



SYSTEM	STRATIGRAPHIC UNIT	THICKNESS, IN FEET	DESCRIPTION
QUATERNARY	Alluvium	0-200	Sand, silt, and gravel, fine to coarse grained; generally drained. Not a good aquifer. Members, but in very good to fine Rivers and flood plains.
	Terrace deposits	0-30	Clayey sand to large boulders. Not known to yield water.
TERTIARY	Cub Mountain Formation of Bodine (1956)	2,000-3,000	Interbedded sandstone and shale, purple, red, and yellow. Lower sands may yield fair quantity of water.
	Mesa Verde Group	500-1,000	Sandstone, yellowish brown, interbedded with dark gray shale, lignite, and coal. Upper sands and coal beds may yield fair quantities of water.
CRETACEOUS	Manos Shale	400-500	Shale, black, soft, with thin bentonite seams at base and thin limestone beds in lower part. Poor aquifer.
	Dakota Sandstone	125-175	Red sandstone and sandstone with shale, siltstone and upper sandstone, silica cementation, not stained. Fairly good aquifer.
TRIASSIC	Dookum Group	300-400	Reddish, shale, siltstone and sandstone (Santa Rosa Sandstone and Clinton Formation). Poor aquifer.
	San Andres Limestone	300-1,000	Limestone, thin to thick bedded, gray, fossiliferous dolomite in the lower part, generally good aquifer in the lower part. Members of San Andres.
PERMIAN	Yesso Formation	1,000-1,500	Siltstone, interbedded limestone, dolomite, shale, and fine-grained sandstone, yellow and pink. Limestone units are good aquifers. Most wells on reservation are in Yesso.
	Abbo Formation	0-800	Artesic conglomerate, sandstone, and shale; red. Does not yield water to well on reservation.
PRECAMBRIAN		?	Quartzite and gneiss.

EXPLANATION	GENERALIZED STRATIGRAPHIC COLUMN
Limestone	
Dolomite	
Sandstone	
Conglomerate	
Lignite	
Shale	
Siltstone	
Bentonite	
Quartzite	
Gneiss	

Index No.	Location	Name of spring	Altitude of land surface (feet)	Estimated yield (gpm)	Stratigraphic unit (See map explanation)	Conductance (micromhos at 25°C)	Total dissolved solids (mg/l)	Sulfate (mg/l)	Hardness (as CaCO <sub>3</sub> ) (mg/l)	Water temp. (°C)	Date of collection
1	NE1/4SW1/4 8 128 12E	Andy Little	7,200	10	Th	---	---	---	---	---	---
2	SE1/4SW1/4 10 128 12E	Joe Zed	7,200	10	Th	---	---	---	---	---	---
3	NE1/4SW1/4 5 128 12E	Carro	7,200	3	Th	---	---	---	---	---	---
4	NE1/4SW1/4 4 128 12E	Stover	7,200	1-2	Th	---	---	---	---	---	---
5	NE1/4SW1/4 9 128 14E	Turkey	7,200	3	Th	---	---	---	---	---	---
6	NE1/4SW1/4 18 148 14E	Whitall	7,200	3	Th	---	---	---	---	---	---
7	SW1/4SW1/4 27 128 14E	North	6,700	3	Th	---	---	---	---	---	---
8	SW1/4SW1/4 27 128 14E	South	6,700	3	Th	---	---	---	---	---	---
9	SW1/4SW1/4 27 128 14E	Cherokee	7,275	40	Th	---	---	---	---	---	---
10	SW1/4SW1/4 10 148 12E	Head	7,400	200	Th	---	---	---	---	---	---
11	SW1/4SW1/4 12 148 12E	Head	7,400	200	Th	---	---	---	---	---	---
12	SW1/4SW1/4 12 148 12E	Head	7,400	200	Th	---	---	---	---	---	---
13	SW1/4SW1/4 12 148 12E	Dripping	7,100	15	Th	---	---	---	---	---	---
14	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
15	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
16	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
17	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
18	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
19	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
20	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
21	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
22	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
23	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
24	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
25	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
26	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
27	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---
28	SW1/4SW1/4 14 128 12E	Five Springs	7,400	1-2	Th	---	---	---	---	---	---

Index No.	Location	Name of well	Altitude of land surface (feet)	Depth of water (feet)	Estimated yield (gpm)	Aquifer (See map explanation)	Conductance (micromhos at 25°C)	Total dissolved solids (mg/l)	Sulfate (mg/l)	Hardness (as CaCO <sub>3</sub> ) (mg/l)	Water temp. (°C)	Date of collection
1	NW1/4SW1/4 5 118 10E	ITA	5,800	5.68	67	Qal	---	---	---	---	---	---
2	NE1/4SW1/4 9 118 10E	Three Rivers	5,800	5.90	127	Qal	---	---	---	---	---	---
3	NW1/4SW1/4 10 118 10E	Shasta	5,800	5.68	222	Qal	---	---	---	---	---	---
4	SE1/4SW1/4 12 118 10E	Kline Hole	5,925	5.84	121	Qal	---	---	---	---	---	---
5	NE1/4SW1/4 10 118 10E	Penon Canyon	5,925	5.84	121	Qal	---	---	---	---	---	---
6	SW1/4SW1/4 28 118 11E	Campbell	5,500	5.41	53	Qal	---	---	---	---	---	---
7	SW1/4SW1/4 128 111E	Maree	6,116	6.04	560	Qal	---	---	---	---	---	---
8	SW1/4SW1/4 128 111E	Black Mountain	6,000	6.05	365	Qal	---	---	---	---	---	---
9	SW1/4SW1/4 28 118 12E	Iron Rock	6,065	6.45	671	Qal	---	---	---	---	---	---
10	SW1/4SW1/4 28 118 12E	Iron Rock	6,065	6.45	671	Qal	---	---	---	---	---	---
11	SE1/4SW1/4 13 128 12E	Blake	7,352	6.94	400	Qal	---	---	---	---	---	---
12	SW1/4SW1/4 128 12E	Dry Canyon	6,745	6.135	694	Qal	---	---	---	---	---	---
13	NE1/4SW1/4 5 128 12E	Boots	6,508	6.52	432	Qal	---	---	---	---	---	---
14	NW1/4SW1/4 7 128 13E	Prize	7,250	7.182	113	Qal	---	---	---	---	---	---
15	NE1/4SW1/4 10 128 13E	Penon Canyon	6,500	6.50	200	Qal	---	---	---	---	---	---
16	NE1/4SW1/4 30 128 13E	Peter Galton	7,310	6.750	750	Qal	---	---	---	---	---	---
17	SW1/4SW1/4 20 128 13E	Summit	7,610	7.600	710	Qal	---	---	---	---	---	---
18	SE1/4SW1/4 14 128 13E	Penon Canyon	7,600	7.200	300	Qal	---	---	---	---	---	---
19	SW1/4SW1/4 23 128 14E	Chihuahua	7,600	7.274	499	Qal	---	---	---	---	---	---
20	NW1/4SW1/4 24 128 14E	Docton	7,670	6.981	735	Qal	---	---	---	---	---	---
21	SE1/4SW1/4 28 128 14E	Whitall Springs	7,560	7.076	554	Qal	---	---	---	---	---	---
22	SE1/4SW1/4 28 128 14E	Whitall Springs	7,560	7.076	554	Qal	---	---	---	---	---	---
23	SE1/4SW1/4 28 128 14E	Whitall Springs	7,560	7.076	554	Qal	---	---	---	---	---	---
24	SW1/4SW1/4 23 128 15E	Palmita	7,240	6.811	455	Qal	---	---	---	---	---	---
25	NE1/4SW1/4 22 128 15E	Snake	7,116	6.796	485	Qal	---	---	---	---	---	---
26	NE1/4SW1/4 7 128 15E	Osborn	6,416	6.312	481-1	Qal	---	---	---	---	---	---
27	NW1/4SW1/4 9 128 16E	Whitehorse	6,974	6.964	560	Qal	---	---	---	---	---	---
28	NE1/4SW1/4 11 128 16E	Lower	6,500	6.500	150	Qal	---	---	---	---	---	---
29	SE1/4SW1/4 15 128 16E	No. 2	6,130	5.985	397	Qal	---	---	---	---	---	---
30	NE1/4SW1/4 20 128 16E	Adrian	6,500	6.500	150	Qal	---	---	---	---	---	---
31	NW1/4SW1/4 20 128 16E	Adrian	6,500	6.500	150	Qal	---	---	---	---	---	---
32	NE1/4SW1/4 1 138 11E	Joe	6,555	6.551	640	Qal	---	---	---	---	---	---
33	SE1/4SW1/4 1 138 11E	Joe	6,555	6.551	640	Qal	---	---	---	---	---	---
34	NE1/4SW1/4 27 128 12E	Chino	6,500	6.797	115	Qal	---	---	---	---	---	---
35	NW1/4SW1/4 28 128 12E	Irrigation Test	6,500	6.130	600	Qal	---	---	---	---	---	---
36	NW1/4SW1/4 5 138 12E	Old Polva Village	6,500	6.130	600	Qal	---	---	---	---	---	---
37	NW1/4SW1/4 5 138 12E	Old Polva Village	6,500	6.130	600	Qal	---	---	---	---	---	---
38	SE1/4SW1/4 22 128 13E	Harley	7,240	7.135	272	Qal	---	---	---	---	---	---
39	SE1/4SW1/4 27 128 14E	Finch	7,470	7.233	210	Qal	---	---	---	---	---	---
40	SW1/4SW1/4 1 138 15E	Yellow	6,820	6.509	611	Qal	---	---	---	---	---	---
41	NE1/4SW1/4 19 128 15E	Bull	7,070	6.906	268	Qal	---	---	---	---	---	---
42	NW1/4SW1/4 22 128 15E	No. 1	6,700	6.465	454	Qal	---	---	---	---	---	---
43	NW1/4SW1/4 54 138 15E	Remuda	6,630	6.232	430	Qal	---	---	---	---	---	---
44	NE1/4SW1/4 2 138 15E	Sage	7,070	6.962	446	Qal	---	---	---	---	---	---
45	NW1/4SW1/4 5 138 16E	Rock House	6,530	5.960	710	Qal	---	---	---	---	---	---
46	NE1/4SW1/4 10 138 16E	Red Lake	6,251	5.959	585	Qal	---	---	---	---	---	---
47	NE1/4SW1/4 22 138 16E	Deep Lake	6,450	5.854	600	Qal	---	---	---	---	---	---
48	NE1/4SW1/4 10 138 16E	Peña	6,251	5.959	585	Qal	---	---	---	---	---	---
49	SE1/4SW1/4 3 148 15E	Telephone	7,800	7.640	184	Qal	---	---	---	---	---	---
50	NE1/4SW1/4 12 148 15E	Ocears	7,720	7.634	118	Qal	---	---	---	---	---	---
51	SW1/4SW1/4 12 148 15E	Ocears	7,720	7.634	118	Qal	---	---	---	---	---	---
52	NW1/4SW1/4 12 148 15E	Ocears	7,720	7.634	118	Qal	---	---	---	---	---	---
53	NE1/4SW1/4 3 138 14E	Morgan	8,500	8.077	562	Qal	---	---	---	---	---	---
54	NE1/4SW1/4 9 148 14E	Shasta	7,920	7.240	268	Qal	---	---	---	---	---	---
55	NE1/4SW1/4 22 148 14E	Charley	7,740	7.489	396	Qal	---	---	---	---	---	---
56	NE1/4SW1/4 10 148 14E	Old Polva	7,800	7.480	445	Qal	---	---	---	---	---	---
57	SE1/4SW1/4 25 148 15E	Upper Indian	6,833	6.402	500-1	Qal	---	---	---	---	---	---
58	NE1/4SW1/4 6 148 16E	No. 4	6,600	6.234	440	Qal	---	---	---	---	---	---
59	NW1/4SW1/4 10 148 16E	Wash Pan	6,530	6.265	130	Qal	---	---	---	---	---	---
60	NE1/4SW1/4 20 148 16E	Anderson	6,830	6.210	375	Qal	---	---	---	---	---	---
61	NW1/4SW1/4 4 158 14E	Lower Indian	6,240	6.010	400	Qal	---	---	---	---	---	---