

Figure 26. Extent of the Laredo aquifer outcrop, subsurface extent of the aquifer, and depth of water level in wells, 1996-97.

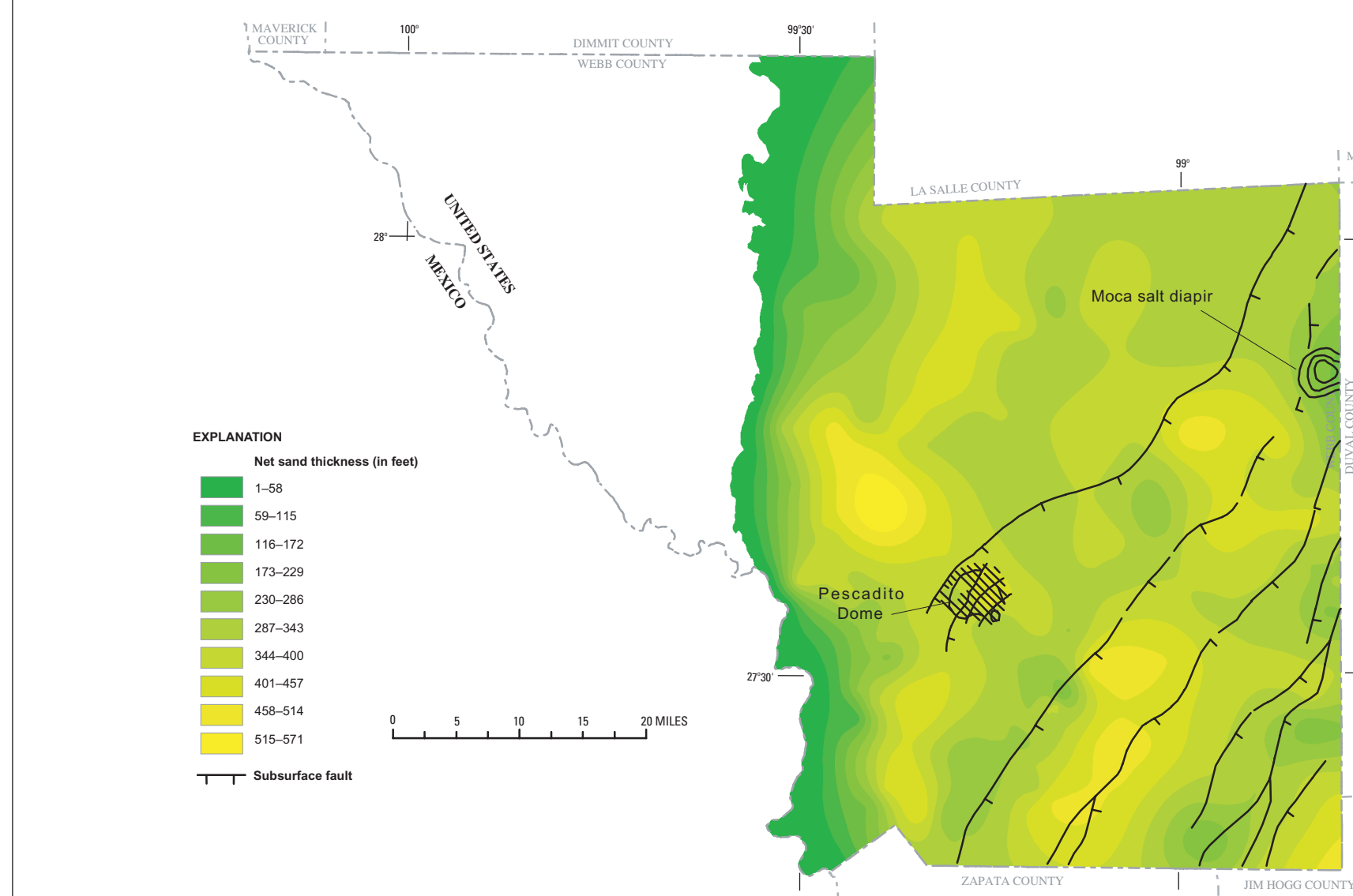


Figure 29. Net sand thickness of the Laredo aquifer.

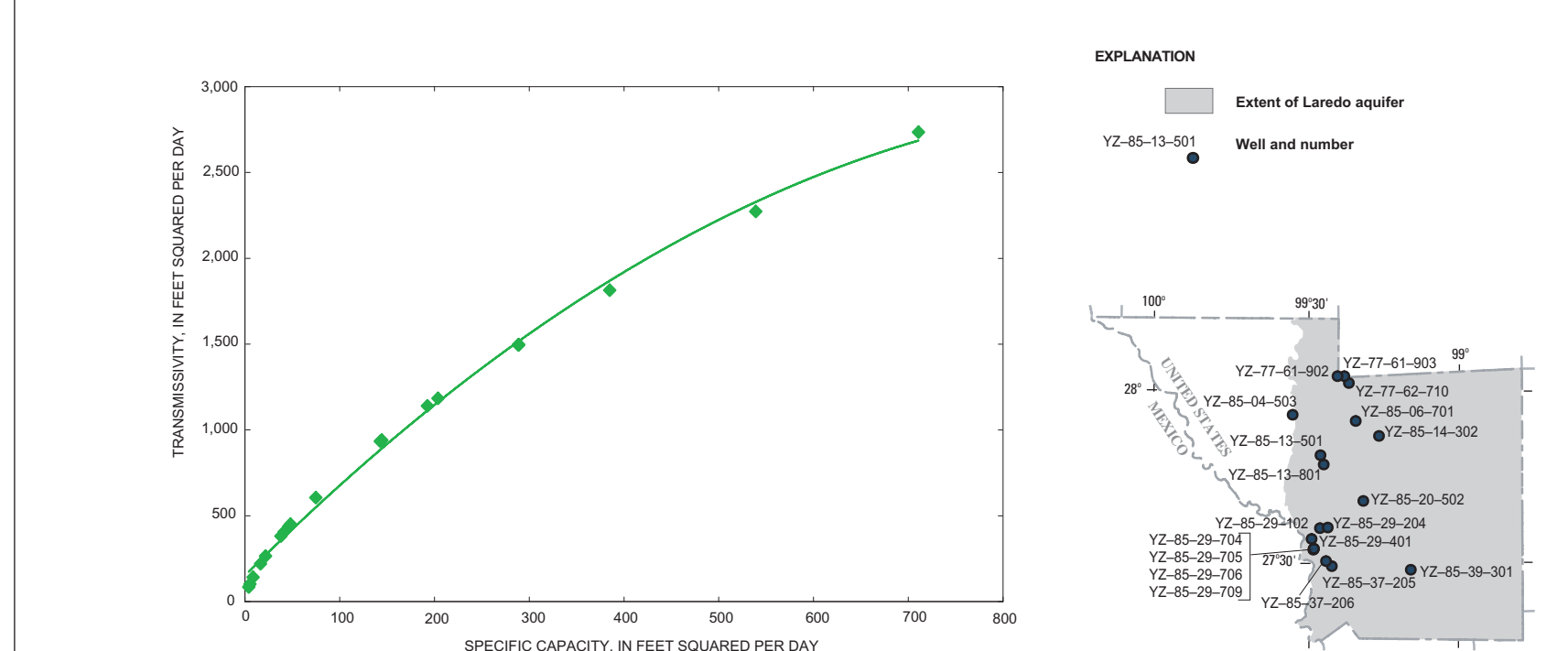


Figure 30. Specific capacity and estimated transmissivity of the Laredo aquifer.

Table 5. Water quality of the Laredo aquifer

[ft, feet; gal/min, gallons per minute; µS/cm, micromhos per centimeter at 25 °C; °C, degrees Celsius; mg/L, milligrams per liter; NTU, nephelometric turbidity units; --, not available; < 5 less than; µg/L, micrograms per liter]

Sampled well number (fig. 2)	USGS station number	State well number	Aquifer	Sample date	Depth of well (ft)	Flow rate (gal/min)	Specific conductance (µS/cm)	pH (field)	Water temperature (°C)	Dissolved solids, residue at 180 °C (mg/L)	Turbidity (NTU)	Hardness, total (mg/L as CaCO ₃)
2	28015209240001	YZ-75-61-002	Laredo	01/16/1998	520	50	1,160	7.1	26.9	740	3.5	350
3	28004009201001	YZ-75-62-710	Laredo	01/16/1998	600	10	1,270	7.4	28.5	856	2.0	270
7	27515709030101	YZ-85-12-301	Laredo	09/18/1997	301	12	1,590	7.1	29.0	1,040	74	350
8	27523309233301	YZ-85-13-301	Laredo	01/29/1998	502	20	2,613	8.3	27.9	1,470	1.0	180
9	27530909222101	YZ-85-06-002	Laredo	01/29/1998	400	5	3,753	8.5	28.5	2,400	28	43
10	27531209132001	YZ-85-07-201	Laredo	03/04/1998	1,200	5	3,230	8.4	27.0	2,000	22	90
11	27515209155001	YZ-85-14-302	Laredo	02/04/1998	1,200	15	2,940	8.7	29.0	1,740	30	8.0
12	27479009272101	YZ-85-13-501	Laredo	03/04/1998	520	15	3,600	7.0	28.5	2,610	7.1	890
13	27463009262401	YZ-85-13-801	Laredo	01/29/1998	550	15	3,350	7.0	27.5	2,400	40	660
14	27488009223101	YZ-85-14-401	Laredo	01/29/1998	--	20	4,820	8.1	27.5	2,910	45	60
15	27483009203401	YZ-85-14-402	Laredo	02/04/1998	--	1.5	3,860	8.4	28.0	2,380	40	22
16	27482009190001	YZ-85-14-501	Laredo	01/29/1998	500	20	3,010	8.7	29.5	2,260	15	15
18	27461209184101	YZ-85-30-002	Laredo	03/04/1998	240	7	3,160	7.5	27.5	2,100	12	240
20	27412009261301	YZ-85-21-502	Laredo	09/17/1997	452	30	4,230	8.2	29.5	2,520	30	47
21	27531099274101	YZ-85-29-102	Laredo	09/03/1997	800	--	3,204	8.8	30.0	2,010	14	14
22	27531099260401	YZ-85-29-204	Laredo	03/03/1998	710	15	1,840	8.9	28.7	1,130	12	7.0
23	27531099291701	YZ-85-29-401	Laredo	03/03/1998	300	30	2,200	8.9	27.1	1,310	16	7.0
24	27514009285401	YZ-85-29-706	Laredo	09/17/1997	235	20	2,120	8.7	28.0	1,280	14	9.0
25	27514009284801	YZ-85-29-709	Laredo	01/14/1998	440	167	1,970	8.8	27.5	1,250	15	8.0
26	27294009262001	YZ-85-12-206	Laredo	09/17/1997	370	11	3,210	8.5	28.5	1,970	40	11
27	27294009251601	YZ-85-37-305	Laredo	03/03/1998	290	8	3,668	7.6	27.2	2,430	18	240
28	27345009179001	YZ-85-30-501	Laredo	11/12/1997	500	20	5,450	8.1	29.5	4,000	20	100
29	27274009160701	YZ-85-30-201	Laredo	03/03/1998	900	2	4,170	8.5	27.5	2,170	14	9.0
30	27281309093901	YZ-85-39-301	Laredo	11/13/1997	1,250	40	4,435	8.4	39.0	2,840	16	7.0

Sampled well number (fig. 2)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sulfate, dissolved (mg/L as SO ₄)	Sulfate percentage	Potassium, dissolved (mg/L as K)	Alkalinity (mg/L as CaCO ₃)	Bicarbonate, dissolved (mg/L as HCO ₃)	Sulfate, dissolved (mg/L as SO ₄)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)
2	90	29	174	5.0	45	6.0	251	306	192	121	0.60
3	58	30	150	5.0	58	6.7	227	277	296	100	0.62
7	91	30	210	5.0	57	5.4	276	336	345	140	0.90
8	44	44	422	14	83	6.0	80	108	412	441	35
9	13	2.4	819	55	97	2.5	213	260	900	461	38
10	3.0	3.7	691	100	99	1.3	295	360	527	510	72
11	2.8	19	630	98	99	1.4	240	294	363	530	30
12	104	494	494	7	15	11	3,210	8.5	28.5	1,970	40
13	170	55	510	9	62	11	237	290	924	430	70
14	17	3.9	970	55	97	3.0	230	283	569	1,000	40
15	6.9	1.1	650	80	99	1.7	300	367	607	670	40
16	5.0	4.8	750	86	99	1.5	163	199	842	490	30
18	47	28	699	20	86	5.1	417	508	965	180	1.1
20	13	3.6	830	53	97	2.8	280	341	672	730	1.2
21	4.3	62	670	79	99	1.4	241	294	601	490	70
22	2.1	35	401	68	99	39	305	372	306	184	57
23	2.3	30	476	79	99	39	265	323	318	294	30
24	2.3	30	476	79	99	39	265	323	318	294	30
25	2.3	30	476	79	99	39	265	323	318	294	30
26	2.2	1.1	730	99	99	1.8	694	846	303	440	1.9
27	58	22	769	92	87	6.6	192	234	740	702	28
28	21	12	1,300	56	96	5.6	294	358	1,440	750	20
29	2.4	72	982	140	99	1.9	710	865	512	580	2.0
30	1.5	69	1,000	170	100	2.1	1,006	1,226	354	710	2.1

Sampled well number (fig. 2)	Silica, dissolved (mg/L as Si)	Nitrogen, nitrate, dissolved (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Nitrogen, organic + ammonia, dissolved (mg/L as N)	Nitrogen, organic, dissolved (mg/L as N)	Phosphorus, dissolved (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Phosphorus, dissolved (mg/L as P)	Aluminum, dissolved (mg/L as Al)
2	21	<0.01	0.08	0.10	0.08	<0.1	--	<0.01	0.01	0.04	4.4
3	19	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
7	22	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
8	11	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
9	11	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
10	15	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
11	15	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
12	18	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
13	20	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
14	12	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
15	13	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
16	13	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
18	18	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
20	12	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
21	13	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
22	14	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
23	13	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
24	12	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
25	12	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
26	12	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
27	16	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
28	15	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
29	17	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0
30	17	<0.01	0.08	0.06	0.06	<0.1	--	<0.01	0.01	0.03	4.0

Sampled well number (fig. 2)	Antimony, dissolved (µg/L as Sb)	Arsenic, dissolved (µg/L as As)	Barium, dissolved (µg/L as Ba)	Beryllium, dissolved (µg/L as Be)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Iron, dissolved (µg/L as Fe)	Lead, dissolved (µg/L as Pb)
2	<1	<1	28	<1	681	<1	5.6	<1	<1	364	<1
3	<1	<1	27	<1	776	<1	4.1	<1	<1	248	<1
7	<1	<1	20	<1	671	<1	1.5	<1	<1	180	9.5
8	<1	<1	24	<1	2,067	<1	2.0	<1	<1	362	<2
9	<1	<1	13	<1	1,430	<1	2.8	<1	<1	211	<2
10	<1	<1	23	<1	1,608	<1	3.3	<1	<1	43	<2
11	<1	<1	19	<1	1,170	<1	3.3	<1	<1	<30	<2
12	<1	<1	12	<1	1,116	<1	2.5	<1	<1	791	<2
13	<1	<1	18	<1	1,510	<1	<2.0	<1	<1	130	<2
14	<1	<1	18	<1	1,480	<1	<2.0	<1	<1	230	<2
15	<1	<1	18	<1	1,480	<1	<2.0	<1	<1	230	<2
16	<1	<1	13	<1	1,500	<1	<2.0	<1	<1	<30	<2
18	<1	<1	13	<1	4,203	<1	<2.0	<1	<1	396	<2
20	<1	<1	19	<1	3,740	<1	2.3	<1	<1	140	<2
21	<1	<1	16	<1	1,060	<1	<2.0	<1	<1	<10	<1
22	<1	<1	21	<1	1,206	<1	5.9	<1	<1	<10	<1
23	<1	<1	16	<1	1,430	<1	3.6	<1	<1	<30	<1
24	<1	<1	15	<1	1,250	<1	<1.0	<1	<1	<10	<1
25	<1	<1	17	<1	1,300	<1	5.3	<1	<1	<30	<1
26	<1	<1	20	<1	2,820	<1	6.2	<1	<1	130	<2
27	<1	<1	23	<1	1,569	<1	2.9	<1	<1	<30	<2
28	<1	<1	14	<1	2,450	<1	<1.0	<1	<1	900	<1
29	<1	<1	30	<1	2,885	<1	9.3	<1	<1	32	<2
30	<1	<1	44	<1	3,929	<1	4.7	<1	<1	21	<2