

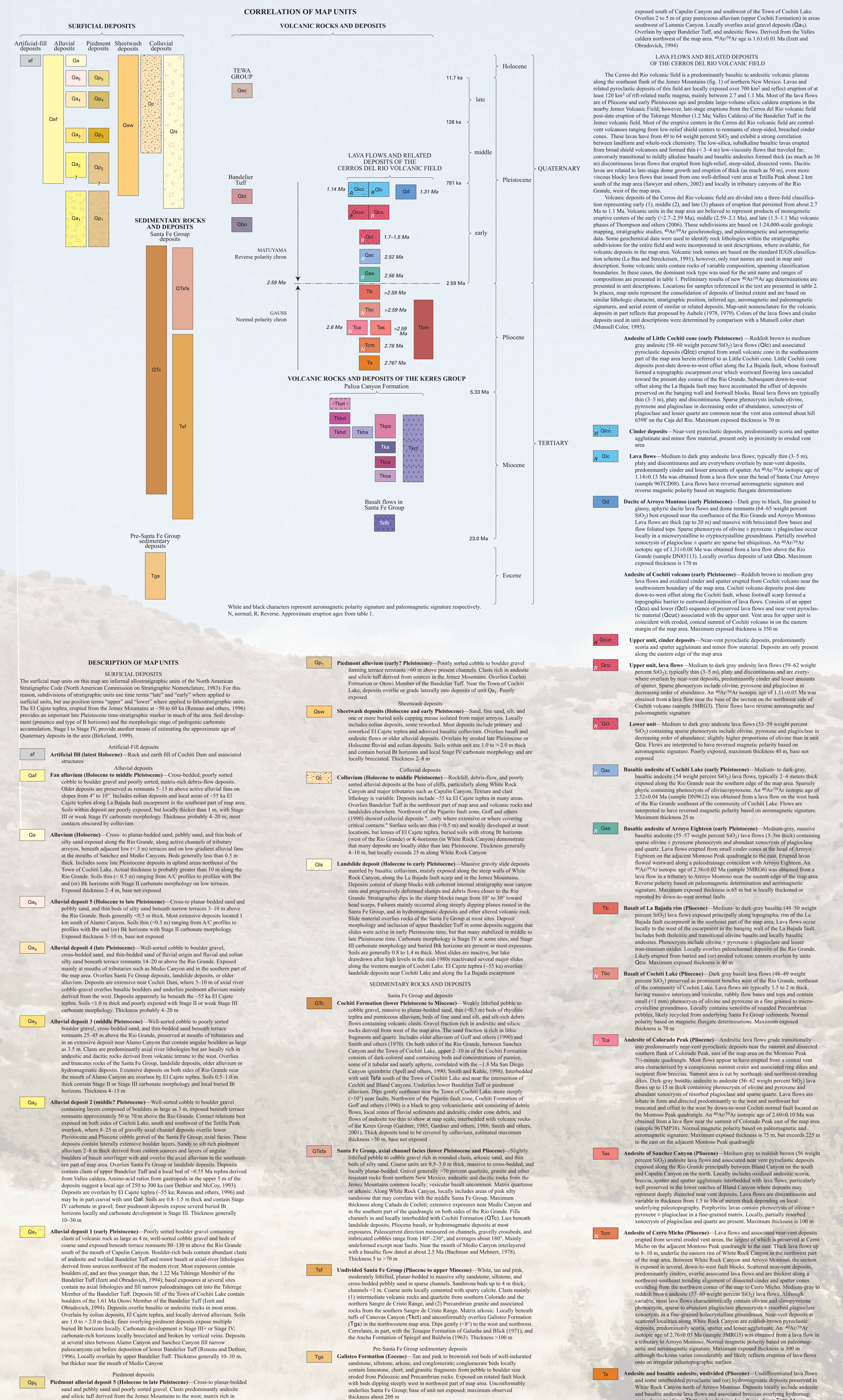


Holocene/Quaternary sediments
Paleozoic/Precambrian basaltic volcanic rocks
Proterozoic/Mesozoic volcanic rocks
Lower Paleozoic/Paleoproterozoic rocks
Proterozoic rocks

① Fault-line and -dashed line
 ② Reverse Fault-Downdip where concealed
 ③ Intersecting highway

Figure 2. Landsat 7 satellite image (10 m band 7-4-2 merged with 15-m band 9 acquired on October 14, 1999) of Corral del Rio, Mexico area (image clip from Google Earth, 2004), showing rock geologic features and geographic names. Yellow rectangle is the boundary of the Cuchilla Durán 5-minute UTM grid.

Figure 1 Location map and general geology of the Española Basin, adjacent basins, and volcanic fields of the Rio Grande rift. Geology modified from Garbino and others (2003). (a) 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6900, 6910, 6920, 6930, 6



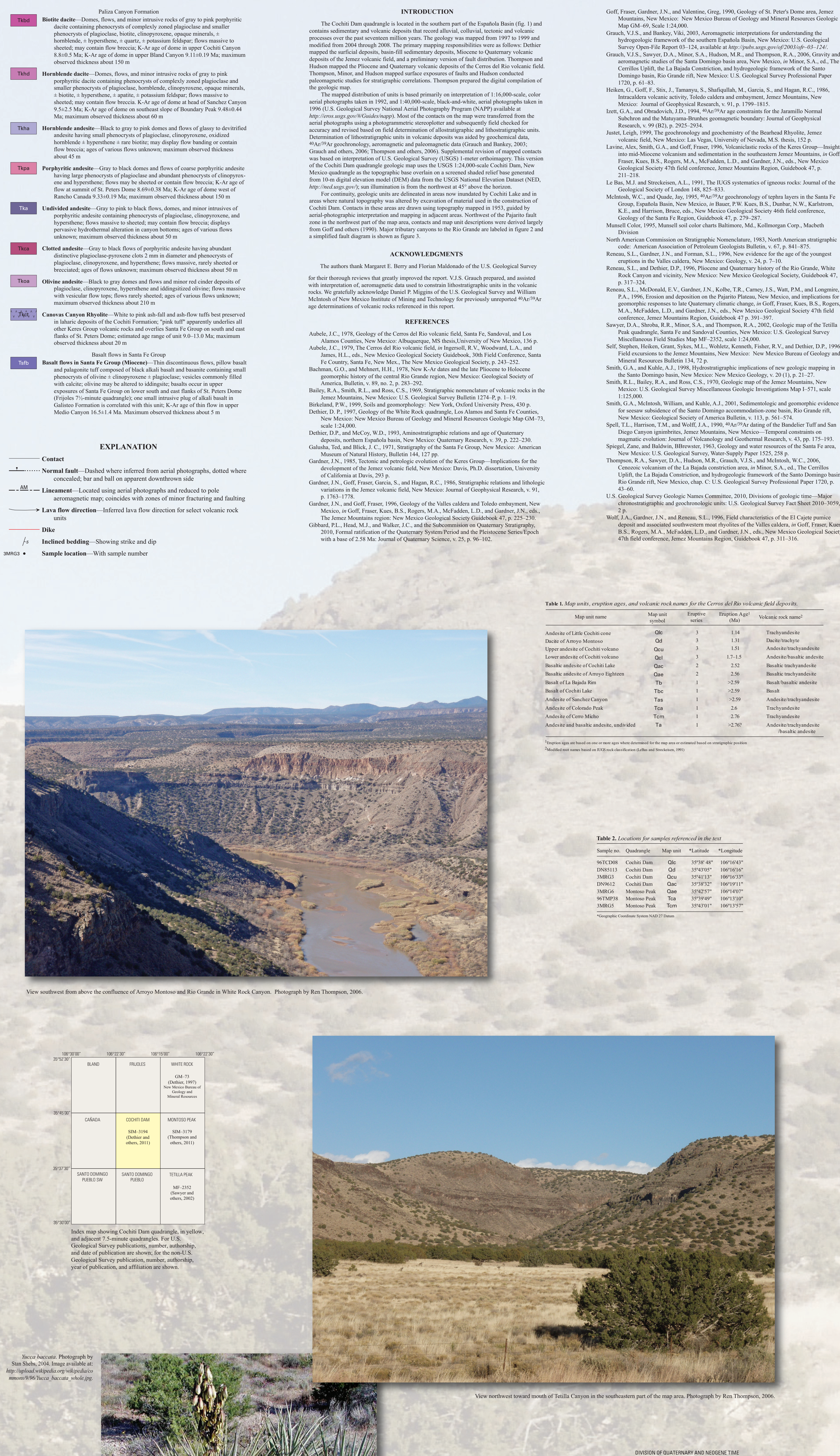
<p>thin fragments and quartz. Deposits 0.5–4.0 m thick exposed beneath surface 2–10 m above Rio Chichil and are interpreted as being derived from the Rio Chichil. Boulders generally <0.5 m thick, and some are thin (<0.1 m) eroded from AC pebbles to pebbles with thin and/or (or) BK horizons with Stage II carbonate. Exposed thickness is 10 m, has not exposed</p>	<p style="text-align: center;">VOLCANIC CANALS AND DEPOSITS</p> <p style="text-align: center;">Tea Group</p> <p>The Pirajito Plateau (Site of southeastern Jemez Mountains) (Fig. 1) is underlain by the Osope (200) and Tishere (201) members of the Pleistocene Bandelier Tuff, eroded during clowps of debris flows and debris fans.</p>
	<p style="text-align: right;">Tan</p> <p>Hydrothermal deposits (Placitas) include massive thin, orange, and dark gray deposits composed of basaltic tuff and ash, accreted fragmental of the Santa Fe Group and thin (<10 m), interbedded clayey beds. Thick exposures are</p>

[illegible][illegible][illegible]


Older Member of Bandelier Tuff (Yellowstone)—While in pink, somewhat
 thetic and blue to green, it is laminated to poorly sorted coarse panoplastic
 in a thick bed. It is composed of coarse-grained, subvolcanic
 andesite, quartz, quartz phenocrysts, plagioclase, and
 some minor volcanic debris. The older member consists
 of a lower bed of andesite and a lower bed of andesite
 in 30 m. Later, igneous fragments are more abundant than in older beds.

Geologic Map of the Cochiti Dam Quadrangle, Sandoval County, New Mexico

By
David P. Dethier, Ren A. Thompson, Mark R. Hudson, Scott A. Minor, and David A. Sawyer
2011



USED IN THIS REPORT		
Period or subperiod	Epoch	Age
Quaternary	Holocene	0-11.7 ka

	<p>Roadrunner Image 003062 by Gary Kahan U.S. Fish and Wildlife Service, 2006. http://www.fws.gov/sps/</p>	<table border="1"> <tr> <td>Age</td><td>112</td></tr> <tr> <td>Sex</td><td>100-109 Ma</td></tr> <tr> <td>Phenotype</td><td>20-30 Ma</td></tr> <tr> <td>Category</td><td>20-30 Ma</td></tr> <tr> <td>Map</td><td>20-30 Ma</td></tr> <tr> <td>Notes</td><td>20-30 Ma</td></tr> <tr> <td>Measure</td><td>20-30 Ma</td></tr> <tr> <td>Measure</td><td>20-30 Ma</td></tr> </table>	Age	112	Sex	100-109 Ma	Phenotype	20-30 Ma	Category	20-30 Ma	Map	20-30 Ma	Notes	20-30 Ma	Measure	20-30 Ma	Measure	20-30 Ma
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Map	20-30 Ma																	
Notes	20-30 Ma																	
Measure	20-30 Ma																	
Measure	20-30 Ma																	

	CONVERSION FACTORS	
Miles	0.6214	Kilometers
Feet	0.3048	Meters
Yards	0.9144	Meters
Miles per hour	1.6093	Kilometers per hour
Feet per second	0.3048	Meters per second
Yards per second	0.9144	Meters per second




	2001	2002
Andersson	1,201	1,047
Johnson, J.	1,024	1,055



Publishing support provided by
 Denver Publishing Service Center
 303 and 314 Broadway, C. C. Boxer
 Building, Denver, Colorado 80202

For more information concerning this publication, contact
 Editor, denver@denverpublishing.com

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