

Compiled by Thomas R. Stephenson, Alan J. VerPloeg
and Lori S. Chamberlain

This geological map of the Fort Worth area, Texas, illustrates the complex geological structure of the region. Key features include:

- Basins:** The map identifies several major basins, including the **WIND RIVER BASIN**, **RED DESERT BASIN**, **GREEN RIVER BASIN**, **VAIRKATE BASIN**, **PLAINS BASIN**, **RAIDERS BASIN**, **POWDER RIVER BASIN**, **BRISTOL BASIN**, and **WENYEA BASIN**.
- Geological Formations:** Various geological units are labeled, such as the **WIND RIVER FORMATION**, **RED DESERT FORMATION**, **GREEN RIVER FORMATION**, **VAIRKATE FORMATION**, **PLAINS FORMATION**, **RAIDERS FORMATION**, **POWDER RIVER FORMATION**, **BRISTOL FORMATION**, and **WENYEA FORMATION**.
- Structural Features:** The map shows numerous faults, including the **WIND RIVER FAULT**, **RED DESERT FAULT**, **GREEN RIVER FAULT**, **VAIRKATE FAULT**, **PLAINS FAULT**, **RAIDERS FAULT**, **POWDER RIVER FAULT**, **BRISTOL FAULT**, and **WENYEA FAULT**.
- Topography:** The map includes contour lines and labels for various peaks and ridges, such as **WIND RIVER PEAK**, **RED DESERT PEAK**, **GREEN RIVER PEAK**, **VAIRKATE PEAK**, **PLAINS PEAK**, **RAIDERS PEAK**, **POWDER RIVER PEAK**, **BRISTOL PEAK**, and **WENYEA PEAK**.
- Water Features:** The **WIND RIVER RIVER** and **POWDER RIVER** are shown flowing through the region.
- Infrastructure:** The map also depicts major roads and railroads, including **U.S. HIGHWAY 70**, **U.S. HIGHWAY 121**, **U.S. HIGHWAY 138**, **U.S. HIGHWAY 160**, **U.S. HIGHWAY 177**, **U.S. HIGHWAY 180**, **U.S. HIGHWAY 181**, **U.S. HIGHWAY 182**, **U.S. HIGHWAY 183**, **U.S. HIGHWAY 184**, **U.S. HIGHWAY 185**, **U.S. HIGHWAY 186**, **U.S. HIGHWAY 187**, **U.S. HIGHWAY 188**, **U.S. HIGHWAY 189**, **U.S. HIGHWAY 190**, **U.S. HIGHWAY 191**, **U.S. HIGHWAY 192**, **U.S. HIGHWAY 193**, **U.S. HIGHWAY 194**, **U.S. HIGHWAY 195**, **U.S. HIGHWAY 196**, **U.S. HIGHWAY 197**, **U.S. HIGHWAY 198**, **U.S. HIGHWAY 199**, **U.S. HIGHWAY 200**, **U.S. HIGHWAY 201**, **U.S. HIGHWAY 202**, **U.S. HIGHWAY 203**, **U.S. HIGHWAY 204**, **U.S. HIGHWAY 205**, **U.S. HIGHWAY 206**, **U.S. HIGHWAY 207**, **U.S. HIGHWAY 208**, **U.S. HIGHWAY 209**, **U.S. HIGHWAY 210**, **U.S. HIGHWAY 211**, **U.S. HIGHWAY 212**, **U.S. HIGHWAY 213**, **U.S. HIGHWAY 214**, **U.S. HIGHWAY 215**, **U.S. HIGHWAY 216**, **U.S. HIGHWAY 217**, **U.S. HIGHWAY 218**, **U.S. HIGHWAY 219**, **U.S. HIGHWAY 220**, **U.S. HIGHWAY 221**, **U.S. HIGHWAY 222**, **U.S. HIGHWAY 223**, **U.S. HIGHWAY 224**, **U.S. HIGHWAY 225**, **U.S. HIGHWAY 226**, **U.S. HIGHWAY 227**, **U.S. HIGHWAY 228**, **U.S. HIGHWAY 229**, **U.S. HIGHWAY 230**, **U.S. HIGHWAY 231**, **U.S. HIGHWAY 232**, **U.S. HIGHWAY 233**, **U.S. HIGHWAY 234**, **U.S. HIGHWAY 235**, **U.S. HIGHWAY 236**, **U.S. HIGHWAY 237**, **U.S. HIGHWAY 238**, **U.S. HIGHWAY 239**, **U.S. HIGHWAY 240**, **U.S. HIGHWAY 241**, **U.S. HIGHWAY 242**, **U.S. HIGHWAY 243**, **U.S. HIGHWAY 244**, **U.S. HIGHWAY 245**, **U.S. HIGHWAY 246**, **U.S. HIGHWAY 247**, **U.S. HIGHWAY 248**, **U.S. HIGHWAY 249**, **U.S. HIGHWAY 250**, **U.S. HIGHWAY 251**, **U.S. HIGHWAY 252**, **U.S. HIGHWAY 253**, **U.S. HIGHWAY 254**, **U.S. HIGHWAY 255**, **U.S. HIGHWAY 256**, **U.S. HIGHWAY 257**, **U.S. HIGHWAY 258**, **U.S. HIGHWAY 259**, **U.S. HIGHWAY 260**, **U.S. HIGHWAY 261**, **U.S. HIGHWAY 262**, **U.S. HIGHWAY 263**, **U.S. HIGHWAY 264**, **U.S. HIGHWAY 265**, **U.S. HIGHWAY 266**, **U.S. HIGHWAY 267**, **U.S. HIGHWAY 268**, **U.S. HIGHWAY 269**, **U.S. HIGHWAY 270**, **U.S. HIGHWAY 271**, **U.S. HIGHWAY 272**, **U.S. HIGHWAY 273**, **U.S. HIGHWAY 274**, **U.S. HIGHWAY 275**, **U.S. HIGHWAY 276**, **U.S. HIGHWAY 277**, **U.S. HIGHWAY 278**, **U.S. HIGHWAY 279**, **U.S. HIGHWAY 280**, **U.S. HIGHWAY 281**, **U.S. HIGHWAY 282**, **U.S. HIGHWAY 283**, **U.S. HIGHWAY 284**, **U.S. HIGHWAY 285**, **U.S. HIGHWAY 286**, **U.S. HIGHWAY 287**, **U.S. HIGHWAY 288**, **U.S. HIGHWAY 289**, **U.S. HIGHWAY 290**, **U.S. HIGHWAY 291**, **U.S. HIGHWAY 292**, **U.S. HIGHWAY 293**, **U.S. HIGHWAY 294**, **U.S. HIGHWAY 295**, **U.S. HIGHWAY 296**, **U.S. HIGHWAY 297**, **U.S. HIGHWAY 298**, **U.S. HIGHWAY 299**, **U.S. HIGHWAY 300**, **U.S. HIGHWAY 301**, **U.S. HIGHWAY 302**, **U.S. HIGHWAY 303**, **U.S. HIGHWAY 304**, **U.S. HIGHWAY 305**, **U.S. HIGHWAY 306**, **U.S. HIGHWAY 307**, **U.S. HIGHWAY 308**, **U.S. HIGHWAY 309**, **U.S. HIGHWAY 310**, **U.S. HIGHWAY 311**, **U.S. HIGHWAY 312**, **U.S. HIGHWAY 313**, **U.S. HIGHWAY 314**, **U.S. HIGHWAY 315**, **U.S. HIGHWAY 316**, **U.S. HIGHWAY 317**, **U.S. HIGHWAY 318**, **U.S. HIGHWAY 319**, **U.S. HIGHWAY 320**, **U.S. HIGHWAY 321**, **U.S. HIGHWAY 322**, **U.S. HIGHWAY 323**, **U.S. HIGHWAY 324**, **U.S. HIGHWAY 325**, **U.S. HIGHWAY 326**, **U.S. HIGHWAY 327**, **U.S. HIGHWAY 328**, **U.S. HIGHWAY 329**, **U.S. HIGHWAY 330**, **U.S. HIGHWAY 331**, **U.S. HIGHWAY 332**, **U.S. HIGHWAY 333**, **U.S. HIGHWAY 334**, **U.S. HIGHWAY 335**, **U.S. HIGHWAY 336**, **U.S. HIGHWAY 337**, **U.S. HIGHWAY 338**, **U.S. HIGHWAY 339**, **U.S. HIGHWAY 340**, **U.S. HIGHWAY 341**, **U.S. HIGHWAY 342**, **U.S. HIGHWAY 343**, **U.S. HIGHWAY 344**, **U.S. HIGHWAY 345**, **U.S. HIGHWAY 346**, **U.S. HIGHWAY 347**, **U.S. HIGHWAY 348**, **U.S. HIGHWAY 349**, **U.S. HIGHWAY 350**, **U.S. HIGHWAY 351**, **U.S. HIGHWAY 352**, **U.S. HIGHWAY 353**, **U.S. HIGHWAY 354**, **U.S. HIGHWAY 355**, **U.S. HIGHWAY 356**, **U.S. HIGHWAY 357**, **U.S. HIGHWAY 358**, **U.S. HIGHWAY 359**, **U.S. HIGHWAY 360**, **U.S. HIGHWAY 361**, **U.S. HIGHWAY 362**, **U.S. HIGHWAY 363**, **U.S. HIGHWAY 364**, **U.S. HIGHWAY 365**, **U.S. HIGHWAY 366**, **U.S. HIGHWAY 367**, **U.S. HIGHWAY 368**, **U.S. HIGHWAY 369**, **U.S. HIGHWAY 370**, **U.S. HIGHWAY 371**, **U.S. HIGHWAY 372**, **U.S. HIGHWAY 373**, **U.S. HIGHWAY 374**, **U.S. HIGHWAY 375**, **U.S. HIGHWAY 376**, **U.S. HIGHWAY 377**, **U.S. HIGHWAY 378**, **U.S. HIGHWAY 379**, **U.S. HIGHWAY 380**, **U.S. HIGHWAY 381**, **U.S. HIGHWAY 382**, **U.S. HIGHWAY 383**, **U.S. HIGHWAY 384**, **U.S. HIGHWAY 385**, **U.S. HIGHWAY 386**, **U.S. HIGHWAY 387**, **U.S. HIGHWAY 388**, **U.S. HIGHWAY 389**, **U.S. HIGHWAY 390**, **U.S. HIGHWAY 391**, **U.S. HIGHWAY 392**, **U.S. HIGHWAY 393**, **U.S. HIGHWAY 394**, **U.S. HIGHWAY 395**, **U.S. HIGHWAY 396**, **U.S. HIGHWAY 397**, **U.S. HIGHWAY 398**, **U.S. HIGHWAY 399**, **U.S. HIGHWAY 400**, **U.S. HIGHWAY 401**, **U.S. HIGHWAY 402**, **U.S. HIGHWAY 403**, **U.S. HIGHWAY 404**, **U.S. HIGHWAY 405**, **U.S. HIGH**

PREDOMINANT AGE OF PRODUCTION (Where a field produces from more than one age, only the age of predominant production is shown.)	
TERTIARY	TERCERO Y MAS SIG.
UPPER CRETACEOUS	REFINERY (Notation in operator and capacity in barrels per day. Locations are approximate.)
MIDDLE CRETACEOUS	AMCOCK WIDE
LOWER CRETACEOUS	GAS PROCESSING PLANT (Notation in operator and capacity in millions of cubic feet per day. Location is approximate.)
JURASSIC	FUTIFOLDS (Notation in operator, age and direction of flow)
PERMIAN-PYRENEAN	BELLE FOURCHE " OIL
WURTEMBERGIAN	GAS
CARBONIFEROUS	COLORADO INTERSTATE PIPE
MISSISSIPPIAN DEVONIAN- GREENOVIAN-CARBONIFEROUS	" ENGLAND " PRODUCTS
FIELD DESIGNATIONS	
(A) Abandoned field	(HO) Heavy oil
(CAR) Air injection project	(IS) In situ steam
(E) Eased production	(L) Gas or LFG waste
(G) Gas injection project	(S) Shut-in field
(H) Steam injection project	(T) Turbine project
(W) Waterflood project	(W) Wasteland project

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[illegible]

**OIL SHALE-
BEARING STRATA**

The oil shale occurs in the Fort Union Formation, which is exposed in the southern portion of the Big Horn Basin (J.D. Love, personal communication, 1984), and the Wagon Bed Formation in the Lytle and Eagle basins, T-81-N22, R-89-2W. (Boyer, 1969), all oil shale is in petroleumuliferous beds of oil shale. The U.S. Geological Survey estimates that there are approximately 100 billion barrels in stock of three gallons per acre on average in the River and Washukie Basins (Brody and Pratt, 1973, p. 3).

[illegible]

Base map modified from U.S. Geological Survey
1986 edition