

## APPENDIX 1

## Wire-line Log Control

## KEY

- EL -- Elevation relative to mean sea level, from which log was measured (drilling depth = 0 feet).
- GB -- Drilling depth from EL to base of Mississippian Greenbrier Group.
- SCB -- Structure on base of Mississippian Greenbrier Group (mean sea level datum).
- P -- Pocono Formation isopach values.
- H -- Hampshire Formation isopach values.
- SS -- Speechley shales interval isopach values.
- BR -- Bradford interval isopach (25% clean isolith) values.
- R -- Riley interval isopach values.
- BN -- Drilling depth from EL to top of upper Benson sandstone.
- SBN -- Structure on top of upper Benson sandstone (mean sea level datum).
- TI -- Total interval isopach values.
- L-X -- Base-lined gamma-ray logs available.
- F-X -- Faulting definitely present within study interval.
- Note -- Blank spaces indicate that values were either not available, or were not ascertained.

County Permit #	EL	GB	SGB	P	H	SS	BR	R	BN	SBN	TI	L	F
Barbour 40	1330	1805	-475										X
Barbour 48	1650			349									X
Barbour 55	1665	1312	+353	311	545	964	86	665	3888	-2223	2576		X
Barbour 60	1266	1752	-486	336	459	1055	86	650	4338	-3072	2586		X
Barbour 62		1210		288		986	116	620	3778		2568	X	X
Barbour 101	1517	1809	-292										
Barbour 119	1530	2058	-528	258	424	1096	82	686	4604	-3074	2546	X	
Barbour 139	1643	2076	-433	267	442	1062	77	672	4596	-2953	2520	X	
Barbour 147	1294	1738	-444	333	429	1062	88	710	4360	-3066	2622	X	
Barbour 153	1059	1607	-548	276	435	1103	60	721	4202	-3143	2595	X	
Barbour 161	1544	1242	+302						3772	-2228	2530	X	
Barbour 170	1394	1450	-56						4124	-2730	2674	X	
Barbour 182	1692	1851	-159	340	442	1074	86	661	4454	-2762	2603	X	
Barbour 204	1575	1253	+322						3789	-2214	2536	X	
Barbour 206	1371	1318	+53	314	442	1083	78	709	3944	-2573	2626	X	
Barbour 214	1542	1220	+322						3754	-2212	2534	X	
Barbour 215	1598	1389	+209	318	492	1195	77	519	3990	-2392	2601	X	
Barbour 225	1214	1671	-457	354	438	1045	78	694	4280	-3066	2609	X	
Barbour 233	1308	1190	+118	340	433	1120	75	638	3796	-2488	2606	X	
Barbour 245	1734	1407	+327	316	626	981	103	601	4034	-2300	2627	X	
Barbour 258	1708	1392	+316	291	653	978	82	637	4033	-2325	2641	X	
Barbour 266	1479	1328	+151	209	578	967	62	692	3836	-2357	2508	X	
Barbour 269	1453	1232	+221	212	585	994	71	668	3762	-2309	2530	X	
Barbour 271	1716	1384	+332	209	565	965	71	693	3887	-2171	2503	X	
Barbour 274	1739	1352	+387						3862	-2123	2510	X	
Barbour 283	1567	1212	+355	232	561			635	3843	-2276	2631	X	
Barbour 284	1109	1503	-394	383	420	1131	72	742	4251	-3142	2748	X	
Barbour 288	1556	1800	-244	376	430	1090	71	699	4466	-2910	2666	X	
Barbour 292	1357	1726	-369	404	439	1085	77	696	4427	-3070	2701	X	
Barbour 309	1550	2024	-474	370	415	1134	75	703	4721	-3171	2697	X	
Barbour 311	1442	1696	-254	362	454	1066	78	704	4360	-2918	2664	X	
Barbour 312	1574	988	+586	224	574	957	81	604	3428	-1854	2440	X	
Barbour 327	1663	1448	+215	272	564	965	74	658	3981	-2318	2533	X	

County Permit #	EL	GB	SGB	P	H	SS	BR	R	BN	SBN	TI	L	F
Barbour 347	1346	1287	+59	313	480	1174	85	644	3983	-2637	2696	X	
Barbour 353	1525	1446	+79	225	585	948	74	775	4053	-2528	2607	X	
Barbour 354	1685	1421	+264	382	569	1028	88	616	4104	-2419	2683	X	
Barbour 355	1447	1452	5	395	431	1142	79	731	4230	-2783	2778	X	
Barbour 357	1425	1689	-264	337	446	1058	83	674	4286	-2861	2597	X	
Barbour 360	1483	1524	-41	233	573	934	73	668	4005	-2522	2481	X	
Barbour 361	1548	1377	+171						3921	-2373	2544	X	
Barbour 384	1450	1380	+70	312	651	1001	88	626	4058	-2608	2678	X	X
Barbour 396	1366	1144	+222	308	518	995	75	659	3699	-2333	2555	X	
Barbour 405	1593	1409	+184						3972	-2379	2563	X	
Barbour 406	1491	1734	-243	309	430	1075	53	699	4300	-2809	2566	X	
Barbour 407	1434	1623	-189	397	416	1099	86	676	4297	-2863	2674	X	
Barbour 410	1882	1405	+477	266	552	961	78	647	3909	-2027	2504	X	
Barbour 412	1402	1850	-448						4514	-3112	2664	X	
Barbour 432	1537	1606	-69						4118	-2581	2512	X	
Barbour 435	1975	1387	+588	221	585	945	78	594	3810	-1835	2423	X	
Barbour 443	1659	1356	+303	296	551	963	69	637	3872	-2213	2516	X	
Barbour 445	1456	1232	+224	326	552	940	81	639	3770	-2314	2538	X	
Barbour 459	1846	1645	+201	206	715							X	
Barbour 490	1877	1300	+577	266	542	947	76	594	3746	-1869	2446	X	
Barbour 502	1159	1606	-447	357	431	1114	55	713	4276	-3117	2670	X	
Barbour 503	1348	1424	-76					662	4099	-2751	2675	X	
Barbour 537	1394	1798	-404	370	436	1101	62	817	4584	-3190	2786	X	
Barbour 538	1476	1911	-435			1089	76	793	4670	-3194	2435	X	
Barbour 539	1610	1368	+242	360	574	978	87	571	3938	-2328	2570	X	
Barbour 560	1648	1615	+33	435	713	836	88	585	4272	-2624	2655	X	
Barbour 562	1664	1200	+464	329	542	996	79	649	3795	-2131	2595	X	
Barbour 568	1768	1279	+489	299	610	949	74	603	3814	-2046	2535	X	
Barbour 571	1677	1423	+254	330	622	993	122	613	4103	-2426	2680	X	X
Barbour 578	1585	1954	-369	352	446	1082	66	694	4594	-3009	2640	X	
Barbour 583	1942	1333	+609	229	553	959	84	604	3762	-1820	2429	X	
Barbour 589	1736	1462	+274	316	577	983		625	3963	-2227	2501	X	
Barbour 590	1660	1570	+90			880	71	532	3966	-2306	2396	X	

County Permit #	EL	GB	SGB	P	H	SS	BR	R	BN	SBN	TI	L	F
Barbour 591	1763	1539	+224	396	473	1065	74	639	4186	-2423	2647	X	
Barbour 610	1878	1322	+556	278	543	952	85	588	3768	-1890	2446	X	
Barbour 618	1287	1745	-458						4540	-3253	2795	X	
Barbour 648	1510	1432	+78	381	612	1135	65	650	4210	-2700	2778	X	X
Barbour 650	1814	1313	+501	236	557	939	83	620	3748	-1934	2435	X	
Barbour 657	1503	1808	-305						4442	-2939	2634	X	
Barbour 658	1451	1701	-250						4338	-2887	2637	X	
Barbour 668	2257	1550	+707						3891	-1634	2341	X	
Barbour 694	1593	1469	+124	291	710	788	81	528	3867	-2274	2398	X	
Barbour 701	2010	1755	+255						3968	-1958	2213	X	
Barbour 705	1884	1656	+228					482	3847	-1963	2191	X	
Barbour 713	1858	1454	+404						3968	-2110	2514	X	
Barbour 715	1968	1680	+288					525	3944	-1976	2264	X	
Barbour 739	1459	1760	-301	300	500	1012	81	691	4344	-2885	2584	X	
Barbour 814	2161	1728	+433	135								X	
Barbour 842	2015	1710	+305					617	3959			X	
Barbour 860	2247	1528	+719					574	3876	-1629	2348	X	
Barbour 867	1997	1470	+527					545	3771	-1774	2301	X	
Barbour 876	1228	1188	+40	305	540	978	64	764	3839	-2611	2651	X	
Barbour 901	1276	1804	-528	326	451	1059	77	700	4417	-3141	2613	X	
Barbour 942	1957	1592	+365					454	3770	-1813	2178	X	
Barbour 987	1775	1307	+468	276	584	978	72	644	3861	-2086	2554	X	
Barbour 1168	1631	1534	+97	232	598	909	89	520	3882	-2251	2348	X	
Barbour 1427	1683	1576	+107	328	580	918	71	564	4037	-2354	2461	X	
Barbour 1440	1857	1663	+194	276	703	757	83	476	3958	-2101	2295	X	
Barbour 1479	1771	1627	+144	206	763	751	88	472	3957	-2186	2330	X	
Harrison 267	1096	1353	-257									X	
Harrison 420	1134	1597	-463						4258	-3124	2661	X	
Harrison 421	1138	1630	-492	374	410	1111	70	713	4308	-3170	2678	X	
Harrison 496	1060	1566	-506			1116	62	716	4226	-3166	2660	X	
Harrison 497	1039	1552	-513	361	417	1130	63	700	4223	-3184	2671	X	
Harrison 673	1159	1631	-472	434				725	4337	-3178	2706	X	
Harrison 684	1362	1763	-401					707	4493	-3131	2730	X	

County Permit #	EL	GB	SGB	P	H	SS	BR	R	BN	SBN	TI	L	F
Harrison 720	1269	1739	-470	413	387	1149	57	724	4469	-3200	2730	X	
Harrison 786	1194	1393	-199	605	334	1172	113	702	4319	-3125	2926	X	X
Harrison 844	1213	1602	-389	640	341	1217	47	791	4638	-3425	3036	X	
Harrison 1237	1221	1640	-419					728	4403	-3182	2763	X	
Harrison 2398	1100	1344	-244					733	4185	-3085	2841	X	
Harrison 2507	1152	1464	-312						4302	-3150	2838	X	
Marion 254	1048	1685	-637										
Marion 310	1181	1923	-742	593	379	1262	50	767	4974	-3793	3051	X	
Marion 312	1774	1220	+554	550	470	1085	88	731	4141	-2367	2921	X	
Marion 318	1390	2133	-743	584	399	1277	54	731	5178	-3788	3045	X	
Marion 325	1271	1236	+35	544	429	1134	57	769	4169	-2898	2933	X	
Marion 673	1314	890	+424	551	476	1120	63	715	3815	-2501	2887	X	
Marion 678	1287	930	+357	523	478	1138	56	712	3837	-2550	2907	X	
Marion 681	1143	1240	-97	569	382	1159	68	752	4170	-3027	2930	X	
Marion 692	1258	895	+363						3780	-2522	2885	X	
Marion 694	1255	878	+377	540	469	1125	58	730	3800	-2545	2922	X	
Marion 704	1442	1079							4013	-2571	2934	X	
Monongalia 274	2107	800	+1307	574	516	1066	83					X	
Monongalia 281	2102	796	+1306	490	595	1065	104	686	3736	-1634	2940	X	
Monongalia 287	2106	808	+1298	579	566		127	814	3920	-1814	3112	X	X
Monongalia 289	2176			558								X	
Monongalia 294	2180	790	+1390	554	594	1072	84	726	3820	-1640	3030	X	
Monongalia 297	2204	855	+1349	568	595	1105	90	743	3956	-1752	3101	X	
Monongalia 301	2046	757	+1289	566	550	1207	81	739	3900	-1854	3143	X	
Monongalia 303	2178	825	+1353	542	558	1121	91	843	3980	-1802	3155	X	X
Monongalia 307	2196	820	+1376	573	535	1093	71					X	
Monongalia 313	1933	582	+1351	550	542	1085	94	698	3571	-1638	2989	X	
Monongalia 326	2025	757	+1268	576	573	1036	79	783	3804	-1779	3047	X	
Monongalia 327	2042	717	+1325	559	542	1085	89	801	3793	-1751	3076	X	
Monongalia 332	2087	737	+1350	611	493	1138	95	670	3744	-1657		X	
Monongalia 336	2085	899	+1186	588	519	1170	89	705	3970	-1885	3071	X	
Monongalia 337	2011	602	+1409	600	535	1165	101	625	3628	-1617	3026	X	
Monongalia 339	1412	1399	+13	551	509	1028	83	728	4298	-2886	2899	X	

County Permit #	EL	GB	SGB	P	H	SS	BR	R	BN	SBN	TI	L	F
Monongalia 340	1727	1317	+410	545	511	1068	92	729	4262	-2535	2945	X	
Monongalia 347	2064	805	+1259	594	533	1130	111	769	3942	-1878	3137	X	
Monongalia 364	2088	781	+1307	591	540	1098	93	724	3827	-1739	3046	X	
Monongalia 366	1743	787	+956	539	519	1097	95	757	3794	-2051	3007	X	
Monongalia 370	974	1347	-373	574	432	1059	92	786	4290	-3316	2943	X	
Monongalia 440	2168	985	+1183	539	593	1019	94	706	3936	-1768	2951	X	
Monongalia 638	1909	903	+1006	551	549	1050	89	705	3847	-1938	2944	X	
Preston 86	1842	1100	+742	508	592	977	98	650	3925	-2083	2825	X	
Preston 102	1850	1047	+803	534								X	
Preston 111	2172	998	+1174	516	713	916	125					X	
Preston 122	2022	835	+1187	572		1029	111	666	3781	-1759	2946	X	
Preston 125	2116	1068	+1048	522	908	808	107					X	
Preston 136	1727	1012	+715	508								X	
Preston 138	1858	1117	+741	490	853	824	87					X	
Preston 140	1375	1334	+41	440	613	980	83	606	4056	-2681	2722	X	
Preston 153	1806	1652	+154	431	849	761	91	562	4346	-2540	2694	X	
Preston 168	1840	1567	+273	409	779	801	87	500	4143			X	
Preston 169	2053	1152	+901	515	768	885	100	588	4008	-1955	2856	X	
Preston 171	1819	1008	+811	584	504	1069	86	679	3930	-2111	2922	X	
Preston 172	1940	1168	+772	546	525	1072	90	638	4039	-2099	2871	X	
Preston 174	1858	890	+868	599	504	1083	87					X	
Preston 175	1783	945	+838	633	649	902	82	660	3878	-2095	2933	X	
Preston 176	1834	932	+902	579	881	740	95	609	3836	-2002		X	
Preston 177	2168	1006	+1162	535	716	940	101	597	3895	-1727	2889	X	
Preston 179	1759	962	+797	540	684	899	92	587	3764	-2005	2802	X	
Preston 180	1284	958	+326	511	587	1012	91	646	3805	-2521	2847	X	
Preston 181	2127	1089	+1038	512	784	949	96	648	4078	-1951	2989	X	
Preston 184	1869	1070	+799					733	4068	-2199	2998	X	X
Preston 185	2015	1172	+843						4056	-2041	2884	X	
Preston 187	1888	1062	+826	571	504	1080	90	636	3943	-2055	2881	X	
Preston 190	2039	1589	+450	475	673	960	95	578	4370	-2331	2781	X	
Preston 192	1510	1522	-12	438	723	847	90	608	4228	-2718	2706	X	
Preston 194	2171	1220	+951	496	891	879	93	638	4217	-2046	2997	X	

County Permit #	EL	GB	SGB	P	H	SS	BR	R	BN	SBN	TI	L	F
Preston 196	1811	1040	+771	534	515	1057	80	655	3881	-2070	2841	X	
Preston 198	1786	918	+868	562	530	1048	89	683	3830	-2044	2912	X	
Preston 201	1802	1084	+718	534	595	997	91	632	3933	-2131	2849	X	
Preston 204	1789	1064	+725	518	587	974	91	642	3876	-2087	2812	X	
Randolph 175	2728	1587	+1141	104	562	903	72	508	3736	-1008	2149	X	
Randolph 176	2230	1126	+1104	155	534	871	72	504	3262	-1032	2136	X	
Randolph 178	2701	1458	+1243	161	533	875	71	518	3620	-919	2162	X	
Randolph 189	2458	1409	+1049			918	68	547	3600	-1142	2191	X	
Randolph 190	1898	860	+1038	133	534	950	64	538	3079	-1181	2219	X	
Randolph 222	2434	1375	+1059	133	556	879	70	520	3533	-1099	2158	X	
Randolph 231	2004	847	+1157	95	562	953	66	618	3141	-1137	2294	X	
Randolph 232	2334	1322	+1012	144	502	974	72	541	3555	-1221	2233	X	
Randolph 264	2558	1203	+1355						3393	-835	2190	X	
Randolph 304	2280	1418	+862	169	705	812	76	539	3719	-1439	2301	X	
Randolph 306	2200	1427	+773	102	533	935	64	585	3646	-1446	2219	X	
Randolph 317	2534	1508	+1026	101	561	947	82	670	3869	-1335	2361	X	X
Randolph 351	3013	1661	+1352	159	517	916	65	535	3853	-840	2192	X	
Randolph 353	2420	1067	+1353	117	540	948	86	585	3343	-923	2276	X	
Randolph 368	2895	1532	+1363	180								X	
Randolph 375	2460	1494	+966	115				520	3740	-1280	2246	X	
Randolph 378	2275	1330	+945	116	564	992	66	537	3605	-1330	2275	X	
Randolph 381	3109	1596	+1513	145	589	896	69	505	3800	-691	2204	X	
Randolph 385	2530	1532	+998	98	569			526	3749	-1219	2217	X	
Randolph 391	2830	1540	+1290	100	617	856	76	493	3682	-852	2142	X	
Randolph 395	2302	1438	+864	167	591	940	76	644	3829	-1527	2391	X	
Randolph 423	2260	1003	+1257	132	559	906	72	525	3197	-937	2194	X	
Randolph 428	2750	1632	+1118	96	562	938	76	523	3827	-1077	2195	X	
Randolph 478	2280	1398	+882	139	579	979	76	530	3701	-1421	2303	X	
Randolph 519	2273	1634	+639	129	639	825	76	497	3800	-1527	2166	X	
Randolph 555	3096	1730	+1366	168	498	940	72	528	3936	-840	2206	X	
Randolph 558	2093					800	124	530	1667	+426		X	
Randolph 559	2607	1350	+1257	80	625	843	99	430	3427	-820	2077	X	
Randolph 588	2503	1657	+846	121	590	890	70	521	3849	-1346	2192	X	

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Randolph 598	2410	1615	+795	101	513	954	72	541	3796	-1386	2181	X	
Randolph 627	2196	1423	+773	130	595	897	64	515	3624	-1428	2201	X	
Randolph 647	2167	1147	+1020	105	606	832	67	461	3218	-1051	2071	X	
Randolph 652	2668	1578	+1090	86	622	863	76	505	3730	-1062	2152	X	X
Randolph 661	2290	1589	+701	153	697	785	72	557	3853	-1563	2264	X	
Randolph 675	2845	1254	+1591	148	602	848	69	520	3441	-596	2187	X	
Randolph 677	2940	1573	+1367	103	637	828	71	502	3714	-774	2141	X	
Randolph 696	2388	1598	+790	112	580	859	64	455	3668	-1280	2070	X	
Randolph 710	2210	1302	+908	141	552	962	68	573	3608	-1398	2306	X	
Randolph 722	2415	1783	+632	98	575	870	75	475	3876	-1461	2093	X	
Randolph 732	3084	1767	+1317	103	562	916	65	557	3970	-886	2203	X	
Taylor 88	1518	1544	-25	409	510	1132	70	725	4390	-2872	2847	X	X
Taylor 96	1501	1291	+210	437	572	1013	72	633	4018	-2532	2727	X	
Taylor 97	1448	1323	+125	455	639	977	94	621	4109	-2661	2786	X	
Taylor 100	1329	1627	-298	485	472	1082	81	701	4448	-3119	2821	X	
Taylor 101	1121	1313	-192	424	399	1180	81	811	4208	-3987	2895	X	
Taylor 103	1436	1496	-60	452	537	1035	75	670	4265	-2829	2769	X	
Taylor 104	1262	1624	-362	476	475	1047	76	689	4387	-3125	2763	X	
Taylor 105	1191							750				X	
Taylor 109	1607	1237	+370	537	496	1099	73	718	4160	-2553	2923	X	
Taylor 113	1638	962	+676	541	515	1104	83	701	3906	-2268	2944	X	
Taylor 125	1352	1570	-218	473	484	1071	78	697	4373	-3021	2803	X	
Taylor 138	1382	1413	-31	590	367	1164	61	734	4330	-2948	2917	X	
Taylor 139	1611	1394	+217	433	568	1008	86	631	4120	-2509	2726	X	
Taylor 165	1402	1471	-69	449	522				4250	-2848	2779	X	
Taylor 167	1363	1134	+229									X	
Taylor 168	1677	1696	-19	470	488	1139	79	654	4526	-2849	2830	X	
Taylor 169	1656	1714	-58	490	509	1066	82	667	4528	-2872	2814	X	
Taylor 170	1560	1274	+286	454	607	962	85	611	3993	-2433	2719	X	
Taylor 174	1574	1431	+143	450	608	968	96	635	4188	-2614	2757	X	
Taylor 177	1575	1288	+287	448	616	962	84	626	4024	-2449	2736	X	
Taylor 183	1712	1571	+141						4310	-2598	2739	X	
Taylor 237	1217	1553	-336	590	374	1161	62	744	4484	-3267	2931	X	
Taylor 240	1259	1427	-168	614	376	1167	59	870	4513	-3254	3086	X	X



County Permit #	EL	GB	SGB	P	H	SS	BR	R	BN	SBN	TI	L	F
Tucker 42 P	2685	196	+2489	283	804	805	113	448	2648	-37	2452	X	
Upshur 123	1427	1488	-61						3935	-2508	2447	X	
Upshur 538	1424	1747	-323					707	4297	-2873	2550	X	
Upshur 575	1495	1920	-425	217					4370	-2875	2450	X	
Upshur 601								670				X	
Upshur 610	1467	1850	-383	217	475	1036	90	652	4330	-2863	2480	X	
Upshur 623	1484	1646	-162			928	76	661	4067	-2583	2421	X	
Upshur 628	1433	1895	-462	209	416				4458	-3025	2563	X	X
Upshur 668	1522	2037	-515	243	406	1100	62	681	4529	-3007	2492	X	
Upshur 680	1605	1701	-96			1256	48	630	4156	-2551	2455	X	
Upshur 683	1547	1937	-390	267	443	1023	82	687	4439	-2892	2502	X	
Upshur 686	1494	1679	-185						4117	-2623	2438	X	
Upshur 699	1250	1373	-123						3819	-2569	2446	X	
Upshur 724	1508	1620	-112	223					4034	-2526	2414	X	
Upshur 748	1573	2045	-472	205	466	1132	52	651	4551	-2978	2506	X	
Upshur 759	1516	1648	-132						4040	-2524	2392	X	
Upshur 799	1839	1485	+354	202					3966	-2127	2481	X	
Upshur 820	1533	1618	-85	196	537	932	76	664	4023	-2490	2405	X	
Upshur 821	1606	2047	-441	299	399	1091	84	706	4626	-3020	2579	X	
Upshur 822	1426	1158	+268	202	549	956	95	629	3589	-2163	2431	X	
Upshur 871	1422	1672	-250	188	443	1106	63	674	4146	-2724	2474	X	
Upshur 876	1678	1215	+463	197	540	993	77	687	3709	-2031	2494	X	
Upshur 882	1577	2091	-514	279	396	1082	63	705	4616	-3039	2525	X	
Upshur 884	1658	2096	-438	314	393	1126	52	699	4680	-3022	2584	X	
Upshur 1037	1953	1403	+550						3820	-1867	2417	X	
Upshur 1220	1587	1382	+205	138	542	924	71	646	3703	-2116	2321	X	
Upshur 1229	1862	1432	+430	186					3937	-2075	2505	X	
Upshur 1265	2015	1299	+716						3596	-1581	2297	X	
Upshur 1279	1810	1232	+578	186	558	970	67	604	3617	-1807	2385	X	
Upshur 1286	2067	1383	+684	138	531	965	63	613	3693	-1626	2310	X	
Upshur 1293	1756	1474	+282						3923	-2167	2449	X	
Upshur 1314	1810	1269	+541	129	535	950	75	650	3608	-1798	2339	X	
Upshur 1318	1885	1496	+389	145	533	962	58	651	3845	-1960	2349	X	

County Permit #	EL	GB	SGB	P	H	SS	BR	R	BN	SBN	TI	L	F
Upshur 1326	1669	1286	+383	173	558	969	71	759	3816	-2147	2530	X	
Upshur 1339	2101	1351	+750					653	3757	-1656	2406	X	
Upshur 1341	1930	1234	+696	130					3527	-1597	2293	X	
Upshur 1359	1520	1579	-59	157					3970	-2450	2391	X	
Upshur 1388	1808	1551	+257					645	3860	-2052	2309	X	
Upshur 1403	1804	1486	+318	125	498	976	67	672	3824	-2020	2338	X	
Upshur 1415	1999	1376	+623					632	3704	-1705	2328	X	
Upshur 1416	1802	1420	+382					714	3690	-1888	2270	X	
Upshur 1439	1770	1448	+322						3740	-1970	2292	X	
Upshur 1468	1835	1294	+541	140					3684	-1849	2390	X	
Upshur 1470	1453	1452	+1	154				685	3887	-2434	2435	X	
Upshur 1514	1705	1475	+230			962	57	657	3852	-2147	2377	X	
Upshur 1529	1772	1537	+235						4000	-2228	2463	X	
Upshur 1566	2134	1517	+617	193	542	975	71	612	3910	-1776	2393	X	
Upshur 1572	1785	1438	+347	158	525	1013	55	652	3841	-2056	2403	X	
Upshur 1573	1703	1523	+180	135	512	964	55	661	3850	-2147	2327	X	
Upshur 1574	2155	1586	+569	86	542	936	60	591	3801	-1646	2215	X	
Upshur 1589	2162	1611	+551						3906	-1744	2295	X	
Upshur 1592	2068	1463	+605	187	431				3700	-1632	2237	X	
Upshur 1594	1877	1356	+521	183	457	912	59	585	3552	-1675	2196	X	
Upshur 1599	2542	1594	+948	168	508	926	67	570	3833	-1291	2239	X	
Upshur 1613	2339	1691	+648	159	490	917	65	594	3916	-1577	2225	X	
Upshur 1616	1554	1585	-31	175	434	1048	75	660	3977	-2423	2392	X	
Upshur 1676	1776	1433	+343	114	548	935	70	612	3712	-1936	2279	X	
Upshur 1677	2156	1470	+686	122	536	938	67	594	3727	-1571	2257	X	
Upshur 1799	2131	1388	+796	162	533	940	79	604	3706	-1575	2318	X	
Upshur 1853	1872	1468	+404	150	482	937	67	621	3725	-1853	2272	X	
Upshur 2154	2087	1339	+748	171	540	960	72	588	3670	-1583	2331	X	
Upshur 2210	1600	1262	+338	148	543	974	66	636	3629	-2029	2367	X	
Upshur 2316	1908	1543	+365	143	498	950	54	628	3816	-1908	2273	X	
Upshur 2340	2169	1763	+406	135	532	946	57	640	4073	-1904	2310	X	
Upshur 2364	2330	1224	+1106						3498	-1168	2274	X	
Upshur 2393	2370	1209	+1161	145	527	986	73	538	3478	-1108	2269	X	
Upshur 2450	2614	1273	+1341					536	3459	-845	2186	X	