta. 3 on Map 2).

Description:

Top - (the upper portion is accessible only with great difficulty and therefore the data for these upper units is taken directly from the Wellsville Bulletin)

- Top - 20' irregularly bedded buff sandstone
 12' fissile olive-gray argillaceous shale
 13' buff siltstone and sandstone containing numerous Tylothyris mesacostalis

- 2' massive buff sandstone
- 5' interbedded buff sandstone and siltstone
- 1½' massive buff sandstone (base of Cuba)
- 12' interbedded gray shale and thin gray siltstone (top of Machias)
- 1' fossiliferous gray siltstone
- 10' mostly gray argillaceous shale with a few thin gray siltstones
- 1½' medium light gray siltstone containing coquinites of Cyrtospirifer disjunctus
- 6' fissile medium gray shale with limonitic stain
- 2' gray siltstone containing coquinites of Cyrtospirifer disjunctus
- 15' mostly medium gray argillaceous shale showing limonitic stain with a few interbedded 1" to 1' gray siltstone containing crinoid stems

road level - 20' mostly medium gray shale with a few interbedded 1" to 2" gray siltstone

Base - 6' interbedded medium gray shale and gray 1" to 2" siltstones
(The lower two units are exposed in the creek bed below road level.)

- 16.85 10:45 A.M. Leave Cuba and Machias outcrop, proceed east.
- 17.60 Turn right (south) on gravel road.
- 19.10 Madison Hill oil pool.
- 19.20 Turn right (west).
- 21.50 Wellsville village limit.
- 21.70 Turn right (north) on Pearl Street.
- 21.75 Bear left, down hill.
- 21.85 Turn right (north) on Scott Avenue.
- 22.50 Turn left (west) on Farnum.
- 22.55 11:02 STOP NO. 3. Wellsville outcrop in stream bed about 100 yards north of street.

This is a 45 minute stop (Sta. 1 on Map 2)

Description:

- Top - 1' medium light gray 2" to 4" siltstone
- 7' olive gray shale with limonitic stain
- 12' concealed
- 2' medium light gray shaly siltstones and shales containing coquinites of crinoid stems; also present are Chonetes sp., Productella sp. and Cyrtospirifer disjunctus
- 2' medium light gray 1" to 6" siltstone containing Cyrtospirifer disjunctus
- 4' concealed
- 5' interbedded olive gray shale and medium light gray thin to 2" siltstones; contain crinoid stems, Chonetes sp. and Cyrtospirifer disjunctus
- 3' medium light gray 1" to 4" siltstones containing coquinites of crinoid stems and Cyrtospirifer disjunctus
- 15' olive gray shale with a limonitic stain and only a very few interbedded thin gray siltstones
- 1' gray fossiliferous coquinites of crinoid stems and Cyrtospirifer disjunctus

base - 5' medium light gray thin to 3" siltstones containing flattened concretions ("storm rollers") up to 3' in diameter

- 22.55 11:47 A.M. Leave Wellsville outcrop, proceed west.
- 22.60 Turn left (south) on Farnum Street.
- 23.10 Cross Erie R R Tracks.
- 23.25 Turn left (south) on North Main Street.
- 23.55 Turn right (southeast) at stop light onto East Pearl Street.
- 23.65 Cross Genesee River.
- 23.80 Stop sign, bear left.
- 23.95 Stop light, straight ahead (south).
- 24.60 Sinclair Refinery on left of road (County Route #44).
- 25.30 Turn left (east) and cross railroad tracks and Genesee River.
- 25.45 Turn right (south) into driveway of Wellsville Rod & Gun Club.