# Compilation of Selected Hydrologic Data from the MX Missile-Siting Investigation, East-Central Nevada and Western Utah

By Robin L. Bunch and James R. Harrill

U.S. GEOLOGICAL SURVEY

Open-File Report 84-702

*A product of the Regional Aquifer-System Analysis of the Great Basin–Nevada, Utah, and adjacent states*

**Carson City, Nevada**

**1984**

# Cave Valley, Nevada

## WELL AND WATER LEVEL DATA

| WELL DESCRIPTION | | | | | | WATER LEVEL MEASUREMENTS | | | REMARKS | DATA SOURCE |
|---|---|---|---|---|---|---|---|---|---|---|
| TOWNSHIP RANGE-SECTION | WELL OWNER | YEAR DRILLED | WELL DEPTH (FT) | CASING ID (IN) | LAND ELEV (FT) | MO/YEAR | DEPTH-BELOW SURFACE (FT) | ELEV (FT) | | |
| 10N/63E-25AAB | URRUTIA | | 20 | | 6620 | 3/1980 | 20 | 6600 | GW ELEV/DEPTH EST. | ERTEC 80/NVSEO |
| 9N/64E- 6BDD | PARKER STA. | | | | 6530 | 3/1980 | F | > 6530 | FLOWING WELL | ERTEC 80/NVSEO |
| 9N/64E-18AA | U.S.AIR FORCE | 1979 | 101 | 2 | 6430 | 12/1980 | -- | | DRY OBS.WELL | ERTEC 80 |
| 9N/64E-20AD | U.S.AIR FORCE | 1980 | 200 | 2 | 6345 | 11/1980 | | | WELL COLLAPSED | ERTEC 80 |
| 9N/64E-27BDC | BLM | | 315 | | 6400 | 3/1980 | 239 | 6161 | | ERTEC 80/NVSEO |
| 8N/64E- 4ABD | | | | | 6235 | 3/1980 | 141 | 6094 | | ERTEC 80/NVSEO |
| 8N/64E-15BCB | HARRIS | 1968 | 375 | | 6159 | 3/1980 | 280 | 5879 | | ERTEC 80/NVSEO |
| 8N/64E-30CDB | URRUTIA | | | 6 | 6080 | 3/1980 | 322 | 5758 | | ERTEC 80/NVSEO |
| 7N/63E-14AB | U.S.AIR FORCE | 1950 | 462 | 10 | 6009 | 10/1980 | 229 | 5780 | TEST WELL | ERTEC 80 |
| 7N/63E-14AB1 | U.S.AIR FORCE | 1980 | 458 | 2 | 6010 | 10/1980 | 231 | 5779 | OBSERVATION WELL | ERTEC 80 |
| 7N/63E-15DAC | BLM | 1943 | 385 | 6 | 6020 | 3/1980 | 233 | 5787 | | ERTEC 80/NVSEO |
| 7N/64E-19DDD | GULF OIL | | 265 | | 6000 | 3/1980 | 215 | 5785 | | ERTEC 80/NVSEO |

## SELECTED WATER QUALITY DATA

| ID. NO. | TOWNSHIP RANGE-SECT | SRCE | MO YR | STATION NAME | TEMP DEG C | SP. COND | PH | DISS. SOLIDS | SILICA (SIO2) | CALCIUM (CA) | MAGNESIUM (MG) | SODIUM (NA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10N/63E-25AAB | WE | 3-80 | URRUTIA WELL | 4.0 | 510 | 7.2 | -- | -- | 51 | 12 | 10 |
| 2 | 9N/64E-16BAD | SP | 3-80 | CAVE VALLEY SPR. | 12.0 | 180 | 7.3 | -- | 2.1 | 16 | 4.0 | 5.1 |
| 3 | 8N/64E- 4ABD | WE | 3-80 | CV SEEDING WELL | -- | 4100 | 7.5 | -- | 1.3 | 24 | 6.7 | 7.5 |
| 4 | 8N/64E-15BCB | WE | 3-80 | HARRIS WELL | 10.0 | 468 | 7.3 | -- | 1.1 | 49 | 13 | 6.2 |
| 5 | 7N/63E-14AB2 | WE | 10-80 | USAF TEST WELL | 11.0 | -- | -- | 263 | 49 | 36 | 20 | 15 |
| 6 | 7N/63E-14AB2 | WE | 10-80 | USAF TEST WELL | 11.0 | -- | -- | 249 | 50 | 35 | 20 | 13 |
| 7 | 7N/63E-14AB2 | WE | 10-80 | USAF TEST WELL | 11.0 | -- | -- | 256 | 49 | 36 | 20 | 13 |
| 8 | 7N/63E-14AB2 | WE | 10-80 | USAF TEST WELL | 11.0 | -- | -- | 263 | 49 | 36 | 20 | 13 |
| 9 | 7N/63E-14AB2 | WE | 10-80 | USAF TEST WELL | 11.0 | -- | -- | -- | -- | -- | -- | -- |
| 10 | 7N/64E-33DCA | SP | 8-79 | SIDEHILL SPRING | 17.0 | -- | 7.6 | 740 | -- | 31 | -- | 11 |
| 11 | 6N/63E-19ADB | SP | 8-79 | HORSE SPRING | 16.0 | -- | 8.0 | 860 | -- | 25 | -- | 11 |

| ID. NO. | POTASSIUM (K) | CARBONATE (CO3) | BICARB. (HCO3) | CHLORIDE (CL) | SULFATE (SO4) | FLUORIDE (F) | NITRATE (N) | BORON (B) | IRON (FE) | MANGANESE (MN) | REMARKS | REFERENCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.0 | 0 | 160 | 14 | 20 | .2 | 2.4 | -- | -- | -- | *1 | ERTEC 80 |
| 2 | .6 | 0 | 80 | 3.2 | 9 | .0 | 4.4 | -- | -- | -- | *1 | ERTEC 80 |
| 3 | 1.4 | 0 | 120 | 8.9 | 4 | .1 | .4 | -- | -- | -- | *1 | ERTEC 80 |
| 4 | .9 | 0 | 200 | 2.5 | ND | .0 | 1.2 | -- | -- | -- | *1 | ERTEC 80 |
| 5 | 4.6 | 0 | 197 | 15 | 19 | .1 | 1.3 | -- | -- | -- | *1 | ERTEC 80 |
| 6 | 4.7 | -- | 200 | 15 | 19 | .1 | 1.3 | -- | -- | -- | *1 | ERTEC 80 |
| 7 | 4.6 | -- | 196 | 14 | 19 | .1 | 1.4 | -- | ND | 10.0 | *1 | ERTEC 80 |
| 8 | 4.6 | -- | 197 | 15 | 19 | 1.0 | 1.3 | -- | -- | -- | *1 | ERTEC 80 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 60 | -- | | ERTEC 80 |
| 10 | .9 | 0 | 250 | 11 | 11 | -- | .3 | -- | -- | -- | *1,*4 | BLM SOS |
| 11 | 1.2 | 5 | 290 | 16 | 15 | -- | 1.2 | -- | -- | -- | *1,*4 | BLM SOS |

NOTE: SAMPLES FOR WATER QUALITY ANALYSIS COLLECTED BY ERTEC EXCEPT WHERE NOTED. ALL ANALYSIS REPORTED IN MG/L EXCEPT AS NOTED BELOW.
DISSOLVED SOLIDS FOR ERTEC SAMPLES DETERMINED BY RESIDUE -ON- EVAPORATION AT 180 DEGREE C.
NEVADA LOCATIONS BASED ON MT. DIABLO BASELINE. UTAH LOCATIONS BASED ON SALT LAKE BASELINE AND MERIDIAN.
SPECIFIC CONDUCTANCE REPORTED IN MICROMHOS/CM AT 25 DEGREES C.

THE FOLLOWING CONSTITUENTS ARE REPORTED IN MICROGRAMS/LITER:
BORON IRON MANGANESE

FOOT *1 NITRATE REPORTED AS N
NOTES: *2 NITRATE REPORTED AS NO3
*3 NITRITE + NITRATE REPORTED AS N
*4 DISSOLVED SOLIDS BY SUM OF DETERMINED CONSTITUENTS
*5 NA+K AS NA
*6 HCO3+CO3 AS HCO3
ND = NOT DETECTED

## DISCHARGE MEASUREMENTS

| TOWNSHIP RANGE-SECTION | SOURCE | STATION NAME | MO/YEAR MEASURED | DISCHARGE (GPM) | LAND ELEV (FT) | REMARKS | DATA SOURCE |
|---|---|---|---|---|---|---|---|
| 9N/64E-16BAD | SP | CAVE VALLEY SPR. | 3/1980 | 1000 | 6500 | DISCHARGE EST. | ERTEC 80 |
| 7N/64E-33DCA | SP | SIDEHILL SPRING | 3/1980 | 1.0 | 6600 | DISCHARGE <1GPM | ERTEC 80 |
| 6N/63E-19ADB | SP | HORSE SPRING | 3/1980 | 1.0 | 6500 | DISCHARGE <1GPM | ERTEC 80 |

# Delamar Valley, Nevada

## WELL AND WATER LEVEL DATA

| WELL DESCRIPTION | | | | | | WATER LEVEL MEASUREMENTS | | | REMARKS | DATA SOURCE |
|---|---|---|---|---|---|---|---|---|---|---|
| TOWNSHIP RANGE-SECTION | WELL OWNER | YEAR DRILLED | WELL DEPTH (FT) | CASING ID (IN) | LAND ELEV (FT) | MO/YEAR | DEPTH-BELOW SURFACE (FT) | ELEV (FT) | | |
| 4S/63E-23DD | | | 61 | | 4835 | 11/1966 | -- | | DRY | NV STATE ENG 79 |
| 4S/63E-24CD | HARRISON | 1967 | 360 | | 4850 | 7/1967 | -- | | DRY/UNCASED | NV STATE ENG 79 |
| 6S/63E-12ADA1 | U.S.AIR FORCE | 1980 | 1195 | | 4710 | 5/1980 | 871 | 3839 | TEST WELL | ERTEC 80 |
| 6S/63E-12ADA2 | U.S.AIR FORCE | 1980 | 981 | 2 | 4710 | 4/1981 | 867 | 3843 | OBSERVATION WELL | ERTEC |
| 7S/64E-12DD | STEWART | 1964 | 90 | 8 | 5800 | 5/1980 | 38 | 5762 | | ERTEC 80/NVSEO |
| 7S/64E-19 | GULF OIL CO. | 1966 | 265 | 6 | 4750 | /1966 | 225 | 4525 | | NV STATE ENG 79 |

## SELECTED WATER QUALITY DATA

| ID. NO. | TOWNSHIP RANGE-SECT | SRCE | MO YR | STATION NAME | TEMP DEG C | SP. COND | PH | DISS. SOLIDS | SILICA (SIO2) | CALCIUM (CA) | MAGNESIUM (MG) | SODIUM (NA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3S/62E-25AB | SP | 5-80 | PAHROC SPRING | 15.0 | 190 | 7.0 | -- | 23 | 28 | 7.6 | 13 |
| 2 | 5S/62E-34BD | SP | 5-80 | TWIN SPRINGS | 13.0 | 365 | 7.9 | -- | 63 | 33 | 84 | 20 |
| 3 | 5S/64E- 2C | SP | 5-80 | GRASSY SPRING | 11.0 | 650 | 7.2 | -- | 48 | 67 | 15 | 36 |
| 4 | 6S/63E-12ADA1 | WE | 5-80 | USAF TEST WELL | 26.0 | 285 | -- | 213 | 31 | 21 | 5.2 | 42 |

| ID. NO. | POTASSIUM (K) | CARBONATE (CO3) | BICARB. (HCO3) | CHLORIDE (CL) | SULFATE (SO4) | FLUORIDE (F) | NITRATE (N) | BORON (B) | IRON (FE) | MANGANESE (MN) | REMARKS | REFERENCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.0 | 0 | 151 | 12 | 12 | .2 | .6 | ND | ND | ND | *1 | ERTEC 80 |
| 2 | 2.1 | 0 | 195 | 11 | 20 | .1 | .6 | -- | -- | -- | *1 | ERTEC 80 |
| 3 | .5 | 0 | 273 | 36 | 56 | .2 | 3.5 | -- | -- | -- | *1 | ERTEC 80 |
| 4 | 2.7 | 0 | 152 | 5.1 | 25 | .5 | .9 | -- | -- | -- | *1 | ERTEC 80 |

NOTE: SAMPLES FOR WATER QUALITY ANALYSIS COLLECTED BY ERTEC EXCEPT WHERE NOTED. ALL ANALYSIS REPORTED IN MG/L EXCEPT AS NOTED BELOW.
DISSOLVED SOLIDS FOR ERTEC SAMPLES DETERMINED BY RESIDUE -ON- EVAPORATION AT 180 DEGREE C.
NEVADA LOCATIONS BASED ON MT. DIABLO BASELINE. UTAH LOCATIONS BASED ON SALT LAKE BASELINE AND MERIDIAN.
SPECIFIC CONDUCTANCE REPORTED IN MICROMHOS/CM AT 25 DEGREES C.

THE FOLLOWING CONSTITUENTS ARE REPORTED IN MICROGRAMS/LITER:
BORON IRON MANGANESE

FOOT NOTES: *1 NITRATE REPORTED AS N
*2 NITRATE REPORTED AS NO3
*3 NITRITE + NITRATE REPORTED AS N
*4 DISSOLVED SOLIDS BY SUM OF DETERMINED CONSTITUENTS
*5 NA+K AS NA
*6 HCO3+CO3 AS HCO3
ND = NOT DETECTED

## DISCHARGE MEASUREMENTS

| TOWNSHIP RANGE-SECTION | SOURCE | STATION NAME | MO/YEAR MEASURED | DISCHARGE (GPM) | LAND ELEV (FT) | REMARKS | DATA SOURCE |
|---|---|---|---|---|---|---|---|
| 3S/62E-25AB | SP | PAHROC SPRING | 5/1980 | 4.0 | 5500 | | ERTEC 80 |
| 5S/62E-34BD | SP | TWIN SPRINGS | 5/1980 | 20 | 6300 | | ERTEC 80 |
| 5S/64E- 2C | SP | GRASSY SPRING | 5/1980 | 7.0 | 6100 | | ERTEC 80 |
| 7S/64E-24CC | SP | JUMBO SPRING | 5/1980 | 2.0 | 6220 | GPM ESTIMATED | ERTEC 80 |

# Dry Lake Valley, Nevada

## WELL AND WATER LEVEL DATA

| WELL DESCRIPTION | | | | | | WATER LEVEL MEASUREMENTS | | | REMARKS | DATA SOURCE |
|---|---|---|---|---|---|---|---|---|---|---|
| TOWNSHIP RANGE-SECTION | WELL OWNER | YEAR DRILLED | WELL DEPTH (FT) | CASING ID (IN) | LAND ELEV (FT) | MO/YEAR | DEPTH-BELOW SURFACE (FT) | ELEV (FT) | | |
| 3N/63E-27CA | U.S.AIR FORCE | 1980 | 2395 | 10 | 5390 | 2/1981 | 851 | 4539 | CARB.TEST WELL | ERTEC |
| 3N/64E-20BAC | BLM | 1960 | 350 | 6 | 5067 | /1960 | 317 | 4750 | | EAKIN 63 |
| 3N/65E-21DBA | DELMUE | 1962 | 51 | | 5451 | /1962 | 45 | 5406 | | USGS 79 |
| 2N/65E- 6B1 | | | 376 | | 5075 | | -- | | DRY | EAKIN 63 |
| 1N/64E-24A1 | LYTLE & OTHERS | 1959 | 515 | 5 | 4700 | 1/1959 | 398 | 4302 | | EAKIN 63 |
| 1N/65E- 2AAC | | | 12 | 48 | 5660 | | 10 | 5650 | BUG WELL | EAKIN 63 |
| 3S/64E-12AC1 | U.S.AIR FORCE | 1980 | 1305 | 2 | 4645 | 2/1981 | 383 | 4262 | OBSERVATION WELL | ERTEC |
| 3S/64E-12AC2 | U.S.AIR FORCE | 1950 | 1012 | 10 | 4645 | 2/1981 | 395 | 4250 | TEST WELL | ERTEC |

## SELECTED WATER QUALITY DATA

| ID. NO. | TOWNSHIP RANGE-SECT | SRCE | MO YR | STATION NAME | TEMP DEG C | SP. COND | PH | DISS. SOLIDS | SILICA (SIO2) | CALCIUM (CA) | MAGNESIUM (MG) | SODIUM (NA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3N/63E-27CA | WE | 12-80 | USAF TEST WELL | 27.0 | 650 | 7.3 | 366 | 24 | 76 | 30 | 18 |
| 2 | 3N/65E-21DBA | WE | -15 | BRISTOL WELL | -- | -- | -- | -- | 49 | 76 | 33 | 37 |
| 3 | 3N/65E-31CC | SP | 8-79 | | 24.0 | 470 | 6.8 | -- | 43 | 40 | 10.0 | 21 |
| 4 | 2N/63E-13CBA | SP | 8-79 | COYOTE SPRING | 20.0 | 550 | 6.8 | -- | 79 | 82 | 13 | 49 |
| 5 | 2S/63E-22BC | SP. | 5-80 | WHEATGRASS SPR. | 13.0 | 415 | 7.0 | -- | -- | -- | -- | -- |
| 6 | 2S/64E- 8BDB | SP | 8-79 | | 26.0 | 443 | 6.9 | -- | 44 | 83 | 10.0 | 53 |
| 7 | 3S/63E- 5CB | SP | 5-80 | LITTLE BOULDER SPR. | 13.0 | 250 | 6.8 | -- | 19 | 28 | 7.9 | 12 |
| 8 | 3S/64E-12AC2 | WE | 4-80 | USAF TEST WELL | 24.0 | 480 | 7.9 | 292 | 1.4 | 20 | 10 | 76 |
| 9 | 4S/64E-24BA | SP | 5-80 | SEVEN OAK SPR. | 8.0 | 815 | 7.6 | -- | -- | -- | -- | -- |

| ID. NO. | POTASSIUM (K) | CARBONATE (CO3) | BICARB. (HCO3) | CHLORIDE (CL) | SULFATE (SO4) | FLUORIDE (F) | NITRATE (N) | BORON (B) | IRON (FE) | MANGANESE (MN) | REMARKS | REFERENCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.5 | 0 | 404 | 5.0 | 20 | .6 | ND | -- | -- | -- | -- | ERTEC 80 |
| 2 | | 0 | 187 | 110 | 71 | -- | 32 | -- | -- | -- | -- *2,*5 | EAKIN 63 |
| 3 | 2.5 | 0 | 214 | 17 | 21 | .2 | .4 | -- | -- | -- | -- *1 | ERTEC 79 |
| 4 | 7.6 | 0 | 292 | 25 | 25 | .5 | ND | -- | -- | -- | -- | ERTEC 79 |
| 5 | -- | 0 | 351 | -- | -- | -- | -- | -- | -- | -- | -- | ERTEC 80 |
| 6 | 7.1 | 0 | 320 | 30 | 54 | .4 | 1.4 | -- | -- | -- | -- *1 | ERTEC 79 |
| 7 | 3.0 | 0 | 137 | 3.0 | 15 | .1 | .2 | -- | -- | -- | -- *1 | ERTEC 80 |
| 8 | 5.2 | 1 | 219 | 21 | 44 | -- | 6.7 | -- | 190 | -- | -- *1,*4 | ERTEC 80 |
| 9 | -- | 0 | 303 | -- | -- | -- | -- | -- | -- | -- | -- | ERTEC 80 |

NOTE: SAMPLES FOR WATER QUALITY ANALYSIS COLLECTED BY EPTEC EXCEPT WHERE NOTED. ALL ANALYSIS REPORTED IN MG/L EXCEPT AS NOTED BELOW.
DISSOLVED SOLIDS FOR ERTEC SAMPLES DETERMINED BY RESIDUE -ON- EVAPORATION AT 180 DEGREE C.
NEVADA LOCATIONS BASED ON MT. DIABLO BASELINE. UTAH LOCATIONS BASED ON SALT LAKE BASELINE AND MERIDIAN.
SPECIFIC CONDUCTANCE REPORTED IN MICROMHOS/CM AT 25 DEGREES C.

THE FOLLOWING CONSTITUENTS ARE REPORTED IN MICROGRAMS/LITER:
BORON IRON MANGANESE

FOOT *1 NITRATE REPORTED AS N
NOTES:*2 NITRATE REPORTED AS NO3
*3 NITRITE + NITRATE REPORTED AS N
*4 DISSOLVED SOLIDS BY SUM OF DETERMINED CONSTITUENTS
*5 NA+K AS NA
*6 HCO3+CO3 AS HCO3
ND = NOT DETECTED

## DISCHARGE MEASUREMENTS

| TOWNSHIP RANGE-SECTION | SOURCE | STATION NAME | MO/YEAR MEASURED | DISCHARGE (GPM) | LAND ELEV (FT) | REMARKS | DATA SOURCE |
|---|---|---|---|---|---|---|---|
| 3N/65E-31CC | SP | | 8/1979 | 3.0 | 5100 | | ERTEC 79 |
| 2N/63E-13CBA | SP | COYOTE SPRING | 8/1979 | 1.0 | 5340 | | ERTEC 79 |
| 2S/63E-22BC | SP | WHEATGRASS SPR. | 5/1980 | 2.0 | 5400 | | ERTEC 80 |
| 4S/64E-24BA | SP | SEVEN OAK SPR. | 5/1980 | 0.5 | 5730 | | ERTEC 80 |
| 4S/64E-25DD | SP | RED ROCK SPR. | 5/1980 | 1.0 | 6100 | DISCHARGE <1GPM | ERTEC 80 |

# Dry Lake Valley, Nevada
# (Muleshoe Valley)

## WELL AND WATER LEVEL DATA

| WELL DESCRIPTION | | | | | | WATER LEVEL MEASUREMENTS | | | REMARKS | DATA SOURCE |
|---|---|---|---|---|---|---|---|---|---|---|
| TOWNSHIP RANGE-SECTION | WELL OWNER | YEAR DRILLED | WELL DEPTH (FT) | CASING ID (IN) | LAND ELEV (FT) | MO/YEAR | DEPTH-BELOW SURFACE (FT) | ELEV (FT) | | |
| 5N/64E-11CDC | | | 222 | 5 | 5680 | 6/1981 | -- | | DRY | ERTEC /NVSEO |
| 5N/65E-34DC | WILLIAMS | 1972 | 28 | 14 | 6600 | 5/1972 | 10 | 6590 | | NV STATE ENG 79 |
| 4N/64E- 7DC1 | U.S.AIR FORCE | 1981 | 1253 | 2 | 5540 | 9/1981 | 264 | 5276 | OBSERVATION WELL | ERTEC |
| 4N/64E- 7DC2 | U.S.AIR FORCE | 1981 | 1215 | 10 | 5540 | 9/1981 | 268 | 5272 | TEST WELL | ERTEC |

## SELECTED WATER QUALITY DATA

| ID. NO. | TOWNSHIP RANGE-SECT | SRCE | MO YR | STATION NAME | TEMP DEG C | SP. COND | PH | DISS. SOLIDS | SILICA (SIO2) | CALCIUM (CA) | MAGNESIUM (MG) | SODIUM (NA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5N/64E- 7DDD | SP | 5-80 | BIG MUD SPRING | 14.5 | 530 | 8.0 | -- | -- | 53 | 17 | 17 |
| 2 | 5N/65E-10CAB | SP | 5-80 | HORSE CORRAL SPR. | 12.0 | 465 | 7.4 | -- | -- | 60 | 16 | 26 |
| 3 | 5N/65E-32ADB | SP | 5-80 | MALLOY SPRING | 11.5 | 540 | 6.9 | -- | 76 | 53 | 11 | 180 |
| 4 | 4N/64E- 7DC2 | WE | 7-81 | USAF WELL | -- | -- | -- | 1961 | -- | 10.0 | -- | 38 |
| 5 | 4N/64E- 7DC2 | WE | 7-81 | USAF WELL | -- | -- | -- | 1121 | -- | 13 | -- | 75 |

| ID. NO. | POTASSIUM (K) | CARBONATE (CO3) | BICARB. (HCO3) | CHLORIDE (CL) | SULFATE (SO4) | FLUORIDE (F) | NITRATE (N) | BORON (B) | IRON (FE) | MANGANESE (MN) | REMARKS | REFERENCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.2 | 0 | 264 | 67 | 60 | .2 | 1.0 | -- | -- | -- *1 | | ERTEC 80 |
| 2 | .4 | 0 | 345 | 13 | 37 | .2 | .3 | -- | -- | -- *1 | | ERTEC 80 |
| 3 | 3.9 | 0 | 259 | 39 | 17 | .2 | 1.0 | -- | -- | -- *1 | | ERTEC 80 |
| 4 | 3.4 | 0 | -- | 53 | 17 | -- | -- | -- | 60 | 350 | SHALLOW PIEZOMETER | ERTEC |
| 5 | 5.7 | 0 | -- | 49 | 13 | -- | -- | -- | 20 | 410 | DEEP PIEZOMETER | ERTEC |

NOTE: SAMPLES FOR WATER QUALITY ANALYSIS COLLECTED BY ERTEC EXCEPT WHERE NOTED. ALL ANALYSIS REPORTED IN MG/L EXCEPT AS NOTED BELOW.
DISSOLVED SOLIDS FOR ERTEC SAMPLES DETERMINED BY RESIDUE -ON- EVAPORATION AT 180 DEGREE C.
NEVADA LOCATIONS BASED ON MT. DIABLO BASELINE, UTAH LOCATIONS BASED ON SALT LAKE BASELINE AND MERIDIAN.
SPECIFIC CONDUCTANCE REPORTED IN MICROMHOS/CM AT 25 DEGREES C.

THE FOLLOWING CONSTITUENTS ARE REPORTED IN MICROGRAMS/LITER:
BORON IRON MANGANESE

FOOT *1 NITRATE REPORTED AS N
NOTES: *2 NITRATE REPORTED AS NO3
*3 NITRITE + NITRATE REPORTED AS N
*4 DISSOLVED SOLIDS BY SUM OF DETERMINED CONSTITUENTS
*5 NA+K AS NA
*6 HCO3=CO3 AS HCO3
ND = NOT DETECTED

## DISCHARGE MEASUREMENTS

| TOWNSHIP RANGE-SECTION | SOURCE | STATION NAME | MO/YEAR MEASURED | DISCHARGE (GPM) | LAND ELEV (FT) | REMARKS | DATA SOURCE |
|---|---|---|---|---|---|---|---|
| 7N/64E-25DCC | SP | | 5/1980 | 1.0 | 6400 | DISCHARGE <1GPM | ERTEC 80 |
| 5N/64E- 7DDD | SP | BIG MUD SPRING | 5/1980 | 6.0 | 6380 | | ERTEC 80 |
| 5N/65E-10CAB | SP | HORSE CORRAL SPR. | 5/1980 | 8.0 | 6360 | | ERTEC 80 |
| 5N/65E-15BBA | SP | NORTH MUD SPR. | 5/1980 | 2.0 | 6400 | DISCHARGE EST. | ERTEC 80 |
| 5N/65E-21ABB | SP | | 5/1980 | 3.0 | 6240 | DISCHARGE 2-3GPM | ERTEC 80 |
| 5N/65E-32ADB | SP | MALLOY SPRING | 5/1980 | 82 | | | ERTEC 80 |
| 4N/65E- 4CCB | SP | LITTLE FIELD SPR. | 5/1980 | 10.0 | 6150 | DISCHARGE EST. | ERTEC 80 |
| 4N/65E-29CCD | SP | BAILEY SPRING | 5/1980 | 2.0 | 6350 | DISCHARGE 2-3GPM | ERTEC 80 |

Data and aquifer-test results for wells in valley-fill deposits

Inside diameter of casing: Ten-inch wells were pumped during aquifer test; 2- and 2.5-inch companion wells were used for observation during test.
Duration of test: P, pumping duration; R, recovery duration after pumping.
Transmissivity: NC, test results not conclusive.
Storage coefficient: Volume of water released or stored per unit surface area of the aquifer per unit change in the component of head normal to that surface, dimensionless; "E" signifies that the following number is an exponent of 10; for example, 9.2E-5 indicates $9.2 \times 10^{-5}$, which equals 0.000092; DNA, does not apply; NC, test results not conclusive.
Method of analysis: The following terms indicate a reference that describes the principal method used to analyze the pumping-test data: Cooper—Cooper and Jacob (1946); Neuman—Neuman (1975); Theis—Theis (1935). See "References Cited."
Aquifer conditions: U, unconfined; C, confined.

| Location | Depth of well (feet) | Inside diam. of casing (in.) | Screened interval (feet below land surface) | Static water level (feet below land surface) | Duration of test (hours) | Distance to obs. well (feet) | Discharge (gal/min) | Maximum drawdown (feet) | Transmissivity ($ft^2$/day) | Storage coefficient: Initial | Storage coefficient: Delayed | Method of analysis | Aquifer conditions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Beryl-Enterprise Area, Utah, Well No. BL-VF-T1** | | | | | | | | | | | | | |
| (C-33-17)21DD2 | 353 | 10 | 180–240<br>260–340 | 185.4 | 240P<br>47R | 300 | 600 | 14.1 | 13,000 | DNA | DNA | Theis | C |
| **Beryl-Enterprise Area, Utah, Well No. BL-VF-O1** | | | | | | | | | | | | | |
| (C-33-17)21DD1[a] | 234 | 2 | 189–231 | 175.6 | 240P<br>47R | — | — | 0.0 | NC | NC | NC | None | U |
| | 332 | 2 | 254–322 | 193.2 | 240P<br>47R | — | — | 0.2 | NC | NC | NC | Several | U |
| **Cave Valley, Nev., Well No. CV-I-T-1** | | | | | | | | | | | | | |
| N7 E63 14AB2 | 435 | 10 | 210–250<br>375–435 | 229.0 | 160P<br>20R | 500 | 225 | 114.8 | 8800 | DNA | DNA | Theis | C |
| **Cave Valley, Nev., Well No. CV-I-O-1** | | | | | | | | | | | | | |
| N7 E63 14AB1[a] | 273 | 2 | 200–263 | 231.2 | 160P<br>20R | — | — | 3.6 | 2,400 | 9.2E-5 | 1.3E-2 | Neuman | C |
| | 422 | 2 | 380–422 | 230.6 | 160P<br>20R | — | — | 0.0 | NC | NC | NC | None | |
| **Coal Valley, Nev., Well No. CL-VF-T-1A** | | | | | | | | | | | | | |
| S1 E59 34CB2 | 1315 | 10 | 1,111–1,315 | 849.4 | 240P<br>75R | 550 | 450 | 49.4 | 3,200 | DNA | DNA | Theis | U |
| **Coal Valley, Nev., Well No. CL-VF-O-1** | | | | | | | | | | | | | |
| S1 E59 34CB1[a] | 1452 | 2 | 1,142–1,452 | 862.4 | 240P<br>75R | — | — | 4.1 | 3,700<br>7,000 | 4.0E-4<br>DNA | 1.3E-3<br>DNA | Neuman<br>Theis | U |
| **Delamar Valley, Nev., Well No. DM-TW-2** | | | | | | | | | | | | | |
| S6 E63 12AD2 | 1195 | 10 | 920–980 | 871.0 | 63P | 500 | 85 | 85.3 | NC | DNA | DNA | Several | U |
| | | | 1,040–1,160 | | 26.6R | | | | | | | | |
| **Delamar Valley, Nev., Well No. DM-OW-2** | | | | | | | | | | | | | |
| S6 E63 12AD1[a] | 640 | 2 | 540–630 | Dry | 63P<br>26.6R | — | — | — | NC | NC | NC | None | U |
| | 981 | 2 | 816–847<br>877–940<br>950–971 | 867.3 | 63P<br>26.6R | — | — | 5.3 | 1,100<br>1,300 | NC<br>DNA | NC<br>DNA | Cooper<br>Theis | U |
| **Dry Lake Valley, Nev., Well No. DL-TW-2** | | | | | | | | | | | | | |
| S3 E64 12AC2 | 990 | 10 | 600–620<br>650–670<br>700–720<br>750–770<br>800–820<br>850–870<br>900–920<br>950–970 | 395.0 | 239P<br>135R | 475 | 300 | 44.0 | 2,700<br>NC | DNA<br>DNA | DNA<br>DNA | Cooper<br>Theis | U |
| **Dry Lake Valley, Nev., Well No. DL-OW-2** | | | | | | | | | | | | | |
| S3 E64 12AC1[a] | 795 | 2 | 765–785 | 383.3 | 239P<br>155R | — | — | 7.3 | 3,400<br>5,200 | 5.3E-4<br>DNA | 1.3E-2<br>DNA | Neuman<br>Theis | U |
| | 1300 | 2 | 1,270–1,290 | 383.3 | 239P<br>155R | — | — | 4.4 | 3,700<br>6,500 | 3.9E-3<br>DNA | 5.1E-2<br>DNA | Neuman<br>Theis | U |

Data and aquifer-test results for wells in valley-fill deposits—Continued

| Location | Depth of well (feet) | Inside diam. of casing (in.) | Screened interval (feet below land surface) | Static water level (feet below land surface) | Duration of test (hours) | Dis-tance to obs. well (feet) | Dis-charge (gal/min) | Maximum drawdown (feet) | Trans-missivity ($ft^2$/day) | Storage coefficient: Initial | Storage coefficient: Delayed | Method of analysis | Aquifer conditions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dry Lake Valley, Nev., Northern Part, Well No. MS-VFT-1** | | | | | | | | | | | | | |
| N4 E64 7DC2 | 1170 | 10 | 1,050-1,150 | 268.4 | 144P<br>48R | 330 | 30 | 314.6 | 15<br>44 | DNA<br>DNA | DNA<br>DNA | Cooper<br>Theis | C |
| **Dry Lake Valley, Nev., Northern Part, Well No. MS-VFO-1** | | | | | | | | | | | | | |
| N4 E64 7DC1[a] | 672 | 2 | 630-672 | 270.0 | 144P<br>48R | — | — | 0.0 | NC | NC | NC | None | U |
| | 1134 | 2 | 1,071-1,134 | 264.2 | 144P<br>48R | — | — | 34.9 | 39<br>126 | 1.0E-4<br>DNA | 4.2E-4<br>DNA | Neuman<br>Theis | U |
| **Garden Valley, Nev., Well No. GM-IT-2** | | | | | | | | | | | | | |
| N2 E57 22BA2 | 1010 | 10 | 600-620<br>650-670<br>700-720<br>750-770<br>800-820<br>850-870<br>900-920<br>950-970 | 422.0 | 720P<br>72R | 500 | 510 | 23.0 | 3,200<br>13,000 | DNA<br>DNA | DNA<br>DNA | Cooper<br>Theis | U |
| **Garden Valley, Nev., Well No. GM-IO-1** | | | | | | | | | | | | | |
| N2 E57 22BA1[a] | 315 | 2 | 273-294 | Dry | 720P<br>72R | — | — | — | NC | NC | NC | None | |
| | 1032 | 2 | 820-841<br>890-911<br>930-951<br>990-1,011 | 431.1 | 720P<br>72R | — | — | 4.0 | 12,000<br>13,000 | 6.4E-4<br>DNA | 2.5E-3<br>DNA | Neuman<br>Theis | U |
| **Hamlin Valley, Nev., Well No. HH-ST-1** | | | | | | | | | | | | | |
| N8 E69 35DC2 | 475 | 10 | 320-440 | 158.0 | 120P<br>24R | 500 | 110 | 82.8 | 62<br>60 | NC<br>DNA | NC<br>DNA | Cooper<br>Theis | U |
| **Hamlin Valley, Nev., Well No. HH-SO-1** | | | | | | | | | | | | | |
| N8 E69 35DC1[a] | 475 | 2.5 | 320-420 | 175.6 | 120P<br>24R | — | — | 1.6 | 2,500<br>10,000 | 1.9E-4<br>DNA | 1.0E-2<br>DNA | Neuman<br>Theis | U |
| **Hot Creek Valley, Nev., Well No. HC-ST-1** | | | | | | | | | | | | | |
| N7 E51 10AD1 | 480 | 10 | 80-100<br>160-180<br>200-220<br>240-260<br>280-320<br>340-360<br>380-400<br>420-460 | 237.1 | 97P<br>19R | 500 | 235 | 45.0 | 8,100 | DNA | DNA | Theis | U |
| **Hot Creek Valley, Nev., Well No. HC-SO-1** | | | | | | | | | | | | | |
| N7 E51 10AD2[a] | 480 | 2.5 | 220-240<br>300-320<br>340-360<br>380-400<br>420-460 | 226.1 | 97P<br>19R | — | — | 0.6 | 19,000 | 1.3E-3 | 2.0E-2 | Neuman | U |
| **Hot Creek Valley, Nev., Well No. HC-S-T-2** | | | | | | | | | | | | | |
| N6 E50 27AC1 | 505 | 10 | 325-345<br>365-405<br>425-485 | 292.1 | 120P<br>6R | 500 | 375 | 126.1 | 2,500 | DNA | DNA | Theis | U |
| **Hot Creek Valley, Nev., Well No. HC-S-O-2** | | | | | | | | | | | | | |
| N6 E50 27AC2[a] | 455 | 2.5 | 284-433 | 303.5 | 120P<br>6R | — | — | 10.3 | 1,600<br>9,100 | 1.4E-4<br>DNA | 4.1E-3<br>DNA | Neuman<br>Theis | U<br>U |

Data and aquifer-test results for wells in valley-fill deposits—Continued

| Location | Depth of well (feet) | Inside diam. of casing (in.) | Screened interval (feet below land surface) | Static water level (feet below land surface) | Duration of test (hours) | Distance to obs. well (feet) | Discherge (gal/min) | Maximum drawdown (feet) | Transmissivity ($ft^2$/day) | Storage coefficient: Initial | Storage coefficient: Delayed | Method of analysis | Aquifer conditions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hot Creek Valley, Nev., Southern Part, Well No. HE-VF-T1** | | | | | | | | | | | | | |
| N3 E50 13CA2 | 680 | 10 | 398–418<br>450–478<br>499–519<br>534–579<br>618–658 | 316.5 | 170P<br>72R | 500 | 550 | 90.3 | 11,200 | DNA | DNA | Theis | C |
| **Hot Creek Valley, Nev., Southern Part, Well No. HE-VF-O1** | | | | | | | | | | | | | |
| N3 E50 13CA1[a] | 702.6 | 2 | 660–702 | 321.1 | 170P<br>73R | — | — | 6.4 | 10,000<br>11,400 | 2.2E-4<br>DNA | 1.6E-3<br>DNA | Neuman<br>Theis | U |
| | 405 | 2 | 304–405 | 321.1 | 170P<br>73R | — | — | 6.4 | 5,000<br>15,900 | 1.2E-4<br>DNA | 1.2E-2<br>DNA | Neuman<br>Theis | C |
| **Little Smoky Valley, Nev., Southern Part, Well No. BG-VF-T1** | | | | | | | | | | | | | |
| N8 E53 29DA2 | 573 | 10 | 487–547<br>353–573 | 467.8 | 240P<br>36.5R | 490<br>490 | 435<br>410 | 64.4 | 2,600<br>7,800 | DNA<br>DNA | DNA<br>DNA | Cooper<br>Theis | U |
| **Little Smoky Valley, Nev., Southern Part, Well No. BG-VF-O1** | | | | | | | | | | | | | |
| N8 E53 29DA1[a] | 493 | 2 | 472–493 | 471.6 | 240P<br>36.5R | — | — | 0.0 | NC | NC | NC | None | U |
| | 649 | 2 | 407–649 | 464.4 | 240P<br>36.5R | — | — | 0.0 | NC | NC | NC | None | U |
| **Milford District, Utah, Well No. MD-VFT-1** | | | | | | | | | | | | | |
| (C-31-13)5BB1 | 374 | 10 | 99–139<br>173–193 | 30.7 | 240P<br>67R | 386 | 330 | 87.2 | 3,700 | DNA | DNA | Theis | U |
| **Milford District, Utah, Well No. MD-VFO-1** | | | | | | | | | | | | | |
| (C-31-13)5BB2[a] | 138 | 2.5 | 93–138 | 31.0 | 240P<br>87R | — | — | 4.9 | 3,400<br>6,600 | 4.5E-4<br>DNA | 8.0E-2<br>DNA | Neuman<br>Theis | U |
| | 342 | 2.5 | 300–342 | Dry | 240P<br>87R | — | — | — | NC | NC | NC | None | |
| **Pine Valley, Utah, Well No. PI-IT-1** | | | | | | | | | | | | | |
| (C-26-17)10AA2 | 870 | 10 | 560–630<br>660–680<br>710–740<br>750–770<br>800–820<br>830–850 | 443.0 | 167P<br>120R | 452 | 73 | 103.3 | 320 | DNA | DNA | Theis | U |
| **Pine Valley, Utah, Well No. PI-IO-1** | | | | | | | | | | | | | |
| (C-26-17)10AA1[a] | 882 | 2 | 640–661<br>760–802<br>840–861 | 434.0 | 147P<br>120R | — | — | 9.2 | 330<br>420 | 2.3E-4<br>DNA | 1.6E-3<br>DNA | Neuman<br>Theis | U |
| **Railroad Valley, Nev., Well No. RR-S-T-1** | | | | | | | | | | | | | |
| N3 E52 2DA1 | 461 | 10 | 302–382<br>404–444 | 323.2 | 216P<br>24R | 411 | 733 | 19.0 | 17,000 | DNA | DNA | Theis | U |
| **Railroad Valley, Nev., Well No. RR-S-O-1** | | | | | | | | | | | | | |
| N3 E52 2DA2[a] | 495 | 2.5 | 325–495 | 234.9 | 216P<br>24R | — | — | 3.2 | 11,000<br>17,000 | 1.5E-4<br>DNA | 6.0E-2<br>DNA | Neuman<br>Theis | U |
| **Railroad Valley, Nev., Well No. RR-S-T-2** | | | | | | | | | | | | | |
| N10 E58 17BD2 | 580 | 10 | 278–329<br>360–420<br>441–560 | 280.6 | 676P<br>103R | 480 | 705 | 66.7 | 31,000 | DNA | DNA | Theis | U |

Data and aquifer-test results for wells in valley-fill deposits—Continued

| Location | Depth of well (feet) | Inside diam. of casing (in.) | Screened interval (feet below land surface) | Static water level (feet below land surface) | Duration of test (hours) | Distance to obs. well (feet) | Discharge (gal/min) | Maximum drawdown (feet) | Transmissivity ($ft^2$/day) | Storage coefficient: Initial | Storage coefficient: Delayed | Method of analysis | Aquifer conditions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Railroad Valley, Nev., Well No. RR-S-O-2** | | | | | | | | | | | | | |
| N10 E58 17BD1[a] | 220 | 2 | 94–200 | Dry | 676P<br>103R | — | — | — | | | | | |
| | 600 | 2 | 308–328<br>349–370<br>391–412<br>453–474<br>510–526<br>556–578 | 280.0 | 676P<br>103R | — | — | 8.0 | 7,900<br>20,000 | 3.3E-4<br>DNA | 1.1E-3<br>DNA | Neuman<br>Theis | U |
| **Sevier Desert, Utah, Northwest Part, Well No. WW-IT-1** | | | | | | | | | | | | | |
| (C-15-12)19AD2 | 1023 | 10 | 710–730<br>825–905<br>925–1,005 | 797.4 | 96P<br>24R | 300 | 7 | 101.3 | 4.0 | DNA | DNA | Theis | U |
| **Sevier Desert, Utah, Northwest Part, Well No. WW-IO-1** | | | | | | | | | | | | | |
| (C-15-12)19AD1[a] | 1191 | 2 | 1,044–1,086<br>1,107–1,170 | 794.4 | 96P<br>24R | — | — | 0.0 | NC | NC | NC | None | U |
| **Spring Valley, Nev., Well No. SP-S-T-1** | | | | | | | | | | | | | |
| N9 E68 30AB1 | 699 | 10 | 559–679 | 229.8 | 120P<br>48R | 560 | 600 | 14.0 | NC | DNA | DNA | Theis | U |
| **Spring Valley, Nev., Well No. SP-S-O-1** | | | | | | | | | | | | | |
| N9 E68 30AB2[a] | 247 | 2 | 163–247 | Dry | 120P<br>48R | — | — | — | NC | NC | NC | None | U |
| N9 E68 30AB1[a] | 700 | 2 | 553–700 | 219.3 | 120P<br>48R | — | — | 0.7 | NC | NC | NC | Several | U |
| **Tule Valley, Utah, Well No. TL-S-T-1** | | | | | | | | | | | | | |
| (C-20-14)6DD1 | 620 | 10 | 500–600 | 94.3 | 72.1P<br>36.7R | 300 | 50 | 296.5 | NC | DNA | DNA | Several | C |
| **Tule Valley, Utah, Well No. TL-S-O-1** | | | | | | | | | | | | | |
| (C-20-14)6DD2[a] | 620 | 2.5 | 500–600 | 88.8 | 72.1P<br>36.7R | — | — | 2.2 | NC<br>NC | NC<br>DNA | NC<br>DNA | Cooper<br>Theis | C |
| **Tule Valley, Utah, Well No. TL-S-T-2** | | | | | | | | | | | | | |
| (C-17-15)17CA1 | 400 | 10 | 100–180<br>260–280<br>360–380 | 47.3 | 120P<br>24R | 300 | 235 | 1.0 | NC | DNA | DNA | Theis | U |
| **Tule Valley, Nev., Well No. TL-S-O-2** | | | | | | | | | | | | | |
| (C-17-15)17CA2[a] | 296 | 2.5 | 56–276 | 83.0 | 120P<br>24R | — | — | 0.2 | NC<br>NC | NC<br>DNA | NC<br>DNA | Cooper<br>Theis | U |
| **Wah Wah Valley, Utah, Well No. WA-IT-2** | | | | | | | | | | | | | |
| (C-27-14)28DD2 | 1330 | 10 | 905–945<br>995–1015<br>1,110–1,190<br>1,220–1,300<br>1,310–1,330 | 570.4 | 239.7P<br>24.0R | 305 | 375 | 193.9 | NC | DNA | DNA | Theis | U |
| **Wah Wah Valley, Utah, Well No. WA-IO-2** | | | | | | | | | | | | | |
| (C-27-14)28DD1[a] | 987 | 2 | 693–967 | 369.0 | 239.7P<br>24R | — | — | 1.1 | 12,000<br>16,000 | 1.8E-3<br>DNA | 1.4E-1<br>DNA | Neuman<br>Theis | U |

[a] Multiple piezometers were placed in the same well. There were cased, cemented, and screened at differents intervals.

Data and aquifer-test results for wells in carbonate rocks[1]

| Site | Drilling results: Depth (feet) Total | Depth (feet) Casing[2] | Casing diameter (inches) | Drilling dates Start | Drilling dates End | Aquifer-test results: Depth to water (feet)[3] | Discharge (gal/min) | Transmissivity ($ft^2/d$) | Testing duration |
|---|---|---|---|---|---|---|---|---|---|
| Garden Valley N3 E59 10BD | 1,837 | 0-118 | 10 | 08/17/80 | 12/08/80 | 803 | 95 | 400 | 01/13-16/81 |
| Coyote Spring Valley S13 E63 23DDD | 669 | 0-50.5 | 10 | 11/20/80 | 12/10/80 | 353 | 540 | 40,000 | 12/18-23/80 |
| Coyote Spring Valley S13 E63 23DD | 628 | 0-126 | 20 | 04/14/81 | 05/05/81 | 350 | 3,400 | 250,000 | 07/10-9/28/81 |
| Coyote Spring Valley S13 E64 35DD | 937 | 0-87<br>0-325 | 12-3/4<br>8-5/8 | 05/21/81 | 06/03/81 | 458 | ------- NO AQUIFER TEST ------- | | |
| Dry Lake Valley N3 E63 27CA | 2,395 | 0-347<br>0-775 | 10<br>8 | 10/23/80 | 11/21/80 | 853 | 106 | 13,400 | 12/07-12/80 |
| Steptoe Valley[4] N12 E63 12BA | 2,447 | 0-50<br>0-958 | 8<br>6 | 08/28/80 | 10/13/80 | 427 | 100 | 200 | 01/18-21/81 |

[1] Modified from table 2-1 in report by U.S. Department of the Air Force (1983).

[2] Casing open at bottom. Pumpage is from interval below bottom of casing, except as indicated for Steptoe Valley well in footnote 4.

[3] Static water level at start of aquifer test; datum is land surface.

[4] Hole plugged at 950 feet; casing perforated from 500 to 950 feet. Aquifer test performed through perforated casing.