

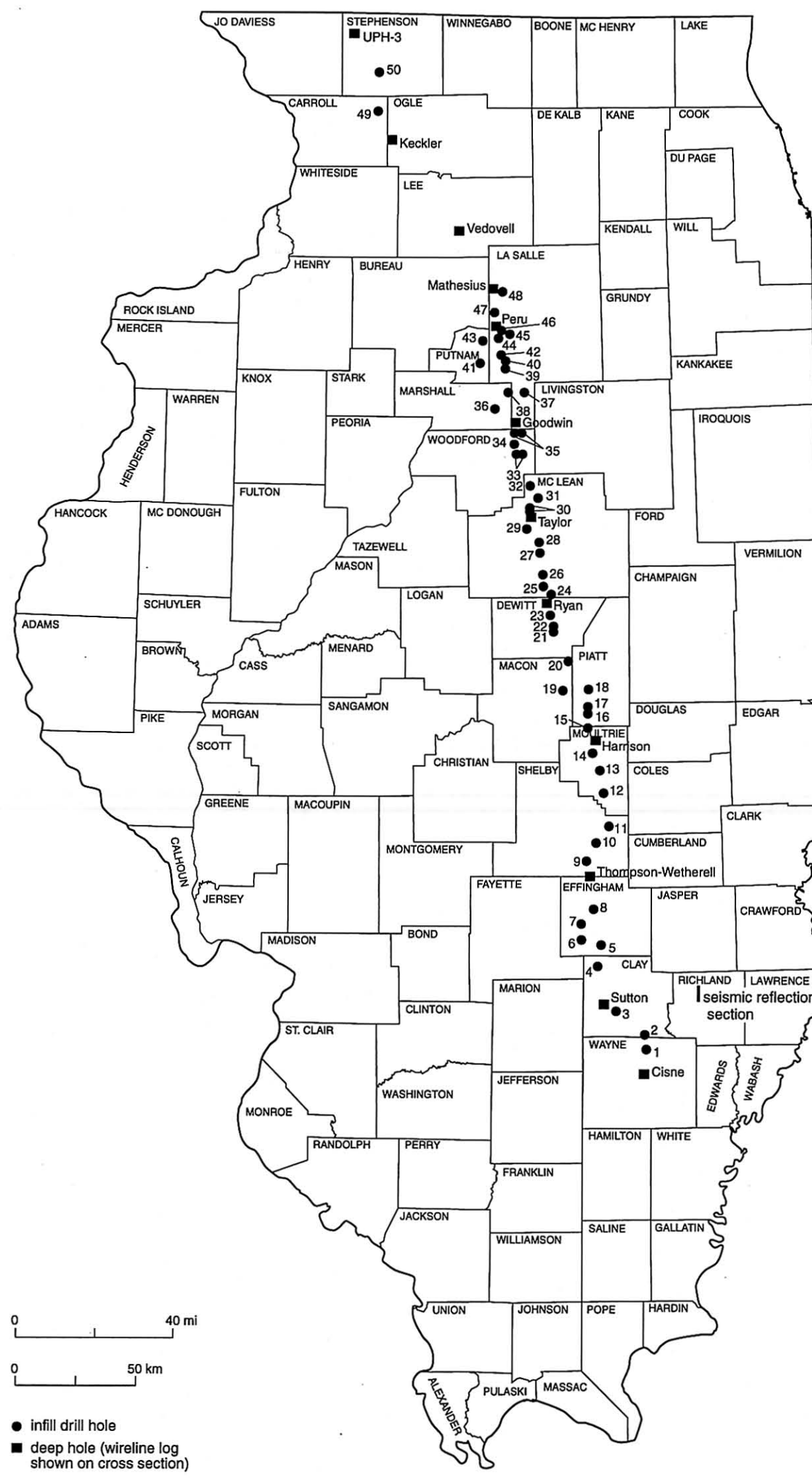
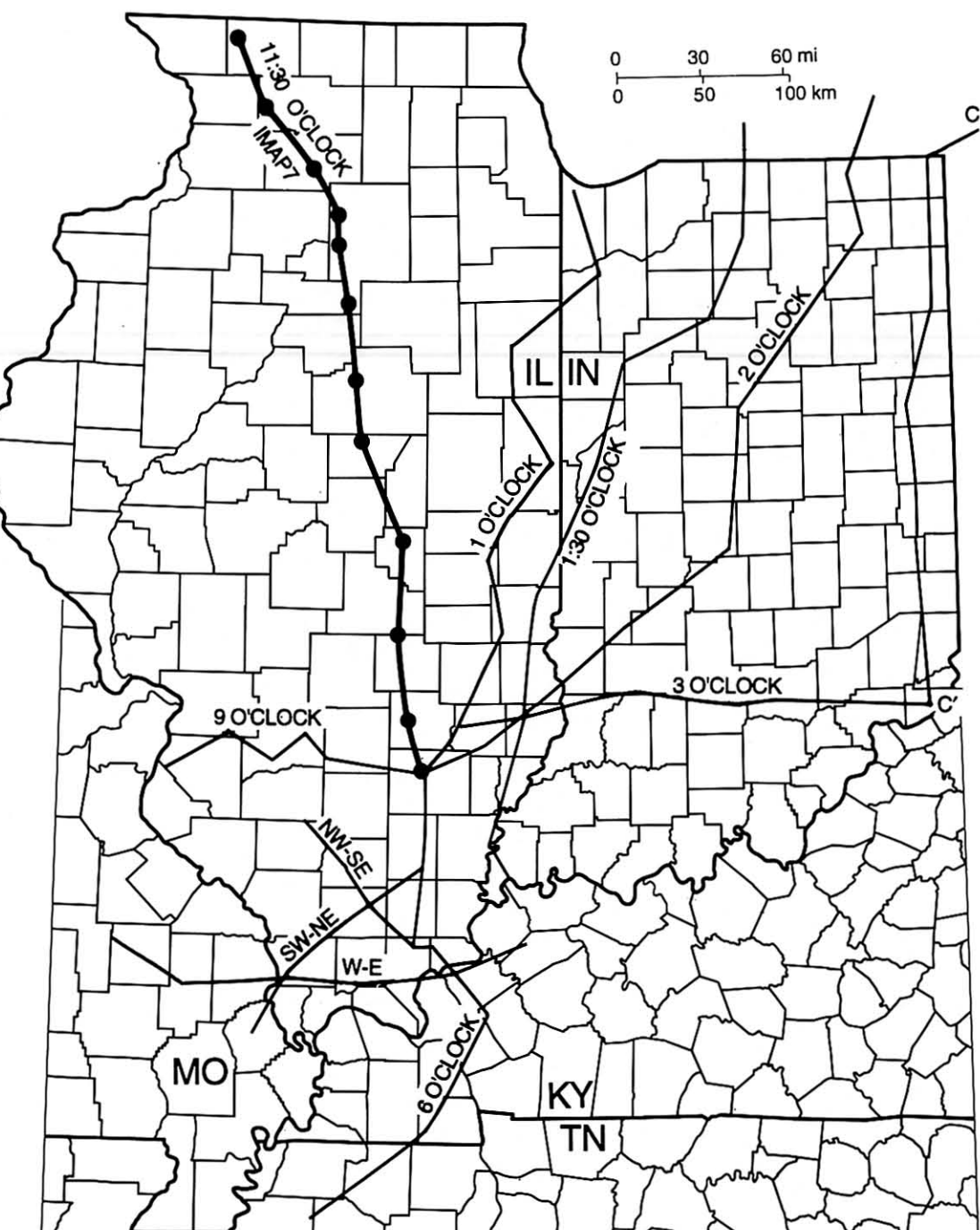


- Datum is mean sea level.
- Surface topography was taken from U.S. Geological Survey 1"x2" sheets.
- Thickness of the Quaternary deposits was taken from IGSS Chapter 490, *Glacial Drift in Illinois: Thickness and Character* (Pielou and Bess, 1967).
- Stratigraphic nomenclature is based primarily on the CSUSNA chart (Shaver, 1965).
- Structural terminology follows IGSS Bulletin 100, *Structural Features in Illinois* (Nelson 1990).
- Structural configuration between the drill holes in this cross section for the sub-Pennsylvanian strata was compiled from available regional structure maps: base of the Beech Creek (Branton 1967), top of the Galena (Branton and Buschbach 1973), and top of the Franconia (Koelet al., 1968). The shallowest horizon was obtained from the structural contour for the Pennsylvanian strata is the top of the Hermit Coal. Various isopach, lithofacies, and bedrock geology maps were used for further control.

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A network of regional cross sections prepared by the Illinois Basin Consortium (Illinois, Indiana, and Kentucky Geological Surveys) shows the structure, thickness, and distribution of nearly all Paleozoic rocks (except in the Rough Creek Graben) in the Illinois Basin. Most of the sections radiate from the UNOCAL no. 1 Ciske drill hole in Wayne County, Illinois, the approximate center of the basin. The other regional cross sections are oriented to traverse significant geologic features in Indiana and Kentucky. Each cross section is available in open file format from the Illinois, Indiana, and Kentucky Geological Surveys.

The "11:30 O'Clock Cross Section" (formerly IGS Open File Series 1994-6) runs roughly perpendicular to depositional slope through the Paleozoic section in Illinois. Depositional trends, structural movements, and subsidence through time show up clearly on the cross section. The accompanying booklet gives the description of the stratigraphic and structural framework along this north-to-south line of section.



In-fill Drill Holes					
(holes projected into line of cross section were adjusted to structure)					
Cross section no.	Drill hole	County	Location	API no.	Interval/samples studied (ft)
1	McKelvey & Sipeche no. 1 Robertson	Wayne	T1N-71R-SE-2	1219104685	
2	J. W. Beale no. 1 Lusk	Clay	T2N-74R-SE-15	1202055136	3700-4130 4380-4560
3	So. II, Oil Producers no. 1-A Means	Clay	T3N-76R-SE-16	1202055036	3600-3810 4000-4020
4	Humble Oil and Refining no. 5 Vangerton "A"	Clay	T5N-76R-SE-15	1202055155	
5	Dale Hayslip no. 1 Schoenberg	Effingham	T6N-74R-SE-23	1204005657	2730-3200 3510-3680
6	Handon drilling no. 1 Kase	Effingham	T6N-74R-SE-12	1204005657	2600-3500
7	Dale Fickler Oil no. 1 Riggs	Effingham	T7N-74R-SE-24	1204005635	2840-3400
8	Pura Oil	Effingham	T6N-76R-SE-33	1204005005	2520-3200
9	1 Denmarkman Walter O. Lindstrom no. 1 Kourchick	Shelby	T10N-71R-SE-31	1217301255	
10	Todd Leonard no. 1 Engel	Shelby	T10N-71R-SE-3	1217262034	
11	The Texas Co. no. 1 Ferguson	Shelby	T11N-70R-SE-18	1217300797	
12	The Texas Co. no. 1 Fredrick-Wabash Unit	Moultrie	T13N-76R-SE-36	1219000127	
13	Ryan Oil Co. no. 1 Serial	Moultrie	T14N-74R-SE-25	1219001114	
14	Harold E. Sanders no. 1 Wright	Moultrie	T14N-76R-SE-4	1213900120	
15	Henry P. Smith no. 1 Redman	Moultrie	T15N-76R-SE-5	1213900135	
16	Thao Myers no. 1 Evans	Flatt	T16N-74R-SE-19	1214700023	1300-2300
17	National Apache Petrol. no. 1 Reed	Flatt	T16N-74R-SE-6	1214700007	
18	Jay-Vee Development no. 1 Woodward	Flatt	T17N-75R-SE-17	1214700008	
19	Power Explorations no. 1 Anderson	Macon	T11N-74R-SE-18	1211521843	
20	Tuley and Garler no. 1 Brighton	Macon	T18N-74R-SE-4	1211505693	
21	Union Gas Storage no. 1 Bogardus	De Witt	T20N-72R-SE-34	1203000309	870-1320
22	R. E. Satter no. 1 Lubbers	De Witt	T20N-72R-SE-27	1203000378	
23	Union Oil of California no. 1 Williamson	De Witt	T20N-73R-SE-4	1203000064	590-1050
24	Union Hill Gas Storage	McLean	T21N-71R-SE-10	1211300054	500-1070
25	I. Scott and D. C. Arnold no. 1 Donnelly	McLean	T21N-71R-SE-10	1211300036	
26	Garrett and Howler no. 1 Frazier	McLean	T22N-73R-SE-32	1211300076	490-740
27	Northern Basin Oil no. 1 Wagner	McLean	T22N-73R-SE-17	1211300051	610-700
28	John P. Potzsch no. 1 Look "A"	McLean	T23N-73R-SE-18	1211300032	490-600
29	John P. Potzsch no. 1 Selter "A"	McLean	T24N-73R-SE-31	1211300031	500-610
30	Northern Illinois Gas no. 1 Cadden	McLean	T24N-73R-SE-15	1211300016	580-610
31	Hydrocarbon Survey no. A-58 Kerick and Volney City no. BH-34	McLean	T25N-73R-SE-23	1211321272	
32	Northern Illinois Gas no. 1 Addison	McLean	T25N-73R-SE-25	1211300045	450-520
33	Northern Illinois Gas no. 1 Patton	McLean	T26N-72R-SE-23	1211300024	480-550
34	Henry B. Ringger no. 1 Bell and Northern Ill. Gas no. WD-1	Woodford	T27N-75R-SE-5	1202000475	440-410
35	Northern Illinois Gas no. WD-2	Woodford	T28N-75R-SE-30	1202000476	
36	J.P. Miller Artesian Minork City Well and Hydrocarbon Survey no. D-49 and Coal shaft and drill hole	Woodford	T28N-75R-SE-7	1202000184	
37	J.P. Miller Artesian Well no. 2 Zukas City and Dealin Coal Co. no. 3	Woodford	T28N-75R-SE-4	1202002129	
38	Northern Illinois Gas no. 1 Hwy	Manassah	T28N-75R-SE-15	1212000112	
39	Winona Shaft	Manassah	T30N-71R-SE-13	1212000013	
40	St. Paul and Braville Coal Co.	La Salle	T31N-74R-SE-14	1206000049	
41	Star Coal Co. no. 3 Prospect	La Salle	T31N-71R-SE-2	1206000038	
42	G.A. Fuller and J.H. Turner no. 1 McGilly	Putnam	T31N-71R-SE-3	1215500020	
43	St. Paul and Braville Coal Co.	La Salle	T32N-71R-SE-27	1209000091	
44	J.P. Miller Artesian no. 2 Village of Standard	Putnam	T32N-71R-SE-11	1215500024	
45	La Salle County Carbon Coal no. 1 Whitebait Fuel	La Salle	T32N-71R-SE-4	1209000082	
46	Layne North Central Co. no. 1 Oglesby City Well	La Salle	T33N-71R-SE-36	1209000508	
47	Elko Oil and Gas Co. no. 1 Dunlap	La Salle	T33N-71R-SE-27	1209000109	
48	J.P. Miller Artesian no. 1 Holiday Inn	La Salle	T34N-71R-SE-32	1209001805	
49	Northern Illinois Gas no. 1 La Salle Nat. Bank	La Salle	T34N-71R-SE-3	1209001499	
50	George Lyne no. 2 Village of Shannon	Carroll	T25N-77R-SE-19	1200150146	
50	Northern Illinois Gas no. WF-1	Stephenson	T27N-77R-SE-32	1217270666	