

Zuni Mountain Springs, Mount Taylor Ranger District, Cibola National Forest

	Spring Name	Assigned Spring Name	Map Abbreviation	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
1	Unnamed	166N1	N1	-108.39537	35.33746	NAD27	Topo	2484
2	Unnamed	166N2	N2	-108.406808	35.36451	NAD27	Topo	2472
3	50N1		N1	-108.346	35.253667	NAD83	Topo	2480
4	Unnamed	Agua Remora	AR	-108.499283	35.32685	NAD27	Topo	2359
5	Alamosa Spring		Al	-108.230346	35.117534	NAD83	NHD	2562
6	Aragon Spring		Ar	-108.141731	35.034477	NAD83	NHD	2428
7	Brennan Spring		Br	-108.520912	35.348087	NAD83	NHD	2352
8	Buckmoore Spring		Bu	-108.216731	35.218786	NAD83	USFS	2448
9	Cabin Spring		Ca	-108.165247	35.188044	NAD83	USFS	2497
10	Unnamed	Camp2 Canyon	C2cA_B	-108.364389	35.212167	NAD83	Topo	2621
11	Unnamed	Camp2 Canyon2	C2c2	-108.370667	35.212972	NAD83	Topo	2577
12	Camp2 Spring		C2	-108.355417	35.228139	NAD83	Topo	2524
13	Copperton Spring		Co	-108.164867	35.140707	NAD83	USFS	2495
14	Grasshopper Spring		GH	-108.57341	35.329746	NAD83	NHD	2222
15	Gravel Pit Spring		GP	-108.592846	35.366705	NAD83	USFS	2361
16	Harris Valley Spring		HV	-108.450521	35.221967	NAD83	USFS	2335
17	Jose Ignacio Spring		Jl	-107.957873	35.047876	NAD83	NHD	2415
18	La Jara Spring		LJ	-108.050425	35.101021	NAD83	NHD	2341
19	Lava		Lava	-108.017822	35.100459	NAD83	USFS	2263
20	Lime Kiln		LK	-107.978595	35.15401	NAD83	USFS	2248
21	Little Bear Spring		LB	-108.602491	35.375104	NAD83	USFS	2386
22	Little Trough Spring		LT	-108.214508	35.110313	NAD83	NHD	2592
23	Malpais Spring		Ma	-108.019579	35.098162	NAD83	NHD	2272
24	Milk Ranch Spring		MR	-108.571464	35.452804	NAD83	NHD	2210
25	Muerto Spring		Mu	-108.3306	35.137195	NAD83	USFS	2245
26	Mule Spring		Mule	-108.198951	35.075317	NAD83	NHD	2439
27	NE Section 26 Tank		NE26	-108.281671	35.245866	NAD83	USFS	2585
28	NW Section 23 Tank		NW23	-108.297031	35.348701	NAD83	USFS	2319

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

Zuni Mountain Springs, Mount Taylor Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
1	Unnamed	15020004	Zuni	1502000402	Rio Nutria
2	Unnamed	15020006	Upper Puerco	1502000601	South Fork Puerco River
3	50N1	13020207	Rio San Jose	1302020702	Bluewater Creek
4	Unnamed	15020004	Zuni	1502000402	Rio Nutria
5	Alamosa Spring	15020004	Zuni	1502000403	Cebolla Creek-Rio Pescado
6	Aragon Spring	15020004	Zuni	1502000403	Cebolla Creek-Rio Pescado
7	Brennan Spring	15020004	Zuni	1502000402	Rio Nutria
8	Buckmoore Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
9	Cabin Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
10	Unnamed	15020004	Zuni	1502000401	Cebolla
11	Unnamed	15020004	Zuni	1502000401	Cebolla
12	Camp2 Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
13	Copperton Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
14	Grasshopper Spring	15020004	Zuni	1502000402	Rio Nutria
15	Gravel Pit Spring	15020004	Zuni	1502000402	Rio Nutria
16	Harris Valley Spring	15020004	Zuni	1502000401	Cebolla Creek
17	Jose Ignacio Spring	13020206	North Plains	1302020607	Log Cabin Canyon
18	La Jara Spring	13020207	Rio San Jose	1302020704	Upper Rio San Jose
19	Lava	13020207	Rio San Jose	1302020704	Upper Rio San Jose
20	Lime Kiln	13020207	Rio San Jose	1302020704	Upper Rio San Jose
21	Little Bear Spring	15020006	Upper Puerco	1502000605	Whitewater Arroyo
22	Little Trough Spring	15020004	Zuni	1502000403	Cebolla Creek-Rio Pescado
23	Malpais Spring	13020207	Rio San Jose	1302020704	Upper Rio San Jose
24	Milk Ranch Spring	15020006	Upper Puerco	1502000601	South Fork Puerco River
25	Muerto Spring	15020004	Zuni	1502000401	Cebolla Creek
26	Mule Spring	15020004	Zuni	1502000403	Cebolla Creek-Rio Pescado
27	NE Section 26 Tank	13020207	Rio San Jose	1302020702	Bluewater Creek
28	NW Section 23 Tank	13020207	Rio San Jose	1302020702	Bluewater Creek

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*** Geologic symbol explanation is found in Figure 4.

Zuni Mountain Springs, Mount Taylor Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
1	Unnamed	Py	Permian	sandstone	limestone
2	Unnamed	Pg	Permian	sandstone	
3	50N1	Pa	Permian	sandstone	shale
4	Unnamed	Py	Permian	sandstone	limestone
5	Alamosa Spring	Pg	Permian	sandstone	
6	Aragon Spring	Psa	Permian	carbonate	fine-grained mixed clastic
7	Brennan Spring	Psa	Permian	carbonate	fine-grained mixed clastic
8	Buckmoore Spring	Pa	Permian	sandstone	shale
9	Cabin Spring	Xp	Lower Proterozoic	plutonic rock (phaneritic)	
10	Unnamed	Pg	Permian	sandstone	
11	Unnamed	Pg	Permian	sandstone	
12	Camp2 Spring	Py	Permian	sandstone	limestone
13	Copperton Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
14	Grasshopper Spring	Jze	Jurassic	sandstone	fine-grained mixed clastic
15	Gravel Pit Spring	TRc	Triassic	medium-grained mixed clastic	fine-grained mixed clastic
16	Harris Valley Spring	TRc	Triassic	medium-grained mixed clastic	fine-grained mixed clastic
17	Jose Ignacio Spring	Psa	Permian	carbonate	fine-grained mixed clastic
18	La Jara Spring	Pa	Permian	sandstone	shale
19	Lava	Qb	Quaternary	andesite	basalt
20	Lime Kiln	Psa	Permian	carbonate	fine-grained mixed clastic
21	Little Bear Spring	Jze	Jurassic	sandstone	fine-grained mixed clastic
22	Little Trough Spring	Pg	Permian	sandstone	
23	Malpais Spring	Qb	Quaternary	andesite	basalt
24	Milk Ranch Spring	TRc	Triassic	medium-grained mixed clastic	fine-grained mixed clastic
25	Muerto Spring	Psa	Permian	carbonate	fine-grained mixed clastic
26	Mule Spring	Pg	Permian	sandstone	
27	NE Section 26 Tank	Pg	Permian	sandstone	
28	NW Section 23 Tank	TRc	Triassic	medium-grained mixed clastic	fine-grained mixed clastic

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

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	Spring Name	Assigned Spring Name	Map Abbreviation	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
29	New Well Spring		NW	-108.289271	35.216039	NAD83	USFS	2607
30	Ojitos		Oj	-108.169727	35.133989	NAD83	NHD	2478
31	Ojo Bonito		OB	-108.203399	35.106975	NAD83	NHD	2624
32	Ojo Julian Spring		OJ	-108.211241	35.150248	NAD83	USFS	2486
33	Ojo Redondo		OR	-108.109806	35.160292	NAD83	NHD	2680
34	Old Wells Spring		OW	-108.289281	35.216039	NAD83	USFS	2607
35	Pink Rose Spring		PR	-107.950369	35.06166	NAD83	NHD	2355
36	Pole Canyon Spring		PC	-108.079527	35.191183	NAD83	USFS	2443
37	Postoffice Flat Spring		PO	-108.145682	35.168312	NAD83	USFS	2596
38	Reseed Seep		Re	-108.51357	35.35408	NAD83	USFS	2384
39	Unnamed	Rim Site	RS	-108.454422	35.356736	NAD27	Topo	2479
40	Rock Spring		Rock	-108.229779	35.146774	NAD83	USFS	2501
41	Santa Fe Spring		SF	-108.574789	35.466519	NAD83	NHD	2131
42	Sawyer Spring		Sa	-108.280896	35.255169	NAD83	USFS	2551
43	Serna Spring		Se	-108.234973	35.161751	NAD83	USFS	2480
44	Sheep Lab Spring		SL	-108.571464	35.459743	NAD83	NHD	2149
45	Shuster Spring		Sh	-108.50785	35.380027	NAD83	NHD	2407
46	Sixmile Spring		6mi	-108.48722	35.424326	NAD83	NHD	2257
47	Snooter Spring		Sn	-107.959215	35.10505	NAD83	NHD	2301
48	Unnamed	Peavine	Pea	-108.346	35.275333	NAD83	Topo	2474
49	Stinking Spring		St	-108.592575	35.355026	NAD83	NHD	2319
50	Tampico Spring		Ta	-108.512005	35.347818	NAD83	USFS	2374
51	Tile Spring		Ti	-108.129748	35.175001	NAD83	USFS	2595
52	Turkey Springs		Tu	-108.523266	35.397885	NAD83	NHD	2396
53	UKN Spring 11		UKN11	-108.292155	35.199205	NAD83	USFS	2503
54	Little Water Canyon Spring		LWC	-108.242012	35.123645	NAD83	NHD	2526
55	West of Road Spring		WR	-108.065937	35.185086	NAD83	USFS	2380
56	Yellow Spring		Ye	-108.28265	35.14295	NAD83	USFS	2497

*Spring Location Protocol explanation is found in Appendix I.

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*** Geologic symbol explanation is found in Figure 4.

Zuni Mountain Springs, Mount Taylor Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
29	New Well Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
30	Ojitos	13020207	Rio San Jose	1302020702	Bluewater Creek
31	Ojo Bonito	15020004	Zuni	1502000403	Cebolla Creek-Rio Pescado
32	Ojo Julian Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
33	Ojo Redondo	13020207	Rio San Jose	1302020702	Bluewater Creek
34	Old Wells Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
35	Pink Rose Spring	13020206	North Plains	1302020607	Log Cabin Canyon
36	Pole Canyon Spring	13020207	Rio San Jose	1302020704	Upper Rio San Jose
37	Postoffice Flat Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
38	Reseed Seep	15020004	Zuni	1502000402	Rio Nutria
39	Unnamed	15020004	Zuni	1502000402	Rio Nutria
40	Rock Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
41	Santa Fe Spring	15020006	Upper Puerco	1502000601	South Fork Puerco River
42	Sawyer Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
43	Serna Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
44	Sheep Lab Spring	15020006	Upper Puerco	1502000601	South Fork Puerco River
45	Shuster Spring	15020004	Zuni	1502000402	Rio Nutria
46	Sixmile Spring	15020006	Upper Puerco	1502000601	South Fork Puerco River
47	Snooter Spring	13020207	Rio San Jose	1302020704	Upper Rio San Jose
48	Unnamed	13020207	Rio San Jose	1302020702	Bluewater Creek
49	Stinking Spring	15020004	Zuni	1502000402	Rio Nutria
50	Tampico Spring	15020004	Zuni	1502000402	Rio Nutria
51	Tile Spring	13020207	Rio San Jose	1302020702	Bluewater Creek
52	Turkey Springs	15020006	Upper Puerco	1502000601	South Fork Puerco River
53	UKN Spring 11	13020207	Rio San Jose	1302020702	Bluewater Creek
54	Little Water Canyon Spring	15020004	Zuni	1502000401	Cebolla Creek
55	West of Road Spring	13020207	Rio San Jose	1302020704	Upper Rio San Jose
56	Yellow Spring	15020004	Zuni	1502000401	Cebolla Creek

*Spring Location Protocol explanation is found in Appendix I.

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*** Geologic symbol explanation is found in Figure 4.

Zuni Mountain Springs, Mount Taylor Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
29	New Well Spring	Py	Permian	sandstone	limestone
30	Ojitos	Pa	Permian	sandstone	shale
31	Ojo Bonito	Pg	Permian	sandstone	
32	Ojo Julian Spring	Pa	Permian	sandstone	shale
33	Ojo Redondo	Xp	Lower Proterozoic	plutonic rock (phaneritic)	
34	Old Wells Spring	Py	Permian	sandstone	limestone
35	Pink Rose Spring	Pg	Permian	sandstone	
36	Pole Canyon Spring	Py	Permian	sandstone	limestone
37	Postoffice Flat Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
38	Reseed Seep	Py	Permian	sandstone	limestone
39	Unnamed	Py	Permian	sandstone	limestone
40	Rock Spring	Py	Permian	sandstone	limestone
41	Santa Fe Spring	TRc	Triassic	medium-grained mixed clastic	fine-grained mixed clastic
42	Sawyer Spring	Pg	Permian	sandstone	
43	Serna Spring	Pa	Permian	sandstone	shale
44	Sheep Lab Spring	TRc	Triassic	medium-grained mixed clastic	fine-grained mixed clastic
45	Shuster Spring	Pa	Permian	sandstone	shale
46	Sixmile Spring	TRc	Triassic	medium-grained mixed clastic	fine-grained mixed clastic
47	Snooter Spring	Psa	Permian	carbonate	fine-grained mixed clastic
48	Unnamed	Pa	Permian	sandstone	shale
49	Stinking Spring	Ku	Cretaceous	medium-grained mixed clastic	volcanic rock (aphanitic)
50	Tampico Spring	Py	Permian	sandstone	limestone
51	Tile Spring	Xp	Lower Proterozoic	plutonic rock (phaneritic)	
52	Turkey Springs	TRc	Triassic	medium-grained mixed clastic	fine-grained mixed clastic
53	UKN Spring 11	Pa	Permian	sandstone	shale
54	Little Water Canyon Spring	Pg	Permian	sandstone	
55	West of Road Spring	Psa	Permian	carbonate	fine-grained mixed clastic
56	Yellow Spring	Pg	Permian	sandstone	

*Spring Location Protocol explanation is found in Appendix I.

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*** Geologic symbol explanation is found in Figure 4.

The Sandia Mountain Springs, Sandia Ranger District, Cibola National Forest

	Spring Name	Assigned Spring Name	Map Abbreviation	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
1	Unnamed	Armijo	Ar	-106.3889	35.15563	NAD83	Topo	--
2	Agua Serca Spring		As	-106.388635	35.229209	NAD83	GNIS	2233
3	Bill Spring		Bill	-106.384468	35.181155	NAD83	GNIS	2359
4	Unnamed	Border Spg East	BE	-106.40116	35.07933	NAD83	Topo	1927
5	Unnamed	Border Spg West	BW	-106.4052	35.0783	NAD83	Topo	1959
6	Unnamed	Canoncito	Cn	-106.38902	35.14643	NAD 83	Topo	2315
7	Capulin Spring		Ca	-106.414746	35.217542	NAD83	GNIS	2698
8	Cienega Spring		Ci	-106.384746	35.169766	NAD83	GNIS	2335
9	Cole Spring		Co	-106.388635	35.135323	NAD83	GNIS	2272
10	Embudo Spring		Em	-106.463911	35.096713	NAD83	GNIS	2123
11	Escondido Spring		Es	-106.373913	35.267263	NAD83	GNIS	1995
12	Unnamed	Faulty Trail	FT	-106.38097	35.17871	NAD 83	Topo	2252
13	Unnamed	Grant West	GW	-106.40923	35.07527	NAD 83	Topo	1883
14	Unnamed	Hobbies Spgs Ctrl	3HC	-106.38758	35.09907	NAD 83	Topo	2045
15	Lagunita Spring		La	-106.406135	35.202265	NAD83	GNIS	2644
16	Lurance Spring		Lu	-106.396968	35.007271	NAD83	GNIS	2100
17	Media Spring		Me	-106.44169	35.232264	NAD83	GNIS	2933
18	Mud Spring		Mud	-106.385579	35.128101	NAD83	GNIS	2178
19	Osha Spring		Osha	-106.437246	35.245042	NAD83	GNIS	2811
20	Oso Spring		Oso	-106.474745	35.134489	NAD83	GNIS	2068
21	Paradise Spring		PS	-106.3859	35.12499	NAD83	Topo	--
22	Piedra Lisa Spring		PL	-106.475024	35.276985	NAD83	GNIS	1964
23	Seven Spgs		7s	-106.40903	35.07681	NAD 83	Topo	1900
24	Sol se Mete Spring		SsM	-106.414745	34.976716	NAD83	GNIS	2119
25	South Sandia Spring		Ssan	-106.427245	35.105879	NAD83	GNIS	2795
26	Sulphur Spring		S	-106.376968	35.173099	NAD83	GNIS	2274
27	Three Gun Spring		3Gun	-106.438634	35.098935	NAD83	GNIS	2220
28	Torro Spring		Torro	-106.393357	35.156711	NAD83	GNIS	2427

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The Sandia Mountain Springs, Sandia Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
1	Unnamed	13020201	Rio Grande-Santa Fe	1302020104	Arroyo Tonque
2	Agua Serca Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque
3	Bill Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque
4	Unnamed	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
5	Unnamed	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
6	Unnamed	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
7	Capulin Spring	13020201	Rio Grande-Santa Fe	1302020106	Arroyo Tonque-Rio Grande
8	Cienega Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque
9	Cole Spring	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
10	Embudo Spring	13020203	Rio Grande-Albuquerque	1302020303	City of Albuquerque-Rio Grande
11	Escondido Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque
12	Unnamed	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque
13	Unnamed	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
14	Unnamed	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
15	Lagunita Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque
16	Lurance Spring	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
17	Media Spring	13020201	Rio Grande-Santa Fe	1302020106	Arroyo Tonque-Rio Grande
18	Mud Spring	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
19	Osha Spring	13020201	Rio Grande-Santa Fe	1302020106	Arroyo Tonque-Rio Grande
20	Oso Spring	13020203	Rio Grande-Albuquerque	1302020303	City of Albuquerque-Rio Grande
21	Paradise Spring	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
22	Piedra Lisa Spring	13020203	Rio Grande-Albuquerque	1302020301	Arroyo de Las Calabacillas-Rio Grande
23	Seven Spgs	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
24	Sol se Mete Spring	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
25	South Sandia Spring	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
26	Sulphur Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque
27	Three Gun Spring	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
28	Torro Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque

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The Sandia Mountain Springs, Sandia Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
1	Unnamed	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
2	Agua Serca Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
3	Bill Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
4	Unnamed	Pas	Pennsylvanian	sandstone	shale
5	Unnamed	Xmo	Pennsylvanian	sandstone	shale
6	Unnamed	Pam	Holocene to mid Pleistocene	alluvium/colluvium	
7	Capulin Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
8	Cienega Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
9	Cole Spring	Pa	Permian	sandstone	shale
10	Embudo Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
11	Escondido Spring	P	Permian	sedimentary rock	
12	Unnamed	PAm	Permian	sandstone	shale
13	Unnamed	Xmo	Middle Proterozoic	plutonic (phaneritic)	
14	Unnamed	Psg			
15	Lagunita Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
16	Lurance Spring	PAs	Pennsylvanian	sandstone	shale
17	Media Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
18	Mud Spring	Pa	Permian	sandstone	shale
19	Osha Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
20	Oso Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
21	Paradise Spring	Pa	Permian	sandstone	shale
22	Piedra Lisa Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
23	Seven Spgs	Xmo	Lower Proterozoic	mafic metavolcanic	
24	Sol se Mete Spring	PAs	Pennsylvanian	sandstone	shale
25	South Sandia Spring	PAs	Pennsylvanian	sandstone	shale
26	Sulphur Spring	Pa	Permian	sandstone	shale
27	Three Gun Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
28	Torro Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic

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The Sandia Mountain Springs, Sandia Ranger District, Cibola National Forest

	Spring Name	Assigned Spring Name	Map Abbreviation	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
29	Unnamed	Travertine Falls	TF	-106.39375	35.09538	NAD 83	Topo	2094
30	Tree Spring		Tree	-106.402523	35.192821	NAD83	GNIS	2608
31	Tunnel Spring		Tu	-106.439468	35.290873	NAD83	GNIS	2073
32	Wolf Spring		Wolf	-106.387524	35.173099	NAD83	GNIS	2387

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Sandia Mountain Springs, Sandia Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
29	Unnamed	13020203	Rio Grande-Albuquerque	1302020302	Tijeras Arroyo
30	Tree Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque
31	Tunnel Spring	13020201	Rio Grande-Santa Fe	1302020106	Arroyo Tonque-Rio Grande
32	Wolf Spring	13020201	Rio Grande-Santa Fe	1302020105	Arroyo Tonque

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Sandia Mountain Springs, Sandia Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
29	Unnamed	PAm	Pennsylvanian	limestone	fine mixed clastic
30	Tree Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
31	Tunnel Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
32	Wolf Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Mount Taylor Springs, Mount Taylor Ranger District, Cibola National Forest

	Spring Name	Map Abbreviation	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
1	Big Spring	Big	-107.669436	35.195405	NAD83	USFS	2556
2	Bosque Spring	BSQ	-107.623	35.221074	NAD83	USFS	2949
3	Buckhorn Spring	Buck	-107.65476	35.269028	NAD83	NHD	2656
4	Canovitas Spring	CVT	-107.605137	35.207578	NAD83	NHD	2899
5	CCC Spring	CCC	-107.557848	35.372199	NAD83	NHD	2430
6	Cliff Spring	Clf	-107.724717	35.2451	NAD83	NHD	2286
7	Cold Spring	Cold	-107.561778	35.252321	NAD83	USFS	3048
8	Colorado Spring	Colo	-107.569775	35.270869	NAD83	GNIS	2906
9	Corner Spring	Corn	-107.554927	35.303584	NAD83	USFS	2702
10	De Armand Spring	DeA	-107.570863	35.181215	NAD83	USFS	2512
11	East Lobo Spring	Elob	-107.707974	35.210449	NAD83	NHD	2345
12	El Dado Spring	EID	-107.459766	35.455018	NAD83	USFS	2400
13	Elkins Spring	Elk	-107.542966	35.274451	NAD83	USFS	2819
14	Gobbler Spring	Gob	-107.556853	35.31482	NAD83	USFS	2638
15	Guadalupe Spring	Guad	-107.294921	35.470193	NAD83	NHD	2400
16	La Vera Spring	LaV	-107.467431	35.436899	NAD83	NHD	2443
17	Lobo Springs	Lobo	-107.717682	35.197603	NAD83	NHD	2293
18	Lower American Spring	LAm	-107.560897	35.289946	NAD83	USFS	2795
19	Lower Gooseberry Spring	LGs	-107.62988	35.22526	NAD83	USFS	2917
20	Lower Lillies Spring	LLil	-107.63603	35.268537	NAD83	USFS	2793
21	Manuel Spring	Man	-107.593579	35.281263	NAD83	NHD	2845
22	Maruca Spring	Mar	-107.613164	35.344352	NAD83	USFS	2366
23	Ojo Canoa	Ocan	-107.24429	35.454576	NAD83	NHD	2113
24	Ojo de los Indios	Oind	-107.387021	35.524664	NAD83	NHD	2385
25	Ojo del Dado	Odad	-107.441308	35.447932	NAD83	NHD	2516
26	Ojo Piedra	Opie	-107.597037	35.273878	NAD83	NHD	2884
27	Pine Spring	Pine	-107.713383	35.239983	NAD83	NHD	2282

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Mount Taylor Springs, Mount Taylor Ranger District, Cibola National Forest

Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
13020207	Rio San Jose	1302020706	Middle Rio San Jose
13020207	Rio San Jose	1302020706	Middle Rio San Jose
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020706	Middle Rio San Jose
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020707	Rio Paguete
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020706	Middle Rio San Jose
13020207	Rio San Jose	1302020703	San Mateo Creek
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020707	Rio Paguete
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020204	Rio Puerco	1302020404	Hay Meadow Canyon-Rio Puerco
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020204	Rio Puerco	1302020404	Hay Meadow Canyon-Rio Puerco
13020205	Arroyo Chico	1302020507	Outlet Arroyo Chico
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020703	San Mateo Creek

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Mount Taylor Springs, Mount Taylor Ranger District, Cibola National Forest

Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
Tmb	Tertiary	basalt	andesite
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tmb	Tertiary	basalt	andesite
Ql	Quaternary	landslide	colluvium
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tmb	Tertiary	basalt	andesite
Tnv	Tertiary	volcanic rock (aphanitic)	
Kcc	Cretaceous	fine-grained mixed clastic	coal
Tmb	Tertiary	basalt	andesite
Tmb	Tertiary	basalt	andesite
Tmb	Tertiary	basalt	andesite
Kmf	Cretaceous	fine-grained mixed clastic	coal
Tmb	Tertiary	basalt	andesite
Kcc	Cretaceous	fine-grained mixed clastic	coal
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Ql	Quaternary	landslide	colluvium
Kmm	Cretaceous	shale	sandstone
Kmf	Cretaceous	fine-grained mixed clastic	coal
Tmb	Tertiary	basalt	andesite
Tnv	Tertiary	volcanic rock (aphanitic)	
Ql	Quaternary	landslide	colluvium

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Mount Taylor Springs, Mount Taylor Ranger District, Cibola National Forest

	Spring Name	Map Abbreviation	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
28	Pumic Spring	Pum	-107.724802	35.246991	NAD83	USFS	2302
29	Rancho Viejo Spring	RVS	-107.234105	35.475255	NAD83	NHD	2008
30	Raton Spring	Rat	-107.614038	35.162514	NAD83	USFS	2391
31	Revis Spring	Rev	-107.703091	35.242771	NAD83	USFS	2310
32	Rock Spring	Rock	-107.639264	35.259236	NAD83	NHD	2803
33	Salado Spring	Sad	-107.268249	35.505051	NAD83	NHD	2157
34	Salazar Spring	Saz	-107.578466	35.284074	NAD83	NHD	2796
35	San Lucas Spring	Sluc	-107.605202	35.345795	NAD83	NHD	2419
36	San Mateo Spring	SM	-107.599381	35.279987	NAD83	USFS	2773
37	Sandoval Spring	Sand	-107.572313	35.285909	NAD83	NHD	2792
38	Seco Spring	Seco	-107.573243	35.174521	NAD83	USFS	2448
39	Telephone Spring	Tele	-107.692859	35.243281	NAD83	NHD	2400
40	Twin Spring	Twin	-107.641577	35.246156	NAD83	USFS	2882
41	Upper American Canyon Spring	UAm	-107.560635	35.278504	NAD83	NHD	2892
42	Upper Gooseberry Spring	Ugs	-107.623882	35.22788	NAD83	USFS	2995
43	Upper Lillies Spring	ULil	-107.630716	35.270167	NAD83	USFS	2792
44	Willow Spring	Wil	-107.553895	35.307815	NAD83	USFS	2678

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Mount Taylor Springs, Mount Taylor Ranger District, Cibola National Forest

Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
13020207	Rio San Jose	1302020703	San Mateo Creek
13020204	Rio Puerco	1302020404	Hay Meadow Canyon-Rio Puerco
13020207	Rio San Jose	1302020706	Middle Rio San Jose
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020204	Rio Puerco	1302020404	Hay Meadow Canyon-Rio Puerco
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020706	Middle Rio San Jose
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020205	Arroyo Chico	1302020501	San Miguel Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020207	Rio San Jose	1302020703	San Mateo Creek
13020205	Arroyo Chico	1302020501	San Miguel Creek

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Mount Taylor Springs, Mount Taylor Ranger District, Cibola National Forest

Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
Ql	Quaternary	landslide	colluvium
Kmm	Cretaceous	shale	sandstone
Tmb	Tertiary	basalt	andesite
Kcc	Cretaceous	fine-grained mixed clastic	coal
Tnv	Tertiary	volcanic rock (aphanitic)	
Kms	Cretaceous	shale	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tmb	Tertiary	basalt	andesite
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tmb	Tertiary	basalt	andesite
Tmb	Tertiary	basalt	andesite
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tnv	Tertiary	volcanic rock (aphanitic)	
Tmb	Tertiary	basalt	andesite

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Bears Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
1	Barrel Spring	-107.345593	34.353671	NAD83	GNIS	1960
2	Bluff Spring	-107.303093	34.355894	NAD83	GNIS	1947
3	Carrizozo Spring	-107.342816	34.367838	NAD83	GNIS	1920
4	Cedar Spring	-107.285037	34.286173	NAD83	GNIS	2145
5	Cement Trough Spring	-107.283521	34.360087	NAD83	USFS	1827
6	Cottonwood Spring	-107.300154	34.323883	NAD83	USFS	2182
7	Davenport Spring	-107.923556	34.280713	NAD83	NHD	2551
8	Deer Spring	-107.295037	34.30395	NAD83	GNIS	2261
9	Dugout Spring	-107.29858	34.321523	NAD83	USFS	2162
10	Fall Spring	-107.280839	34.341753	NAD83	USFS	1960
11	Fenceline Spring	-107.310871	34.337283	NAD83	GNIS	2090
12	Flying V Spring	-107.990015	34.162521	NAD83	NHD	2345
13	Goat Spring	-107.225314	34.188674	NAD83	GNIS	1986
14	Gooseberry Canyon Spring	-107.887359	34.292013	NAD83	NHD	2710
15	Grapevine Spring	-107.32976	34.334783	NAD83	GNIS	2085
16	Hidden Spring	-107.975048	34.15997	NAD83	USFS	2465
17	Hidden Spring	-107.326982	34.37006	NAD83	GNIS	1914
18	Kid Spring	-107.823107	34.27728	NAD83	GNIS	2469
19	Little Bear Spring	-107.312034	34.318712	NAD83	NHD	2226
20	Lumber House Spring Number One	-107.311704	34.312006	NAD83	GNIS	2299
21	Lumber House Spring Number Two	-107.321426	34.314783	NAD83	GNIS	2195
22	Maverick Spring	-107.811979	34.303522	NAD83	NHD	2561
23	McGee Spring	-107.430317	34.205062	NAD83	GNIS	2241
24	Oak Spring	-107.28636	34.308093	NAD83	USFS	2129
25	Ox Spring	-107.873665	34.365334	NAD83	GNIS	2255
26	Palo Blanco Spring	-107.332538	34.373949	NAD83	GNIS	1894
27	Pine Spring	-107.991055	34.167454	NAD83	NHD	2350
28	Red Rock Spring	-107.307537	34.353394	NAD83	GNIS	2028

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Bears Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
1	Barrel Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
2	Bluff Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
3	Carrizozo Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
4	Cedar Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
5	Cement Trough Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
6	Cottonwood Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
7	Davenport Spring	13020208	Plains of San Agustin	1302020802	White Lake
8	Deer Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
9	Dugout Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
10	Fall Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
11	Fenceline Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
12	Flying V Spring	13020208	Plains of San Agustin	1302020804	Nester Draw
13	Goat Spring	13020209	Rio Salado	1302020906	La Jencia Creek
14	Gooseberry Canyon Spring	13020208	Plains of San Agustin	1302020802	White Lake
15	Grapevine Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
16	Hidden Spring	13020208	Plains of San Agustin	1302020804	Nester Draw
17	Hidden Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
18	Kid Spring	13020208	Plains of San Agustin	1302020802	White Lake
19	Little Bear Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
20	Lumber House Spring Number One	13020209	Rio Salado	1302020907	Lower Rio Salado
21	Lumber House Spring Number Two	13020209	Rio Salado	1302020907	Lower Rio Salado
22	Maverick Spring	13020209	Rio Salado	1302020901	Alamocita Creek
23	McGee Spring	13020209	Rio Salado	1302020906	La Jencia Creek
24	Oak Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
25	Ox Spring	13020209	Rio Salado	1302020901	Alamocita Creek
26	Palo Blanco Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
27	Pine Spring	13020208	Plains of San Agustin	1302020804	Nester Draw
28	Red Rock Spring	13020209	Rio Salado	1302020907	Lower Rio Salado

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Bears Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
1	Barrel Spring	Tual	Tertiary	andesite	basalt
2	Bluff Spring	Tlv	Tertiary	volcanic rock (aphanitic)	intermediate volcanic rock
3	Carrizozo Spring	Tps	Tertiary	medium-grained mixed clastic	tuff
4	Cedar Spring	Tual	Tertiary	andesite	basalt
5	Cement Trough Spring	Tlv	Tertiary	volcanic rock (aphanitic)	intermediate volcanic rock
6	Cottonwood Spring	Tual	Tertiary	andesite	basalt
7	Davenport Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
8	Deer Spring	Tual	Tertiary	andesite	basalt
9	Dugout Spring	Tual	Tertiary	andesite	basalt
10	Fall Spring	Tlv	Tertiary	volcanic rock (aphanitic)	intermediate volcanic rock
11	Fenceline Spring	Tual	Tertiary	andesite	basalt
12	Flying V Spring	Tlrp	Tertiary	pyroclastic	tuff
13	Goat Spring	Ti	Tertiary	plutonic rock (phaneritic)	
14	Gooseberry Canyon Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
15	Grapevine Spring	Tual	Tertiary	andesite	basalt
16	Hidden Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
17	Hidden Spring	Tps	Tertiary	medium-grained mixed clastic	tuff
18	Kid Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
19	Little Bear Spring	Tual	Tertiary	andesite	basalt
20	Lumber House Spring Number One	Tual	Tertiary	andesite	basalt
21	Lumber House Spring Number Two	Tual	Tertiary	andesite	basalt
22	Maverick Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
23	McGee Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
24	Oak Spring	Tual	Tertiary	andesite	basalt
25	Ox Spring	Kcc	Cretaceous	fine-grained mixed clastic	coal
26	Palo Blanco Spring	Tps	Tertiary	medium-grained mixed clastic	tuff
27	Pine Spring	Tlrp	Tertiary	pyroclastic	tuff
28	Red Rock Spring	Turp	Tertiary	tuff	pyroclastic

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Bears Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
29	Rene Spring	-107.945439	34.167242	NAD83	NHD	2501
30	Road Spring	-107.963965	34.190013	NAD83	USFS	2439
31	Scott Spring	-107.335315	34.302283	NAD83	GNIS	2190
32	Skeleton Spring	-107.863025	34.296237	NAD83	NHD	2571
33	Slaughter Spring Dev	-107.948726	34.22391	NAD83	USFS	2450
34	Stiver Spring	-107.78394	34.36339	NAD83	GNIS	2219
35	Sugarloaf Spring	-107.986827	34.129909	NAD83	NHD	2476
36	Turkey Spring	-107.958562	34.207459	NAD83	NHD	2470
37	Winter Spring	-107.299145	34.317654	NAD83	NHD	2168

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Bears Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
29	Rene Spring	13020208	Plains of San Agustin	1302020802	White Lake
30	Road Spring	13020208	Plains of San Agustin	1302020804	Nester Draw
31	Scott Spring	13020209	Rio Salado	1302020907	Lower Rio Salado
32	Skeleton Spring	13020208	Plains of San Agustin	1302020802	White Lake
33	Slaughter Spring Dev	13020208	Plains of San Agustin	1302020802	White Lake
34	Stiver Spring	13020209	Rio Salado	1302020901	Alamocita Creek
35	Sugarloaf Spring	13020208	Plains of San Agustin	1302020805	Sugar Loaf Canyon
36	Turkey Spring	13020208	Plains of San Agustin	1302020804	Nester Draw
37	Winter Spring	13020209	Rio Salado	1302020907	Lower Rio Salado

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Bears Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
29	Rene Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
30	Road Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
31	Scott Spring	Tsf	Tertiary	coarse-grained mixed clastic	unconsolidated deposit
32	Skeleton Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
33	Slaughter Spring Dev	Tos	Tertiary	clastic	mixed clastic/volcanic
34	Stiver Spring	Kcc	Cretaceous	fine-grained mixed clastic	coal
35	Sugarloaf Spring	Tlrp	Tertiary	pyroclastic	tuff
36	Turkey Spring	Tos	Tertiary	clastic	mixed clastic/volcanic
37	Winter Spring	Tual	Tertiary	andesite	basalt

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The San Mateo Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
1	Alexander Spring	-107.446981	33.656176	NAD83	GNIS	2797
2	Allen Spring	-107.44818	33.752965	NAD83	NHD	2293
3	Aragon Spring	-107.389745	33.473841	NAD83	NHD	1923
4	Basin Spring	-107.358924	33.645898	NAD83	GNIS	2242
5	Bear Spring	-107.448672	33.762722	NAD83	NHD	2400
6	Beartrap Spring	-107.514146	33.882986	NAD83	NHD	2721
7	Bell Spring	-107.444905	33.800585	NAD83	NHD	2655
8	Bull Springs	-107.422536	33.689786	NAD83	GNIS	2389
9	Cold Spring	-107.381146	33.675342	NAD83	GNIS	2242
10	Cooney Spring	-107.452471	33.901154	NAD83	NHD	2437
11	Cow Trap Spring	-107.389202	33.641454	NAD83	GNIS	2739
12	Cub Spring	-107.449292	33.668842	NAD83	USFS	3035
13	Deer Springs	-107.344483	33.496297	NAD83	NHD	1902
14	Dick Spring	-107.314757	33.625621	NAD83	GNIS	1951
15	Dry Spring	-107.437866	33.832146	NAD83	NHD	2498
16	Eagle Spring	-107.522816	33.89534	NAD83	GNIS	2718
17	East Monticello Spring	-107.397622	33.476063	NAD83	NHD	1930
18	Fowler Spring	-107.434015	33.841122	NAD83	NHD	2411
19	Garcia Falls Spring	-107.452537	33.491456	NAD83	GNIS	1895
20	Hardscrabble Spring	-107.429223	33.704587	NAD83	NHD	2350
21	Hidden Spring	-107.445036	33.722841	NAD83	GNIS	2294
22	Hudson Spring	-107.487424	33.787773	NAD83	NHD	2550
23	Indian Spring	-107.474943	33.742747	NAD83	NHD	2337
24	Jones Spring	-107.423648	33.945063	NAD83	GNIS	2207
25	Junction Spring	-107.360313	33.674509	NAD83	GNIS	2119
26	Las Uvas Spring	-107.425845	33.478072	NAD83	NHD	1946
27	Lava Spring	-107.467251	33.784328	NAD83	NHD	2719
28	Leke Spring	-107.444251	33.859619	NAD83	NHD	2410
29	Long Spring	-107.328646	33.637287	NAD83	GNIS	2156

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The San Mateo Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
1	Alexander Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
2	Allen Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
3	Aragon Spring	13020211	Elephant Butte Reservoir	1302021108	Elephant Butte Reservoir-Rio Grande
4	Basin Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
5	Bear Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
6	Beartrap Spring	13020211	Elephant Butte Reservoir	1302021106	Headwaters Alamosa Creek
7	Bell Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
8	Bull Springs	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
9	Cold Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
10	Cooney Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
11	Cow Trap Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
12	Cub Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
13	Deer Springs	13020211	Elephant Butte Reservoir	1302021105	San Jose Arroyo-Rio Grande
14	Dick Spring	13020211	Elephant Butte Reservoir	1302021103	Milligan Gulch-Rio Grande
15	Dry Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
16	Eagle Spring	13020208	Plains of San Agustin	1302020801	Durfee Canyon
17	East Monticello Spring	13020211	Elephant Butte Reservoir	1302021108	Elephant Butte Reservoir-Rio Grande
18	Fowler Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
19	Garcia Falls Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
20	Hardscrabble Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
21	Hidden Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
22	Hudson Spring	13020211	Elephant Butte Reservoir	1302021106	Headwaters Alamosa Creek
23	Indian Spring	13020211	Elephant Butte Reservoir	1302021106	Headwaters Alamosa Creek
24	Jones Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
25	Junction Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
26	Las Uvas Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
27	Lava Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
28	Leke Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
29	Long Spring	13020211	Elephant Butte Reservoir	1302021103	Milligan Gulch-Rio Grande

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The San Mateo Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
1	Alexander Spring	Turp	Tertiary	tuff	pyroclastic
2	Allen Spring	Turp	Tertiary	tuff	pyroclastic
3	Aragon Spring	Tla	Tertiary	andesite	basalt
4	Basin Spring	Turp	Tertiary	tuff	pyroclastic
5	Bear Spring	Turp	Tertiary	tuff	pyroclastic
6	Beartrap Spring	Turp	Tertiary	tuff	pyroclastic
7	Bell Spring	Turp	Tertiary	tuff	pyroclastic
8	Bull Springs	Turp	Tertiary	tuff	pyroclastic
9	Cold Spring	Turp	Tertiary	tuff	pyroclastic
10	Cooney Spring	Turp	Tertiary	tuff	pyroclastic
11	Cow Trap Spring	Turp	Tertiary	tuff	pyroclastic
12	Cub Spring	Turp	Tertiary	tuff	pyroclastic
13	Deer Springs	Turp	Tertiary	tuff	pyroclastic
14	Dick Spring	Qp/QTsf	Quaternary	alluvium	
15	Dry Spring	Turp	Tertiary	tuff	pyroclastic
16	Eagle Spring	Turp	Tertiary	tuff	pyroclastic
17	East Monticello Spring	Tlrp	Tertiary	pyroclastic	tuff
18	Fowler Spring	Turp	Tertiary	tuff	pyroclastic
19	Garcia Falls Spring	Tla	Tertiary	andesite	basalt
20	Hardscrabble Spring	Turp	Tertiary	tuff	pyroclastic
21	Hidden Spring	Turp	Tertiary	tuff	pyroclastic
22	Hudson Spring	Turp	Tertiary	tuff	pyroclastic
23	Indian Spring	Turp	Tertiary	tuff	pyroclastic
24	Jones Spring	Qp/QTsf	Quaternary	alluvium	
25	Junction Spring	Turp	Tertiary	tuff	pyroclastic
26	Las Uvas Spring	Tla	Tertiary	andesite	basalt
27	Lava Spring	Turp	Tertiary	tuff	pyroclastic
28	Leke Spring	Turp	Tertiary	tuff	pyroclastic
29	Long Spring	Turp	Tertiary	tuff	pyroclastic

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The San Mateo Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
30	Monica Spring	-107.495316	33.957285	NAD83	GNIS	2300
31	Myers Spring	-107.46087	33.552844	NAD83	GNIS	2446
32	Narrow Spring	-107.45286	33.762698	NAD83	NHD	2421
33	Nave Spring	-107.437259	33.573122	NAD83	GNIS	2742
34	New Lava Spring	-107.47016	33.78051	NAD83	NHD	2586
35	Oak Spring	-107.454759	33.553122	NAD83	GNIS	2488
36	Pine Tree Spring	-107.311146	33.605343	NAD83	GNIS	1862
37	Pot Hole Spring	-107.448075	33.706536	NAD83	USFS	2440
38	Questa Spring	-107.414537	33.487635	NAD83	NHD	1940
39	Rabbit Eye Spring	-107.315395	33.590028	NAD83	NHD	1899
40	Ranch Supply Spring	-107.593927	33.90518	NAD83	USFS	2458
41	San Jose Spring	-107.367814	33.518401	NAD83	GNIS	2036
42	San Mateo Spring	-107.420955	33.599765	NAD83	NHD	2796
43	Sanchez Trough Spring	-107.491812	33.861317	NAD83	NHD	2714
44	Seven Spring	-107.452654	33.808266	NAD83	NHD	2766
45	Shipman Spring	-107.462815	33.524234	NAD83	GNIS	2098
46	Stanley Spring	-107.448883	33.470424	NAD83	NHD	1896
47	Switch Spring	-107.509185	33.909657	NAD83	NHD	2550
48	Tool Box Spring	-107.463959	33.736515	NAD83	NHD	2326
49	Trail Spring	-107.472061	33.808864	NAD83	NHD	2698
50	Trough Spring	-107.618072	33.801639	NAD83	NHD	2305
51	Turkey Spring	-107.426147	33.547289	NAD83	GNIS	2464
52	Turkey Springs	-107.423982	33.746296	NAD83	NHD	2105
53	Twentyfive Yard Spring	-107.422193	33.625812	NAD83	NHD	2692
54	Villa Nerce Spring	-107.441425	33.520345	NAD83	GNIS	2053
55	Water Spring	-107.426049	33.8568	NAD83	NHD	2371
56	Whitetail Spring	-107.471703	33.5634	NAD83	GNIS	2324

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The San Mateo Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
30	Monica Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
31	Myers Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
32	Narrow Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
33	Nave Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
34	New Lava Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
35	Oak Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
36	Pine Tree Spring	13020211	Elephant Butte Reservoir	1302021103	Milligan Gulch-Rio Grande
37	Pot Hole Spring	13020211	Elephant Butte Reservoir	1302021106	Headwaters Alamosa Creek
38	Questa Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
39	Rabbit Eye Spring	13020211	Elephant Butte Reservoir	1302021105	San Jose Arroyo-Rio Grande
40	Ranch Supply Spring	13020208	Plains of San Agustin	1302020803	C-N Lake
41	San Jose Spring	13020211	Elephant Butte Reservoir	1302021105	San Jose Arroyo-Rio Grande
42	San Mateo Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
43	Sanchez Trough Spring	13020211	Elephant Butte Reservoir	1302021106	Headwaters Alamosa Creek
44	Seven Spring	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
45	Shipman Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
46	Stanley Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
47	Switch Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
48	Tool Box Spring	13020211	Elephant Butte Reservoir	1302021106	Headwaters Alamosa Creek
49	Trail Spring	13020211	Elephant Butte Reservoir	1302021106	Headwaters Alamosa Creek
50	Trough Spring	13020211	Elephant Butte Reservoir	1302021106	Headwaters Alamosa Creek
51	Turkey Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
52	Turkey Springs	13020211	Elephant Butte Reservoir	1302021101	East Red Canyon
53	Twentyfive Yard Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
54	Villa Nerce Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek
55	Water Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
56	Whitetail Spring	13020211	Elephant Butte Reservoir	1302021107	Outlet Alamosa Creek

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The San Mateo Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
30	Monica Spring	Qp/QTsf	Quaternary	alluvium	
31	Myers Spring	Turp	Tertiary	tuff	pyroclastic
32	Narrow Spring	Turp	Tertiary	tuff	pyroclastic
33	Nave Spring	Turp	Tertiary	tuff	pyroclastic
34	New Lava Spring	Turp	Tertiary	tuff	pyroclastic
35	Oak Spring	Turp	Tertiary	tuff	pyroclastic
36	Pine Tree Spring	Qp/QTsf	Quaternary	alluvium	
37	Pot Hole Spring	Turp	Tertiary	tuff	pyroclastic
38	Questa Spring	Tla	Tertiary	andesite	basalt
39	Rabbit Eye Spring	Turp	Tertiary	tuff	pyroclastic
40	Ranch Supply Spring	Tlrp	Tertiary	pyroclastic	tuff
41	San Jose Spring	Turp	Tertiary	tuff	pyroclastic
42	San Mateo Spring	Turp	Tertiary	tuff	pyroclastic
43	Sanchez Trough Spring	Turp	Tertiary	tuff	pyroclastic
44	Seven Spring	Turp	Tertiary	tuff	pyroclastic
45	Shipman Spring	Tlrp	Tertiary	pyroclastic	tuff
46	Stanley Spring	Tla	Tertiary	andesite	basalt
47	Switch Spring	Turp	Tertiary	tuff	pyroclastic
48	Tool Box Spring	Turp	Tertiary	tuff	pyroclastic
49	Trail Spring	Turp	Tertiary	tuff	pyroclastic
50	Trough Spring	Turp	Tertiary	tuff	pyroclastic
51	Turkey Spring	Turp	Tertiary	tuff	pyroclastic
52	Turkey Springs	Turp	Tertiary	tuff	pyroclastic
53	Twentyfive Yard Spring	Turp	Tertiary	tuff	pyroclastic
54	Villa Nerce Spring	Tlrp	Tertiary	pyroclastic	tuff
55	Water Spring	Turp	Tertiary	tuff	pyroclastic
56	Whitetail Spring	Turp	Tertiary	tuff	pyroclastic

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
1	Albuq Trail Spring	-106.375959	34.803804	NAD83	USFS	2331
2	Apache Spring	-106.353728	34.769889	NAD83	USFS	2240
3	Barellas Spring	-106.49331	34.581041	NAD83	USFS	1979
4	Barreras Spring	-106.487176	34.583721	NAD83	USFS	2093
5	Bartolo Spring	-106.40714	34.648177	NAD83	NHD	2435
6	Bear Spring	-106.4602	34.630827	NAD83	USFS	2668
7	Beehive Spring	-106.471848	34.641787	NAD83	USFS	2133
8	Berrendo Sprng	-106.433381	34.67357	NAD83	USFS	2733
9	Big Spring	-106.389394	34.779081	NAD83	USFS	2411
10	Box Spring	-106.410817	34.610182	NAD83	NHD	2460
11	Capilla Spring	-106.401369	34.699424	NAD83	NHD	2769
12	Cave Spring	-106.411833	34.769689	NAD83	USFS	2774
13	Cienigita Spring	-106.399212	34.586078	NAD83	USFS	2326
14	Colorado Spring	-106.421963	34.62365	NAD83	NHD	2568
15	Comanche Spring	-106.429873	34.721545	NAD83	USFS	2033
16	Cottonwood Spring	-106.428116	34.5766	NAD83	USFS	2333
17	Coyote Spring	-106.441315	34.449338	NAD83	USFS	1757
18	Crow Spring	-106.440883	34.710947	NAD83	USFS	1990
19	Crow Spring	-106.441131	34.702558	NAD83	GNIS	1998
20	Diablo Spring	-106.399974	34.752027	NAD83	USFS	2481
21	Escondido Spring	-106.406646	34.773076	NAD83	USFS	2668
22	Espinosa Spring	-106.413907	34.55784	NAD83	GNIS	2256
23	Fourth of July Spring	-106.383412	34.792557	NAD83	NHD	2349
24	Glover Spring	-106.307633	34.810391	NAD83	USFS	2200
25	Grose Spring	-106.445574	34.556451	NAD83	GNIS	2169
26	Hawkins Spring	-106.362293	34.755853	NAD83	NHD	2263
27	House Spring	-106.398581	34.589403	NAD83	NHD	2332
28	Jaramillo Spring	-106.429742	34.69478	NAD83	GNIS	2080

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
1	Albuq Trail Spring	13050001	Western Estancia	1305000111	Torreón Draw
2	Apache Spring	13050001	Western Estancia	1305000111	Torreón Draw
3	Barellas Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
4	Barreras Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
5	Bartolo Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
6	Bear Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
7	Beehive Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
8	Berrendo Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
9	Big Spring	13050001	Western Estancia	1305000111	Torreón Draw
10	Box Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
11	Capilla Spring	13050001	Western Estancia	1305000111	Torreón Draw
12	Cave Spring	13050001	Western Estancia	1305000111	Torreón Draw
13	Cienigita Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
14	Colorado Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
15	Comanche Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
16	Cottonwood Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
17	Coyote Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
18	Crow Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
19	Crow Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
20	Diablo Spring	13050001	Western Estancia	1305000111	Torreón Draw
21	Escondido Spring	13050001	Western Estancia	1305000111	Torreón Draw
22	Espinosa Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
23	Fourth of July Spring	13050001	Western Estancia	1305000111	Torreón Draw
24	Glover Spring	13050001	Western Estancia	1305000111	Torreón Draw
25	Grose Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
26	Hawkins Spring	13050001	Western Estancia	1305000111	Torreón Draw
27	House Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
28	Jaramillo Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
1	Albuq Trail Spring	PAs	Pennsylvanian	sandstone	shale
2	Apache Spring	PAs	Pennsylvanian	sandstone	shale
3	Barellas Spring	Qp	Quaternary	alluvium	
4	Barreras Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
5	Bartolo Spring	PAs	Pennsylvanian	sandstone	shale
6	Bear Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
7	Beehive Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
8	Berrendo Sprng	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
9	Big Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
10	Box Spring	Qp	Quaternary	alluvium	
11	Capilla Spring	PAs	Pennsylvanian	sandstone	shale
12	Cave Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
13	Cienigita Spring	Qp	Quaternary	alluvium	
14	Colorado Spring	PA	Pennsylvanian	sedimentary rock	medium-grained mixed clastic
15	Comanche Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
16	Cottonwood Spring	PA	Pennsylvanian	sedimentary rock	medium-grained mixed clastic
17	Coyote Spring	Pb	Permian	shale	sandstone
18	Crow Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
19	Crow Spring	Qp/QTsf	Quaternary	alluvium	
20	Diablo Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
21	Escondido Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
22	Espinosa Spring	Pa	Permian	sandstone	shale
23	Fourth of July Spring	PAs	Pennsylvanian	sandstone	shale
24	Glover Spring	PAs	Pennsylvanian	sandstone	shale
25	Grose Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
26	Hawkins Spring	PAs	Pennsylvanian	sandstone	shale
27	House Spring	Qp	Quaternary	alluvium	
28	Jaramillo Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
29	La Cabra Spring	-106.487225	34.576652	NAD83	USFS	2048
30	La Casa Spring	-106.457677	34.515124	NAD83	USFS	2063
31	Little Kayser Spring	-106.39892	34.562817	NAD83	USFS	2257
32	Little Sand Spring	-106.450295	34.475897	NAD83	GNIS	1808
33	Log Spring	-106.436038	34.660545	NAD83	USFS	2456
34	Los Burros Spring	-106.39198	34.767131	NAD83	USFS	2438
35	Los Vayas Spring	-106.428015	34.798201	NAD83	USFS	2183
36	Lower Encino Spring	-106.449187	34.752279	NAD83	GNIS	2125
37	Lower Ox Spring	-106.437709	34.611987	NAD83	NHD	2856
38	M L Lower Spring	-106.481748	34.60403	NAD83	USFS	2027
39	Mina Spring	-106.416964	34.728946	NAD83	GNIS	2153
40	Monte De Abajo Spring	-106.476686	34.57895	NAD83	GNIS	2237
41	New Canyon Number One Spring	-106.417295	34.672992	NAD83	NHD	2459
42	New Canyon Number Two Spring	-106.410407	34.671674	NAD83	NHD	2397
43	No Name Spring	-106.41141	34.594982	NAD83	NHD	2404
44	Ojo Chiquito Spring	-106.464339	34.720369	NAD83	USFS	1899
45	Ojo del Indio	-106.401879	34.710861	NAD83	NHD	2618
46	Ojo del Rancho del Medio	-106.320087	34.827641	NAD83	NHD	2246
47	Ojo la Casa	-106.461687	34.708947	NAD83	GNIS	1863
48	Ojo Piedra Lisa Spring	-106.438493	34.787239	NAD83	USFS	2288
49	Pin Shadow Spring	-106.434122	34.567666	NAD83	USFS	2215
50	Pothold Srping Dev	-106.476177	34.646586	NAD83	USFS	2080
51	Rattlesnake Spring	-106.456129	34.52673	NAD83	GNIS	2146
52	Red Spring	-106.415543	34.532003	NAD83	USFS	2037
53	Red Spring	-106.414296	34.621783	NAD83	NHD	2484
54	Riley Spring	-106.336583	34.811727	NAD83	USFS	2280
55	Saladito Spring	-106.414212	34.461017	NAD83	USFS	1781
56	Salas Spring	-106.49476	34.642509	NAD83	USFS	1957

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
29	La Cabra Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
30	La Casa Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
31	Little Kayser Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
32	Little Sand Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
33	Log Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
34	Los Burros Spring	13050001	Western Estancia	1305000111	Torreón Draw
35	Los Vayas Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
36	Lower Encino Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
37	Lower Ox Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
38	M L Lower Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
39	Mina Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
40	Monte De Abajo Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
41	New Canyon Number One Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
42	New Canyon Number Two Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
43	No Name Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
44	Ojo Chiquito Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
45	Ojo del Indio	13050001	Western Estancia	1305000111	Torreón Draw
46	Ojo del Rancho del Medio	13050001	Western Estancia	1305000111	Torreón Draw
47	Ojo la Casa	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
48	Ojo Piedra Lisa Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
49	Pin Shadow Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
50	Pothold Spring Dev	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
51	Rattlesnake Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
52	Red Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
53	Red Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
54	Riley Spring	13050001	Western Estancia	1305000111	Torreón Draw
55	Saladito Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
56	Salas Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
29	La Cabra Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
30	La Casa Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
31	Little Kayser Spring	Qp	Quaternary	alluvium	
32	Little Sand Spring	PA	Pennsylvanian	sedimentary rock	medium-grained mixed clastic
33	Log Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
34	Los Burros Spring	PAs	Pennsylvanian	sandstone	shale
35	Los Vayas Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
36	Lower Encino Spring	Xms	Lower Proterozoic	metasedimentary rock	
37	Lower Ox Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
38	M L Lower Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
39	Mina Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
40	Monte De Abajo Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
41	New Canyon Number One Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
42	New Canyon Number Two Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
43	No Name Spring	Qp	Quaternary	alluvium	
44	Ojo Chiquito Spring	Qp	Quaternary	alluvium	
45	Ojo del Indio	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
46	Ojo del Rancho del Medio	PAs	Pennsylvanian	sandstone	shale
47	Ojo la Casa	Qp	Quaternary	alluvium	
48	Ojo Piedra Lisa Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
49	Pin Shadow Spring	PA	Pennsylvanian	sedimentary rock	medium-grained mixed clastic
50	Pothold Srping Dev	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
51	Rattlesnake Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
52	Red Spring	Pa	Permian	sandstone	shale
53	Red Spring	PAs	Pennsylvanian	sandstone	shale
54	Riley Spring	PAs	Pennsylvanian	sandstone	shale
55	Saladito Spring	Pb	Permian	shale	sandstone
56	Salas Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
57	Sherman Spring	-106.416266	34.649731	NAD83	NHD	2537
58	Spencer Spring	-106.407795	34.486452	NAD83	GNIS	1844
59	Spruce Spring	-106.42901	34.641494	NAD83	NHD	2758
60	Tejano Spring	-106.324805	34.77064	NAD83	USFS	2153
61	Terrero Spring	-106.326766	34.796831	NAD83	USFS	2233
62	Tilio Spring	-106.406816	34.800458	NAD83	USFS	2487
63	Trigo Spring	-106.438075	34.655337	NAD83	GNIS	2423
64	Turrieta Spring	-106.412047	34.676326	NAD83	NHD	2448
65	Upper 4 July Spring	-106.39015	34.795492	NAD83	USFS	2436
66	Upper Aspen Spring	-106.385257	34.72179	NAD83	USFS	2342
67	Upper Encino Spring	-106.45252	34.755334	NAD83	GNIS	2130
68	Upper Jarmillo Spring	-106.426672	34.683955	NAD83	USFS	2487
69	Upper Monte Largo Spring	-106.47657	34.604165	NAD83	USFS	2119
70	Upper Ox Spring	-106.442083	34.61456	NAD83	NHD	2939
71	Whiskey Spring	-106.437845	34.683057	NAD83	USFS	2409
72	Wild Cow Spring	-106.458352	34.56284	NAD83	GNIS	2430
73	YCC Spring	-106.47405	34.645421	NAD83	USFS	2164
74	Yellowstone Spring	-106.41603	34.781867	NAD83	USFS	2735

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
57	Sherman Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
58	Spencer Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
59	Spruce Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
60	Tejano Spring	13050001	Western Estancia	1305000111	Torreon Draw
61	Terrero Spring	13050001	Western Estancia	1305000111	Torreon Draw
62	Tilio Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
63	Trigo Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
64	Turrieta Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
65	Upper 4 July Spring	13050001	Western Estancia	1305000111	Torreon Draw
66	Upper Aspen Spring	13050001	Western Estancia	1305000111	Torreon Draw
67	Upper Encino Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash
68	Upper Jarmillo Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
69	Upper Monte Largo Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
70	Upper Ox Spring	13050001	Western Estancia	1305000110	Arroyo de Manzano
71	Whiskey Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
72	Wild Cow Spring	13020203	Rio Grande-Albuquerque	1302020305	Abo Arroyo
73	YCC Spring	13020203	Rio Grande-Albuquerque	1302020306	Canon Monte Largo-Rio Grande
74	Yellowstone Spring	13020203	Rio Grande-Albuquerque	1302020304	Hells Canyon Wash

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Manzano Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
57	Sherman Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
58	Spencer Spring	Pa	Permian	sandstone	shale
59	Spruce Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
60	Tejano Spring	PAs	Pennsylvanian	sandstone	shale
61	Terrero Spring	PAs	Pennsylvanian	sandstone	shale
62	Tilio Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
63	Trigo Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
64	Turrieta Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
65	Upper 4 July Spring	PAs	Pennsylvanian	sandstone	shale
66	Upper Aspen Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic
67	Upper Encino Spring	Xms	Lower Proterozoic	metasedimentary rock	
68	Upper Jarmillo Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
69	Upper Monte Largo Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
70	Upper Ox Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
71	Whiskey Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
72	Wild Cow Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
73	YCC Spring	Xm	Lower Proterozoic	felsic metavolcanic rock	plutonic rock (phaneritic)
74	Yellowstone Spring	PAm	Pennsylvanian	limestone	fine-grained mixed clastic

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Magdalena Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
1	Agua Fria Spring	-107.212257	34.027286	NAD83	GNIS	2581
2	Baldy Spring	-107.182812	33.985897	NAD83	GNIS	3081
3	Bear Canyon Spring	-107.215858	33.985119	NAD94	NHD	2453
4	Box Spring	-107.087811	33.983676	NAD83	GNIS	2161
5	Cabin Spring	-107.163923	34.038675	NAD83	GNIS	2376
6	Elephant Spring	-107.217813	34.063397	NAD83	GNIS	2234
7	Garcia Canyon Spring	-107.14809	34.064786	NAD83	GNIS	2166
8	Hell Canyon Spring	-107.182257	34.103953	NAD83	GNIS	2314
9	Italian Spring	-107.133367	33.931175	NAD83	GNIS	2301
10	Mill Canyon Spring	-107.21126	34.006424	NAD83	USFS	2604
11	Molino Spring	-107.105867	33.946731	NAD83	GNIS	2378
12	Oak Spring	-107.199757	34.102008	NAD83	GNIS	2428
13	Pony Spring	-107.20544	34.073004	NAD95	NHD	2283
14	Rock Header Tank	-107.268252	33.955064	NAD83	USFS	2166
15	Rock Slide Spring	-107.148645	33.946731	NAD83	GNIS	2738
16	Rock Springs	-107.223924	34.020619	NAD83	GNIS	2469
17	Ryan Hill Spring	-107.120589	33.929231	NAD83	GNIS	2247
18	Sawmill Spring	-107.157256	33.906731	NAD83	GNIS	2059
19	Shakespeare Spring	-107.141423	34.048953	NAD83	GNIS	2341
20	Sixmile Spring	-107.146701	33.973953	NAD83	GNIS	2651
21	Strozzi Su Spring	-107.148368	34.062564	NAD83	GNIS	2229
22	Tlp Top Spring	-107.163368	34.10812	NAD83	GNIS	2023
23	Upper Garcia Canyon Spring	-107.173646	34.053397	NAD83	GNIS	2693
24	Wet Weather Spring	-107.100034	34.028676	NAD83	GNIS	2086
25	Wet Weather Spring	-107.252258	34.02423	NAD83	GNIS	2292

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Magdalena Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
1	Agua Fria Spring	13020209	Rio Salado	1302020906	La Jencia Creek
2	Baldy Spring	13020203	Rio Grande-Albuquerque	1302020312	Tiffany Canyon-Rio Grande
3	Bear Canyon Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
4	Box Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
5	Cabin Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
6	Elephant Spring	13020209	Rio Salado	1302020906	La Jencia Creek
7	Garcia Canyon Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
8	Hell Canyon Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
9	Italian Spring	13020203	Rio Grande-Albuquerque	1302020312	Tiffany Canyon-Rio Grande
10	Mill Canyon Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
11	Molino Spring	13020203	Rio Grande-Albuquerque	1302020311	Walnut Creek-Rio Grande
12	Oak Spring	13020209	Rio Salado	1302020906	La Jencia Creek
13	Pony Spring	13020209	Rio Salado	1302020906	La Jencia Creek
14	Rock Header Tank	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
15	Rock Slide Spring	13020203	Rio Grande-Albuquerque	1302020312	Tiffany Canyon-Rio Grande
16	Rock Springs	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch
17	Ryan Hill Spring	13020203	Rio Grande-Albuquerque	1302020312	Tiffany Canyon-Rio Grande
18	Sawmill Spring	13020203	Rio Grande-Albuquerque	1302020312	Tiffany Canyon-Rio Grande
19	Shakespeare Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
20	Sixmile Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
21	Strozzi Su Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
22	Tlp Top Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
23	Upper Garcia Canyon Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
24	Wet Weather Spring	13020203	Rio Grande-Albuquerque	1302020310	Arroyo de La Matanza-Rio Grande
25	Wet Weather Spring	13020211	Elephant Butte Reservoir	1302021102	Milligan Gulch

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Magdalena Mountain Springs, Magdalena Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
1	Agua Fria Spring	Tnr	Tertiary	felsic volcanic rock	intermediate volcanic rock
2	Baldy Spring	Turp	Tertiary	tuff	pyroclastic
3	Bear Canyon Spring	Tnr	Tertiary	felsic volcanic rock	intermediate volcanic rock
4	Box Spring	Turp	Tertiary	tuff	pyroclastic
5	Cabin Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
6	Elephant Spring	Turp	Tertiary	tuff	pyroclastic
7	Garcia Canyon Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
8	Hell Canyon Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
9	Italian Spring	Turp	Tertiary	tuff	pyroclastic
10	Mill Canyon Spring	Tnr	Tertiary	felsic volcanic rock	intermediate volcanic rock
11	Molino Spring	Turp	Tertiary	tuff	pyroclastic
12	Oak Spring	Ti	Tertiary	plutonic rock (phaneritic)	
13	Pony Spring	Tlv	Tertiary	volcanic rock (aphanitic)	intermediate volcanic rock
14	Rock Header Tank	Tsf	Tertiary	coarse-grained mixed clastic	unconsolidated deposit
15	Rock Slide Spring	Turp	Tertiary	tuff	pyroclastic
16	Rock Springs	Tnr	Tertiary	felsic volcanic rock	intermediate volcanic rock
17	Ryan Hill Spring	Turp	Tertiary	tuff	pyroclastic
18	Sawmill Spring	Turp	Tertiary	tuff	pyroclastic
19	Shakespeare Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
20	Sixmile Spring	Turp	Tertiary	tuff	pyroclastic
21	Strozzi Su Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
22	Tlp Top Spring	Qp/QTsf	Quaternary	alluvium	
23	Upper Garcia Canyon Spring	Yp	Middle Proterozoic	plutonic rock (phaneritic)	
24	Wet Weather Spring	Qp/QTsf	Quaternary	alluvium	
25	Wet Weather Spring	Tnr	Tertiary	felsic volcanic rock	intermediate volcanic rock

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Gallinas Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Protocol Longitude (DD)*	Protocol Latitude (DD)*	Protocol Datum	Protocol Source**	Elevation (m) DEM (60m)
1	Cement Spring	-105.810139	34.244342	NAD83	USFS	2366
2	Gallinas Spring	-105.782779	34.236738	NAD83	GNIS	2359

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Gallinas Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Hydrologic Unit Code 08	Hydrologic Unit Code 08 Name	Hydrologic Unit Code 10	Hydrologic Unit Code 10 Name
1	Cement Spring	13050001	Western Estancia	1305000108	Mesa de Los Jumanos
2	Gallinas Spring	13050003	Tularosa Valley	1305000301	Sacate Draw

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.

The Gallinas Mountain Springs, Mountainair Ranger District, Cibola National Forest

	Spring Name	Geologic Symbol***	Geologic Unit Age	Rock Type 1	Rock Type 2
1	Cement Spring	Ti	Tertiary	plutonic rock (phaneritic)	
2	Gallinas Spring	Ti	Tertiary	plutonic rock (phaneritic)	

*Spring Location Protocol explanation is found in Appendix I.

** For Topo Protocol Source, 1:20,000 quadrangle map measurements were converted to decimal degrees.

*** Geologic symbol explanation is found in Figure 4.