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# Selected Data for Wells and Test Holes Used in Structure-Contour Maps of the Inyan Kara Group, Minnekahta Limestone, Minnelusa Formation, Madison Limestone, and Deadwood Formation in the Black Hills Area, South Dakota

By Janet M. Carter

Open-File Report 99-260

Prepared in cooperation with the
South Dakota Department of Environment and Natural Resources
and the West Dakota Water Development District

**U.S. Department of the Interior**
Bruce Babbitt, Secretary

**U.S. Geological Survey**
Charles G. Groat, Director

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*By* Janet M. Carter

## ABSTRACT

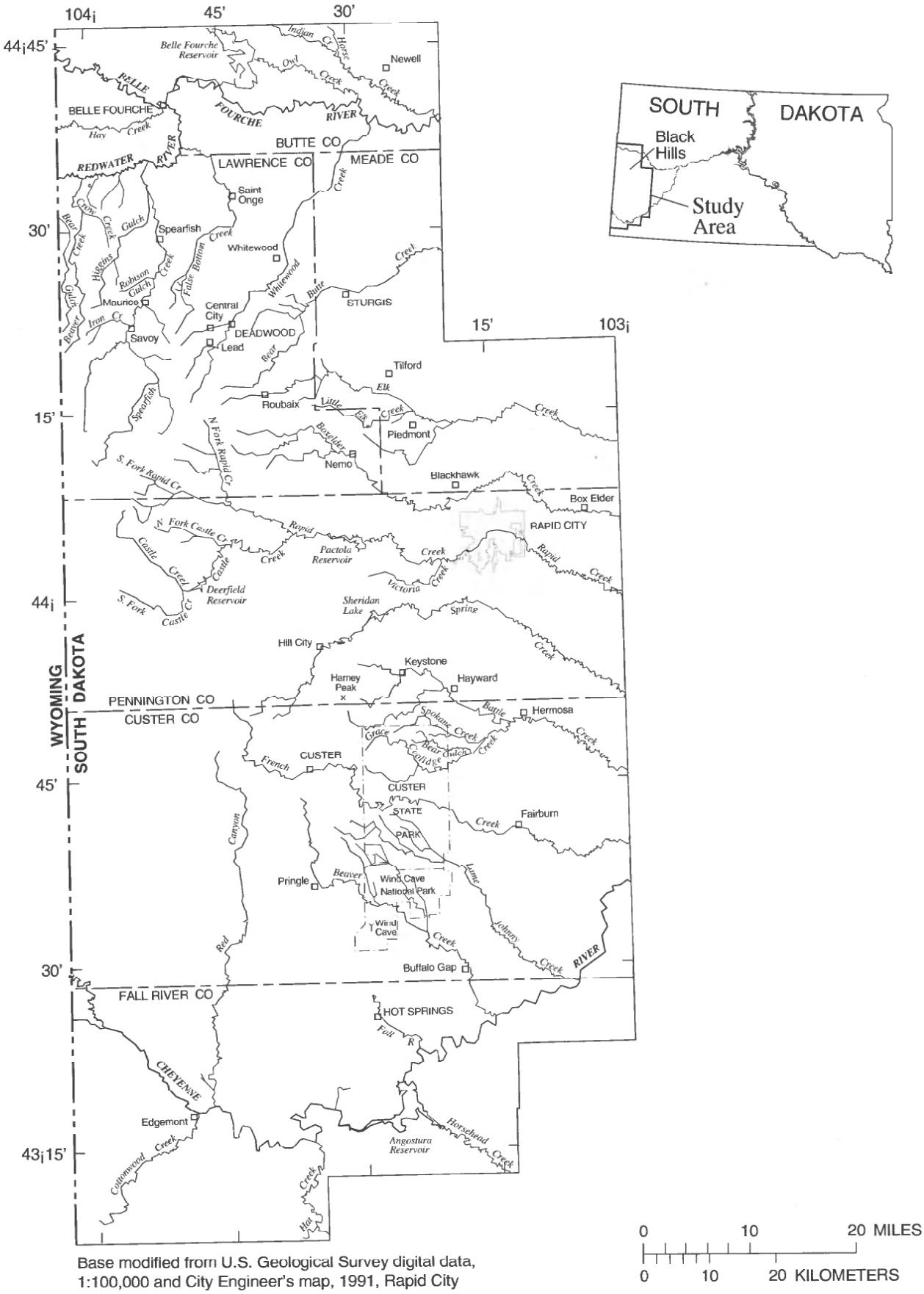
This report presents selected data on wells and test holes that were used in the construction of structure-contour maps of selected formations that contain major aquifers in the Black Hills area of western South Dakota. Altitudes of the top of the Inyan Kara Group, Minnekahta Limestone, Minnelusa Formation, Madison Limestone, and Deadwood Formation are presented for the wells and test holes presented in this report.

## INTRODUCTION

The Black Hills Hydrology Study was initiated in 1990 to assess the quantity, quality, and distribution of surface water and ground water in the Black Hills area of South Dakota (Driscoll, 1992). This long-term study is a cooperative effort between the U.S. Geological Survey (USGS), the South Dakota Department of Environment and Natural Resources, and the West Dakota Water Development District, which represents various local and county cooperators.

The study area (fig. 1) consists of the topographically defined Black Hills and adjacent areas located in western South Dakota. The Black Hills area is an elongated, dome-shaped feature, about 125 miles long and 60 miles wide, which was uplifted during the Laramide orogeny (Feldman and Heimlich, 1980). The oldest geologic units in the study area are Precambrian metamorphic and igneous rocks (fig. 2), which are exposed in the central core of the Black Hills. Surrounding the Precambrian core is a layered series of sedimentary rocks including limestones, sandstones, and shales that are exposed in roughly concentric rings around the uplifted flanks of the Black Hills. The bedrock sedimentary units typically dip away from the uplifted Black Hills at angles that approach or exceed 10 degrees near the outcrops, and decrease with distance from the uplift. Many of the sedimentary units contain aquifers, both within and beyond the study area. Major aquifers in the study area include the Inyan Kara, Minnekahta, Minnelusa, Madison, and Deadwood aquifers (fig. 3). Recharge to these aquifers occurs from infiltration of precipitation upon the outcrops and, in some cases, from infiltration of streamflow (Hortness and Driscoll, 1998). Artesian conditions generally exist within these aquifers, where an upper confining layer is present. Flowing wells and artesian springs that originate from confined aquifers are common around the periphery of the Black Hills.

The purpose of this report is to present selected data for wells and test holes that were used in the construction of maps showing the altitude of the tops of selected formations (structure contours) within the study area. The structure-contour maps presented by Carter and Redden (1999a, 1999b, 1999c, 1999d, 1999e) were produced at a scale of 1:100,000 for the Inyan Kara Group, Minnekahta Limestone, Minnelusa Formation, Madison Limestone, and the Deadwood Formation. Altitudes of the top of the these formations are presented for the wells and test holes in this report.




Base modified from U.S. Geological Survey digital data, 1:100,000 and City Engineer's map, 1991, Rapid City

**Figure 1**. Area of investigation for the Black Hills Hydrology Study.

| ERATHEM | SYSTEM | ABBREVIATION FOR STRATIGRAPHIC INTERVAL | GEOLOGIC UNIT | THICKNESS IN FEET | DESCRIPTION |
|---|---|---|---|---|---|
| CENOZOIC | QUATERNARY & TERTIARY (?) | QTu | UNDIFFERENTIATED SANDS AND GRAVELS | 0-50 | Sand, gravel, and boulders. |
| | TERTIARY[1] | Tw | WHITE RIVER GROUP | 0-600 | Light colored clays with sandstone channel fillings and local limestone lenses. |
| MESOZOIC | CRETACEOUS | Kps | PIERRE SHALE | 1,200-2,000 | Principal horizon of limestone lenses giving teepee buttes.<br>Dark-gray shale containing scattered concretions.<br>Widely scattered limestone masses, giving small teepee buttes.<br>Black fissile shale with concretions. |
| | | | Sharon Springs Mem. | | |
| | | | NIOBRARA FORMATION | 100-225 | Impure chalk and calcareous shale. |
| | | | CARLILE FORMATION: Turner Sand Member | 400-750 | Light-gray shale with numerous large concretions and sandy layers. |
| | | | CARLILE FORMATION: Wall Creek Sands | | Dark-gray shale |
| | | | GREENHORN FORMATION | (25-30)<br>(200-350) | Impure slabby limestone. Weathers buff.<br>Dark-gray calcareous shale, with thin Orman Lake limestone at base. |
| | | | GRANEROS GROUP: BELLE FOURCHE SHALE | 300-550 | Gray shale with scattered limestone concretions.<br>Clay spur bentonite at base. |
| | | | GRANEROS GROUP: MOWRY SHALE | 150-250 | Light-gray siliceous shale. Fish scales and thin layers of bentonite. |
| | | | GRANEROS GROUP: MUDDY SANDSTONE: DYNNESON, NEWCASTLE | 20-60 | Brown to light yellow and white sandstone. |
| | | | GRANEROS GROUP: SKULL CREEK SHALE | 170-270 | Dark gray to black siliceous shale. |
| | | Kik | INYAN KARA GROUP: FALL RIVER FORMATION | 10-200 | Massive to slabby sandstone. |
| | | | INYAN KARA GROUP: LAKOTA FM: Fuson Shale | 10-188 | Coarse gray to buff cross-bedded conglomeratic sandstone, interbedded with buff, red, and gray clay, especially toward top. Local fine-grained limestone. |
| | | | INYAN KARA GROUP: LAKOTA FM: Minnewaste Limestone | 0-25 | |
| | | | INYAN KARA GROUP: LAKOTA FM | 25-485 | |
| | JURASSIC | Ju | MORRISON FORMATION | 0-220 | Green to maroon shale. Thin sandstone. |
| | | | UNKPAPASS | 0-225 | Massive fine-grained sandstone. |
| | | | SUNDANCE FORMATION: Redwater Member, Lak Member, Hulett Member, Stockade Beaver, Canyon Spr Member | 250-450 | Greenish-gray shale, thin limestone lenses.<br>Glauconitic sandstone: red sandstone near middle. |
| | | | GYPSUM SPRING FORMATION | 0-45 | Red siltstone, gypsum, and limestone. |
| | TRIASSIC | TRPs | SPEARFISH FORMATION | 250-700 | Red sandy shale, soft red sandstone and siltstone with gypsum and thin limestone layers. Gypsum locally near the base. |
| | | | Goose Egg Equivalent | | |
| PALEOZOIC | PERMIAN | Pmk | MINNEKAHTA LIMESTONE | [2]25-65 | Thin to medium-bedded finely-crystaline, purplish gray laminated limestone. |
| | | Po | OPECHE SHALE | 50-135 | Red shale and sandstone. |
| | | PIPm | MINNELUSA FORMATION | [2]375-1,175 | Yellow to red cross-bedded sandstone, limestone, and anhydrite locally at top.<br>Interbedded sandstone, limestone, dolomite, shale, and anhydrite.<br>Red shale with interbedded limestone and sandstone at base. |
| | PENNSYLVANIAN | | | | |
| | MISSISSIPPIAN | MDm | MADISON (PAHASAPA) LIMESTONE | [2]250-1,000 | Massive light-colored limestone. Dolomite in part. Cavernous in upper part. |
| | DEVONIAN | | ENGLEWOOD FORMATION | 30-60 | Pink to buff limestone. Shale locally at base. |
| | ORDOVICIAN | Ou | WHITEWOOD (RED RIVER) FORMATION | 0-60 | Buff dolomite and limestone. |
| | | | WINNIPEG FORMATION | 0-100 | Green shale with siltstone. |
| | CAMBRIAN | O€d | DEADWOOD FORMATION | [2]0-500 | Massive to thin-bedded buff to purple sandstone. Greenish glauconitic shale flaggy dolomite and flatpebble limestone conglomerate. Sandstone, with conglomerate locally at the base. |
| PRECAMBRIAN | | p€u | UNDIFFERENTIATED METAMORPHIC AND IGNEOUS ROCKS | | Schist, slate, quartzite, and arkosic grit. Intruded by diorite, metamorphosed to amphibolite, and by granite and pegmatite. |

[1] Also may include intrusive igneous rocks
[2] Modified based on drill-hole data

Modified from information furnished by the Department of Geology and Geological Engineering, South Dakota School of Mines and Technology (written commun., January 1994)

**Figure 2.** Stratigraphic section for the Black Hills.

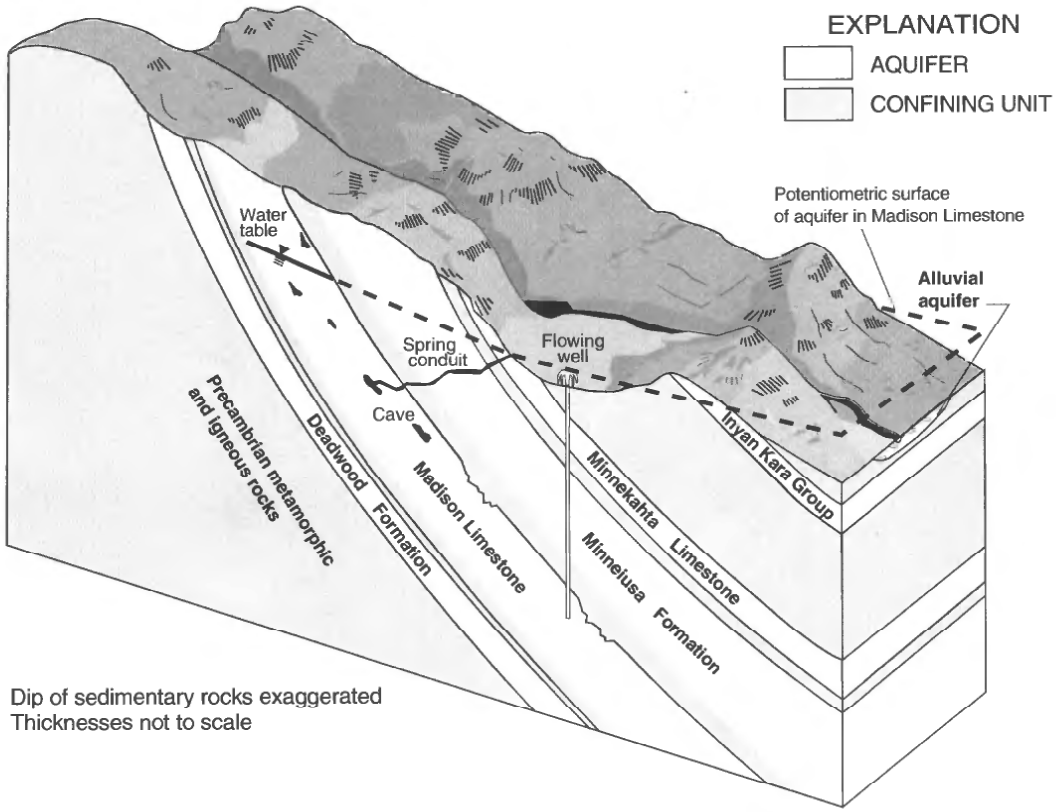



**Figure 3.** Schematic showing simplified hydrogeologic setting of the Black Hills area.

## METHODS OF STATION IDENTIFICATION

Two methods of station identification are used within this report to identify sites for which data are presented. The first method is the local number, which is based on the Federal land-survey system for western South Dakota (fig. 4). The local number consists of the township number followed by "N" or "S" (north or south of the Black Hills Baseline), the range number followed by "E" or "W" (east or west of the Black Hills Meridian), and the section number, followed by a maximum of four uppercase letters that indicate, respectively, the 160-, 40-, 10-, and 2.5-acre tract in which the site is located. These letters are assigned in a counterclockwise direction beginning with "A" for the northeast quarter. A serial number following the last letter is used to distinguish between wells located in the same 2.5 acre-tract. Thus, well 4N6E19AABA (fig. 4) is in the NE1/4 of the NW1/4 of the NE1/4 of the NE1/4 of section 19 in township 4 north and range 6 east.

The second method is the station identification number, which is based on the international system of latitude and longitude. The number contains 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude north of the equator. The next seven digits denote the degrees, minutes, and seconds of longitude west of the prime (Greenwich) meridian. In cases where the latitude and longitude were determined to the tenths of degrees, the latitudes and longitudes were rounded to the nearest second in the corresponding station identification number. The last two digits are sequential numbers for sites located at the same latitude and longitude. The latitudes or longitudes originally assigned to sites occasionally are determined to be incorrect. In these cases, the latitude or longitude is corrected, but the station identification number remains unchanged. Thus, the latitude or longitude may not correspond exactly with the station identification number.

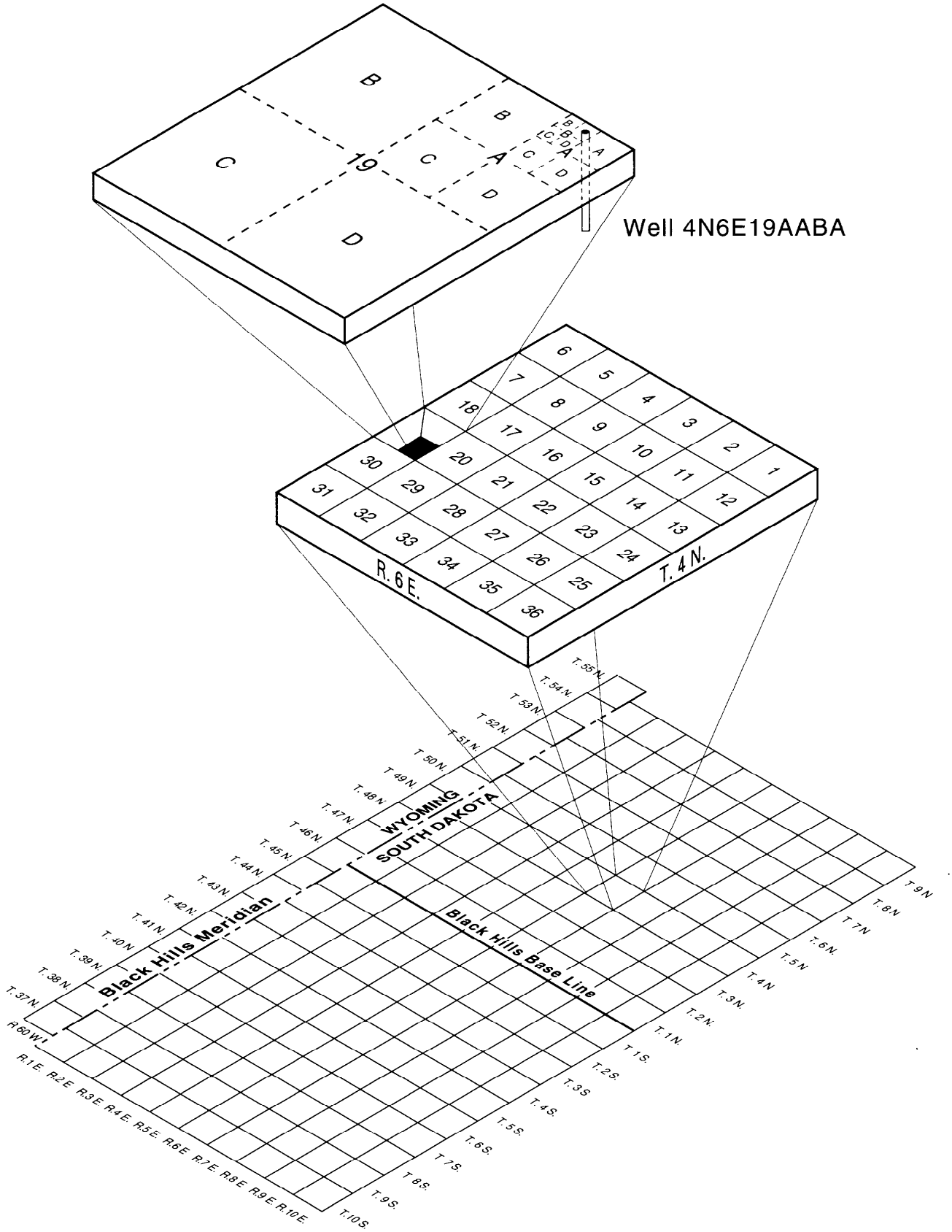



**Figure 4.** System for assignment of local numbers.

## WELL AND TEST-HOLE DATA

Selected data are presented for wells and test holes used in the construction of structure-contour maps of the Inyan Kara Group (table 1), Minnekahta Limestone (table 2), Minnelusa Formation (table 3), Madison Limestone (table 4), and the Deadwood Formation (table 5). Wells and test holes that penetrated more than one of these formations are listed in multiple tables. The wells and test holes presented in tables 1-5 are identified by the methods previously described. The wells and test holes are shown on maps presented by Carter and Redden (1999a, 1999b, 1999c, 1999d, 1999e). The altitudes of the tops of the formations were compiled from data obtained from J. Paul Gries (South Dakota School of Mines and Technology), the South Dakota Geological Survey, and the USGS.

## REFERENCES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———1999c, Altitude of the top of the Minnelusa Formation in the Black Hills area, South Dakota: U.S. Geological Survey Hydrologic Investigations Atlas HA-744-C, 2 sheets, scale 1:100,000.

———1999d, Altitude of the top of the Madison Limestone in the Black Hills area, South Dakota: U.S. Geological Survey Hydrologic Investigations Atlas HA-744-D, 2 sheets, scale 1:100,000.

———1999e, Altitude of the top of the Deadwood Formation in the Black Hills area, South Dakota: U.S. Geological Survey Hydrologic Investigations Atlas HA-744-E, 2 sheets, scale 1:100,000.

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Feldman, R.M., and Heimlich, R.A., 1980, The Black Hills: K/H Geology Field Guide Series, Kendall/Hunt Publishing Company, Kent State University, Kent, Ohio, 190 p.

Hortness, J.E., and Driscoll, D.G., 1998, Streamflow losses in the Black Hills of western South Dakota: U.S. Geological Survey Water-Resources Investigations Report 98-4116, 99 p.

# TABLES

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Butte County** | | | | | |
| 9N 6E36DA | 444147103193501 | 444147 | 1031935 | 10/09/1976 | W | 5,575 | 2,804 | 354 |
| 9N 6E30ACCC | 444249103260701 | 444249 | 1032607 | 07/25/1964 | W | 2,745 | 2,850 | 447 |
| 9N 6E30AAD | 444301103253501 | 444301 | 1032535 | --/--/1940 | W | 2,741 | 2,850 | 400 |
| 9N 5E24ACA | 444350103270701 | 444350 | 1032704 | 07/12/1934 | W | 4,400 | 2,860 | 460 |
| 9N 4E19CADA | 444332103405301 | 444332 | 1034047 | 10/--/1906 | W | 1,417 | 2,999 | 1,620 |
| 9N 3E27ADBD | 444253103440001 | 444253 | 1034359 | 07/--/1952 | W | 4,016 | 3,002 | 2,352 |
| 9N 2E34CDDCA | 444129103514801 | 444129 | 1035148 | 10/10/1981 | W | 3,320 | 3,185 | 2,317 |
| 9N 2E34ADBC | 444200103511401 | 444200 | 1035114 | --/--/1955 | W | 1,320 | 3,075 | 2,419 |
| 9N 2E33CCD | 444102103525301 | 444131 | 1035318 | 02/12/1980 | W | 1,250 | 3,020 | 2,365 |
| 9N 2E32DBBA | 444153103540001 | 444153 | 1035400 | --/--/1947 | W | 1,020 | 3,050 | 2,350 |
| 9N 2E30CDBC | 444227103553801 | 444227 | 1035538 | 08/12/1972 | W | 780 | 3,130 | 2,660 |
| 9N 2E 5CBBC | 444609103544301 | 444609 | 1035443 | --/--/1956 | W | 1,625 | 3,150 | 1,725 |
| 9N 1E27BDAB | 444248103590901 | 444248 | 1035909 | --/--/1958 | W | 480 | 3,160 | 2,810 |
| 9N 1E26BCBC | 444301103581401 | 444301 | 1035814 | --/--/1958 | W | 563 | 3,070 | 2,729 |
| 9N 1E21CABB | 444347104003101 | 444337 | 1040032 | 04/28/1953 | W | 950 | 3,175 | 2,920 |
| 8N 5E32DDD | 443618103314301 | 443618 | 1033143 | 05/18/1979 | W | 1,650 | 3,020 | 1,648 |
| 8N 5E12DBC | 444002103272001 | 444002 | 1032720 | 12/13/1949 | W | 5,759 | 2,880 | 700 |
| 8N 5E 8BCB2 | 444020103323001 | 444020 | 1033230 | --/--/1938 | W | 2,050 | 2,855 | 1,203 |
| 8N 4E17AAAB | 443944103385901 | 443944 | 1033859 | 03/02/1964 | W | 1,070 | 2,895 | 2,094 |
| 8N 4E10DDDB | 443953103363601 | 443953 | 1033636 | --/--/1960 | W | 1,180 | 2,870 | 1,817 |
| 8N 4E 9DDBA | 443958103375101 | 443958 | 1033751 | 01/03/1972 | W | 1,170 | 2,880 | 2,030 |
| 8N 4E 8DB | 444006103391901 | 444006 | 1033919 | 09/12/1973 | W | 930 | 2,940 | 2,120 |
| 8N 3E31BBAA | 443709103481501 | 443709 | 1034815 | -- | W | 310 | 3,165 | 2,935 |
| 8N 3E31ACA | 443655103482001 | 443650 | 1034744 | 08/21/1960 | W | 1,853 | 3,190 | 3,007 |
| 8N 3E 7BBCB | 444022103482601 | 444022 | 1034826 | 11/--/1957 | W | 860 | 3,115 | 2,340 |
| 8N 3E 6CCA | 444048103481701 | 444048 | 1034817 | 09/26/1951 | W | 886 | 3,075 | 2,305 |
| 8N 3E 5BDCD | 444109103465401 | 444109 | 1034654 | 09/--/1955 | W | 1,237 | 3,040 | 2,030 |
| 8N 3E 5BABB | 444129103465801 | 444129 | 1034658 | 04/29/1965 | W | 1,020 | 3,010 | 2,060 |
| 8N 3E 2DB | 444057103425701 | 444057 | 1034257 | 07/25/1960 | W | 2,240 | 2,990 | 2,495 |
| 8N 2E30BB | 443756103553601 | 443756 | 1035536 | 11/07/1980 | W | 180 | 3,240 | 3,200 |
| 8N 2E29ACAC | 443744103535001 | 443744 | 1035350 | 04/24/1964 | W | 200 | 3,280 | 3,190 |
| 8N 2E29AAA | 443805103532601 | 443757 | 1035333 | 07/01/1980 | W | 240 | 3,220 | 3,190 |
| 8N 2E28DDCB | 443716103522501 | 443716 | 1035225 | 03/11/1980 | W | 2,220 | 3,242 | 3,142 |

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Butte County—Continued** | | | | | |
| 8N 2E28BADD2 | 443731103525601 | 443750 | 1035250 | 02/25/1948 | W | 240 | 3,220 | 3,143 |
| 8N 2E23DCCA | 443806103501301 | 443806 | 1035013 | 04/21/1975 | W | 260 | 3,160 | 3,107 |
| 8N 2E23CACB | 443820103503701 | 443820 | 1035037 | 07/--/1990 | W | 240 | 3,140 | 3,095 |
| 8N 2E22CACA | 443823103514301 | 443823 | 1035143 | -- | W | 369 | 3,170 | 2,884 |
| 8N 2E22AAC | 443812103511301 | 443843 | 1035113 | 07/14/1975 | W | 260 | 3,170 | 2,910 |
| 8N 2E21CDBC | 443810103525601 | 443810 | 1035256 | 12/15/1975 | W | 340 | 3,220 | 3,060 |
| 8N 2E20CCD | 443806103542101 | 443806 | 1035421 | 07/02/1980 | W | 420 | 3,240 | 3,100 |
| 8N 2E20BACC | 443842103541801 | 443842 | 1035418 | --/--/1956 | W | 300 | 3,145 | 3,080 |
| 8N 2E19DBBD | 443824103550501 | 443824 | 1035505 | 07/20/1991 | W | 100 | 3,160 | 3,140 |
| 8N 2E19C | 443814103552101 | 443814 | 1035521 | 11/07/1980 | W | 190 | 3,185 | 3,145 |
| 8N 2E19AD | 443857103540901 | 443834 | 1035448 | 09/05/1979 | W | 300 | 3,165 | 3,085 |
| 8N 2E16DDD | 443855103521501 | 443855 | 1035215 | 07/06/1978 | W | 400 | 3,175 | 2,857 |
| 8N 2E16BBDD | 443934103530501 | 443934 | 1035305 | 06/20/1973 | W | 300 | 3,160 | 2,955 |
| 8N 2E16ACA | 443954103520601 | 443929 | 1035236 | 03/21/1979 | W | 340 | 3,080 | 2,834 |
| 8N 2E16AACC | 443934103522801 | 443934 | 1035228 | 12/15/1973 | W | 520 | 3,150 | 2,800 |
| 8N 2E14DC | 443905103501201 | 443905 | 1035012 | 02/18/1977 | W | 430 | 3,090 | 2,890 |
| 8N 2E14ACBB | 443855103493001 | 443933 | 1034959 | 09/05/1982 | W | 455 | 3,050 | 2,670 |
| 8N 2E12DDC | 443950103484301 | 443950 | 1034843 | 09/17/1979 | W | 820 | 3,130 | 2,560 |
| 8N 2E11DDBD | 443954103495301 | 443954 | 1034953 | 08/25/1973 | W | 440 | 3,033 | 2,663 |
| 8N 2E11DC3 | 443952103501203 | 443952 | 1035012 | --/--/1957 | W | 570 | 3,035 | 2,745 |
| 8N 2E11CDBD | 443954103503001 | 443954 | 1035030 | 08/18/1947 | W | 353 | 3,070 | 2,747 |
| 8N 2E11BABD | 444033103503001 | 444033 | 1035030 | -- | W | 650 | 3,005 | 2,655 |
| 8N 2E10CDCB | 443950103515001 | 443950 | 1035150 | 03/15/1982 | W | 500 | 3,135 | 2,715 |
| 8N 2E10BDDD2 | 444013103513402 | 444013 | 1035134 | -- | W | 470 | 3,000 | 2,700 |
| 8N 2E 3DAAD | 444058103505801 | 444058 | 1035058 | 08/31/1979 | W | 705 | 3,090 | 2,630 |
| 8N 2E 3AD | 444110103510701 | 444110 | 1035107 | 08/31/1979 | W | 705 | 3,091 | 2,446 |
| 8N 2E 2BBBB | 444129103505501 | 444129 | 1035055 | 09/25/1973 | W | 760 | 3,049 | 2,443 |
| 8N 1E12BB | 444032103565301 | 444027 | 1035643 | 10/14/1982 | W | 280 | 3,220 | 3,060 |
| 8N 1E11BA | 444033103574801 | 444033 | 1035748 | -- | W | 520 | 3,300 | 3,075 |
| | | | **Lawrence County** | | | | | |
| 7N 4E25ADBB | 443230103342001 | 443230 | 1033420 | 04/15/1989 | W | 1,020 | 3,187 | 2,562 |
| 7N 4E17CCAA | 443347103395801 | 443342 | 1033951 | 07/26/1974 | W | 440 | 3,300 | 2,900 |
| 7N 4E11ADDB | 443503103352001 | 443503 | 1033520 | 02/23/1989 | W | 780 | 3,112 | 2,354 |

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Lawrence County—Continued** | | | | | |
| 7N 4E 7CDCA | 443451103403801 | 443435 | 1034053 | 07/23/1974 | W | 365 | 3,320 | 3,120 |
| 7N 4E 2BDAC | 443557103360401 | 443558 | 1033559 | 12/08/1976 | W | 757 | 3,050 | 2,325 |
| 7N 3E26ADBB | 443257103422001 | 443235 | 1034246 | 08/21/1985 | W | 380 | 3,460 | 3,150 |
| 7N 3E25ADBD | 443338103413301 | 443231 | 1034128 | --/--/1959 | W | 510 | 3,500 | 3,410 |
| 7N 3E23BBCC2 | 443327103425701 | 443327 | 1034343 | 04/24/1981 | W | 260 | 3,390 | 3,210 |
| 7N 3E22DAAD | 443306103434001 | 443310.8 | 1034347.2 | 12/10/1990 | W | 390 | 3,409.0 | 3,195 |
| 7N 3E22BBCD | 433331103444701 | 443331 | 1034447 | --/--/1959 | W | 403 | 3,390 | 3,373 |
| 7N 3E16AAB | 443429103450001 | 443432 | 1034507 | 05/15/1965 | W | 490 | 3,330 | 3,108 |
| 7N 3E 9DBBD | 443454103452701 | 443454 | 1034527 | --/--/1963 | W | 450 | 3,300 | 3,063 |
| 6N 4E 2CDCB | 443022103361101 | 443016 | 1033612 | 06/13/1979 | W | 240 | 3,390 | 3,382 |
| | | | **Meade County** | | | | | |
| 7N 6E25BC | 443228103203701 | 443228 | 1032037 | 04/25/1961 | W | 2,147 | 2,894 | 844 |
| 7N 5E29BBD | 443237103323801 | 443237 | 1033238 | 07/31/1925 | W | 790 | 3,140 | 2,465 |
| 7N 5E28BB | 443244103313101 | 443244 | 1033131 | 07/31/1973 | W | 1,000 | 3,090 | 2,370 |
| 6N 6E 7BAB | 443010103263701 | 443010 | 1032637 | 12/12/1985 | W | 1,563 | 3,100 | 1,980 |
| 6N 5E21DAB | 442758103304401 | 442758 | 1033044 | 09/25/1988 | W | 510 | 3,240 | 2,940 |
| 6N 5E17BCCC | 442854103325201 | 442854 | 1033252 | 07/10/1979 | W | 580 | 3,275 | 3,182 |
| 6N 5E17BBAD | 442913103315001 | 442913 | 1033238 | 02/11/1955 | W | 370 | 3,240 | 3,061 |
| 6N 5E16CDCC | 442828103312001 | 442827.8 | 1033123.2 | 05/24/1989 | W | 482 | 3,274.4 | 2,978 |
| 5N 6E33CDDA | 442029103234801 | 442044 | 1032356 | 07/22/1976 | W | 525 | 3,425 | 3,200 |
| 5N 6E25ABBB | 442214103200401 | 442222 | 1032014 | --/--/1955 | W | 816 | 3,040 | 2,359 |
| 5N 6E18BAAA | 442355103255201 | 442403 | 1032618 | 10/06/1967 | W | 465 | 3,270 | 3,060 |
| 5N 6E17BAC | 442359103251901 | 442359 | 1032519 | 05/08/1992 | W | 640 | 3,220 | 2,630 |
| 4N 9E19AD | 441741103042201 | 441741 | 1030422 | 11/20/1956 | W | 2,600 | 3,159 | 650 |
| 4N 8E31BD | 441557103121301 | 441557 | 1031213 | 02/23/1956 | W | 1,506 | 3,057 | 1,585 |
| 4N 8E27BB | 441702103085501 | 441702 | 1030855 | 02/09/1956 | W | 2,034 | 3,034 | 1,024 |
| 4N 8E11AA | 441940103064501 | 441940 | 1030645 | 10/21/1956 | W | 2,214 | 2,838 | 705 |
| 4N 8E 2ADDC | 442009103135501 | 442009 | 1030715 | 09/--/1961 | W | 2,389 | 2,815 | 687 |
| 4N 7E17DAAA | 441816103102001 | 441824 | 1031736 | 08/17/1960 | W | 1,120 | 3,120 | 2,325 |
| 4N 7E 5CC | 441953103183501 | 441953 | 1031835 | 01/27/1956 | W | 869 | 3,177 | 2,342 |
| 4N 6E25ACAB | 441834103232501 | 441655 | 1032020 | 06/19/1978 | W | 360 | 3,240 | 3,060 |
| 4N 6E13BBBC | 441820103205801 | 441850 | 1032105 | 05/23/1953 | W | 795 | 3,220 | 2,770 |
| 4N 6E11CDBA | 441859103215301 | 441903 | 1032153 | --/--/1969 | W | 415 | 3,245 | 2,927 |

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Meade County—Continued** | | | | | |
| 4N 6E11CACC | 441918103214301 | 441908 | 1032201 | 11/--/1969 | W | 688 | 3,258 | 2,946 |
| 4N 6E11CAAA | 441938103215301 | 441916 | 1032145 | --/--/1969 | W | 423 | 3,260 | 2,943 |
| 4N 6E10ABAB | 441918103225601 | 441945 | 1032242 | 08/03/1959 | W | 544 | 3,305 | 3,010 |
| 3N 8E32BDCB2 | 441042103110201 | 441039 | 1031107 | -- | W | 1,624 | 3,185 | 1,877 |
| 3N 8E25BA | 441147103061101 | 441147 | 1030611 | 08/24/1974 | W | 2,250 | 2,990 | 960 |
| 3N 8E24CB | 441214103062801 | 441214 | 1030628 | 10/09/1956 | W | 2,032 | 2,945 | 985 |
| 3N 8E21DAAD | 441219103090801 | 441222 | 1030904 | --/--/1960 | W | 1,998 | 3,025 | 1,345 |
| 3N 8E14BB | 441332103074001 | 441332 | 1030740 | 09/30/1956 | W | 1,945 | 2,933 | 1,083 |
| 2N 9E18BAB | 440824103050601 | 440824 | 1030506 | 04/17/1942 | W | 4,645 | 3,195 | 1,059 |
| 2N 9E 9BBB2 | 440913103025601 | 440913 | 1030256 | 08/30/1950 | W | 2,408 | 3,180 | 800 |
| 2N 9E 8CDC | 440828103035101 | 440828 | 1030351 | 09/12/1990 | W | 2,488 | 3,160 | 920 |
| 2N 9E 7CABC | 440844103050601 | 440844 | 1030506 | 08/12/1943 | W | 2,506 | 3,193.65 | 1,043 |
| 2N 8E13BDC | 440801103061601 | 440801 | 1030616 | 07/12/1942 | W | 4,440 | 3,199 | 1,094 |
| 2N 8E 6CCDB | 440920103265401 | 440920 | 1031232 | 06/07/1979 | W | 1,880 | 3,520 | 1,908 |
| 2N 7E 2DBDDC | 440931103141401 | 440931 | 1031414 | 04/23/1980 | W | 3,060 | 3,383 | 3,003 |
| 2N 7E 1CA | 440931103131701 | 440931 | 1031317 | 11/--/1961 | W | 1,230 | 3,285 | 2,395 |
| | | | **Pennington County** | | | | | |
| 2N 9E30DB | 440607103044101 | 440607 | 1030441 | -- | W | 2,161 | 3,090 | 1,002 |
| 2N 9E29BBCC | 440629103040901 | 440629 | 1030409 | 03/18/1983 | W | 4,450 | 3,043 | 983 |
| 2N 9E18BDDC | 440759103045501 | 440759 | 1030500 | 10/04/1951 | W | 2,435 | 3,172 | 1,027 |
| 2N 8E28BCB | 440622103101101 | 440622 | 1031011 | 06/25/1973 | W | 1,648 | 3,128 | 1,528 |
| 2N 8E27CBAC | 440606103085301 | 440606 | 1030853 | 07/12/1973 | W | 1,798 | 3,150 | 1,495 |
| 2N 8E23DA | 440659103064701 | 440659 | 1030650 | 07/18/1965 | W | 2,222 | 3,067.5 | 1,180 |
| 2N 8E20CCCD | 440650103110001 | 440641 | 1031120 | 08/09/1973 | W | 1,625 | 3,170 | 1,650 |
| 2N 8E14ADD | 440801103064301 | 440801 | 1030747 | -- | W | 2,088 | 3,203 | 1,133 |
| 2N 7E35DABD | 440517103140501 | 440517 | 1031405 | 06/25/1990 | W | 49 | 3,235 | 3,229 |
| 2N 7E23DDA | 440650103135701 | 440650 | 1031357 | 02/17/1993 | W | 540 | 3,420 | 3,285 |
| 2N 7E13DDAA | 440746103124201 | 440746.0 | 1031241.8 | 10/27/1995 | W | 1,450 | 3,238.9 | 2,158 |
| 1N 9E34CB | 440007103014201 | 440007 | 1030142 | 01/11/1957 | W | 2,229 | 2,945 | 806 |
| 1N 9E22BA | 440212103012101 | 440212 | 1030121 | 07/15/1952 | W | 4,185 | 3,052 | 737 |
| 1N 9E 5DD | 440409103030801 | 440409 | 1030308 | 12/18/1956 | W | 2,404 | 3,284 | 959 |
| 1N 8E34ABAD | 440029103081101 | 440029 | 1030811 | 06/18/1995 | W | 1,600 | 3,120 | 1,835 |
| 1N 8E32ABBA | 440006103105101 | 440032 | 1031051 | --/--/1954 | W | 1,100 | 3,325 | 2,667 |

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Pennington County—Continued** | | | | | |
| 1N 8E19AAAB | 440216103114101 | 440215.6 | 1031141.4 | 03/25/1996 | W | 600 | 3,249.7 | 2,714 |
| 1N 8E 9CAB2 | 440334103095601 | 440334 | 1030956 | 09/--/1990 | W | 3,805 | 3,108 | 2,012 |
| 1N 8E 5DACB | 440422103103301 | 440422 | 1031033 | 02/--/1957 | W | 971 | 3,165 | 2,250 |
| 2S 9E15BB | 435252103021101 | 435252 | 1030211 | -- | W | 2,170 | 3,073 | 956 |
| | | | **Custer County** | | | | | |
| 2S 8E32CCC | 434935103122001 | 434935 | 1031150 | 10/21/1980 | W | 820 | 3,300 | 2,638 |
| 2S 8E33DC | 434937103095701 | 434937 | 1030957 | 03/13/1956 | W | 961 | 3,247 | 2,306 |
| 2S 9E35AA | 435016103000501 | 435016 | 1030005 | 08/22/1955 | W | 2,602 | 3,091 | 796 |
| 3S 8E19BBBB | 434652103130501 | 434653.7 | 1031307.2 | 06/28/1983 | W | 760 | 3,506.8 | 2,920 |
| 3S 8E22ACDB | 434633103084401 | 434633 | 1030844 | 08/16/1959 | W | 1,956 | 3,393.78 | 1,766 |
| 3S 8E24DC | 434608103062301 | 434608 | 1030623 | 03/20/1956 | W | 1,544 | 3,208 | 1,703 |
| 4S 7E25DDDB | 434001103131301 | 434001 | 1031313 | 07/04/1949 | W | 2,824 | 3,392 | 2,702 |
| 4S 8E12AA | 434316103061101 | 434316 | 1030611 | 10/25/1980 | W | 3,773 | 3,158 | 1,171 |
| 4S 8E21BA2 | 434134103101501 | 434134 | 1031015 | 10/03/1957 | W | 1,605 | 3,425 | 1,885 |
| 6S 1E20AA | 433109104011501 | 433109 | 1040105 | 08/17/1981 | W | 580 | 3,760 | 3,340 |
| 6S 1E20AB | 433111104012201 | 433111 | 1040122 | 08/18/1981 | W | 800 | 3,730 | 3,300 |
| 6S 1E20AC | 433038104015201 | 433057 | 1040122 | 08/15/1981 | W | 810 | 3,765 | 3,260 |
| 6S 1E20AD | 433100104010201 | 433100 | 1040102 | 08/14/1981 | W | 800 | 3,815 | 3,390 |
| 6S 1E29ABC | 433012104012701 | 433012 | 1040127 | 06/27/1978 | W | 680 | 3,700 | 3,095 |
| 6S 1E29ABC2 | 433012104012702 | 433012 | 1040127 | 06/26/1978 | W | 1,000 | 3,700 | 3,080 |
| 6S 7E29CCD | 432932103190701 | 432932 | 1031907 | --/--/1956 | W | 1,240 | 3,300 | 2,214 |
| 6S 8E24CC | 433028103071801 | 433028 | 1030718 | 10/19/1955 | W | 2,882 | 3,030 | 465 |
| | | | **Fall River County** | | | | | |
| 7S 1E 3BB | 432855103593901 | 432838 | 1035939 | 10/22/1980 | W | 625 | 3,655 | 3,335 |
| 7S 1E10DC | 432705103585801 | 432705 | 1035858 | 11/07/1978 | W | 550 | 3,620 | 3,370 |
| 7S 1E10DC2 | 432705103585802 | 432705 | 1035858 | 11/07/1978 | W | 360 | 3,620 | 3,370 |
| 7S 1E14B2 | 432641103581301 | 432641 | 1035813 | 06/--/1956 | W | 237 | 3,670 | 3,650 |
| 7S 1E15AB | 432647103585901 | 432647 | 1035859 | 01/31/1977 | W | 574 | 3,620 | 3,320 |
| 7S 1E15AB2 | 432652103585801 | 432652 | 1035858 | 10/18/1978 | W | 350 | 3,623 | 3,373 |
| 7S 1E15AB2 | 432652103585802 | 432652 | 1035858 | 10/19/1978 | W | 395 | 3,623 | 3,373 |
| 7S 1E15DD | 432613103584001 | 432613 | 1035840 | 03/05/1965 | W | 2,264 | 3,576 | 3,389 |
| 7S 1E21AA | 432559103595301 | 432559 | 1035953 | 03/23/1979 | W | 2,500 | 3,533 | 3,193 |
| 7S 1E22AA | 432559103584001 | 432559 | 1035840 | 01/21/1980 | W | 2,460 | 3,565 | 3,226 |

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 7S 1E22BC | 432547103593501 | 432547 | 1035925 | 11/27/1970 | W | 2,545 | 3,534 | 3,208 |
| 7S 1E33AD | 432401103595301 | 432401 | 1035953 | 10/21/1968 | W | 2,875 | 3,677 | 3,117 |
| 7S 2E31AC | 432402103552101 | 432402 | 1035521 | 10/03/1968 | W | 2,340 | 3,521 | 3,512 |
| 7S 6E 1CDAA | 432754103205801 | 432802 | 1032110 | 06/10/1991 | W | 360 | 3,350 | 3,038 |
| 7S 6E23AACC | 432549103215701 | 432549 | 1032153 | 06/--/1977 | W | 820 | 3,265 | 2,465 |
| 7S 6E34CADA | 432400103233201 | 432345 | 1032330 | 10/14/1980 | W | 740 | 3,180 | 2,500 |
| 7S 7E 6BBBC | 432834103203301 | 432834 | 1032028 | 06/26/1977 | W | 640 | 3,410 | 2,805 |
| 8S 1E12AD | 432217103561601 | 432217 | 1035616 | 10/07/1968 | W | 2,760 | 3,680 | 3,180 |
| 8S 1E31DA | 431835104021101 | 431835 | 1040211 | 01/28/1988 | X | 5,643 | 3,835 | 2,448 |
| 8S 2E 8CCCC | 432145103545101 | 432145 | 1035451 | 06/18/1994 | W | 2,450 | 3,501 | 3,192 |
| 8S 2E 9DA | 432204103524001 | 432204 | 1035240 | 11/30/1965 | W | 1,065 | 3,534 | 3,412 |
| 8S 2E10BD | 432218103520601 | 432218 | 1035206 | 12/06/1978 | W | 636 | 3,632 | 3,502 |
| 8S 2E14AD | 432123103501701 | 432124 | 1035017 | 12/24/1971 | W | 2,415 | 3,623 | 3,439 |
| 8S 2E14CD | 432058103505101 | 432058 | 1035051 | 12/06/1970 | W | 2,433 | 3,624 | 3,367 |
| 8S 2E15AA | 432137103512901 | 432137 | 1035129 | 12/30/1964 | W | 2,472 | 3,581 | 3,435 |
| 8S 2E17AB | 432141103540901 | 432141 | 1035409 | 07/07/1994 | W | 2,500 | 3,502 | 3,236 |
| 8S 2E17BA | 432141103543001 | 432141 | 1035430 | 04/21/1994 | W | 2,480 | 3,494 | 3,197 |
| 8S 2E20CC | 432005103544501 | 432005 | 1035445 | 05/16/1981 | W | 2,900 | 3,592 | 2,991 |
| 8S 2E22BC | 431845103533701 | 431845 | 1035337 | --/--/1988 | X | 2,881 | 3,610 | 3,015 |
| 8S 2E23BBA | 432048103510701 | 432048 | 1035107 | 06/07/1978 | W | 390 | 3,625 | 3,285 |
| 8S 2E23BD | 432032103505301 | 432032 | 1035053 | 05/15/1946 | W | 2,537 | 3,570 | 3,290 |
| 8S 2E23CD | 432004103505001 | 432004 | 1035050 | 10/24/1951 | W | 298 | 3,565 | 3,285 |
| 8S 2E24BB | 432045103495901 | 432045 | 1034959 | 02/05/1958 | W | 2,545 | 3,600 | 3,341 |
| 8S 2E35BD | 431835103502301 | 431848 | 1035055 | 06/28/1980 | W | 2,631 | 3,469 | 3,161 |
| 8S 2E36ADBC | 431849103491301 | 431849 | 1034913 | 05/07/1981 | W | 340 | 3,428 | 3,188 |
| 8S 2E36DADB | 433103103483401 | 431834 | 1034905 | 08/07/1983 | W | 300 | 3,425 | 3,180 |
| 8S 3E 8CCCA | 432147103544801 | 432147 | 1035448 | 11/18/1993 | W | 2,450 | 3,499 | 3,198 |
| 8S 3E30AC | 431940103481301 | 431940 | 1034813 | 06/17/1965 | W | 2,504 | 3,455 | 3,307 |
| 8S 3E33DBB | 431839103465001 | 431839 | 1034555 | 11/05/1980 | W | 200 | 3,425 | 3,255 |
| 8S 6E21BDCD | 432020103245309 | 432020 | 1032453 | --/--/1957 | W | -- | 3,266.35 | 2,706 |
| 8S 7E27DCC | 431909103161801 | 431909 | 1031618 | 01/24/1946 | W | 4,548 | 3,354 | 1,204 |
| 9S 1E 1CABD | 431736103565301 | 431745 | 1035703 | 09/23/1971 | W | 3,300 | 3,790 | 2,590 |
| 9S 1E 6BA | 431810104025001 | 431810 | 1040250 | --/--/1983 | W | 3,670 | 3,860 | 2,360 |

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 9S 1E12ADDC | 431704103561801 | 431701 | 1035615 | 12/29/1963 | W | 3,250 | 3,831 | 2,712 |
| 9S 1E20DD | 431453104010001 | 431455 | 1040100 | 08/29/1960 | W | 2,014 | 3,750 | 2,336 |
| 9S 1E23CCAD | 431453103582201 | 431455 | 1035826 | 12/27/1968 | W | 2,743 | 3,730 | 2,400 |
| 9S 1E24BA | 431532103565401 | 431532 | 1035654 | 12/15/1986 | W | 3,335 | 3,828 | 2,654 |
| 9S 1E29AA | 431441104010301 | 431441 | 1040103 | 12/05/1997 | W | 3,488 | 3,750 | 2,339 |
| 9S 1E29BDB | 431433104014001 | 431433 | 1040140 | 07/07/1988 | W | 3,665 | 3,770 | 2,310 |
| 9S 1E30DBC | 431413104023401 | 431413 | 1040234 | 01/21/1998 | W | 3,666 | 3,836 | 2,221 |
| 9S 2E 1AAAC | 431812103491101 | 431812 | 1034911 | 03/24/1908 | W | 2,980 | 3,448 | 3,058 |
| 9S 2E 1BCDC | 431750103500301 | 431750 | 1035003 | 10/23/1936 | W | 3,183 | 3,571 | 3,076 |
| 9S 2E 2AC | 431756103504201 | 431756 | 1035042 | 08/15/1996 | W | 2,730 | 3,598 | 3,109 |
| 9S 2E 2CA | 431743103505901 | 431743 | 1035059 | 03/21/1990 | W | 2,716 | 3,652 | 3,057 |
| 9S 2E 5CCBD | 431729103544901 | 431729 | 1035449 | 11/13/1976 | W | 3,065 | 3,822 | 2,857 |
| 9S 2E 6CA | 431740103554301 | 431740 | 1035543 | 12/14/1971 | W | 3,145 | 3,795 | 2,732 |
| 9S 2E 7ABBB | 431718103554201 | 431723 | 1035536 | 12/18/1970 | W | 3,250 | 3,877 | 2,723 |
| 9S 2E10DD | 431637103513501 | 431645 | 1035135 | 12/09/1965 | W | 2,909 | 3,574 | 2,942 |
| 9S 2E11AC | 431703103504201 | 431703 | 1035042 | 08/09/1996 | W | 2,700 | 3,536 | 3,004 |
| 9S 2E12BBAC | 431716103500301 | 431716 | 1035003 | 05/--/1981 | W | 2,898 | 3,507 | 3,041 |
| 9S 2E14BA | 431625103510001 | 431625 | 1035100 | 12/13/1985 | W | 2,671 | 3,518 | 2,937 |
| 9S 2E14CD | 431545103510001 | 431545 | 1035100 | 04/15/1984 | W | 2,980 | 3,580 | 2,834 |
| 9S 2E15ACC | 431606103515801 | 431606 | 1035158 | 07/15/1980 | W | 2,735 | 3,549 | 2,833 |
| 9S 2E15BA | 431622103520601 | 431622 | 1035206 | 08/09/1980 | W | 2,900 | 3,636 | 2,833 |
| 9S 2E15BDC | 431611103521801 | 431611 | 1035218 | 01/13/1980 | W | 2,800 | 3,638 | 2,835 |
| 9S 2E15CCDB | 431543103522801 | 431543 | 1035228 | 09/09/1964 | W | 3,067 | 3,575 | 2,872 |
| 9S 2E16AD | 432122103524201 | 431610 | 1035242 | 05/30/1981 | W | 3,347 | 3,642 | 2,862 |
| 9S 2E16DCCA | 431545103530701 | 431545 | 1035307 | 01/22/1969 | W | 3,095 | 3,742 | 2,834 |
| 9S 2E20ACD | 431521103540001 | 431521 | 1035400 | 12/13/1980 | W | 2,860 | 3,584 | 2,834 |
| 9S 2E21AC | 431515103530501 | 431515 | 1035305 | 06/08/1988 | W | 2,850 | 3,570 | 2,863 |
| 9S 2E21BD | 431520103532301 | 431520 | 1035323 | 08/21/1987 | W | 2,847 | 3,594 | 2,876 |
| 9S 2E21CB | 431505103534501 | 431505 | 1035345 | 05/30/1986 | W | 2,844 | 3,571 | 2,874 |
| 9S 2E24DB | 431505103493101 | 431505 | 1034931 | 10/18/1972 | W | 984 | 3,706 | 2,825 |
| 9S 2E25DC | 431400103492601 | 431400 | 1034926 | 02/14/1985 | X | 3,380 | 3,807 | 2,703 |
| 9S 2E29AD | 431421103535201 | 431421 | 1035352 | 04/21/1982 | W | 3,050 | 3,703 | 2,829 |
| 9S 2E30BA | 431442103555001 | 431442 | 1035550 | 12/07/1986 | W | 3,330 | 3,725 | 2,659 |

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 9S 2E32DB | 431316103542301 | 431316 | 1035423 | 02/14/1997 | W | 3,200 | 3,727 | 2,749 |
| 9S 2E35CD | 431305103505801 | 431305 | 1035058 | 07/18/1983 | W | 3,380 | 3,717 | 2,658 |
| 9S 3E21D | 431502103455101 | 431502 | 1034551 | 05/20/1973 | W | 1,300 | 3,690 | 2,783 |
| 9S 3E33DDDC | 431310103454001 | 431303 | 1034543 | --/--/1954 | W | 998 | 3,525 | 2,527 |
| 9S 4E19CD | 431451103414401 | 431451 | 1034144 | 08/--/1930 | W | 300 | 3,535 | 3,525 |
| 9S 5E33DD | 431307103313501 | 431307 | 1033135 | 06/14/1957 | W | 723 | 3,558 | 3,158 |
| 9S 5E34ACC | 431331103304601 | 431331 | 1033046 | 11/13/1951 | W | 2,528 | 3,625 | 3,232 |
| 9S 6E 3ACAD | 431753103233601 | 431755.4 | 1032333.8 | -- | W | 1,695 | 3,209.1 | 1,820 |
| 9S 6E18CD | 431543103272501 | 431543 | 1032725 | 10/27/1964 | W | 2,692 | 3,348 | 2,888 |
| 9S 7E16DA | 431556103172501 | 431556 | 1031725 | 05/16/1971 | W | 4,335 | 3,350 | 1,377 |
| 9S 7E25AD | 431420103115001 | 431420 | 1031430 | 10/03/1958 | W | 4,617 | 3,390 | 1,089 |
| 10S 1E 3AB | 431255103590001 | 431255 | 1035900 | 01/05/1998 | W | 3,449 | 3,731 | 2,388 |
| 10S 1E11BB | 431200103582001 | 431200 | 1035820 | 08/10/1958 | W | 1,930 | 3,718 | 2,388 |
| 10S 1E19AC | 431008104023301 | 431008 | 1040233 | 05/29/1985 | W | 3,750 | 3,865 | 2,310 |
| 10S 1E19AD | 431005104021101 | 431005 | 1040211 | 01/18/1985 | W | 3,750 | 3,871 | 2,313 |
| 10S 1E19DA | 430952104021201 | 430952 | 1040212 | 06/06/1984 | W | 3,780 | 3,896 | 2,305 |
| 10S 1E20CBB | 430957104020101 | 430957 | 1040201 | 12/23/1984 | W | 3,750 | 3,870 | 2,307 |
| 10S 1E24B | 431015103565501 | 431015 | 1035655 | 05/24/1930 | W | 1,568 | 3,800 | 2,600 |
| 10S 1E32CDB | 430759104014301 | 430759 | 1040143 | 02/21/1989 | W | 3,911 | 3,968 | 2,253 |
| 10S 1E32DB | 430806104012401 | 430806 | 1040124 | 09/20/1985 | W | 4,005 | 4,019 | 2,267 |
| 10S 1E34DB | 430808103590001 | 430808 | 1035900 | 09/16/1991 | W | 3,500 | 3,954 | 2,628 |
| 10S 1E35BDC | 430815103580001 | 430815 | 1035800 | 12/20/1995 | W | 3,473 | 3,914 | 2,600 |
| 10S 2E 1DB | 431233103493501 | 431233 | 1034935 | 04/--/1954 | W | 1,314 | 3,740 | 2,545 |
| 10S 2E 2CA | 431233103511001 | 431233 | 1035110 | 04/08/1970 | W | 3,178 | 3,660 | 2,561 |
| 10S 2E 3ACDA | 431240103453001 | 431240 | 1035150 | 11/26/1943 | W | 3,855 | 3,655 | 2,595 |
| 10S 2E 3DAA | 431232103513501 | 431232 | 1035135 | -- | W | -- | 3,655 | 2,567 |
| 10S 2E 4BD | 431242103531501 | 431242 | 1035315 | 06/19/1981 | W | 3,670 | 3,810 | 2,670 |
| 10S 2E 5BA | 431257103543301 | 431257 | 1035433 | 07/03/1990 | W | 3,340 | 3,796 | 2,708 |
| 10S 2E10AA | 431203103514001 | 431203 | 1035140 | 12/15/1994 | W | 3,280 | 3,720 | 2,580 |
| 10S 2E18ACD | 431055103552601 | 431055 | 1035526 | 09/01/1989 | W | 4,065 | 3,797 | 2,552 |
| 10S 2E18BDB | 431100103554401 | 431100 | 1035544 | 07/30/1992 | W | 3,403 | 3,792 | 2,582 |
| 10S 2E33DD | 430758103524401 | 430758 | 1035244 | 09/07/1986 | W | 3,870 | 3,967 | 2,281 |
| 10S 3E15BA | 431242103451001 | 431109 | 1034510 | 10/22/1954 | W | 1,238 | 3,570 | 2,364 |

**Table 1.** Selected data for wells and test holes used in the structure-contour map of the Inyan Kara Group—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above NGVD29: Land surface | Altitude, in feet above NGVD29: Top of the Inyan Kara Group[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 10S 3E16BB | 431112103463501 | 431112 | 1034635 | 11/14/1982 | W | 3,432 | 3,596 | 2,374 |
| 10S 3E25CD | 430836103424801 | 430836 | 1034248 | 11/30/1982 | W | 3,604 | 3,506 | 2,163 |
| 10S 3E28AC | 430920103455201 | 430920 | 1034552 | 11/05/1973 | W | 3,596 | 3,800 | 2,188 |
| 10S 3E32DACD | 430801103472301 | 430804 | 1035647 | 09/03/1980 | X | 3,962 | 3,810 | 2,103 |
| 10S 4E 4CCA | 431218103393001 | 431218 | 1033930 | 12/05/1946 | W | 3,004 | 3,475 | 3,035 |
| 10S 4E 8AA | 431203103395201 | 431203 | 1033952 | 06/29/1965 | W | 2,768 | 3,502 | 3,034 |
| 10S 4E20D | 430945103400001 | 430945 | 1034000 | --/--/1937 | W | 3,250 | 3,600 | 2,820 |

[1]From Carter and Redden, 1999a.

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, ir feet above or below (-) NGVD29: Land surface | Altitude, ir feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Butte County** | | | | | |
| 9N 6E36DA | 444147103193501 | 444147 | 1031935 | 10/09/1976 | W | 5,575 | 2,804 | -886 |
| 9N 5E24ACA | 444350103270701 | 444350 | 1032704 | 07/12/1934 | W | 4,400 | 2,860 | -1,350 |
| 9N 3E27ADBD | 444253103440001 | 444253 | 1034359 | 07/--/1952 | W | 4,016 | 3,002 | 852 |
| 9N 2E34CDDCA | 444129103514801 | 444129 | 1035148 | 10/10/1981 | W | 3,320 | 3,185 | 880 |
| 8N 5E12DBC | 444002103272001 | 444002 | 1032720 | 12/13/1949 | W | 5,759 | 2,880 | -620 |
| 8N 4E13CD | 443857103344801 | 443857 | 1033448 | 01/04/1965 | W | 2,677 | 2,930 | 525 |
| 8N 3E31ACA | 443655103482001 | 443650 | 1034744 | 08/21/1960 | W | 1,853 | 3,190 | 1,550 |
| 8N 3E13AA | 443940103412701 | 443940 | 1034127 | 09/16/1991 | W | 3,750 | 2,911 | 1,018 |
| 8N 3E 2DB | 444057103425701 | 444057 | 1034257 | 07/25/1960 | W | 2,240 | 2,990 | 1,030 |
| 8N 2E28DDCB | 443716103522501 | 443716 | 1035225 | 03/11/1980 | W | 2,220 | 3,242 | 1,772 |
| 8N 2E22BBDC | 443839103514701 | 443841 | 1035201 | --/--/1968 | W | 2,590 | 3,220 | 1,340 |
| 8N 1E33ABCA | 443650104000801 | 443659 | 1035958 | 01/17/1953 | W | 1,450 | 3,490 | 2,370 |
| 8N 1E32AD | 443648104010001 | 443648 | 1040100 | --/--/1933 | W | 1,529 | 3,500 | 2,525 |
| 8N 1E30ABB | 443758104023801 | 443758 | 1040238 | 06/12/1958 | W | 1,211 | 3,420 | 2,442 |
| 8N 1E20CACB | 443826104012401 | 443826 | 1040124 | --/--/1953 | W | 1,321 | 3,362.1 | 2,298 |
| 8N 1E19CD | 443808104025001 | 443808 | 1040250 | 08/27/1959 | W | 1,214 | 3,391 | 2,417 |
| 8N 1E19CBA | 443818104030001 | 443818 | 1040300 | 10/30/1953 | W | 1,585 | 3,406 | 2,421 |
| 8N 1E19ADAC | 443836104020801 | 443837 | 1040200 | 05/12/1981 | W | 1,380 | 3,340 | 2,292 |
| 7N 2E 6CDBD | 443534103552601 | 443534 | 1035526 | 06/13/1980 | W | 2,180 | 3,365 | 2,305 |
| 7N 2E 2BBAD | 443612103504701 | 443612 | 1035047 | 03/09/1987 | W | 1,465 | 3,400 | 2,110 |
| 7N 1E11BCAD | 443511103575801 | 443511 | 1035758 | 10/12/1977 | W | 1,440 | 3,360 | 2,630 |
| 7N 1E11ACAC | 443515103572501 | 443508 | 1035730 | 06/01/1966 | W | 1,004 | 3,400 | 2,622 |
| 7N 1E 9CBCB | 443500104004801 | 443500 | 1040048 | 09/26/1958 | W | 785 | 3,423 | 2,883 |
| | | | **Lawrence County** | | | | | |
| 7N 4E30DCB | 443205103404001 | 443205 | 1034040 | 11/15/1950 | W | 3,143 | 3,680 | 2,278 |
| 7N 3E 7AABA | 443515103473001 | 443525 | 1034732 | 01/--/1962 | W | 1,653 | 3,360 | 1,907 |
| 7N 2E36CC | 443350103491201 | 443110 | 1034936 | 08/10/1974 | W | 580 | 3,720 | 3,176 |
| 7N 2E34DA | 443127103510601 | 443127 | 1035106 | 02/06/1974 | W | 700 | 3,550 | 2,885 |
| 7N 2E32DAAC | 443128103533001 | 443128 | 1035330 | 09/29/1986 | W | 340 | 3,540 | 3,272 |
| 7N 2E32BDD | 443115103540001 | 443137 | 1035406 | 07/13/1981 | W | 545 | 3,590 | 3,254 |
| 7N 2E32BB | 443427103540201 | 443153 | 1035425 | 10/--/1960 | W | 540 | 3,560 | 3,205 |
| 7N 2E32BAC | 443117103541301 | 443147 | 1035413 | 11/11/1980 | W | 500 | 3,570 | 3,216 |
| 7N 2E31BD | 443140103543001 | 443140 | 1035525 | 11/01/1991 | W | 697 | 3,580 | 3,288 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29 Land surface | Altitude, in feet above or below (-) NGVD29 Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | Lawrence County—Continued | | | | | |
| 7N 2E31BB | 440542104030601 | 443153 | 1035542 | 05/29/1974 | W | 325 | 3,585 | 3,293 |
| 7N 2E27CCA | 443206103514501 | 443201 | 1035145 | 12/30/1986 | W | 1,060 | 3,450 | 2,885 |
| 7N 2E26BCDA | 443230103504101 | 443230 | 1035041 | 05/--/1963 | W | 825 | 3,400 | 2,623 |
| 7N 2E24DBDD | 443305103485401 | 443305 | 1034854 | 05/14/1981 | W | 940 | 3,405 | 2,605 |
| 7N 2E22BCA | 443323103515501 | 443324 | 1035158 | 07/14/1960 | W | 1,218 | 3,437 | 2,481 |
| 7N 2E21AC | 443325103525001 | 443321 | 1035238 | 01/18/1965 | W | 960 | 3,440 | 2,677 |
| 7N 2E21AABC | 443335103522801 | 443335 | 1035228 | 06/16/1980 | W | 1,260 | 3,418 | 2,648 |
| 7N 2E20DA | 443310103533501 | 443310 | 1035335 | 11/06/1964 | W | 1,115 | 3,390 | 2,848 |
| 7N 2E19CAAA | 443420103551001 | 443315 | 1035514 | --/--/1960 | W | 700 | 3,405 | 2,907 |
| 7N 2E18CA | 443355103553001 | 443359 | 1035532 | --/--/1960 | W | 845 | 3,390 | 2,754 |
| 7N 2E15DD | 443348103510601 | 443348 | 1035127 | 05/14/1962 | W | 1,250 | 3,370 | 2,347 |
| 7N 2E15CC | 443330103520301 | 443348 | 1035203 | -- | W | -- | 3,437 | 2,481 |
| 7N 2E10BADC | 443515103513901 | 443513.1 | 1035143.4 | 05/17/1962 | W | 1,306.5 | 3,218.1 | 2,040 |
| 7N 1E36BDAA | 443141103562301 | 443142 | 1035628 | -- | W | 240 | 3,655 | 3,572 |
| 7N 1E33CCDD | 443100104002001 | 443104.2 | 1040025.3 | 07/31/1987 | W | 1,100 | 3,667.0 | 3,371 |
| 7N 1E30DDDC | 443150104020001 | 443156 | 1040205 | 07/17/1960 | W | 985 | 3,510 | 3,146 |
| 7N 1E30CADD | 443330104024501 | 443230 | 1040241 | 05/01/1951 | W | 406 | 3,526 | 3,145 |
| 7N 1E30BDA2 | 443310104024501 | 443230 | 1040242 | 05/13/1952 | W | 402 | 3,510 | 3,151 |
| 7N 1E28CACD | 443212104001601 | 443212 | 1040016 | 03/11/1980 | W | 1,530 | 3,535 | 3,269 |
| 7N 1E25DBDA | 443215103561501 | 443215 | 1035610 | 12/31/1959 | W | 500 | 3,510 | 3,243 |
| 7N 1E24DC | 443255103562801 | 443255 | 1035628 | 04/25/1960 | W | 360 | 3,460 | 3,104 |
| 7N 1E23CBDC | 443310103582301 | 443303 | 1035803 | --/--/1954 | W | 568 | 3,470 | 3,172 |
| 7N 1E20CC | 443300104015501 | 443300 | 1040155 | 05/25/1962 | W | 950 | 3,530 | 2,945 |
| 7N 1E19DCCC | 443255104020301 | 443251 | 1040233 | 11/23/1960 | W | 645 | 3,520 | 3,085 |
| 7N 1E17AA | 443430104010501 | 443430 | 1040105 | 07/14/1975 | W | 644 | 3,411.3 | 2,857 |
| 7N 1E14CCDD2 | 443355103574502 | 443343 | 1035802 | 05/14/1972 | W | 620 | 3,474 | 3,060 |
| 6N 4E36CBAA | 442610103350001 | 442616 | 1033505 | 05/17/1974 | W | 460 | 3,595 | 3,375 |
| 6N 4E36CACD | 442610103345501 | 442605 | 1033453 | 02/16/1973 | W | 400 | 3,604 | 3,439 |
| 6N 4E36BDAB | 442628103345101 | 442628 | 1033451 | 12/22/1987 | W | 380 | 3,505 | 3,160 |
| 6N 4E35ADBC | 442624103353301 | 442624 | 1033533 | 06/08/1984 | W | 315 | 3,560 | 3,519 |
| 6N 4E33ABDC | 442708103382001 | 442630 | 1033809 | 07/10/1991 | W | 460 | 3,750 | 3,658 |
| 6N 4E32AD | 442626103390101 | 442626 | 1033901 | 04/26/1978 | W | 310 | 3,960 | 3,715 |
| 6N 4E31ADDD | 442610103401701 | 442610 | 1034017 | 05/19/1980 | W | 700 | 4,040 | 3,685 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | Lawrence County—Continued | | | | | |
| 6N 4E22CBCB | 442845103363001 | 442753 | 1033710 | 10/--/1924 | W | 1,020 | 3,600 | 3,249 |
| 6N 4E21DBCD | 442749103381401 | 442749 | 1033814 | 10/13/1961 | W | 630 | 3,620 | 3,400 |
| 6N 4E21AC | 442807103381101 | 442807 | 1033811 | 05/--/1924 | W | 957 | 3,590 | 3,239 |
| 6N 4E16DDBB | 442835103380101 | 442835 | 1033801 | 08/25/1986 | W | 1,442 | 3,560 | 3,060 |
| 6N 4E16DA | 442845103375301 | 442845 | 1033753 | 03/08/1981 | W | 810 | 3,620 | 3,055 |
| 6N 3E26BDBD | 442715103432301 | 442715 | 1034323 | 03/10/1976 | W | 880 | 3,898 | 3,833 |
| 6N 3E20DDDC | 442736103461401 | 442736 | 1034614 | 12/20/1979 | W | 720 | 4,020 | 4,000 |
| 6N 3E20BAAC | 442823103465201 | 442823 | 1034652 | 04/02/1993 | W | 902 | 3,940 | 3,830 |
| 6N 3E18BDAD | 442856103475701 | 442901 | 1034757 | 06/--/1979 | W | 900 | 3,900 | 3,758 |
| 6N 3E17ABAA2 | 442913103465401 | 442917 | 1034630 | 03/22/1976 | W | 700 | 3,830 | 3,420 |
| 6N 3E15BADD | 442907103442301 | 442907 | 1034423 | 07/30/1971 | W | 598 | 3,840 | 3,536 |
| 6N 3E14BAAB | 442837103431401 | 442918 | 1034314 | 06/08/1966 | W | 280 | 3,675 | 3,555 |
| 6N 3E 8DC | 442923103463801 | 442923 | 1034638 | 10/17/1992 | W | 662 | 3,830 | 3,416 |
| 6N 2E23DD | 442741103495601 | 442741 | 1034956 | 08/20/1977 | W | 540 | 4,042 | 4,038 |
| 6N 2E14CBCC | 442842103505501 | 442842 | 1035055 | 08/31/1993 | W | 842 | 3,760 | 3,758 |
| 6N 2E14CA | 442855103503501 | 442855 | 1035035 | 06/01/1987 | W | 1,180 | 3,870 | 3,608 |
| 6N 2E14BCCC2 | 442854103505602 | 442854.4 | 1035053.6 | 08/19/1988 | W | 680 | 3,735.4 | 3,670 |
| 6N 2E 8AA | 443010103533001 | 443010 | 1035330 | 12/18/1989 | W | 268 | 3,650 | 3,562 |
| 6N 2E 6DACD | 443026103544601 | 443026 | 1035446 | 07/15/1988 | W | 340 | 3,720 | 3,597 |
| 6N 2E 6DACC | 443025103544501 | 443028 | 1035453 | 06/30/1988 | W | 267 | 3,710 | 3,637 |
| 6N 2E 5DC2 | 443020103525001 | 443020 | 1035350 | 10/15/1988 | W | 285 | 3,625 | 3,510 |
| 6N 2E 5CBDB | 443035103543001 | 443035 | 1035430 | 11/01/1990 | W | 290 | 3,655 | 3,545 |
| 6N 2E 5BBBB2 | 443100103543002 | 443104.3 | 1035437.7 | 07/03/1986 | W | 290 | 3,677.4 | 3,411 |
| 6N 2E 5BB | 443057103535101 | 443057 | 1035428 | 05/10/1977 | W | 185 | 3,660 | 3,505 |
| 6N 2E 4BDDA | 443044103525701 | 443044 | 1035257 | 11/13/1979 | W | 300 | 3,550 | 3,301 |
| 6N 2E 4BD | 443046103525301 | 443046 | 1035253 | 11/--/1983 | W | 250 | 3,530 | 3,292 |
| 6N 2E 4BADA | 443056103525001 | 443056 | 1035250 | 07/02/1985 | W | 340 | 3,520 | 3,225 |
| 6N 1E 8BCBC | 442952104015101 | 442952 | 1040151 | 10/18/1969 | W | 320 | 3,900 | 3,893 |
| 6N 1E 6BDAB | 443049104024501 | 443049 | 1040245 | 02/--/1977 | W | 430 | 3,785 | 3,715 |
| 6N 1E 6ADCD | 443039104020901 | 443039 | 1040209 | --/--/1961 | W | 315 | 3,795 | 3,658 |
| 6N 1E 5DDDA | 443015104003701 | 443015 | 1040042 | 01/26/1962 | W | 195 | 3,735 | 3,583 |
| 6N 1E 5ABCD | 443020104004901 | 443052 | 1040109 | --/--/1960 | W | 325 | 3,690 | 3,421 |
| 5N 4E 1ABBD2 | 442545103343702 | 442544.3 | 1033437.1 | 11/30/1990 | W | 822 | 3,629.7 | 3,500 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29 | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Land surface | Top of the Minnekahta Limestone[1] |
| | | | Meade County | | | | | |
| 6N 6E19BCAA | 442813103263901 | 442813 | 1032639 | 06/01/1956 | W | 1,350 | 3,190 | 2,810 |
| 6N 6E19BBBA | 442824103264101 | 442824 | 1032641 | 09/24/1993 | W | 900 | 3,200 | 2,940 |
| 6N 5E14ADBD | 442901103281601 | 442901 | 1032816 | 10/28/1980 | W | 1,100 | 3,100 | 2,195 |
| 5N 5E36DBCB | 442058103273001 | 442058 | 1032730 | 08/--/1976 | W | 1,368 | 3,720 | 3,365 |
| 5N 5E36ADD | 442108103270301 | 442108 | 1032703 | 06/09/1976 | W | 1,120 | 3,690 | 2,826 |
| 5N 5E26ABDA | 442217103272201 | 442215 | 1032829 | --/--/1952 | W | 1,470 | 3,625 | 3,066 |
| 5N 5E26AA | 442215103281701 | 442215 | 1032817 | 06/15/1991 | W | 1,140 | 3,605 | 2,795 |
| 5N 5E25CADB | 442146103272001 | 442152 | 1032742 | 10/05/1973 | W | 1,000 | 3,710 | 2,960 |
| 5N 5E21AAA | 442311103303501 | 442311 | 1033035 | 10/--/1967 | W | 883 | 3,600 | 3,480 |
| 5N 5E16DABA | 442441103304201 | 442340 | 1033042 | 12/04/1964 | W | 600 | 3,570 | 3,306 |
| 5N 5E11BDCA | 442440103285501 | 442440 | 1032855 | 06/28/1937 | W | 1,800 | 3,335 | 1,895 |
| 5N 5E 9DCBBA | 442416103310301 | 442419 | 1033105 | --/--/1958 | W | 744 | 3,500 | 3,215 |
| 5N 5E 9BCAA | 442443103312701 | 442443 | 1033127 | 08/--/1960 | W | 902 | 3,530 | 3,150 |
| 5N 5E 9ABCC | 442453103310301 | 442448 | 1033104 | 06/03/1955 | W | 1,060 | 3,460 | 2,995 |
| 5N 5E 8ACDD | 442435103320301 | 442435 | 1033203 | 07/09/1981 | W | 515 | 3,565 | 3,427 |
| 5N 5E 8ACC | 442435103321601 | 442435 | 1033216 | 06/08/1994 | W | 380 | 3,580 | 3,470 |
| 5N 5E 7AAB | 442456103330801 | 442456 | 1033308 | --/--/1971 | W | 320 | 3,580 | 3,481 |
| 5N 5E 6ACAD | 442540103325801 | 442532 | 1033315 | --/--/1974 | W | 620 | 3,590 | 3,175 |
| 5N 5E 5DDC | 442502103315701 | 442502 | 1033157 | --/--/1965 | W | 508 | 3,480 | 3,172 |
| 5N 5E 5DCAC | 442506103321201 | 442506 | 1033212 | 06/07/1977 | W | 604 | 3,498 | 3,158 |
| 5N 5E 5CCCA | 442502103325201 | 442502 | 1033252 | 08/10/1977 | W | 435 | 3,525 | 3,375 |
| 5N 5E 5BCB | 442536103323501 | 442536 | 1033252 | --/--/1974 | W | 720 | 3,555 | 3,155 |
| 5N 5E 4CBCC | 442514103314101 | 442514 | 1033141 | 02/28/1984 | W | 1,497 | 3,461 | 3,001 |
| 5N 5E 3BCD | 442529103301401 | 442529 | 1033014 | 05/15/1992 | W | 1,740 | 3,460 | 2,140 |
| 4N 6E19AABA2 | 441759103261202 | 441759.7 | 1032612.2 | 11/19/1990 | W | 840 | 3,639.1 | 3,497 |
| 4N 6E16DCB | 441812103230501 | 441812 | 1032405 | 01/16/1961 | W | 1,460 | 3,460 | 2,355 |
| 4N 5E 1AC | 442020103273801 | 442020 | 1032738 | 11/25/1980 | W | 85 | 3,780 | 3,772 |
| 3N 7E31CBBC | 441031103195201 | 441031 | 1031953 | 02/19/1976 | W | 530 | 3,690 | 3,585 |
| 3N 7E31CAA | 441033103193001 | 441033 | 1031930 | 10/11/1975 | W | 640 | 3,630 | 3,320 |
| 3N 7E30CDD | 441105103192001 | 441105 | 1031920 | 06/30/1988 | W | 1,120 | 3,650 | 2,825 |
| 3N 7E30BCAD | 441147103270001 | 441138 | 1031940 | 10/27/1976 | W | 1,600 | 3,870 | 2,635 |
| 3N 7E19DBDA | 441214103191001 | 441214 | 1031910 | 07/04/1970 | W | 1,653 | 3,716 | 2,849 |
| 3N 7E19CDA | 441204103192301 | 441204 | 1031923 | 06/08/1950 | W | 2,155 | 3,670 | 2,726 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | Meade County—Continued | | | | | |
| 3N 7E19BDDD | 441227103192801 | 441227 | 1031928 | 09/10/1949 | W | 1,368 | 3,560 | 2,790 |
| 3N 7E19ADAB | 441231103184701 | 441231 | 1031847 | 11/02/1942 | W | 1,250 | 3,440 | 2,423 |
| 3N 7E19AC | 441227103191001 | 441227 | 1031910 | 05/30/1950 | W | 1,235 | 3,675 | 2,799 |
| 3N 7E18BDAC | 441322103192301 | 441322 | 1031923 | 04/24/1979 | W | 1,160 | 3,630 | 2,492 |
| 3N 6E36DD | 441017103201001 | 441017 | 1032010 | 05/--/1961 | W | 210 | 3,700 | 3,698 |
| 3N 6E36DBD | 441024103201301 | 441024 | 1032013 | 06/17/1972 | W | 440 | 3,720 | 3,615 |
| 3N 6E25ADDA | 441131103200101 | 441131 | 1032001 | 11/03/1976 | W | 805 | 3,615 | 3,048 |
| 3N 6E24DBDA | 441212103201501 | 441212 | 1032015 | 08/16/1972 | W | 1,542 | 3,840 | 2,623 |
| 3N 6E24CABB | 441219103204801 | 441219 | 1032048 | 09/06/1979 | W | 1,005 | 3,570 | 2,879 |
| 3N 6E23DDAC | 441202103211301 | 441207 | 1032115 | 07/31/1980 | W | 860 | 3,558 | 3,358 |
| 3N 6E23DCB | 441206103213701 | 441206 | 1032137 | 05/09/1980 | W | 330 | 3,600 | 3,510 |
| 3N 6E15DABBB | 441315103224001 | 441315 | 1032236 | 07/23/1987 | W | 365 | 3,530 | 3,440 |
| 3N 6E15ABB2 | 441337103225002 | 441335.5 | 1032250.5 | 08/29/1994 | W | 880 | 3,476.8 | 3,285 |
| 3N 6E15AAAC | 441333103222801 | 441333 | 1032228 | 02/15/1979 | W | 640 | 3,470 | 3,140 |
| 3N 6E14CBA | 441319103220201 | 441309 | 1032208 | 06/02/1973 | W | 880 | 3,485 | 3,005 |
| 3N 6E10CC | 441345103232501 | 441345 | 1032325 | 04/20/1978 | W | 120 | 3,540 | 3,445 |
| 3N 6E10CA | 441359103230501 | 441359 | 1032305 | 07/22/1979 | W | 195 | 3,460 | 3,270 |
| 3N 6E 4CB | 441453103243801 | 441453 | 1032438 | 04/08/1986 | W | 328 | 3,570 | 3,530 |
| 3N 6E 4CAD | 441448103241501 | 441448 | 1032415 | 05/21/1988 | W | 241 | 3,540 | 3,317 |
| 3N 6E 4BBAA | 441522103242801 | 441527 | 1032425 | 08/15/1972 | W | 260 | 3,530 | 3,335 |
| 3N 6E 3BCBC | 441504103230301 | 441509 | 1032332 | 09/04/1979 | W | 755 | 3,460 | 2,990 |
| 2N 9E18BAB | 440824103050601 | 440824 | 1030506 | 04/17/1942 | W | 4,645 | 3,195 | -190 |
| 2N 8E13BDC | 440801103061601 | 440801 | 1030616 | 07/12/1942 | W | 4,440 | 3,199 | -160 |
| 2N 7E10CDCA | 440832103160901 | 440837 | 1031609 | 11/19/1956 | W | 1,048 | 3,395 | 2,771 |
| 2N 7E 9AABB | 440916103163301 | 440916 | 1031633 | 04/11/1979 | W | 1,260 | 3,420 | 2,703 |
| 2N 7E 8DDCC | 440826103174601 | 440826 | 1031746 | 08/24/1977 | W | 815 | 3,600 | 3,100 |
| 2N 7E 8CDB | 440835103182001 | 440835 | 1031820 | --/--/1960 | W | 955 | 3,545 | 3,183 |
| 2N 7E 8BBC | 441636103183801 | 440907 | 1031838 | 05/22/1986 | W | 1,180 | 3,530 | 3,250 |
| 2N 7E 6DCD | 440930103190501 | 440930 | 1031905 | 09/--/1959 | W | 360 | 3,520 | 3,470 |
| 2N 7E 6DAA | 440939103184701 | 440939 | 1031847 | 12/--/1959 | W | 575 | 3,550 | 3,206 |
| 2N 7E 6CDAC | 440936103191801 | 440926 | 1031925 | 01/25/1981 | W | 340 | 3,545 | 3,531 |
| 2N 7E 5DDA | 440927103173501 | 440927 | 1031735 | 07/06/1988 | W | 885 | 3,440 | 2,890 |
| 2N 7E 5CA2 | 440938103181501 | 440938 | 1031815 | 08/23/1997 | W | 760 | 3,480 | 3,050 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Meade County—Continued** | | | | | |
| 2N 7E 4CDCD | 440919103170501 | 440920 | 1031658 | 03/--/1959 | W | 930 | 3,405 | 2,810 |
| 2N 7E 2DBDD | 440939103142001 | 440939 | 1031420 | 04/23/1980 | W | 2,103 | 3,375 | 1,488 |
| 2N 7E 2DBDDC | 440931103141401 | 440931 | 1031414 | 04/23/1980 | W | 3,060 | 3,383 | 1,488 |
| | | | **Pennington County** | | | | | |
| 2N 9E29BBCC | 440629103040901 | 440629 | 1030409 | 03/18/1983 | W | 4,450 | 3,043 | -247 |
| 2N 7E34CC | 440502103160902 | 440502 | 1031609 | 08/01/1995 | W | 600 | 3,350 | 2,950 |
| 2N 7E34BDCC2 | 440524103154001 | 440524 | 1031558 | 06/--/1960 | W | 1,275 | 3,325 | 3,165 |
| 2N 7E34BCCA | 440528103161001 | 440530.9 | 1031614.2 | 05/24/1964 | W | 400 | 3,328.9 | 3,273 |
| 2N 7E34BAAC | 440544103154901 | 440544 | 1031549 | 09/20/1983 | W | 480 | 3,380 | 3,125 |
| 2N 7E33DADA | 440508103163501 | 440513 | 1031620 | 08/22/1951 | W | 225 | 3,380 | 3,355 |
| 2N 7E33BCD | 440525103171701 | 440525 | 1031717 | 12/16/1986 | W | 240 | 3,430 | 3,429 |
| 2N 7E33BCAA | 440534103171401 | 440534 | 1031714 | 05/05/1978 | W | 225 | 3,460 | 3,450 |
| 2N 7E28DACD | 440552103162301 | 440601 | 1031629 | --/--/1959 | W | 300 | 3,360 | 3,330 |
| 2N 7E27DABB | 440612103152001 | 440612 | 1031522 | 08/12/1991 | W | 1,787 | 3,363.1 | 2,825 |
| 2N 7E27CAAB | 440607103155901 | 440613 | 1031549 | 07/29/1983 | W | 615 | 3,360 | 2,968 |
| 2N 7E27BCAA | 440626103154701 | 440626 | 1031602 | 09/10/1979 | W | 380 | 3,390 | 3,044 |
| 2N 7E27BBCB | 440635103161801 | 440631 | 1031617 | --/--/1961 | W | 505 | 3,450 | 3,195 |
| 2N 7E27BBB | 440635103161401 | 440635 | 1031614 | --/--/1961 | W | 615 | 3,451 | 3,184 |
| 2N 7E27AABA | 440636103152001 | 440636 | 1031520 | 04/--/1959 | W | 992 | 3,435 | 2,815 |
| 2N 7E23DACA | 440659103140501 | 440659 | 1031405 | 02/08/1991 | W | 2,680 | 3,500 | 2,060 |
| 2N 7E21DAAA | 440706103162001 | 440706 | 1031620 | 12/03/1979 | W | 452 | 3,500 | 3,063 |
| 2N 7E20CAAC | 440702103181401 | 440702 | 1031814 | 11/12/1988 | W | 380 | 3,580 | 3,520 |
| 2N 7E17DDAA | 440736103173701 | 440736 | 1031737 | -- | W | 400 | 3,450 | 3,370 |
| 2N 7E17D | 440747103174901 | 440747 | 1031749 | 04/20/1994 | W | 440 | 3,460 | 3,320 |
| 2N 7E17BAAD | 440818103180801 | 440819.8 | 1031809.9 | 07/03/1984 | W | 560 | 3,501.8 | 3,216 |
| 2N 7E16AAB | 440823103162701 | 440823 | 1031627 | 08/30/1989 | W | 1,530 | 3,400 | 2,925 |
| 1N 9E22BA | 440212103012101 | 440212 | 1030121 | 07/15/1952 | W | 4,185 | 3,052 | -428 |
| 1N 8E 9CAB2 | 440334103095601 | 440334 | 1030956 | 09/--/1990 | W | 3,805 | 3,108 | 576 |
| 1N 7E34BAC | 440028103160801 | 440028 | 1031608 | 10/03/1985 | W | 660 | 3,815 | 3,540 |
| 1N 7E33BAC | 440025103170801 | 440025 | 1031708 | 06/29/1994 | W | 440 | 3,780 | 3,730 |
| 1N 7E33ADBB | 440007103165301 | 440017 | 1031632 | -- | W | 540 | 3,840 | 3,455 |
| 1N 7E27DDAB | 440041103151401 | 440041 | 1031514 | 05/--/1962 | W | 1,320 | 3,820 | 2,780 |
| 1N 7E27DADB | 440059103154101 | 440051 | 1031512 | 11/20/1970 | W | 1,430 | 3,815 | 2,725 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Pennington County—Continued** | | | | | |
| 1N 7E26CCAA | 440048103145001 | 440048 | 1031450 | 05/02/1984 | W | 1,460 | 3,820 | 2,620 |
| 1N 7E26BCDA | 440103103144801 | 440103 | 1031448 | 04/06/1984 | W | 1,545 | 3,720 | 2,470 |
| 1N 7E23CAB | 440149103144301 | 440149 | 1031443 | 06/24/1992 | W | 1,563 | 3,810 | 2,430 |
| 1N 7E23BDAB | 440203103143601 | 440203 | 1031436 | --/--/1973 | W | 1,878 | 3,840 | 2,380 |
| 1N 7E22DCC | 440130103153901 | 440130 | 1031539 | 08/31/1993 | W | 875 | 3,780 | 3,038 |
| 1N 7E22BDCC | 440158103160401 | 440155 | 1031600 | 11/18/1972 | W | 445 | 3,565 | 3,315 |
| 1N 7E22ABCB | 440120103153401 | 440211 | 1031534 | --/--/1960 | W | 780 | 3,480 | 2,910 |
| 1N 7E21DBA | 440148103164101 | 440148 | 1031641 | 10/11/1985 | W | 602 | 3,620 | 3,608 |
| 1N 7E21BDA | 440202103165801 | 440202 | 1031658 | 05/23/1985 | W | 565 | 3,760 | 3,745 |
| 1N 7E21BCAB | 440205103172001 | 440205 | 1031720 | 07/07/1982 | W | -- | 3,900 | 3,795 |
| 1N 7E16DCD | 440220103164001 | 440220 | 1031640 | 12/01/1991 | W | 1,281 | 3,486.7 | 3,482 |
| 1N 7E16CCCA | 440224103172601 | 440224 | 1031726 | 07/10/1977 | W | 612 | 3,800 | 3,795 |
| 1N 7E16BAAB | 440309103170101 | 440309 | 1031701 | 03/24/1979 | W | 200 | 3,430 | 3,422 |
| 1N 7E15CCBC | 440223103161701 | 440229 | 1031616 | --/--/1970 | W | 500 | 3,440 | 3,295 |
| 1N 7E15CBBD2 | 440244103154102 | 440240 | 1031612 | -- | W | 460 | 3,475 | 3,320 |
| 1N 7E15BBC | 440302103161401 | 440302 | 1031614 | 03/30/1992 | W | 430 | 3,400 | 3,150 |
| 1N 7E15BAD | 440244103154301 | 440302 | 1031549 | --/--/1955 | W | 921 | 3,470 | 3,000 |
| 1N 7E14CBCA | 440236103145801 | 440236 | 1031458 | 08/23/1973 | W | 1,660 | 3,880 | 2,500 |
| 1N 7E14BABD | 440308103144301 | 440305 | 1031442 | 03/14/1983 | W | 1,817 | 3,833 | 2,419 |
| 1N 7E11DBAD | 440331103142701 | 440237 | 1031414 | 11/11/1980 | W | 1,755 | 3,560 | 2,370 |
| 1N 7E10CADD | 440331103155101 | 440331 | 1031551 | 10/28/1958 | W | 700 | 3,410 | 2,960 |
| 1N 7E 5ACAB | 440441103175401 | 440441 | 1031754 | --/--/1958 | W | 60.0 | 3,510 | 3,464 |
| 1N 7E 3CBAA | 440430103160201 | 440427.2 | 1031605.1 | 05/24/1964 | W | 570 | 3,300 | 3,057 |
| 1N 7E 3BCBC | 440436103161201 | 440436 | 1031612 | 02/05/1940 | W | 635 | 3,343 | 3,061 |
| 1N 7E 3AAB | 444153103151901 | 440453 | 1031519 | 07/--/1941 | W | 1,385 | 3,260 | 2,610 |
| 1S 7E11ACAB | 435851103143501 | 435848 | 1031445 | 06/10/1984 | W | 1,740 | 3,466.2 | 2,811 |
| 1S 7E13CBCA | 435720103141601 | 435739 | 1031416 | 10/30/1972 | W | 1,555 | 3,780 | 2,590 |
| 1S 7E14CCBB | 435733103152801 | 435733 | 1031528 | -- | W | 560 | 3,680 | 3,300 |
| 1S 7E15ABC | 435803103160301 | 435803 | 1031603 | 09/10/1987 | W | 245 | 3,680 | 3,605 |
| 1S 7E27BACA | 435619103161901 | 435619 | 1031619 | 05/30/1978 | W | 1,280 | 4,140 | 3,765 |
| 1S 8E19BBBB | 435718103130301 | 435718 | 1031303 | 03/08/1984 | W | 2,600 | 3,555 | 1,950 |
| 2S 7E10BAD | 435340103161001 | 435340 | 1031610 | 04/22/1992 | W | 675 | 3,660 | 3,175 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Custer County** | | | | | |
| 2S 7E28ADCB | 435053103170001 | 435053 | 1031700 | 11/21/1983 | W | 300 | 3,760 | 3,715 |
| 2S 7E34ABBA | 435018103155801 | 435020.3 | 1031600.3 | 07/27/1983 | W | 510 | 3,477.5 | 3,184 |
| 3S 7E 5DDCA | 434847103175801 | 434842 | 1031805 | 03/01/1990 | W | 287 | 3,690 | 3,610 |
| 3S 7E10BADB | 434832103161701 | 434829 | 1031611 | 01/01/1976 | W | 605 | 3,505 | 3,095 |
| 3S 7E16ACBD | 434726103171501 | 434726 | 1031715 | 02/01/1989 | W | 560 | 3,590 | 3,275 |
| 3S 7E33AACB | 434502103165801 | 434502 | 1031658 | --/--/1964 | W | 1,070 | 3,655 | 2,845 |
| 4S 6E 1DAAA | 434350103201901 | 434350.8 | 1032020.2 | 08/05/1993 | W | 680 | 3,860 | 3,824 |
| 4S 7E25CCA | 434006103140601 | 434006 | 1031406 | 10/17/1949 | W | 3,136 | 3,396 | 1,281 |
| 4S 7E25DDDB | 434001103131301 | 434001 | 1031313 | 07/04/1949 | W | 2,824 | 3,392 | 1,255 |
| 4S 8E12AA | 434316103061101 | 434316 | 1030611 | 10/25/1980 | W | 3,773 | 3,158 | -209 |
| 5S 1E26CC | 433452103582401 | 433452 | 1035824 | 07/24/1961 | W | 950 | 4,060 | 3,755 |
| 5S 1E26DC | 433452103574801 | 433452 | 1035748 | 12/07/1960 | W | 901 | 4,019 | 3,889 |
| 5S 2E30CA | 433505103554201 | 433505 | 1035542 | 11/26/1946 | W | 854 | 4,332 | 4,331 |
| 6S 1E 1BC | 433338103571301 | 433336 | 1035713 | --/ --/1933 | W | 1,047 | 4,040 | 4,031 |
| 6S 1E 7DA | 433241104021701 | 433241 | 1040217 | 01/06/1977 | W | 2,328 | 3,741 | 2,263 |
| 6S 2E 7CAD | 433226103553701 | 433226 | 1035537 | 11/13/1958 | W | 1,201 | 4,040 | 3,616 |
| 6S 2E 8AA | 433254103535201 | 433254 | 1035352 | 08/15/1957 | W | 1,225 | 4,088 | 3,550 |
| 6S 2E 9BC | 433241103533401 | 433241 | 1035334 | 12/19/1956 | W | 1,656 | 4,071.5 | 3,511 |
| 6S 2E14CB | 433135103511701 | 433135 | 1035117 | 12/20/1993 | W | 1,326 | 4,383 | 3,639 |
| 6S 2E22DD | 433030103512701 | 433030 | 1035127 | 06/23/1984 | X | 1,470 | 4,190 | 3,468 |
| 6S 2E27CCD | 432936103521701 | 432936 | 1035217 | 10/06/1956 | W | 1,378 | 4,123 | 3,558 |
| 6S 2E27DB | 432952103514601 | 432952 | 1035146 | 10/31/1964 | W | 1,541 | 4,126 | 3,507 |
| 6S 2E33AD | 432914103524101 | 432914 | 1035241 | 11/04/1958 | W | 1,454 | 4,203 | 3,554 |
| 6S 2E34ABC | 432923103515001 | 432923 | 1035150 | 11/30/1963 | W | 1,385 | 4,133 | 3,543 |
| 6S 2E34BAA | 432929103515901 | 432929 | 1035159 | 08/13/1957 | W | 1,980 | 4,101 | 3,543 |
| 6S 2E34BDC | 432910103520701 | 432910 | 1035207 | 11/02/1963 | W | 1,931 | 4,223 | 3,543 |
| 6S 2E34CA(3) | 432858103520101 | 432858 | 1035201 | 09/21/1958 | W | 1,455 | 4,199 | 3,501 |
| 6S 2E34CB | 432902103522101 | 432902 | 1035221 | 09/05/1958 | W | 1,454 | 4,207 | 3,492 |
| 6S 2E34DBA | 432904103514201 | 432904 | 1035142 | --/--/1956 | W | 1,650 | 4,205 | 3,530 |
| 6S 5E25ADD | 433513103203201 | 433003 | 1032742 | --/--/1951 | W | 580 | 3,935 | 3,779 |
| 6S 6E 2BBCD | 433341103224501 | 433341 | 1032245 | 08/18/1960 | W | 352 | 3,647 | 3,311 |
| 6S 6E20CA2 | 433142103232801 | 433142 | 1032328 | 03/--/1924 | W | 962 | 3,729 | 3,542 |
| 6S 6E21BBBB | 433115103251401 | 433115.4 | 1032516.1 | 10/17/1991 | W | 1,165 | 3,645.8 | 3,406 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County** | | | | | |
| 7S 1E 2DD | 432758103572901 | 432758 | 1035729 | 08/19/1964 | W | 2,450 | 3,792 | 2,312 |
| 7S 1E11DC | 432705103574601 | 432705 | 1035746 | 12/--/1976 | W | 2,250 | 3,679 | 2,267 |
| 7S 1E14BA | 432652103580501 | 432652 | 1035805 | 12/26/1975 | W | 2,269 | 3,639 | 2,209 |
| 7S 1E15CCD | 432611103592801 | 432611 | 1035928 | 08/--/1979 | W | 2,462 | 3,564 | 1,874 |
| 7S 1E15DD | 432613103584001 | 432613 | 1035840 | 03/05/1965 | W | 2,264 | 3,576 | 2,056 |
| 7S 1E21AA | 432559103595301 | 432559 | 1035953 | 03/23/1979 | W | 2,500 | 3,533 | 1,831 |
| 7S 1E22BC | 432547103593501 | 432547 | 1035925 | 11/27/1970 | W | 2,545 | 3,534 | 1,829 |
| 7S 1E24CB | 432533103570901 | 432533 | 1035709 | 10/06/1964 | W | 2,480 | 3,566 | 2,168 |
| 7S 1E33AD | 432401103595301 | 432401 | 1035953 | 10/21/1968 | W | 2,875 | 3,677 | 1,777 |
| 7S 1E35DD | 432336103572701 | 432336 | 1035727 | 07/02/1989 | W | 2,558 | 3,555 | 1,951 |
| 7S 2E 2ABB | 432834103504001 | 432834 | 1035040 | 06/03/1981 | W | 1,680 | 4,121 | 3,441 |
| 7S 2E 2BA | 432834103504701 | 432834 | 1035047 | 08/17/1970 | W | 1,470 | 4,099 | 3,449 |
| 7S 2E12CC | 432702103495901 | 432702 | 1034959 | 11/01/1966 | W | 1,526 | 3,983 | 3,183 |
| 7S 2E21ACDC | 432546103525801 | 432540 | 1035256 | 09/20/1964 | W | 2,225 | 3,810 | 2,689 |
| 7S 2E26ACBA | 432453103503601 | 432458 | 1035036 | 12/14/1968 | W | 2,300 | 4,160 | 2,908 |
| 7S 2E26ACBA | 432453103503601 | 432458 | 1035036 | 12/14/1968 | W | 2,300 | 4,160 | 2,908 |
| 7S 2E26ACBA | 432453103503601 | 432458 | 1035036 | 12/14/1968 | W | 2,300 | 4,160 | 2,908 |
| 7S 2E26ACBA | 432453103503601 | 432458 | 1035036 | 12/14/1968 | W | 2,300 | 4,160 | 2,908 |
| 7S 2E31AC | 432402103552101 | 432402 | 1035521 | 10/03/1968 | W | 2,340 | 3,521 | 2,131 |
| 7S 3E10CD | 432703103445901 | 432703 | 1034459 | 05/30/1969 | W | 1,248 | 4,007 | 3,736 |
| 7S 4E10DADC | 432717103372501 | 432706 | 1033715 | 11/12/1980 | W | 120 | 4,100 | 4,084 |
| 7S 4E19BCCB | 432548103414801 | 432545.8 | 1034151.2 | 08/29/1992 | W | 1,540 | 4,175.15 | 3,838 |
| 7S 4E19BCCB2 | 432548103414802 | 432545.8 | 1034151.2 | 12/14/1994 | W | 710 | 4,175.1 | 3,818 |
| 7S 4E30DC | 432425103410501 | 432425 | 1034105 | 08/26/1965 | W | 1,680 | 4,262 | 3,533 |
| 7S 5E 2CDC | 432747103291201 | 432747 | 1032930 | 04/21/1988 | W | 135 | 3,850 | 3,635 |
| 7S 5E11ACB | 432726103292501 | 432726 | 1032925 | -- | W | 65 | 3,600 | 3,540 |
| 7S 5E12CAA | 432704103283801 | 432704 | 1032838 | 05/03/1983 | W | 266 | 3,600 | 3,355 |
| 7S 5E13CBDA | 432619103283501 | 432619 | 1032835 | 02/--/1954 | W | 264 | 3,565.97 | 3,336 |
| 7S 5E14D | 432614103290901 | 432614 | 1032909 | -- | W | 325 | 3,500 | 3,432 |
| 7S 5E14DCDD | 432602103291001 | 432602 | 1032910 | 07/12/1989 | W | 200 | 3,560 | 3,380 |
| 7S 5E24ADD | 432537103274601 | 432537 | 1032746 | 01/29/1990 | W | 520 | 3,610 | 3,130 |
| 7S 5E26CCDD | 432423103294701 | 432423 | 1032947 | 10/03/1977 | W | 260 | 3,665 | 3,467 |
| 7S 5E29AC | 432448103325101 | 432448 | 1033251 | --/--/1959 | W | 400 | 3,960 | 3,850 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 7S 5E33DDDB | 432331103312001 | 432331 | 1033120 | 11/10/1989 | W | 460 | 3,830 | 3,660 |
| 7S 5E34BDC | 432352103303601 | 432352 | 1033036 | 08/--/1978 | W | 523 | 3,750 | 3,578 |
| 8S 1E12AD | 432217103561601 | 432217 | 1035616 | 10/07/1968 | W | 2,760 | 3,680 | 1,862 |
| 8S 1E31DA | 431835104021101 | 431835 | 1040211 | 01/28/1988 | X | 5,643 | 3,835 | 1,151 |
| 8S 2E 2AB | 432322103503501 | 432322 | 1035035 | 12/20/1985 | W | 2,374 | 3,813 | 2,480 |
| 8S 2E 8BD | 432215103542701 | 432215 | 1035427 | 07/25/1994 | W | 2,400 | 3,470 | 1,942 |
| 8S 2E 8CCCC | 432145103545101 | 432145 | 1035451 | 06/18/1994 | W | 2,450 | 3,501 | 1,851 |
| 8S 2E14AD | 432123103501701 | 432124 | 1035017 | 12/24/1971 | W | 2,415 | 3,623 | 2,065 |
| 8S 2E14CD | 432058103505101 | 432058 | 1035051 | 12/06/1970 | W | 2,433 | 3,624 | 2,015 |
| 8S 2E15AA | 432137103512901 | 432137 | 1035129 | 12/30/1964 | W | 2,472 | 3,581 | 2,083 |
| 8S 2E17AB | 432141103540901 | 432141 | 1035409 | 07/07/1994 | W | 2,500 | 3,502 | 1,882 |
| 8S 2E17BA | 432141103543001 | 432141 | 1035430 | 04/21/1994 | W | 2,480 | 3,494 | 1,853 |
| 8S 2E20CC | 432005103544501 | 432005 | 1035445 | 05/16/1981 | W | 2,900 | 3,592 | 1,702 |
| 8S 2E22BC | 431845103533701 | 431845 | 1035337 | --/--/1988 | X | 2,881 | 3,610 | 1,718 |
| 8S 2E23BD | 432032103505301 | 432032 | 1035053 | 05/15/1946 | W | 2,537 | 3,570 | 1,978 |
| 8S 2E24BB | 432045103495901 | 432045 | 1034959 | 02/05/1958 | W | 2,545 | 3,600 | 1,987 |
| 8S 2E35BD | 431835103502301 | 431848 | 1035055 | 06/28/1980 | W | 2,631 | 3,469 | 1,848 |
| 8S 3E 8CCCA | 432147103544801 | 432147 | 1035448 | 11/18/1993 | W | 2,450 | 3,499 | 1,858 |
| 8S 3E 8DB | 432205103470301 | 432205 | 1034703 | 11/22/1945 | W | 2,204 | 3,600 | 2,427 |
| 8S 3E14AC | 432123103432901 | 432123 | 1034329 | 07/20/1968 | W | 2,425 | 4,029 | 2,752 |
| 8S 3E17CA | 432111103472201 | 432111 | 1034722 | 08/02/1968 | W | 2,270 | 3,589 | 2,234 |
| 8S 3E24DAAC | 432020103415801 | 432020 | 1034158 | 08/24/1965 | W | 1,970 | 4,033 | 3,043 |
| 8S 3E30AC | 431940103481301 | 431940 | 1034813 | 06/17/1965 | W | 2,504 | 3,455 | 1,949 |
| 8S 3E36BDD | 431844103423101 | 431844 | 1034231 | 10/14/1942 | W | 2,338 | 4,038 | 2,918 |
| 8S 4E 6DD | 432238103404501 | 432238 | 1034045 | 08/24/1969 | X | 2,048 | 4,673 | 3,357 |
| 8S 4E18DA | 432113103405001 | 432113 | 1034050 | 06/12/1981 | W | 2,296 | 4,426 | 3,118 |
| 8S 4E23AC | 432030103362301 | 432030 | 1033623 | 05/29/1969 | W | 2,375 | 3,990 | 2,599 |
| 8S 7E27DCC | 431909103161801 | 431909 | 1031618 | 01/24/1946 | W | 4,548 | 3,354 | -146 |
| 9S 1E 1CABD | 431736103565301 | 431745 | 1035703 | 09/23/1971 | W | 3,300 | 3,790 | 1,388 |
| 9S 1E 6BA | 431810104025001 | 431810 | 1040250 | --/--/1983 | W | 3,670 | 3,860 | 1,105 |
| 9S 1E12ADDC | 431704103561801 | 431701 | 1035615 | 12/29/1963 | W | 3,250 | 3,831 | 1,554 |
| 9S 1E23CCAD | 431453103582201 | 431455 | 1035826 | 12/27/1968 | W | 2,743 | 3,730 | 1,210 |
| 9S 1E24BA | 431532103565401 | 431532 | 1035654 | 12/15/1986 | W | 3,335 | 3,828 | 1,385 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | Fall River County—Continued | | | | | |
| 9S 1E29AA | 431441104010301 | 431441 | 1040103 | 12/05/1997 | W | 3,488 | 3,750 | 1,107 |
| 9S 1E29BDB | 431433104014001 | 431433 | 1040140 | 07/07/1988 | W | 3,665 | 3,770 | 1,050 |
| 9S 1E30DBC | 431413104023401 | 431413 | 1040234 | 01/21/1998 | W | 3,666 | 3,836 | 1,011 |
| 9S 2E 1ACDB | 431753103492601 | 431753 | 1034926 | 03/20/1913 | W | 2,983 | 3,455 | 1,765 |
| 9S 2E 1BCDC | 431750103500301 | 431750 | 1035003 | 10/23/1936 | W | 3,183 | 3,571 | 1,751 |
| 9S 2E 1CBBC | 431743103501401 | 431743 | 1035014 | 06/23/1962 | W | 3,050 | 3,575 | 1,770 |
| 9S 2E 2AC | 431756103504201 | 431756 | 1035042 | 08/15/1996 | W | 2,730 | 3,598 | 1,808 |
| 9S 2E 2CA | 431743103505901 | 431743 | 1035059 | 03/21/1990 | W | 2,716 | 3,652 | 1,756 |
| 9S 2E 5CCBD | 431729103544901 | 431729 | 1035449 | 11/13/1976 | W | 3,065 | 3,822 | 1,665 |
| 9S 2E 6CA | 431740103554301 | 431740 | 1035543 | 12/14/1971 | W | 3,145 | 3,795 | 1,535 |
| 9S 2E 7ABBB | 431718103554201 | 431723 | 1035536 | 12/18/1970 | W | 3,250 | 3,877 | 1,543 |
| 9S 2E10DD | 431637103513501 | 431645 | 1035135 | 12/09/1965 | W | 2,909 | 3,574 | 1,652 |
| 9S 2E11AC | 431703103504201 | 431703 | 1035042 | 08/09/1996 | W | 2,700 | 3,536 | 1,706 |
| 9S 2E12BBAC | 431716103500301 | 431716 | 1035003 | 05/--/1981 | W | 2,898 | 3,507 | 1,729 |
| 9S 2E14BA | 431625103510001 | 431625 | 1035100 | 12/13/1985 | W | 2,671 | 3,518 | 1,653 |
| 9S 2E14CD | 431545103510001 | 431545 | 1035100 | 04/15/1984 | W | 2,980 | 3,580 | 1,648 |
| 9S 2E15ACC | 431606103515801 | 431606 | 1035158 | 07/15/1980 | W | 2,735 | 3,549 | 1,665 |
| 9S 2E15BA | 431622103520601 | 431622 | 1035206 | 08/09/1980 | W | 2,900 | 3,636 | 1,613 |
| 9S 2E16AD | 432122103524201 | 431610 | 1035242 | 05/30/1981 | W | 3,347 | 3,642 | 1,612 |
| 9S 2E16DCCA | 431545103530701 | 431545 | 1035307 | 01/22/1969 | W | 3,095 | 3,742 | 1,619 |
| 9S 2E20ACD | 431521103540001 | 431521 | 1035400 | 12/13/1980 | W | 2,860 | 3,584 | 1,631 |
| 9S 2E20DA | 431509103535801 | 431509 | 1035410 | 05/24/1953 | W | 2,865 | 3,615 | 1,635 |
| 9S 2E21AC | 431515103530501 | 431515 | 1035305 | 06/08/1988 | W | 2,850 | 3,570 | 1,601 |
| 9S 2E21BD | 431520103532301 | 431520 | 1035323 | 08/21/1987 | W | 2,847 | 3,594 | 1,618 |
| 9S 2E21CB | 431505103534501 | 431505 | 1035345 | 05/30/1986 | W | 2,844 | 3,571 | 1,621 |
| 9S 2E25DC | 431400103492601 | 431400 | 1034926 | 02/14/1985 | X | 3,380 | 3,807 | 1,417 |
| 9S 2E29AD | 431421103535201 | 431421 | 1035352 | 04/21/1982 | W | 3,050 | 3,703 | 1,601 |
| 9S 2E30BA | 431442103555001 | 431442 | 1035550 | 12/07/1986 | W | 3,330 | 3,725 | 1,339 |
| 9S 2E32DB | 431316103542301 | 431316 | 1035423 | 02/14/1997 | W | 3,200 | 3,727 | 1,467 |
| 9S 2E35CD | 431305103505801 | 431305 | 1035058 | 07/18/1983 | W | 3,380 | 3,717 | 1,366 |
| 9S 3E25DD | 431400103421001 | 431400 | 1034210 | 08/28/1964 | W | 2,485 | 3,440 | 2,090 |
| 9S 4E 7BBAC | 431715103415301 | 431718 | 1034155 | 05/16/1969 | W | 2,000 | 3,966 | 2,608 |
| 9S 5E34ACC | 431331103304601 | 431331 | 1033046 | 11/13/1951 | W | 2,528 | 3,625 | 1,915 |

**Table 2.** Selected data for wells and test holes used in the structure-contour map of the Minnekahta Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station idetdnification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29 Land surface | Altitude, in feet above or below (-) NGVD29 Top of the Minnekahta Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 9S 6E18CD | 431543103272501 | 431543 | 1032725 | 10/27/1964 | W | 2,692 | 3,348 | 1,491 |
| 9S 7E16DA | 431556103172501 | 431556 | 1031725 | 05/16/1971 | W | 4,335 | 3,350 | 79 |
| 9S 7E25AD | 431420103115001 | 431420 | 1031430 | 10/03/1958 | W | 4,617 | 3,390 | -192 |
| 10S 1E 3AB | 431255103590001 | 431255 | 1035900 | 01/05/1998 | W | 3,449 | 3,731 | 1,124 |
| 10S 1E19AC | 431008104023301 | 431008 | 1040233 | 05/29/1985 | W | 3,750 | 3,865 | 1,024 |
| 10S 1E19AD | 431005104021101 | 431005 | 1040211 | 01/18/1985 | W | 3,750 | 3,871 | 1,055 |
| 10S 1E19DA | 430952104021201 | 430952 | 1040212 | 06/06/1984 | W | 3,780 | 3,896 | 1,056 |
| 10S 1E20CBB | 430957104020101 | 430957 | 1040201 | 12/23/1984 | W | 3,750 | 3,870 | 1,056 |
| 10S 1E32CDB | 430759104014301 | 430759 | 1040143 | 02/21/1989 | W | 3,911 | 3,968 | 1,002 |
| 10S 1E32DB | 430806104012401 | 430806 | 1040124 | 09/20/1985 | W | 4,005 | 4,019 | 1,019 |
| 10S 1E34DB | 430808103590001 | 430808 | 1035900 | 09/16/1991 | W | 3,500 | 3,954 | 1,334 |
| 10S 1E35BDC | 430815103580001 | 430815 | 1035800 | 12/20/1995 | W | 3,473 | 3,914 | 1,319 |
| 10S 2E 2CA | 431233103511001 | 431233 | 1035110 | 04/08/1970 | W | 3,178 | 3,660 | 1,292 |
| 10S 2E 3ACDA | 431240103453001 | 431240 | 1035150 | 11/26/1943 | W | 3,855 | 3,655 | 1,340 |
| 10S 2E 3DAA | 431232103513501 | 431232 | 1035135 | -- | W | -- | 3,655 | 1,281 |
| 10S 2E 4BD | 431242103531501 | 431242 | 1035315 | 06/19/1981 | W | 3,670 | 3,810 | 1,398 |
| 10S 2E 5BA | 431257103543301 | 431257 | 1035433 | 07/03/1990 | W | 3,340 | 3,796 | 1,454 |
| 10S 2E10AA | 431203103514001 | 431203 | 1035140 | 12/15/1994 | W | 3,280 | 3,720 | 1,291 |
| 10S 2E18ACD | 431055103552601 | 431055 | 1035526 | 09/01/1989 | W | 4,065 | 3,797 | 1,294 |
| 10S 2E18BDB | 431100103554401 | 431100 | 1035544 | 07/30/1992 | W | 3,403 | 3,792 | 1,313 |
| 10S 2E33DD | 430758103524401 | 430758 | 1035244 | 09/07/1986 | W | 3,870 | 3,967 | 1,025 |
| 10S 3E16BB | 431112103463501 | 431112 | 1034635 | 11/14/1982 | W | 3,432 | 3,596 | 1,124 |
| 10S 3E25CD | 430836103424801 | 430836 | 1034248 | 11/30/1982 | W | 3,604 | 3,506 | 873 |
| 10S 3E28AC | 430920103455201 | 430920 | 1034552 | 11/05/1973 | W | 3,596 | 3,800 | 923 |
| 10S 3E32DACD | 430801103472301 | 430804 | 1035647 | 09/03/1980 | X | 3,962 | 3,810 | 855 |
| 10S 4E 4CCA | 431218103393001 | 431218 | 1033930 | 12/05/1946 | W | 3,004 | 3,475 | 1,690 |
| 10S 4E 8AA | 431203103395201 | 431203 | 1033952 | 06/29/1965 | W | 2,768 | 3,502 | 1,705 |
| 10S 4E20D | 430945103400001 | 430945 | 1034000 | --/--/1937 | W | 3,250 | 3,600 | 1,910 |

[1]From Carter and Redden, 1999b.

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Butte County** | | | | | |
| 9N 6E36DA | 444147103193501 | 444147 | 1031935 | 10/09/1976 | W | 5,575 | 2,804 | -1,022 |
| 9N 5E24ACA | 444350103270701 | 444350 | 1032704 | 07/12/1934 | W | 4,400 | 2,860 | -1,490 |
| 9N 3E27ADBD | 444253103440001 | 444253 | 1034359 | 07/--/1952 | W | 4,016 | 3,002 | 672 |
| 9N 2E34CDDCA | 444129103514801 | 444129 | 1035148 | 10/10/1981 | W | 3,320 | 3,185 | 726 |
| 8N 5E12DBC | 444002103272001 | 444002 | 1032720 | 12/13/1949 | W | 5,759 | 2,880 | -749 |
| 8N 4E13CD | 443857103344801 | 443857 | 1033448 | 01/04/1965 | W | 2,677 | 2,930 | 365 |
| 8N 3E33CCB | 443627103460301 | 443625 | 1034555 | 11/03/1960 | W | -- | 3,275 | 1,200 |
| 8N 3E31ACA | 443655103482001 | 443650 | 1034744 | 08/21/1960 | W | 1,853 | 3,190 | 1,390 |
| 8N 3E13AA | 443940103412701 | 443940 | 1034127 | 09/16/1991 | W | 3,750 | 2,911 | 920 |
| 8N 3E 2DB | 444057103425701 | 444057 | 1034257 | 07/25/1960 | W | 2,240 | 2,990 | 880 |
| 8N 2E28DDCB | 443716103522501 | 443716 | 1035225 | 03/11/1980 | W | 2,220 | 3,242 | 1,642 |
| 8N 2E22BBDC | 443839103514701 | 443841 | 1035201 | --/--/1968 | W | 2,590 | 3,220 | 1,240 |
| 8N 1E33ABCA | 443650104000801 | 443659 | 1035958 | 01/17/1953 | W | 1,450 | 3,490 | 2,255 |
| 8N 1E32AD | 443648104010001 | 443648 | 1040100 | --/--/1933 | W | 1,529 | 3,500 | 2,383 |
| 8N 1E30ABB | 443758104023801 | 443758 | 1040238 | 06/12/1958 | W | 1,211 | 3,420 | 2,278 |
| 8N 1E20CACB | 443826104012401 | 443826 | 1040124 | --/--/1953 | W | 1,321 | 3,362.1 | 2,134 |
| 8N 1E19CD | 443808104025001 | 443808 | 1040250 | 08/27/1959 | W | 1,214 | 3,391 | 2,251 |
| 8N 1E19CCCA | 443805104031001 | 443805 | 1040310 | 09/19/1957 | W | 1,142 | 3,240 | 2,160 |
| 8N 1E19CBA | 443818104030001 | 443818 | 1040300 | 10/30/1953 | W | 1,585 | 3,406 | 2,251 |
| 8N 1E19ADAC | 443836104020801 | 443837 | 1040200 | 05/12/1981 | W | 1,380 | 3,340 | 2,084 |
| 7N 2E 6CDBD | 443534103552601 | 443534 | 1035526 | 06/13/1980 | W | 2,180 | 3,365 | 2,160 |
| 7N 2E 2BBAD | 443612103504701 | 443612 | 1035047 | 03/09/1987 | W | 1,465 | 3,400 | 2,020 |
| 7N 1E12AAB | 443530103565501 | 443523 | 1035603 | 06/30/1962 | W | -- | 3,340 | 2,500 |
| 7N 1E11BCAD | 443511103575801 | 443511 | 1035758 | 10/12/1977 | W | 1,440 | 3,360 | 2,494 |
| 7N 1E11ACAC | 443515103572501 | 443508 | 1035730 | 06/01/1966 | W | 1,004 | 3,400 | 2,496 |
| 7N 1E 9CBCB | 443500104004801 | 443500 | 1040048 | 09/26/1958 | W | 785 | 3,423 | 2,727 |
| | | | **Lawrence County** | | | | | |
| 7N 4E30DCB | 443205103404001 | 443205 | 1034040 | 11/15/1950 | W | 3,143 | 3,680 | 2,176 |
| 7N 3E 7AABA | 443515103473001 | 443525 | 1034732 | 01/--/1962 | W | 1,653 | 3,360 | 1,778 |
| 7N 2E32BDD | 443115103540001 | 443137 | 1035406 | 07/13/1981 | W | 545 | 3,590 | 3,130 |
| 7N 2E32BB | 443427103540201 | 443153 | 1035425 | 10/--/1960 | W | 540 | 3,560 | 3,083 |
| 7N 2E32BAC | 443117103541301 | 443147 | 1035413 | 11/11/1980 | W | 500 | 3,570 | 3,153 |
| 7N 2E31BD | 443140103543001 | 443140 | 1035525 | 11/01/1991 | W | 697 | 3,580 | 3,154 |
| 7N 2E27CCA | 443206103514501 | 443201 | 1035145 | 12/30/1986 | W | 1,060 | 3,450 | 2,760 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Lawrence County—Continued** | | | | | |
| 7N 2E24DBDD | 443305103485401 | 443305 | 1034854 | 05/14/1981 | W | 940 | 3,405 | 2,480 |
| 7N 2E22BCA | 443323103515501 | 443324 | 1035158 | 07/14/1960 | W | 1,218 | 3,437 | 2,304 |
| 7N 2E21AC | 443325103525001 | 443321 | 1035238 | 01/18/1965 | W | 960 | 3,440 | 2,555 |
| 7N 2E21AABC | 443335103522801 | 443335 | 1035228 | 06/16/1980 | W | 1,260 | 3,418 | 2,498 |
| 7N 2E20DA | 443310103533501 | 443310 | 1035335 | 11/06/1964 | W | 1,115 | 3,390 | 2,708 |
| 7N 2E19CAAA | 443420103551001 | 443315 | 1035514 | --/--/1960 | W | 700 | 3,405 | 2,764 |
| 7N 2E18CA | 443355103553001 | 443359 | 1035532 | --/--/1960 | W | 845 | 3,390 | 2,598 |
| 7N 2E15DD | 443348103510601 | 443348 | 1035127 | 05/14/1962 | W | 1,250 | 3,370 | 2,191 |
| 7N 2E15CC | 443330103520301 | 443348 | 1035203 | -- | W | -- | 3,437 | 2,320 |
| 7N 2E10BADC | 443515103513901 | 443513.1 | 1035143.4 | 05/17/1962 | W | 1,306.5 | 3,218.1 | 1,899 |
| 7N 1E36DCBC | 443117103560101 | 443114 | 1035626 | 06/24/1981 | W | 500 | 3,890 | 3,740 |
| 7N 1E36CDDD | 443032103562501 | 443107 | 1035625 | 08/02/1977 | W | 480 | 3,930 | 3,775 |
| 7N 1E36CDDC | 443105103563401 | 443105 | 1035634 | 06/05/1995 | W | 480 | 3,930 | 3,770 |
| 7N 1E36BDAA | 443141103562301 | 443142 | 1035628 | -- | W | 240 | 3,655 | 3,447 |
| 7N 1E33CCDD | 443100104002001 | 443104.2 | 1040025.3 | 07/31/1987 | W | 1,100 | 3,667.0 | 3,246 |
| 7N 1E30DDDC | 443150104020001 | 443156 | 1040205 | 07/17/1960 | W | 985 | 3,510 | 2,990 |
| 7N 1E28CACD | 443212104001601 | 443212 | 1040016 | 03/11/1980 | W | 1,530 | 3,535 | 3,225 |
| 7N 1E26ACD | 443215103573001 | 443215 | 1035730 | 08/18/1960 | W | -- | 3,524 | 3,327 |
| 7N 1E25DBDA | 443215103561501 | 443215 | 1035610 | 12/31/1959 | W | 500 | 3,510 | 3,119 |
| 7N 1E25CCBC | 443202103581101 | 443205 | 1035700 | 04/25/1978 | W | 240 | 3,620 | 3,431 |
| 7N 1E23CBDC | 443310103582301 | 443303 | 1035803 | --/--/1954 | W | 568 | 3,470 | 3,035 |
| 7N 1E19DCCC | 443255104020301 | 443251 | 1040233 | 11/23/1960 | W | 645 | 3,520 | 2,915 |
| 7N 1E16ABDB | 443430103595401 | 443430 | 1035954 | 06/13/1986 | W | 600 | 3,500 | 2,955 |
| 7N 1E14CCDD2 | 443355103574502 | 443343 | 1035802 | 05/14/1972 | W | 620 | 3,474 | 2,885 |
| 6N 4E36CBAA | 442610103350001 | 442616 | 1033505 | 05/17/1974 | W | 460 | 3,595 | 3,170 |
| 6N 4E35BDCA | 442623103360401 | 442623 | 1033604 | 03/20/1988 | W | 300 | 3,720 | 3,521 |
| 6N 4E35ADBC | 442624103353301 | 442624 | 1033533 | 06/08/1984 | W | 315 | 3,560 | 3,362 |
| 6N 4E33ABDC | 442708103382001 | 442630 | 1033809 | 07/10/1991 | W | 460 | 3,750 | 3,530 |
| 6N 4E31DACD | 442606103402301 | 442606 | 1034023 | 11/16/1990 | W | 730 | 3,970 | 3,685 |
| 6N 4E31CCBA | 442600103411301 | 442600 | 1034113 | 05/06/1985 | W | 705 | 4,080 | 3,915 |
| 6N 4E31ADDD | 442610103401701 | 442610 | 1034017 | 05/19/1980 | W | 700 | 4,040 | 3,500 |
| 6N 4E25BDDB | 442711103345001 | 442711 | 1033450 | --/--/1974 | W | 1,200 | 3,465 | 2,465 |
| 6N 4E22CBCB | 442845103363001 | 442753 | 1033710 | 10/--/1924 | W | 1,020 | 3,600 | 3,069 |
| 6N 4E21DCBC | 442746103381301 | 442743 | 1033818 | 08/15/1977 | W | 480 | 3,645 | 3,230 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | Lawrence County—Continued | | | | | |
| 6N 4E21DBCD | 442749103381401 | 442749 | 1033814 | 10/13/1961 | W | 630 | 3,620 | 3,241 |
| 6N 4E21AC | 442807103381101 | 442807 | 1033811 | 05/--/1924 | W | 957 | 3,590 | 3,090 |
| 6N 4E16DDBB | 442835103380101 | 442835 | 1033801 | 08/25/1986 | W | 1,442 | 3,560 | 2,910 |
| 6N 4E16DA | 442845103375301 | 442845 | 1033753 | 03/08/1981 | W | 810 | 3,620 | 2,880 |
| 6N 3E36DBBB | 442622103420601 | 442622 | 1034206 | 03/26/1981 | W | 165 | 4,020 | 3,863 |
| 6N 3E35DDBB | 442605103424501 | 442605 | 1034245 | 05/03/1986 | W | 900 | 4,200 | 3,988 |
| 6N 3E34BB | 442640103444501 | 442640 | 1034445 | 10/26/1993 | W | 922 | 4,160 | 3,986 |
| 6N 3E26BDBD | 442715103432301 | 442715 | 1034323 | 03/10/1976 | W | 880 | 3,898 | 3,678 |
| 6N 3E20DDDC | 442736103461401 | 442736 | 1034614 | 12/20/1979 | W | 720 | 4,020 | 3,840 |
| 6N 3E20BBAD | 442825103470401 | 442825 | 1034704 | 08/02/1978 | W | 460 | 3,940 | 3,705 |
| 6N 3E20BAAC | 442823103465201 | 442823 | 1034652 | 04/02/1993 | W | 902 | 3,940 | 3,707 |
| 6N 3E18BDAD | 442856103475701 | 442901 | 1034757 | 06/--/1979 | W | 900 | 3,900 | 3,605 |
| 6N 3E17ABAA2 | 442913103465401 | 442917 | 1034630 | 03/22/1976 | W | 700 | 3,830 | 3,265 |
| 6N 3E15DDDA | 442833103434601 | 442834.5 | 1034346.2 | 06/22/1988 | W | 320 | 3,767.5 | 3,596 |
| 6N 3E15BADD | 442907103442301 | 442907 | 1034423 | 07/30/1971 | W | 598 | 3,840 | 3,366 |
| 6N 3E14BAAB | 442837103431401 | 442918 | 1034314 | 06/08/1966 | W | 280 | 3,675 | 3,433 |
| 6N 3E10DBBA | 442944103441401 | 442944 | 1034414 | 09/03/1988 | W | 190 | 3,760 | 2,845 |
| 6N 3E 8DC | 442923103463801 | 442923 | 1034638 | 10/17/1992 | W | 662 | 3,830 | 3,273 |
| 6N 2E25BBCA | 442727103493701 | 442727 | 1034937 | 01/18/1982 | W | 615 | 4,105 | 4,040 |
| 6N 2E23DD | 442741103495601 | 442741 | 1034956 | 08/20/1977 | W | 540 | 4,042 | 3,882 |
| 6N 2E22BCBA | 442756103513101 | 442812 | 1035206 | 06/23/1981 | W | 1,140 | 4,010 | 3,880 |
| 6N 2E22BBDC | 442825103520101 | 442825 | 1035201 | 06/15/1977 | W | 520 | 4,000 | 3,845 |
| 6N 2E22BBD | 442818103515701 | 442818 | 1035157 | 02/10/1976 | W | 600 | 4,060 | 3,900 |
| 6N 2E22ABBD | 442821103512501 | 442821 | 1035125 | 08/26/1978 | W | 480 | 3,960 | 3,820 |
| 6N 2E20BACA | 442820103541001 | 442820 | 1035410 | 09/14/1981 | W | 200 | 4,280 | 4,160 |
| 6N 2E20ABAB | 442825103535001 | 442825 | 1035350 | 03/15/1971 | W | 840 | 4,240 | 4,100 |
| 6N 2E19DABA | 442802103544601 | 442759.6 | 1035449.2 | 07/11/1997 | W | 1,100 | 4,590.3 | 4,467 |
| 6N 2E16BBBC | 442907103530801 | 442915 | 1035320 | --/--/1979 | W | 620 | 3,940 | 3,735 |
| 6N 2E16BA | 442917103525601 | 442917 | 1035256 | 05/--/1986 | W | 760 | 3,905 | 3,755 |
| 6N 2E16AAB | 442918103523001 | 442918 | 1035230 | 07/20/1987 | W | 925 | 3,680 | 3,510 |
| 6N 2E15CDDA | 442831103513501 | 442831 | 1035135 | 07/08/1978 | W | 520 | 3,940 | 3,835 |
| 6N 2E14CBCC | 442842103505501 | 442842 | 1035055 | 08/31/1993 | W | 842 | 3,760 | 3,625 |
| 6N 2E14CA | 442855103503501 | 442855 | 1035035 | 06/01/1987 | W | 1,180 | 3,870 | 3,450 |
| 6N 2E14BCCC2 | 442854103505602 | 442854.4 | 1035053.6 | 08/19/1988 | W | 68 | 3,735.4 | 3,555 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | Lawrence County—Continued | | | | | |
| 6N 2E12AD | 442956103484001 | 442956 | 1034840 | 09/28/1987 | W | 500 | 3,800 | 3,390 |
| 6N 2E 9D | 442930103522001 | 442930 | 1035220 | -- | W | 300 | 3,660 | 3,400 |
| 6N 2E 9CAC2 | 442936103530001 | 442936 | 1035300 | 10/07/1987 | W | 855 | 3,762 | 3,620 |
| 6N 2E 9CAC | 442935103530301 | 442935 | 1035303 | 05/30/1977 | W | 205 | 3,760 | 3,615 |
| 6N 2E 8CCB | 442930103543201 | 442930 | 1035432 | 09/--/1980 | W | 290 | 3,960 | 3,710 |
| 6N 2E 8AA | 443010103533001 | 443010 | 1035330 | 12/18/1989 | W | 268 | 3,650 | 3,370 |
| 6N 2E 7DCBA | 443026103550401 | 442932 | 1035504 | 10/01/1988 | W | 220 | 4,080 | 3,968 |
| 6N 2E 7AAC | 443035103544501 | 443005 | 1035445 | 09/10/1986 | W | 360 | 3,760 | 3,465 |
| 6N 2E 6DACD | 443026103544601 | 443026 | 1035446 | 07/15/1988 | W | 340 | 3,720 | 3,425 |
| 6N 2E 6DACC | 443025103544501 | 443028 | 1035453 | 06/30/1988 | W | 267 | 3,710 | 3,470 |
| 6N 2E 5DC2 | 443020103525001 | 443020 | 1035350 | 10/15/1988 | W | 285 | 3,625 | 3,375 |
| 6N 2E 5CBDB | 443035103543001 | 443035 | 1035430 | 11/01/1990 | W | 290 | 3,655 | 3,440 |
| 6N 2E 5C | 443024103542001 | 443024 | 1035420 | 10/28/1981 | W | 287 | 3,650 | 3,390 |
| 6N 2E 5BCAA | 443050103541701 | 443050 | 1035417 | 12/--/1979 | W | 280 | 3,620 | 3,380 |
| 6N 2E 5BBBB2 | 443100103543002 | 443104.3 | 1035437.7 | 07/03/1986 | W | 290 | 3,677.4 | 3,275 |
| 6N 2E 4DBCC | 443028103522801 | 443033 | 1035245 | 02/13/1979 | W | 420 | 3,562 | 3,167 |
| 6N 2E 4BBAA | 443101103530601 | 443101 | 1035306 | 06/02/1981 | W | 300 | 3,548 | 3,283 |
| 6N 1E18BBAA | 442917104025801 | 442917 | 1040258 | 10/01/1960 | W | 300 | 4,300 | 4,217 |
| 6N 1E16ACBB | 442903103595601 | 442907 | 1035959 | 08/05/1964 | W | 263 | 4,180 | 4,089 |
| 6N 1E 9ACBC | 442953103595601 | 442953 | 1035956 | 10/08/1960 | W | 189 | 3,840 | 3,716 |
| 6N 1E 8BCBC | 442952104015101 | 442952 | 1040151 | 10/18/1969 | W | 320 | 3,900 | 3,783 |
| 6N 1E 6BDAB | 443049104024501 | 443049 | 1040245 | 02/--/1977 | W | 430 | 3,785 | 3,570 |
| 6N 1E 6ADCD | 443039104020901 | 443039 | 1040209 | --/--/1961 | W | 315 | 3,795 | 3,535 |
| 6N 1E 2CABB | 443036103575401 | 443036 | 1035754 | 01/20/1982 | W | 160 | 3,930 | 3,810 |
| 5N 4E23AABC | 442310103353501 | 442310 | 1033535 | 07/14/1974 | W | 262 | 3,910 | 3,875 |
| 5N 4E15ADDA | 442347103364001 | 442347 | 1033640 | 03/29/1973 | W | 560 | 4,075 | 3,935 |
| 5N 4E14BDDC | 442348103355801 | 442348 | 1033558 | --/--/1976 | X | 560 | 3,980 | 3,790 |
| 5N 4E14BBDA | 442400103362001 | 442400 | 1033617 | 05/21/1981 | W | 620 | 4,030 | 3,832 |
| 5N 4E14BA | 442542103344701 | 442400 | 1033605 | 04/07/1978 | W | 380 | 3,980 | 3,770 |
| 5N 4E14ADA | 442340103345001 | 442348 | 1033524 | --/--/1968 | W | 400 | 3,860 | 3,712 |
| 5N 4E13CBAC | 442338103350601 | 442338 | 1033506 | -- | W | 350 | 3,815 | 3,697 |
| 5N 4E11CCAD | 442416103362301 | 442412 | 1033618 | 08/25/1983 | W | 75 | 4,010 | 3,962 |
| 5N 4E 1ABBD2 | 442545103343702 | 442544.3 | 1033437.1 | 11/30/1990 | W | 822 | 3,629.7 | 3,356 |
| 5N 4E 1ABBD | 442545103343701 | 442544.4 | 1033437.5 | 06/25/1986 | W | 300 | 3,629.3 | 3,345 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Lawrence County—Continued** | | | | | |
| 5N 4E 1ABBC | 442546103344101 | 442546 | 1033441 | 01/05/1952 | W | 310 | 3,618 | 3,378 |
| 5N 3E 1ADA2 | 442536103412601 | 442536 | 1034126 | 10/02/1992 | W | 1,160 | 4,310 | 4,140 |
| | | | **Meade County** | | | | | |
| 6N 6E19BCAA | 442813103263901 | 442813 | 1032639 | 06/01/1956 | W | 1,350 | 3,190 | 2,655 |
| 6N 6E19BBBA | 442824103264101 | 442824 | 1032641 | 09/24/1993 | W | 900 | 3,200 | 2,780 |
| 6N 5E14ADBD | 442901103281601 | 442901 | 1032816 | 10/28/1980 | W | 1,100 | 3,100 | 2,050 |
| 5N 5E36DBCB | 442058103273001 | 442058 | 1032730 | 08/--/1976 | W | 1,368 | 3,720 | 3,200 |
| 5N 5E36ADD | 442108103270301 | 442108 | 1032703 | 06/09/1976 | W | 1,120 | 3,690 | 2,675 |
| 5N 5E26ABDA | 442217103272201 | 442215 | 1032829 | --/--/1952 | W | 1,465 | 3,625 | 2,882 |
| 5N 5E26AA | 442215103281701 | 442215 | 1032817 | 06/15/1991 | W | 1,140 | 3,605 | 2,645 |
| 5N 5E21AAA | 442311103303501 | 442311 | 1033035 | 10/--/1967 | W | 883 | 3,600 | 3,310 |
| 5N 5E16DABA | 442441103304201 | 442340 | 1033042 | 12/04/1964 | W | 600 | 3,570 | 3,114 |
| 5N 5E16CAAD | 442335103311001 | 442336.7 | 1033111.2 | 06/16/1986 | W | 839 | 3,606.3 | 3,310 |
| 5N 5E 9DCBBA | 442416103310301 | 442419 | 1033105 | --/--/1958 | W | 744 | 3,500 | 3,046 |
| 5N 5E 9BCAA | 442443103312701 | 442443 | 1033127 | 08/--/1960 | W | 902 | 3,530 | 2,955 |
| 5N 5E 9ABCC | 442453103310301 | 442448 | 1033104 | 06/03/1955 | W | 1,060 | 3,460 | 2,840 |
| 5N 5E 8ACC | 442435103321601 | 442435 | 1033216 | 06/08/1994 | W | 380 | 3,580 | 3,245 |
| 5N 5E 7ABB4 | 442455103332804 | 442455 | 1033328 | 05/28/1991 | W | 340 | 3,580 | 3,446 |
| 5N 5E 7AAB | 442456103330801 | 442456 | 1033308 | --/--/1971 | W | 320 | 3,580 | 3,390 |
| 5N 5E 6AC2 | 442526103331301 | 442526 | 1033313 | 09/12/1987 | W | 460 | 3,550 | 3,135 |
| 5N 5E 5DDC | 442502103315701 | 442502 | 1033157 | --/--/1965 | W | 508 | 3,480 | 2,995 |
| 5N 5E 5DCAC | 442506103321201 | 442506 | 1033212 | 06/07/1977 | W | 604 | 3,498 | 3,003 |
| 5N 5E 5CCCA | 442502103325201 | 442502 | 1033252 | 08/10/1977 | W | 435 | 3,525 | 3,208 |
| 5N 5E 5BCB | 442536103323501 | 442536 | 1033252 | --/--/1974 | W | 720 | 3,555 | 2,983 |
| 5N 5E 4CBCC | 442514103314101 | 442514 | 1033141 | 02/28/1984 | W | 1,497 | 3,461 | 2,886 |
| 5N 5E 3BCD | 442529103301401 | 442529 | 1033014 | 05/15/1992 | W | 1,740 | 3,460 | 1,920 |
| 4N 6E32CA | 441544103253001 | 441544 | 1032530 | 04/08/1991 | W | 260 | 3,640 | 3,515 |
| 4N 6E32BDA | 441559103252501 | 441559 | 1032525 | 05/20/1970 | W | 300 | 3,631 | 3,431 |
| 4N 6E32BAD | 441606103252501 | 441606 | 1032525 | 05/28/1970 | W | 230 | 3,620 | 3,400 |
| 4N 6E32ACAB | 441609103251901 | 441604 | 1032509 | 10/26/1983 | W | 340 | 3,580 | 3,355 |
| 4N 6E30BDA | 441648103264001 | 441648 | 1032640 | 06/08/1982 | W | 540 | 4,000 | 3,780 |
| 4N 6E30ADCC | 441649103262401 | 441649 | 1032612 | 04/05/1979 | W | 540 | 3,930 | 3,770 |
| 4N 6E30A | 441656103261601 | 441656 | 1032616 | 10/07/1987 | W | 340 | 3,860 | 3,715 |
| 4N 6E29BCAD | 441641103252001 | 441651 | 1032540 | 10/02/1972 | W | 190 | 3,700 | 3,530 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Meade County—Continued** | | | | | |
| 4N 6E19AABA2 | 441759103261202 | 441759.7 | 1032612.2 | 11/19/1990 | W | 840 | 3,639.1 | 3,338 |
| 4N 6E16DCB | 441812103230501 | 441812 | 1032405 | 01/16/1961 | W | 1,460 | 3,460 | 2,200 |
| 3N 7E31CBBC | 441031103195201 | 441031 | 1031953 | 02/19/1976 | W | 530 | 3,690 | 3,400 |
| 3N 7E30CDD | 441105103192001 | 441105 | 1031920 | 06/30/1988 | W | 1,120 | 3,650 | 2,670 |
| 3N 7E30BCAD | 441147103270001 | 441138 | 1031940 | 10/27/1976 | W | 1,600 | 3,870 | 2,475 |
| 3N 7E19DBDA | 441214103191001 | 441214 | 1031910 | 07/04/1970 | W | 1,653 | 3,716 | 2,670 |
| 3N 7E19CDA | 441204103192301 | 441204 | 1031923 | 06/08/1950 | W | 2,155 | 3,670 | 2,553 |
| 3N 7E19BDDD | 441227103192801 | 441227 | 1031928 | 09/10/1949 | W | 1,368 | 3,560 | 2,640 |
| 3N 7E19AC | 441227103191001 | 441227 | 1031910 | 05/30/1950 | W | 1,235 | 3,675 | 2,680 |
| 3N 6E36DD | 441017103201001 | 441017 | 1032010 | 05/--/1961 | W | 210 | 3,700 | 3,510 |
| 3N 6E36DB | 441029103202201 | 441029 | 1032022 | 08/04/1987 | W | 338 | 3,722 | 3,512 |
| 3N 6E36BDCA | 441323103232301 | 441042 | 1032040 | 07/02/1977 | W | 520 | 3,780 | 3,630 |
| 3N 6E36BDB | 441039103204901 | 441039 | 1032049 | 07/15/1985 | W | 400 | 3,800 | 3,860 |
| 3N 6E36BDAA | 441047103203301 | 441049 | 1032031 | 10/15/1977 | W | 400 | 3,720 | 3,670 |
| 3N 6E36BACB | 441052103204801 | 441052 | 1032048 | 09/13/1978 | W | 420 | 3,790 | 3,720 |
| 3N 6E26ACAD | 441136103221301 | 441136 | 1032128 | 10/30/1978 | W | 360 | 3,680 | 3,500 |
| 3N 6E25CCDD | 441118103210001 | 441104 | 1032048 | 03/25/1985 | W | 370 | 3,720 | 3,495 |
| 3N 6E25ADDA | 441131103200101 | 441131 | 1032001 | 11/03/1976 | W | 805 | 3,615 | 2,897 |
| 3N 6E24DBDA | 441212103201501 | 441212 | 1032015 | 08/16/1972 | W | 1,542 | 3,840 | 2,463 |
| 3N 6E24CABB | 441219103204801 | 441219 | 1032048 | 09/06/1979 | W | 1,005 | 3,570 | 2,735 |
| 3N 6E23DDAC | 441202103211301 | 441207 | 1032115 | 07/31/1980 | W | 860 | 3,558 | 3,238 |
| 3N 6E23DCB | 441206103213701 | 441206 | 1032137 | 05/09/1980 | W | 330 | 3,600 | 3,340 |
| 3N 6E23DC | 441202103213301 | 441202 | 1032133 | 05/15/1987 | W | 360 | 3,580 | 3,362 |
| 3N 6E23DBCA | 441211103213701 | 441211 | 1032137 | 01/03/1985 | W | 375 | 3,560 | 3,325 |
| 3N 6E23CADA | 441210103215101 | 441213 | 1032143 | 04/26/1983 | W | 328 | 3,570 | 3,510 |
| 3N 6E23CABD | 441216103215801 | 441216 | 1032158 | 06/29/1978 | W | 460 | 3,700 | 3,550 |
| 3N 6E16AD2 | 441322103234202 | 441322 | 1032342 | 07/07/1986 | W | 260 | 3,660 | 3,500 |
| 3N 6E16AD | 441322103234201 | 441322 | 1032342 | 09/22/1986 | W | 340 | 3,660 | 3,500 |
| 3N 6E16AAAB | 441339103232701 | 441339 | 1032327 | -- | W | 295 | 3,570 | 3,401 |
| 3N 6E15DABBB | 441315103224001 | 441315 | 1032236 | 07/23/1987 | W | 365 | 3,530 | 3,270 |
| 3N 6E15DAA | 441257103222501 | 441257 | 1032225 | 06/12/1987 | W | 263 | 3,590 | 3,430 |
| 3N 6E15ABB2 | 441337103225002 | 441335.5 | 1032250.5 | 08/29/1994 | W | 880 | 3,476.8 | 3,133 |
| 3N 6E15AAAC | 441333103222801 | 441333 | 1032228 | 02/15/1979 | W | 640 | 3,470 | 2,980 |
| 3N 6E14CBA | 441319103220201 | 441309 | 1032208 | 06/02/1973 | W | 880 | 3,485 | 2,850 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Meade County—Continued** | | | | | |
| 3N 6E 9DDDC | 441339103232901 | 441339 | 1032329 | 06/10/1983 | W | 272 | 3,660 | 3,402 |
| 3N 6E 9CABB | 441358103241801 | 441358 | 1032418 | 10/24/1980 | W | 260 | 3,760 | 3,600 |
| 3N 6E 9BCBB2 | 441421103242302 | 441421 | 1032423 | 08/15/1978 | W | 365 | 3,740 | 3,760 |
| 3N 6E 9BBCD | 441424103243601 | 441424 | 1032436 | 06/03/1973 | W | 340 | 3,780 | 3,624 |
| 3N 6E 4CB | 441453103243801 | 441453 | 1032438 | 04/08/1986 | W | 328 | 3,570 | 3,377 |
| 3N 6E 3BCBC | 441504103230301 | 441509 | 1032332 | 09/04/1979 | W | 755 | 3,460 | 2,810 |
| 2N 9E18BAB | 440824103050601 | 440824 | 1030506 | 04/17/1942 | W | 4,645 | 3,195 | -365 |
| 2N 8E13BDC | 440801103061601 | 440801 | 1030616 | 07/12/1942 | -- | 4,440 | 3,199 | -330 |
| 2N 7E10CDCA | 440832103160901 | 440837 | 1031609 | 11/19/1956 | W | 1,048 | 3,395 | 2,615 |
| 2N 7E 9AABB | 440916103163301 | 440916 | 1031633 | 04/11/1979 | W | 1,260 | 3,420 | 2,525 |
| 2N 7E 8DDCC | 440826103174601 | 440826 | 1031746 | 08/24/1977 | W | 815 | 3,600 | 2,940 |
| 2N 7E 8BBC | 441636103183801 | 440907 | 1031838 | 05/22/1986 | W | 1,180 | 3,530 | 3,090 |
| 2N 7E 7BACA | 440908103193101 | 440906 | 1031944 | 01/04/1983 | W | 480 | 3,720 | 3,509 |
| 2N 7E 6DCD | 440930103190501 | 440930 | 1031905 | 09/--/1959 | W | 360 | 3,520 | 3,308 |
| 2N 7E 6CDAC | 440936103191801 | 440926 | 1031925 | 01/25/1981 | W | 340 | 3,545 | 3,370 |
| 2N 7E 5DDA | 440927103173501 | 440927 | 1031735 | 07/06/1988 | W | 885 | 3,440 | 2,690 |
| 2N 7E 5CA2 | 440938103181501 | 440938 | 1031815 | 08/23/1997 | W | 760 | 3,480 | 2,890 |
| 2N 7E 4CDCD | 440919103170501 | 440920 | 1031658 | 03/--/1959 | W | 930 | 3,405 | 2,650 |
| 2N 7E 2DBDD | 440939103142001 | 440939 | 1031420 | 04/23/1980 | W | 2,103 | 3,375 | 1,383 |
| 2N 7E 2DBDDC | 440931103141401 | 440931 | 1031414 | 04/23/1980 | W | 3,060 | 3,383 | 1,383 |
| 2N 6E 1AABB | 441007103201101 | 441007 | 1032011 | 03/--/1977 | W | 340 | 3,725 | 3,575 |
| | | | **Pennington County** | | | | | |
| 2N 9E29BBCC | 440629103040901 | 440629 | 1030409 | 03/18/1983 | W | 4,450 | 3,043 | -437 |
| 2N 7E34CC | 440502103160902 | 440502 | 1031609 | 08/01/1995 | W | 600 | 3,350 | 2,780 |
| 2N 7E34BDCC2 | 440524103154001 | 440524 | 1031558 | 06/--/1960 | W | 1,275 | 3,325 | 3,010 |
| 2N 7E34BDAD | 440528103155201 | 440528 | 1031552 | 06/--/1960 | W | 585 | 3,350 | 2,795 |
| 2N 7E34BCCA | 440528103161001 | 440530.9 | 1031614.2 | 05/24/1964 | W | 400 | 3,328.9 | 3,105 |
| 2N 7E34BAAC | 440544103154901 | 440544 | 1031549 | 09/20/1983 | W | 480 | 3,380 | 2,955 |
| 2N 7E33BCAA | 440534103171401 | 440534 | 1031714 | 05/05/1978 | W | 225 | 3,460 | 3,285 |
| 2N 7E 7BACA | 440516103175501 | 440516 | 1031755 | 04/05/1982 | W | 360 | 3,480 | 3,180 |
| 2N 7E32CDDD | 440459103181001 | 440459 | 1031810 | --/--/1960 | W | 180 | 3,480 | 3,305 |
| 2N 7E32CCDC | 440458103180101 | 440458 | 1031830 | 06/08/1992 | W | 661 | 3,640 | 3,494 |
| 2N 7E32CADA | 440532103182001 | 440516 | 1031808 | 09/--/1959 | W | 310 | 3,510 | 3,300 |
| 2N 7E32BCCC | 440521103184401 | 440521 | 1031844 | --/--/1951 | W | 185 | 3,602 | 3,537 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Pennington County—Continued** | | | | | |
| 2N 7E32ADDD | 440526103173001 | 440526 | 1031730 | 02/26/1990 | W | 1,299 | 3,440 | 3,170 |
| 2N 7E32ADA | 440541103173201 | 440541 | 1031732 | 06/08/1989 | W | 375 | 3,600 | 3,430 |
| 2N 7E32AAAC | 440545103173501 | 440545 | 1031735 | 08/05/1994 | W | 300 | 3,610 | 3,420 |
| 2N 7E32AAA2 | 440546103173501 | 440546 | 1031735 | 08/19/1992 | W | 340 | 3,600 | 3,420 |
| 2N 7E32AAA | 440544103173601 | 440544 | 1031736 | 06/--/1977 | W | 340 | 3,640 | 3,475 |
| 2N 7E32AA | 440543103173901 | 440543 | 1031739 | 07/27/1986 | W | 240 | 3,643 | 3,453 |
| 2N 7E31CDCB | 440516103194001 | 440501 | 1031933 | 07/10/1972 | W | 565 | 3,860 | 3,818 |
| 2N 7E29DDBD2 | 440556103174801 | 440556 | 1031748 | 09/22/1991 | W | 320 | 3,620 | 3,460 |
| 2N 7E29DDB | 440557103174401 | 440557 | 1031744 | 04/23/1984 | W | 308 | 3,600 | 3,473 |
| 2N 7E29DBD | 440605103182801 | 440605 | 1031828 | 08/21/1989 | W | 330 | 3,685 | 3,530 |
| 2N 7E29DACB | 440606103174701 | 440606 | 1031747 | 11/17/1992 | W | 349 | 3,600 | 3,440 |
| 2N 7E29DAC5 | 440552103173401 | 440603 | 1031750 | 10/16/1985 | W | 220 | 3,570 | 3,427 |
| 2N 7E29DAC | 440605103174701 | 440605 | 1031740 | 11/17/1992 | W | 349 | 3,600 | 3,440 |
| 2N 7E28DACD | 440552103162301 | 440601 | 1031629 | --/--/1959 | W | 300 | 3,360 | 3,175 |
| 2N 7E27DABB | 440612103152001 | 440612 | 1031522 | 08/12/1991 | W | 1,787 | 3,363.1 | 2,625 |
| 2N 7E27CAAB | 440607103155901 | 440613 | 1031549 | 07/29/1983 | W | 615 | 3,360 | 2,792 |
| 2N 7E27BBCB | 440635103161801 | 440631 | 1031617 | --/--/1961 | W | 505 | 3,450 | 3,045 |
| 2N 7E27BBB | 440635103161401 | 440635 | 1031614 | --/--/1961 | W | 615 | 3,451 | 3,041 |
| 2N 7E27AABA | 440636103152001 | 440636 | 1031520 | 04/--/1959 | W | 992 | 3,435 | 2,655 |
| 2N 7E23DACA | 440659103140501 | 440659 | 1031405 | 02/08/1991 | W | 2,680 | 3,500 | 1,860 |
| 2N 7E20CCCC | 440644103183701 | 440644 | 1031837 | 07/21/1961 | W | 350 | 3,660 | 3,475 |
| 2N 7E20CAAC | 440702103181401 | 440702 | 1031814 | 11/12/1988 | W | 380 | 3,580 | 3,360 |
| 2N 7E17DDAA | 440736103173701 | 440736 | 1031737 | -- | W | 400 | 3,450 | 3,194 |
| 2N 7E17D | 440747103174901 | 440747 | 1031749 | 04/20/1994 | W | 440 | 3,460 | 3,158 |
| 2N 7E17BAAD | 440818103180801 | 440819.8 | 1031809.9 | 07/03/1984 | W | 560 | 3,501.8 | 3,045 |
| 2N 7E16AAB | 440823103162701 | 440823 | 1031627 | 08/30/1989 | W | 1,530 | 3,400 | 2,695 |
| 1N 9E22BA | 440212103012101 | 440212 | 1030121 | 07/15/1952 | W | 4,185 | 3,052 | -578 |
| 1N 8E 9CAB2 | 440334103095601 | 440334 | 1030956 | 09/--/1990 | W | 3,805 | 3,108 | 468 |
| 1N 7E34BAC | 440028103160801 | 440028 | 1031608 | 10/03/1985 | W | 660 | 3,815 | 3,405 |
| 1N 7E33BAC | 440025103170801 | 440025 | 1031708 | 06/29/1994 | W | 440 | 3,780 | 3,480 |
| 1N 7E33AABC | 440022103163401 | 440022 | 1031634 | 10/20/1983 | W | 623 | 3,850 | 3,490 |
| 1N 7E29DBA | 440059103175301 | 440059 | 1031753 | 05/24/1990 | W | 1,430 | 3,840 | 3,767 |
| 1N 7E28CCC | 440038103172601 | 440038 | 1031726 | 08/15/1989 | W | 600 | 3,840 | 3,520 |
| 1N 7E27DDAB | 440041103151401 | 440041 | 1031514 | 05/--/1962 | W | 1,320 | 3,820 | 2,580 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Pennington County—Continued** | | | | | |
| 1N 7E27DADB | 440059103154101 | 440051 | 1031512 | 11/20/1970 | W | 1,430 | 3,815 | 2,548 |
| 1N 7E26CCAA | 440048103145001 | 440048 | 1031450 | 05/02/1984 | W | 1,460 | 3,820 | 2,475 |
| 1N 7E26BCDA | 440103103144801 | 440103 | 1031448 | 04/06/1984 | W | 1,545 | 3,720 | 2,300 |
| 1N 7E23CAB | 440149103144301 | 440149 | 1031443 | 06/24/1992 | W | 1,563 | 3,810 | 2,288 |
| 1N 7E23BDAB | 440203103143601 | 440203 | 1031436 | --/--/1973 | W | 1,878 | 3,840 | 2,210 |
| 1N 7E22DCC | 440130103153901 | 440130 | 1031539 | 08/31/1993 | W | 875 | 3,780 | 2,905 |
| 1N 7E22CCC | 440129103161301 | 440129 | 1031613 | 01/17/1983 | W | 315 | 3,650 | 3,355 |
| 1N 7E22BDCC | 440158103160401 | 440155 | 1031600 | 11/18/1972 | W | 445 | 3,565 | 3,170 |
| 1N 7E22ABCB | 440120103153401 | 440211 | 1031534 | --/--/1960 | W | 780 | 3,480 | 2,798 |
| 1N 7E21DBA | 440148103164101 | 440148 | 1031641 | 10/11/1985 | W | 602 | 3,620 | 3,464 |
| 1N 7E21BDA | 440202103165801 | 440202 | 1031658 | 05/23/1985 | W | 565 | 3,760 | 3,605 |
| 1N 7E21BCAB | 440205103172001 | 440205 | 1031720 | 07/07/1982 | W | -- | 3,900 | 3,680 |
| 1N 7E21BADA | 440211103165201 | 440211 | 1031703 | 04/27/1979 | W | 422 | 3,650 | 3,510 |
| 1N 7E21ACC | 440155103165001 | 440155 | 1031650 | 05/27/1986 | W | 268 | 3,660 | 3,475 |
| 1N 7E16DCDC | 440220103164001 | 440220 | 1031640 | 12/01/1991 | W | 1,281 | 3,486.7 | 3,339 |
| 1N 7E16CCCA | 440224103172601 | 440224 | 1031726 | 07/10/1977 | W | 612 | 3,800 | 3,652 |
| 1N 7E16CACD | 440233103170501 | 440233 | 1031705 | 06/07/1978 | W | 258 | 3,580 | 3,455 |
| 1N 7E16BDBB | 440247103165401 | 440247 | 1031710 | 05/07/1979 | W | 235 | 3,500 | 3,350 |
| 1N 7E16BCC | 440249103172701 | 440249 | 1031727 | 07/02/1992 | W | 317 | 3,580 | 3,455 |
| 1N 7E16BCB | 440255103172601 | 440255 | 1031726 | 12/06/1991 | W | 200 | 3,560 | 3,392 |
| 1N 7E16BADA2 | 440305103164501 | 440305 | 1031659 | 05/15/1979 | W | 250 | 3,440 | 3,250 |
| 1N 7E16BAD | 440301103165701 | 440301 | 1031657 | 07/03/1985 | W | 300 | 3,440 | 3,240 |
| 1N 7E16BACC | 440257103171101 | 440257 | 1031711 | 02/07/1973 | W | 320 | 3,520 | 3,365 |
| 1N 7E16BAC | 440300103170901 | 440300 | 1031709 | 06/20/1984 | W | 220 | 3,500 | 3,340 |
| 1N 7E16BAAB | 440309103170101 | 440309 | 1031701 | 03/24/1979 | W | 200 | 3,430 | 3,260 |
| 1N 7E15CCBC | 440223103161701 | 440229 | 1031616 | --/--/1970 | W | 500 | 3,440 | 3,122 |
| 1N 7E15CBBD2 | 440244103154102 | 440240 | 1031612 | -- | W | 460 | 3,475 | 3,175 |
| 1N 7E15BBC | 440302103161401 | 440302 | 1031614 | 03/30/1992 | W | 430 | 3,400 | 3,000 |
| 1N 7E15BAD | 440244103154301 | 440302 | 1031549 | --/--/1955 | W | 921 | 3,470 | 2,804 |
| 1N 7E14CBCA | 440236103145801 | 440236 | 1031458 | 08/23/1973 | W | 1,660 | 3,880 | 2,335 |
| 1N 7E14BABD | 440308103144301 | 440305 | 1031442 | 03/14/1983 | W | 1,817 | 3,833 | 2,265 |
| 1N 7E11DBAD | 440331103142701 | 440237 | 1031414 | 11/11/1980 | W | 1,755 | 3,560 | 2,245 |
| 1N 7E10CADD | 440331103155101 | 440331 | 1031551 | 10/28/1958 | W | 700 | 3,410 | 2,775 |
| 1N 7E 6BACB | 440446103193201 | 440446 | 1031932 | 07/06/1978 | W | 850 | 4,020 | 3,875 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Pennington County—Continued** | | | | | |
| 1N 7E 5BBDB | 440447103183101 | 440447 | 1031831 | 05/16/1984 | W | 500 | 3,770 | 3,600 |
| 1N 7E 5BBBC | 440453103184001 | 440453 | 1031840 | 04/29/1978 | W | 805 | 3,780 | 3,625 |
| 1N 7E 5BACA | 440445103181601 | 440445 | 1031816 | 04/05/1982 | W | 360 | 3,700 | 3,400 |
| 1N 7E 5BAAA | 440450103175701 | 440450 | 1031810 | --/--/1958 | W | 190 | 3,560 | 3,380 |
| 1N 7E 4ADAC | 440440103162201 | 440440 | 1031622 | --/--/1960 | W | 643 | 3,320 | 2,920 |
| 1N 7E 3CBAA | 440430103160201 | 440427.2 | 1031605.1 | 05/24/1964 | W | 570 | 3,300 | 2,900 |
| 1N 7E 3BCBC | 440436103161201 | 440436 | 1031612 | 02/05/1940 | W | 635 | 3,343 | 2,894 |
| 1N 7E 3AAB | 444153103151901 | 440453 | 1031519 | 07/--/1941 | W | 1,385 | 3,260 | 2,445 |
| 1S 7E 3CDBD2 | 435916103161802 | 435915.1 | 1031620.6 | 08/05/1994 | W | 660 | 3,520.4 | 2,928 |
| 1S 7E11ACAB | 435851103143501 | 435848 | 1031445 | 06/10/1984 | W | 1,740 | 3,466.2 | 2,641 |
| 1S 7E13CBCA | 435720103141601 | 435739 | 1031416 | 10/30/1972 | W | 1,555 | 3,780 | 2,415 |
| 1S 7E14CCBB | 435733103152801 | 435733 | 1031528 | -- | W | 560 | 3,680 | 3,160 |
| 1S 7E15ABC | 435803103160301 | 435803 | 1031603 | 09/10/1987 | W | 245 | 3,680 | 3,463 |
| 1S 7E15BD | 435753103161601 | 435753 | 1031616 | 10/26/1988 | W | 345 | 3,700 | 3,510 |
| 1S 7E15CABA | 445809103162201 | 435744 | 1031622 | 06/11/1990 | W | 430 | 3,765 | 3,607 |
| 1S 7E15CBBB | 435746103160601 | 435743 | 1031642 | 10/26/1977 | W | 820 | 3,985 | 3,812 |
| 1S 7E27BACA | 435619103161901 | 435619 | 1031619 | 05/30/1978 | W | 1,280 | 4,140 | 3,580 |
| 1S 8E19BBBB | 435718103130301 | 435718 | 1031303 | 03/08/1984 | W | 2,600 | 3,555 | 1,770 |
| 2S 7E 4ACDB | 435352103170801 | 435422 | 1031711 | 08/27/1951 | W | 358 | 3,800 | 3,798 |
| 2S 7E 9CBDA | 435325103171701 | 435317 | 1031739 | --/--/1960 | W | -- | 3,960 | 3,785 |
| 2S 7E10BAD | 435340103161001 | 435340 | 1031610 | 04/22/1992 | W | 675 | 3,660 | 3,031 |
| | | | **Custer County** | | | | | |
| 2S 7E21CCC | 435119103175001 | 435119 | 1031750 | 04/28/1993 | W | 500 | 3,865 | 3,730 |
| 2S 7E21DDC | 435115103170501 | 435115 | 1031705 | 04/09/1981 | W | 350 | 3,750 | 3,570 |
| 2S 7E28ADCB | 435053103170001 | 435053 | 1031700 | 11/21/1983 | W | 300 | 3,760 | 3,580 |
| 2S 7E28ADD | 435050103165301 | 435050 | 1031653 | 08/24/1984 | W | 320 | 3,740 | 3,560 |
| 2S 7E28DDCB | 435028103240601 | 435028 | 1031702 | 06/30/1979 | W | 309 | 3,760 | 3,500 |
| 2S 7E34ABBA | 435018103155801 | 435020.3 | 1031600.3 | 07/27/1983 | W | 510 | 3,477.5 | 3,022 |
| 2S 7E34BCB | 435006103163801 | 435006 | 1031638 | 03/31/1989 | W | 240 | 3,560 | 3,375 |
| 2S 7E34BDBC | 435008103162501 | 435008 | 1031625 | 04/01/1978 | W | 225 | 3,500 | 3,300 |
| 3S 7E 5DDCA | 434847103175801 | 434842 | 1031805 | 03/01/1990 | W | 287 | 3,690 | 3,440 |
| 3S 7E10BADB | 434832103161701 | 434829 | 1031611 | 01/01/1976 | W | 605 | 3,505 | 2,924 |
| 3S 7E16ACBD | 434726103171501 | 434726 | 1031715 | 02/01/1989 | W | 560 | 3,590 | 3,110 |
| 3S 7E30DDAC | 434500103192201 | 434519 | 1031922 | 11/18/1980 | W | 280 | 3,800 | 3,640 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Custer County—Continued** | | | | | |
| 3S 7E33AACB | 434502103165801 | 434502 | 1031658 | --/--/1964 | W | 1,070 | 3,655 | 2,645 |
| 4S 6E 1DAAA | 434350103201901 | 434350.8 | 1032020.2 | 08/05/1993 | W | 680 | 3,860 | 3,740 |
| 4S 7E25CCA | 434006103140601 | 434006 | 1031406 | 10/17/1949 | W | 3,136 | 3,396 | 1,096 |
| 4S 7E25DDDB | 434001103131301 | 434001 | 1031313 | 07/04/1949 | W | 2,824 | 3,392 | 964 |
| 4S 8E12AA | 434316103061101 | 434316 | 1030611 | 10/25/1980 | W | 3,773 | 3,158 | -423 |
| 5S 1E26CC | 433452103582401 | 433452 | 1035824 | 07/24/1961 | W | 950 | 4,060 | 3,615 |
| 5S 1E26DC | 433452103574801 | 433452 | 1035748 | 12/07/1960 | W | 901 | 4,019 | 3,714 |
| 5S 2E28BCCB | 433517103534201 | 433517.4 | 1035342.3 | 07/18/1995 | W | 1,075 | 4,257.7 | 4,102 |
| 5S 2E30CA | 433505103554201 | 433505 | 1035542 | 11/26/1946 | W | 854 | 4,332 | 4,162 |
| 6S 1E 1BC | 433338103571301 | 433336 | 1035713 | --/--/1933 | W | 1,047 | 4,040 | 3,899 |
| 6S 1E 7DA | 433241104021701 | 433241 | 1040217 | 01/06/1977 | W | 2,328 | 3,741 | 2,097 |
| 6S 2E 7CAD | 433226103553701 | 433226 | 1035537 | 11/13/1958 | W | 1,201 | 4,040 | 3,492 |
| 6S 2E 8AA | 433254103535201 | 433254 | 1035352 | 08/15/1957 | W | 1,225 | 4,088 | 3,468 |
| 6S 2E 9BC | 433241103533401 | 433241 | 1035334 | 12/19/1956 | W | 1,656 | 4,071.5 | 3,311 |
| 6S 2E14CB | 433135103511701 | 433135 | 1035117 | 12/20/1993 | W | 1,326 | 4,383 | 3,503 |
| 6S 2E22DD | 433030103512701 | 433030 | 1035127 | 06/23/1984 | X | 1,470 | 4,190 | 3,341 |
| 6S 2E27CCD | 432936103521701 | 432936 | 1035217 | 10/06/1956 | W | 1,378 | 4,123 | 3,428 |
| 6S 2E27DB | 432952103514601 | 432952 | 1035146 | 10/31/1964 | W | 1,541 | 4,126 | 3,371 |
| 6S 2E33AD | 432914103524101 | 432914 | 1035241 | 11/04/1958 | W | 1,454 | 4,203 | 3,448 |
| 6S 2E34ABC | 432923103515001 | 432923 | 1035150 | 11/30/1963 | W | 1,385 | 4,133 | 3,431 |
| 6S 2E34BAA | 432929103515901 | 432929 | 1035159 | 08/13/1957 | W | 1,980 | 4,101 | 3,417 |
| 6S 2E34BDC | 432910103520701 | 432910 | 1035207 | 11/02/1963 | W | 1,931 | 4,223 | 3,418 |
| 6S 2E34CB | 432902103522101 | 432902 | 1035221 | 09/05/1958 | W | 1,454 | 4,207 | 3,412 |
| 6S 2E34DBA | 432904103514201 | 432904 | 1035142 | --/--/1956 | W | 1,650 | 4,205 | 3,400 |
| 6S 3E25ADDC | 433003103420701 | 433000 | 1034158 | 09/05/1976 | W | 280 | 4,435 | 4,416 |
| 6S 5E23DB | 433034103284701 | 433044 | 1032915 | 06/--/1978 | W | 820 | 4,230 | 4,210 |
| 6S 5E24BAAA | 433114103281601 | 433114 | 1032816 | 04/13/1977 | W | 780 | 4,110 | 3,970 |
| 6S 5E24BC | 433026103284501 | 433056 | 1032845 | 06/--/1978 | W | 680 | 4,100 | 4,080 |
| 6S 5E25ADD | 433513103203201 | 433003 | 1032742 | --/--/1951 | W | 580 | 3,935 | 3,645 |
| 6S 6E15ABDD | 433150103230501 | 433150 | 1032305 | --/--/1949 | W | 939 | 3,420 | 3,432 |
| 6S 6E20CA2 | 433142103232801 | 433142 | 1032328 | 03/--/1924 | W | 962 | 3,729 | 3,392 |
| 6S 6E21BBBB | 433115103251401 | 433115.4 | 1032516.1 | 10/17/1991 | W | 1,165 | 3,645.8 | 3,210 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County** | | | | | |
| 7S 1E 2DD | 432758103572901 | 432758 | 1035729 | 08/19/1964 | W | 2,450 | 3,792 | 2,172 |
| 7S 1E11DC | 432705103574601 | 432705 | 1035746 | 12/--/1976 | W | 2,250 | 3,679 | 2,129 |
| 7S 1E14BA | 432652103580501 | 432652 | 1035805 | 12/26/1975 | W | 2,269 | 3,639 | 2,069 |
| 7S 1E15DD | 432613103584001 | 432613 | 1035840 | 03/05/1965 | W | 2,264 | 3,576 | 1,926 |
| 7S 1E21AA | 432559103595301 | 432559 | 1035953 | 03/23/1979 | W | 2,500 | 3,533 | 1,750 |
| 7S 1E22BC | 432547103593501 | 432547 | 1035925 | 11/27/1970 | W | 2,545 | 3,534 | 1,714 |
| 7S 1E24CB | 432533103570901 | 432533 | 1035709 | 10/06/1964 | W | 2,480 | 3,566 | 2,096 |
| 7S 1E33AD | 432401103595301 | 432401 | 1035953 | 10/21/1968 | W | 2,875 | 3,677 | 1,657 |
| 7S 1E35DD | 432336103572701 | 432336 | 1035727 | 07/02/1989 | W | 2,558 | 3,555 | 1,843 |
| 7S 2E 2ABB | 432834103504001 | 432834 | 1035040 | 06/03/1981 | W | 1,680 | 4,121 | 3,308 |
| 7S 2E 2BA | 432834103504701 | 432834 | 1035047 | 08/17/1970 | W | 1,470 | 4,099 | 3,329 |
| 7S 2E12CC | 432702103495901 | 432702 | 1034959 | 11/01/1966 | W | 1,526 | 3,983 | 3,075 |
| 7S 2E21ACDC | 432546103525801 | 432540 | 1035256 | 09/20/1964 | W | 2,225 | 3,810 | 2,570 |
| 7S 2E26ACBA | 432453103503601 | 432458 | 1035036 | 12/14/1968 | W | 2,300 | 4,160 | 2,800 |
| 7S 2E31AC | 432402103552101 | 432402 | 1035521 | 10/03/1968 | W | 2,340 | 3,521 | 1,986 |
| 7S 3E 9DD | 432703103453401 | 432703 | 1034534 | 05/15/1984 | W | 1,285 | 3,919 | 3,377 |
| 7S 3E10CD | 432703103445901 | 432703 | 1034459 | 05/30/1969 | W | 1,248 | 4,007 | 3,493 |
| 7S 4E10CBB | 432725103381101 | 432725 | 1033814 | 10/03/1980 | W | 200 | 4,150 | 4,065 |
| 7S 4E10DADC | 432717103372501 | 432706 | 1033715 | 11/12/1980 | W | 120 | 4,100 | 4,000 |
| 7S 4E19BCCB | 432548103414801 | 432545.8 | 1034151.2 | 08/29/1992 | W | 1,540 | 4,175.15 | 3,617 |
| 7S 4E19BCCB2 | 432548103414802 | 432545.8 | 1034151.2 | 12/14/1994 | W | 710 | 4,175.1 | 3,640 |
| 7S 4E30DC | 432425103410501 | 432425 | 1034105 | 08/26/1965 | W | 1,680 | 4,262 | 3,443 |
| 7S 5E14CCCC | 432603103295901 | 432602.7 | 1032958.7 | 02/28/1996 | W | 915 | 3,715.1 | 3,557 |
| 7S 5E14CCCC2 | 432603103295902 | 432602.7 | 1032958.7 | 03/19/1996 | W | 320 | 3,715.7 | 3,557 |
| 7S 5E14D | 432614103290901 | 432614 | 1032909 | -- | W | 325 | 3,500 | 3,291 |
| 7S 5E16BDC2 | 432636103320101 | 432636 | 1033201 | 12/19/1989 | W | 360 | 3,900 | 3,784 |
| 7S 5E20DDD | 432521103324301 | 432511 | 1033227 | 07/17/1980 | W | 450 | 3,970 | 3,880 |
| 7S 5E22AACB | 432553103301501 | 432553 | 1033015 | 07/21/1983 | W | 400 | 3,900 | 3,760 |
| 7S 5E22ABC | 432558103300601 | 432550 | 1033033 | 04/03/1989 | W | 480 | 3,870 | 3,740 |
| 7S 5E27CCA | 432437103305701 | 432437 | 1033057 | 05/01/1990 | W | 350 | 3,750 | 3,545 |
| 7S 5E29AC | 432448103325101 | 432448 | 1033251 | --/--/1959 | W | 400 | 3,960 | 3,700 |
| 7S 5E33DDDB | 432331103312001 | 432331 | 1033120 | 11/10/1989 | W | 460 | 3,830 | 3,555 |
| 7S 5E34BDC | 432352103303601 | 432352 | 1033036 | 08/--/1978 | W | 523 | 3,750 | 3,465 |
| 8S 1E12AD | 432217103561601 | 432217 | 1035616 | 10/07/1968 | W | 2,760 | 3,680 | 1,714 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 8S 1E31DA | 431835104021101 | 431835 | 1040211 | 01/28/1988 | X | 5,643 | 3,835 | 1,029 |
| 8S 2E 2AB | 432322103503501 | 432322 | 1035035 | 12/20/1985 | W | 2,374 | 3,813 | 2,243 |
| 8S 2E 8BD | 432215103542701 | 432215 | 1035427 | 07/25/1994 | W | 2,400 | 3,470 | 1,804 |
| 8S 2E 8CCCC | 432145103545101 | 432145 | 1035451 | 06/18/1994 | W | 2,450 | 3,501 | 1,709 |
| 8S 2E14AD | 432123103501701 | 432124 | 1035017 | 12/24/1971 | W | 2,415 | 3,623 | 1,907 |
| 8S 2E14CD | 432058103505101 | 432058 | 1035051 | 12/06/1970 | W | 2,433 | 3,624 | 1,900 |
| 8S 2E15AA | 432137103512901 | 432137 | 1035129 | 12/30/1964 | W | 2,472 | 3,581 | 1,958 |
| 8S 2E17AB | 432141103540901 | 432141 | 1035409 | 07/07/1994 | W | 2,500 | 3,502 | 1,726 |
| 8S 2E17BA | 432141103543001 | 432141 | 1035430 | 04/21/1994 | W | 2,480 | 3,494 | 1,711 |
| 8S 2E20CC | 432005103544501 | 432005 | 1035445 | 05/16/1981 | W | 2,900 | 3,592 | 1,550 |
| 8S 2E22BC | 431845103533701 | 431845 | 1035337 | --/--/1988 | X | 2,881 | 3,610 | 1,537 |
| 8S 2E23BD | 432032103505301 | 432032 | 1035053 | 05/15/1946 | W | 2,537 | 3,570 | 1,870 |
| 8S 2E24BB | 432045103495901 | 432045 | 1034959 | 02/05/1958 | W | 2,545 | 3,600 | 1,819 |
| 8S 2E35BD | 431835103502301 | 431848 | 1035055 | 06/28/1980 | W | 2,631 | 3,469 | 1,732 |
| 8S 3E 8CCCA | 432147103544801 | 432147 | 1035448 | 11/18/1993 | W | 2,450 | 3,499 | 1,714 |
| 8S 3E 8DB | 432205103470301 | 432205 | 1034703 | 11/22/1945 | W | 2,204 | 3,600 | 2,222 |
| 8S 3E14AC | 432123103432901 | 432123 | 1034329 | 07/20/1968 | W | 2,425 | 4,029 | 2,625 |
| 8S 3E17AB | 432137103470301 | 432137 | 1034703 | 08/28/1968 | W | 2,305 | 3,650 | 2,055 |
| 8S 3E17CA | 432111103472201 | 432111 | 1034722 | 08/02/1968 | W | 2,270 | 3,589 | 2,009 |
| 8S 3E24DAAC | 432020103415801 | 432020 | 1034158 | 08/24/1965 | W | 1,970 | 4,033 | 2,876 |
| 8S 3E30AC | 431940103481301 | 431940 | 1034813 | 06/17/1965 | W | 2,504 | 3,455 | 1,809 |
| 8S 3E36BDD | 431844103423101 | 431844 | 1034231 | 10/14/1942 | W | 2,338 | 4,038 | 2,788 |
| 8S 4E 6DD | 432238103404501 | 432238 | 1034045 | 08/24/1969 | X | 2,048 | 4,673 | 3,149 |
| 8S 4E18DA | 432113103405001 | 432113 | 1034050 | 06/12/1981 | W | 2,296 | 4,426 | 2,978 |
| 8S 4E23AC | 432030103362301 | 432030 | 1033623 | 05/29/1969 | W | 2,375 | 3,990 | 2,452 |
| 8S 5E 8ABBB | 432257103324901 | 432232 | 1033259 | 03/18/1990 | W | 540 | 3,995 | 3,865 |
| 8S 5E16BBAD | 432136103321001 | 432136 | 1033210 | 11/20/1987 | W | 1,140 | 3,830 | 3,670 |
| 8S 5E17ACBB | 432127103325601 | 432127 | 1033256 | 02/20/1992 | W | 680 | 3,900 | 3,750 |
| 8S 5E20ACC | 432025103325401 | 432025 | 1033254 | 01/02/1992 | W | 320 | 3,690 | 3,540 |
| 8S 7E27DCC | 431909103161801 | 431909 | 1031618 | 01/24/1946 | W | 4,548 | 3,354 | -316 |
| 9S 1E 1CABD | 431736103565301 | 431745 | 1035703 | 09/23/1971 | W | 3,300 | 3,790 | 1,232 |
| 9S 1E 6BA | 431810104025001 | 431810 | 1040250 | --/--/1983 | W | 3,670 | 3,860 | 985 |
| 9S 1E12ADDC | 431704103561801 | 431701 | 1035615 | 12/29/1963 | W | 3,250 | 3,831 | 1,355 |
| 9S 1E23CCAD | 431453103582201 | 431455 | 1035826 | 12/27/1968 | W | 2,743 | 3,730 | 1,010 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 9S 1E24BA | 431532103565401 | 431532 | 1035654 | 12/15/1986 | W | 3,335 | 3,828 | 1,223 |
| 9S 1E29AA | 431441104010301 | 431441 | 1040103 | 12/05/1997 | W | 3,488 | 3,750 | 921 |
| 9S 1E29BDB | 431433104014001 | 431433 | 1040140 | 07/07/1988 | W | 3,665 | 3,770 | 884 |
| 9S 1E30DBC | 431413104023401 | 431413 | 1040234 | 01/21/1998 | W | 3,666 | 3,836 | 839 |
| 9S 2E 1BCDC | 431750103500301 | 431750 | 1035003 | 10/23/1936 | W | 3,183 | 3,571 | 1,581 |
| 9S 2E 2AC | 431756103504201 | 431756 | 1035042 | 08/15/1996 | W | 2,730 | 3,598 | 1,608 |
| 9S 2E 2CA | 431743103505901 | 431743 | 1035059 | 03/21/1990 | W | 2,716 | 3,652 | 1,560 |
| 9S 2E 5CCBD | 431729103544901 | 431729 | 1035449 | 11/13/1976 | W | 3,065 | 3,822 | 1,462 |
| 9S 2E 6CA | 431740103554301 | 431740 | 1035543 | 12/14/1971 | W | 3,145 | 3,795 | 1,425 |
| 9S 2E 7ABBB | 431718103554201 | 431723 | 1035536 | 12/18/1970 | W | 3,250 | 3,877 | 1,417 |
| 9S 2E11AC | 431703103504201 | 431703 | 1035042 | 08/09/1996 | W | 2,700 | 3,536 | 1,508 |
| 9S 2E12BBAC | 431716103500301 | 431716 | 1035003 | 05/--/1981 | W | 2,898 | 3,507 | 1,582 |
| 9S 2E14BA | 431625103510001 | 431625 | 1035100 | 12/13/1985 | W | 2,671 | 3,518 | 1,466 |
| 9S 2E14CD | 431545103510001 | 431545 | 1035100 | 04/15/1984 | W | 2,980 | 3,580 | 1,403 |
| 9S 2E15ACC | 431606103515801 | 431606 | 1035158 | 07/15/1980 | W | 2,735 | 3,549 | 1,478 |
| 9S 2E15BA | 431622103520601 | 431622 | 1035206 | 08/09/1980 | W | 2,900 | 3,636 | 1,516 |
| 9S 2E15CCDB | 431543103522801 | 431543 | 1035228 | 09/09/1964 | W | 3,067 | 3,575 | 1,421 |
| 9S 2E16AD | 432122103524201 | 431610 | 1035242 | 05/30/1981 | W | 3,347 | 3,642 | 1,472 |
| 9S 2E16DCCA | 431545103530701 | 431545 | 1035307 | 01/22/1969 | W | 3,095 | 3,742 | 1,465 |
| 9S 2E20DA | 431509103535801 | 431509 | 1035410 | 05/24/1953 | W | 2,865 | 3,615 | 1,465 |
| 9S 2E21AC | 431515103530501 | 431515 | 1035305 | 06/08/1988 | W | 2,850 | 3,570 | 1,413 |
| 9S 2E21BD | 431520103532301 | 431520 | 1035323 | 08/21/1987 | W | 2,847 | 3,594 | 1,438 |
| 9S 2E21CB | 431505103534501 | 431505 | 1035345 | 05/30/1986 | W | 2,844 | 3,571 | 1,430 |
| 9S 2E25DC | 431400103492601 | 431400 | 1034926 | 02/14/1985 | X | 3,380 | 3,807 | 1,221 |
| 9S 2E29AD | 431421103535201 | 431421 | 1035352 | 04/21/1982 | W | 3,050 | 3,703 | 1,397 |
| 9S 2E30BA | 431442103555001 | 431442 | 1035550 | 12/07/1986 | W | 3,330 | 3,725 | 1,167 |
| 9S 2E32DB | 431316103542301 | 431316 | 1035423 | 02/14/1997 | W | 3,200 | 3,727 | 1,300 |
| 9S 2E35CD | 431305103505801 | 431305 | 1035058 | 07/18/1983 | W | 3,380 | 3,717 | 1,187 |
| 9S 3E25DD | 431400103421001 | 431400 | 1034210 | 08/28/1964 | W | 2,485 | 3,440 | 1,990 |
| 9S 4E 7BBAC | 431715103415301 | 431718 | 1034155 | 05/16/1969 | W | 2,000 | 3,966 | 2,486 |
| 9S 5E34ACC | 431331103304601 | 431331 | 1033046 | 11/13/1951 | W | 2,528 | 3,625 | 1,787 |
| 9S 6E18CD | 431543103272501 | 431543 | 1032725 | 10/27/1964 | W | 2,692 | 3,348 | 1,371 |
| 9S 7E16DA | 431556103172501 | 431556 | 1031725 | 05/16/1971 | W | 4,335 | 3,350 | -56 |
| 9S 7E25AD | 431420103115001 | 431420 | 1031430 | 10/03/1958 | W | 4,617 | 3,390 | -326 |

**Table 3.** Selected data for wells and test holes used in the structure-contour map of the Minnelusa Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Minnelusa Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Fall River County—Continued** | | | | | |
| 10S 1E 3AB | 431255103590001 | 431255 | 1035900 | 01/05/1998 | W | 3,449 | 3,731 | 927 |
| 10S 1E19AC | 431008104023301 | 431008 | 1040233 | 05/29/1985 | W | 3,750 | 3,865 | 831 |
| 10S 1E19AD | 431005104021101 | 431005 | 1040211 | 01/18/1985 | W | 3,750 | 3,871 | 861 |
| 10S 1E19DA | 430952104021201 | 430952 | 1040212 | 06/06/1984 | W | 3,780 | 3,896 | 855 |
| 10S 1E20CBB | 430957104020101 | 430957 | 1040201 | 12/23/1984 | W | 3,750 | 3,870 | 853 |
| 10S 1E32CDB | 430759104014301 | 430759 | 1040143 | 02/21/1989 | W | 3,911 | 3,968 | 806 |
| 10S 1E32DB | 430806104012401 | 430806 | 1040124 | 09/20/1985 | W | 4,005 | 4,019 | 826 |
| 10S 1E34DB | 430808103590001 | 430808 | 1035900 | 09/16/1991 | W | 3,500 | 3,954 | 1,148 |
| 10S 1E35BDC | 430815103580001 | 430815 | 1035800 | 12/20/1995 | W | 3,473 | 3,914 | 1,120 |
| 10S 2E 3ACDA | 431240103453001 | 431240 | 1035150 | 11/26/1943 | W | 3,855 | 3,655 | 1,155 |
| 10S 2E 3DAA | 431232103513501 | 431232 | 1035135 | -- | W | -- | 3,655 | 1,105 |
| 10S 2E 4BD | 431242103531501 | 431242 | 1035315 | 06/19/1981 | W | 3,670 | 3,810 | 1,254 |
| 10S 2E 5BA | 431257103543301 | 431257 | 1035433 | 07/03/1990 | W | 3,340 | 3,796 | 1,280 |
| 10S 2E10AA | 431203103514001 | 431203 | 1035140 | 12/15/1994 | W | 3,280 | 3,720 | 1,107 |
| 10S 2E18ACD | 431055103552601 | 431055 | 1035526 | 09/01/1989 | W | 4,065 | 3,797 | 1,116 |
| 10S 2E18BDB | 431100103554401 | 431100 | 1035544 | 07/30/1992 | W | 3,403 | 3,792 | 1,118 |
| 10S 2E33DD | 430758103524401 | 430758 | 1035244 | 09/07/1986 | W | 3,870 | 3,967 | 805 |
| 10S 3E16BB | 431112103463501 | 431112 | 1034635 | 11/14/1982 | W | 3,432 | 3,596 | 919 |
| 10S 3E25CD | 430836103424801 | 430836 | 1034248 | 11/30/1982 | W | 3,604 | 3,506 | 658 |
| 10S 3E28AC | 430920103455201 | 430920 | 1034552 | 11/05/1973 | W | 3,596 | 3,800 | 811 |
| 10S 3E32DACD | 430801103472301 | 430804 | 1035647 | 09/03/1980 | X | 3,962 | 3,810 | 760 |
| 10S 4E 4CCA | 431218103393001 | 431218 | 1033930 | 12/05/1946 | W | 3,004 | 3,475 | 1,475 |
| 10S 4E 8AA | 431203103395201 | 431203 | 1033952 | 06/29/1965 | W | 2,768 | 3,502 | 1,562 |
| 10S 4E20D | 430945103400001 | 430945 | 1034000 | --/--/1937 | W | 3,250 | 3,600 | 1,800 |

[1]From Carter and Redden, 1999c.

**Table 4.** Selected data for wells and test holes used in the structure-contour map of the Madison Limestone

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Madison Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Butte County** | | | | | |
| 9N 6E36DA | 444147103193501 | 444147 | 1031935 | 10/09/1976 | W | 5,575 | 2,804 | -1,606 |
| 9N 3E27ADBD | 444253103440001 | 444253 | 1034359 | 07/--/1952 | W | 4,016 | 3,002 | 112 |
| 9N 2E34CDDCA | 444129103514801 | 444129 | 1035148 | 10/10/1981 | W | 3,320 | 3,185 | 355 |
| 8N 5E12DBC | 444002103272001 | 444002 | 1032720 | 12/13/1949 | W | 5,759 | 2,880 | -1,340 |
| 8N 3E13AA | 443940103412701 | 443940 | 1034127 | 09/16/1991 | W | 3,750 | 2,911 | 325 |
| 8N 2E28DDCB | 443716103522501 | 443716 | 1035225 | 03/11/1980 | W | 2,220 | 3,242 | 1,112 |
| 7N 2E 6CDBD | 443534103552601 | 443534 | 1035526 | 06/13/1980 | W | 2,180 | 3,365 | 1,635 |
| 7N 1E11BCAD | 443511103575801 | 443511 | 1035758 | 10/12/1977 | W | 1,440 | 3,360 | 1,980 |
| | | | **Lawrence County** | | | | | |
| 7N 4E30DCB | 443205103404001 | 443205 | 1034040 | 11/15/1950 | W | 3,143 | 3,680 | 1,653 |
| 7N 1E33CCDD | 443100104002001 | 443104.2 | 1040025.3 | 07/31/1987 | W | 1,100 | 3,667 | 2,665 |
| 6N 4E22CBCB | 442845103363001 | 442753 | 1033710 | 10/--/1924 | W | 1,020 | 3,600 | 2,662 |
| 6N 4E21AC | 442807103381101 | 442807 | 1033811 | 05/--/1924 | W | 957 | 3,590 | 2,663 |
| 6N 3E35DDBB | 442605103424501 | 442605 | 1034245 | 05/03/1986 | W | 900 | 4,200 | 3,540 |
| 6N 3E33BABC | 442637103451901 | 442637 | 1034550 | 04/30/1990 | W | 760 | 4,190 | 3,570 |
| 6N 3E29DDDB | 442651103460401 | 442648 | 1034616 | 06/28/1978 | W | 700 | 4,190 | 3,670 |
| 6N 3E26BDBD | 442715103432301 | 442715 | 1034323 | 03/10/1976 | W | 880 | 3,898 | 3,152 |
| 6N 3E20DDDC | 442736103461401 | 442736 | 1034614 | 12/20/1979 | W | 720 | 4,020 | 3,360 |
| 6N 3E20BAAC | 442823103465201 | 442823 | 1034652 | 04/02/1993 | W | 902 | 3,940 | 3,080 |
| 6N 3E18BDAD | 442856103475701 | 442901 | 1034757 | 06/--/1979 | W | 900 | 3,900 | 3,120 |
| 6N 3E18BDAD | 442856103475701 | 442901 | 1034757 | 06/--/1979 | W | 900 | 3,900 | 3,120 |
| 6N 3E18BDAD | 442856103475701 | 442901 | 1034757 | 06/--/1979 | W | 900 | 3,900 | 3,120 |
| 6N 3E18BDAD | 442856103475701 | 442901 | 1034757 | 06/--/1979 | W | 900 | 3,900 | 3,120 |
| 6N 3E15DDDA2 | 442833103434602 | 442834.0 | 1034346.2 | 09/08/1995 | W | 780 | 3,768.1 | 3,040 |
| 6N 2E25BBCA | 442727103493701 | 442727 | 1034937 | 01/18/1982 | W | 615 | 4,105 | 3,553 |
| 6N 2E22CBAB | 442757103512901 | 442802 | 1035157 | 09/27/1991 | W | 870 | 4,240 | 3,571 |
| 6N 2E22BCBA2 | 442813103520501 | 442813 | 1035205 | 06/23/1981 | W | 1,140 | 4,160 | 3,375 |
| 6N 2E22BCBA | 442756103513101 | 442812 | 1035206 | 06/23/1981 | W | 1,140 | 4,010 | 3,308 |
| 6N 2E20ABAB | 442825103535001 | 442825 | 1035350 | 03/15/1971 | W | 840 | 4,240 | 3,710 |
| 6N 2E19DABA | 442802103544601 | 442759.6 | 1035449.2 | 07/11/1997 | W | 1,100 | 4,590.3 | 4,005 |
| 6N 2E16BDC | 442853103530001 | 442853 | 1035300 | 09/--/1977 | W | 600 | 3,980 | 3,420 |
| 6N 2E16BBBC | 442907103530801 | 442915 | 1035320 | --/--/1979 | W | 620 | 3,940 | 3,360 |
| 6N 2E16BA | 442917103525601 | 442917 | 1035256 | 05/--/1986 | W | 760 | 3,905 | 3,285 |
| 6N 2E16AAB | 442918103523001 | 442918 | 1035230 | 07/20/1987 | W | 925 | 3,680 | 3,120 |

**Table 4.** Selected data for wells and test holes used in the structure-contour map of the Madison Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Madison Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Lawrence County—Continued** | | | | | |
| 6N 2E14CBCC | 442842103505501 | 442842 | 1035055 | 08/31/1993 | W | 842 | 3,760 | 3,165 |
| 6N 2E14CA | 442855103503501 | 442855 | 1035007 | 06/01/1987 | W | 1,180 | 3,810 | 2,995 |
| 6N 2E 9CAC2 | 442936103530001 | 442936 | 1035300 | 10/07/1987 | W | 855 | 3,762 | 3,107 |
| 6N 2E 9ADDB | 442950103521501 | 442950 | 1035220 | 09/02/1988 | W | 741 | 3,640 | 2,922 |
| 5N 4E23ADBA | 442259103353101 | 442259 | 1033531 | 09/--/1977 | W | 560 | 4,010 | 3,810 |
| 5N 4E22ADDA | 442301103365501 | 442301 | 1033655 | 10/15/1997 | W | 560 | 4,060 | 3,820 |
| 5N 4E15ABCA | 442358103370101 | 442358 | 1033701 | 09/--/1981 | W | 900 | 4,260 | 3,660 |
| 5N 4E 1ABBD2 | 442545103343702 | 442544.3 | 1033437.1 | 11/30/1990 | W | 822 | 3,629.7 | 2,840 |
| 5N 3E 1ADA2 | 442536103412601 | 442536 | 1034126 | 10/02/1992 | W | 1,160 | 4,310 | 3,690 |
| 5N 1E11DABA | 442435103571101 | 442434.6 | 1035710.8 | 10/17/1995 | W | 780 | 5,530.2 | 5,280 |
| | | | **Meade County** | | | | | |
| 6N 6E19BBDB | 442815103263801 | 442815 | 1032638 | -- | W | 904 | 3,180 | 2,358 |
| 6N 6E19BBBA | 442824103264101 | 442824 | 1032641 | 09/24/1993 | W | 900 | 3,200 | 2,380 |
| 5N 5E36DBCB | 442058103273001 | 442058 | 1032730 | 08/--/1976 | W | 1,368 | 3,720 | 2,780 |
| 5N 5E26ABDA | 442217103272201 | 442215 | 1032829 | --/--/1952 | W | 1,465 | 3,625 | 2,345 |
| 5N 5E16CAAD | 442335103311001 | 442336.7 | 1033111.2 | 06/16/1986 | W | 839 | 3,606.3 | 2,868 |
| 5N 5E 4CBCC | 442514103314101 | 442514 | 1033141 | 02/28/1984 | W | 1,497 | 3,461 | 2,401 |
| 4N 6E19AABA2 | 441759103261202 | 441759.7 | 1032612.2 | 11/19/1990 | W | 840 | 3,639.1 | 2,900 |
| 3N 7E19DBDA | 441214103191001 | 441214 | 1031910 | 07/04/1970 | W | 1,653 | 3,716 | 2,106 |
| 3N 7E19CDA | 441204103192301 | 441204 | 1031923 | 06/08/1950 | W | 2,155 | 3,670 | 2,075 |
| 3N 6E15ABB2 | 441337103225002 | 441335.5 | 1032250.5 | 08/29/1994 | W | 880 | 3,476.8 | 2,685 |
| 2N 9E18BAB | 440824103050601 | 440824 | 1030506 | 04/17/1942 | W | 4,645 | 3,195 | -1,050 |
| 2N 8E13BDC | 440801103061601 | 440801 | 1030616 | 07/12/1942 | W | 4,440 | 3,199 | -1,005 |
| 2N 7E 8BBC | 441636103183801 | 440907 | 1031838 | 05/22/1986 | W | 1,180 | 3,530 | 2,590 |
| 2N 7E 7BACA | 440908103193101 | 440906 | 1031944 | 01/04/1983 | W | 480 | 3,720 | 3,219 |
| 2N 6E10DD | 440828103222601 | 440828 | 1032226 | 07/19/1986 | W | 380 | 4,120 | 3,760 |
| 2N 6E 1CCC | 440925103210201 | 440920 | 1032102 | 11/15/1991 | W | 950 | 4,100 | 3,780 |
| | | | **Pennington County** | | | | | |
| 2N 9E29BBCC | 440629103040901 | 440629 | 1030409 | 03/18/1983 | W | 4,450 | 3,043 | -1,107 |
| 2N 7E34BDCC2 | 440524103154001 | 440524 | 1031558 | 06/--/1960 | W | 1,275 | 3,325 | 2,436 |
| 2N 7E32ADDD | 440526103173001 | 440526 | 1031730 | 02/26/1990 | W | 1,299 | 3,440 | 2,616 |
| 2N 7E31CCCA | 440500103193601 | 440458 | 1031950 | 08/21/1971 | W | 680 | 3,974.4 | 3,360 |
| 2N 7E31BCB | 440602103194201 | 440532 | 1031949 | 04/12/1985 | W | 525 | 3,770 | 3,497 |
| 2N 7E27DABB | 440612103152001 | 440612 | 1031522 | 08/12/1991 | W | 1,787 | 3,363.1 | 2,030 |

**Table 4.** Selected data for wells and test holes used in the structure-contour map of the Madison Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Madison Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Pennington County—Continued** | | | | | |
| 2N 7E27ACAB | 440622103152701 | 440625 | 1031530 | 12/04/1991 | W | 1,460 | 3,400 | 2,253 |
| 2N 7E23DACA | 440659103140501 | 440659 | 1031405 | 02/08/1991 | W | 2,680 | 3,500 | 1,226 |
| 2N 7E19CDAD | 440650103193201 | 440650 | 1031932 | 07/08/1981 | W | 745 | 3,990 | 3,598 |
| 2N 7E18BCA | 440808103193701 | 440808 | 1031937 | 07/15/1976 | W | 570 | 3,920 | 3,420 |
| 2N 7E16AAB | 440823103162701 | 440823 | 1031627 | 08/30/1989 | W | 1,530 | 3,400 | 2,250 |
| 2N 6E35A | 440534103212601 | 440534 | 1032126 | --/--/1955 | W | 370 | 3,980 | 3,730 |
| 2N 6E26BD | 440621103215301 | 440621 | 1032153 | 01/26/1995 | W | 900 | 4,180 | 4,030 |
| 2N 6E26BAAC | 440636103214701 | 440636 | 1032147 | 09/19/1980 | W | 340 | 3,950 | 3,898 |
| 2N 6E24CC | 440640103205801 | 440640 | 1032058 | -- | W | 820 | 4,310 | 4,131 |
| 2N 6E23DBAB | 440658103213001 | 440704 | 1032132 | 12/18/1985 | W | 420 | 3,860 | 3,599 |
| 2N 6E15DDB | 440744103223401 | 440744 | 1032234 | 03/15/1995 | W | 407 | 4,210 | 4,185 |
| 2N 6E15BDB | 440804103230501 | 440804 | 1032305 | -- | W | 370 | 4,260 | 3,925 |
| 2N 6E15BC | 440810103234401 | 440804 | 1032324 | 02/18/1985 | W | 505 | 4,300 | 4,180 |
| 2N 6E15BBBD | 440820103232601 | 440820 | 1032326 | 07/27/1992 | W | 372 | 4,290 | 4,230 |
| 2N 6E15ADAA | 440811103222201 | 440811.1 | 1032221.8 | 12/20/1995 | W | 425 | 4,060.7 | 3,685 |
| 2N 6E15AD2 | 440805103223001 | 440805 | 1032230 | 08/21/1995 | W | 430 | 4,160 | 3,800 |
| 2N 6E14CAC | 440758103214301 | 440750 | 1032201 | 07/06/1977 | W | 540 | 4,150 | 3,850 |
| 1N 8E 9CAB2 | 440334103095601 | 440334 | 1030956 | 09/--/1990 | W | 3,805 | 3,108 | -342 |
| 1N 7E32DABA | 440004103174001 | 440006 | 1031742 | 06/23/1986 | W | 780 | 3,999.2 | 3,335 |
| 1N 7E32CADB | 435959103181301 | 435959 | 1031813 | 04/12/1978 | W | 1,170 | 4,060 | 3,635 |
| 1N 7E31BCAD | 440523103194201 | 440019 | 1031941 | 05/11/1978 | W | 598 | 4,260 | 4,125 |
| 1N 7E31ABAA | 440034103190001 | 440034 | 1031900 | 11/--/1975 | W | 860 | 3,990 | 3,740 |
| 1N 7E29DBA | 440059103175301 | 440059 | 1031753 | 05/24/1990 | W | 1,430 | 3,840 | 3,190 |
| 1N 7E29CADD | 440052103181201 | 440053.6 | 1031810.4 | 06/30/1984 | W | 940 | 3,859.5 | 3,460 |
| 1N 7E21BCAB | 440205103172001 | 440205 | 1031720 | 07/07/1982 | W | -- | 3,900 | 3,040 |
| 1N 7E18DADB | 440238103185201 | 440238 | 1031852 | 07/11/1978 | W | 325 | 3,620 | 3,345 |
| 1N 7E18BDDD | 440247103192501 | 440247 | 1031925 | 03/22/1994 | W | 220 | 3,500 | 3,415 |
| 1N 7E18ACCC | 440247103191701 | 440247 | 1031917 | 06/12/1993 | W | 150 | 3,540 | 3,440 |
| 1N 7E18AAAD | 440308103184601 | 440308.5 | 1031847.5 | 10/31/1996 | W | 200 | 3,413.8 | 3,338 |
| 1N 7E16DCDC | 440220103164001 | 440220 | 1031640 | 12/01/1991 | W | 1,281 | 3,486.7 | 2,663 |
| 1N 7E 8DDCD2 | 440310103173802 | 440312 | 1031740 | 05/08/1991 | W | 940 | 3,409.5 | 2,825 |
| 1N 7E 8CCA | 440319103182901 | 440319 | 1031829 | 08/03/1985 | W | 300 | 3,390 | 3,099 |
| 1N 7E 6DCAB | 440416103190701 | 440416 | 1031907 | 09/20/1973 | W | 800 | 3,900 | 3,165 |
| 1N 7E 6BACB | 440446103193201 | 440446 | 1031932 | 07/06/1978 | W | 850 | 4,020 | 3,240 |

**Table 4.** Selected data for wells and test holes used in the structure-contour map of the Madison Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Madison Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Pennington County—Continued** | | | | | |
| 1N 7E 3BBCC | 440446103161701 | 440444.6 | 1031618.6 | 11/08/1989 | W | 1,391 | 3,313.8 | 2,273 |
| 1N 7E 1DBBB | 440427103131701 | 440426.6 | 1031318.0 | 11/--/1990 | W | 3,280 | 3,395.7 | 560 |
| 1N 6E12ADA | 440341103200301 | 440341 | 1032003 | 03/09/1990 | W | 780 | 4,000 | 3,713 |
| 1N 6E 2ABBB | 440429103214301 | 440454 | 1032143 | 05/03/1977 | W | 540 | 4,060 | 4,020 |
| 1S 1E33AB | 435530104000701 | 435527 | 1040010 | -- | W | 475 | 6,340 | 5,992 |
| 1S 7E 3CDBD2 | 435916103161802 | 435915.1 | 1031620.6 | 08/05/1994 | W | 660 | 3,520.4 | 2,323 |
| 1S 7E 5DCCD | 435902103182601 | 435908 | 1031824 | -- | W | 1,021 | 4,060 | 3,730 |
| 1S 7E 6DBCA | 435941103195001 | 435924 | 1031943 | 11/10/1985 | W | 300 | 4,060 | 3,950 |
| 1S 7E 8ABAA | 435903103181301 | 435903 | 1031813 | -- | W | 754 | 4,100 | 3,680 |
| 1S 7E 9CBBD | 435835103175001 | 435835 | 1031750 | 03/--/1976 | W | 1,105 | 4,110 | 3,675 |
| 1S 7E11ACAB | 435851103143501 | 435848 | 1031445 | 06/10/1984 | W | 1,740 | 3,466.2 | 2,066 |
| 1S 7E15CBBB | 435746103160601 | 435743 | 1031642 | 10/26/1977 | W | 820 | 3,985 | 3,175 |
| 1S 7E18ABDAB | 445826103193601 | 435805 | 1031926 | 09/--/1960 | W | 826 | 4,315 | 3,985 |
| 1S 7E20CACD | 435644103183801 | 435641.3 | 1031843.4 | 08/06/1979 | W | 1,033 | 4,171.0 | 3,645 |
| 1S 7E20CAD | 435635103181401 | 435635 | 1031814 | 05/09/1983 | W | 903 | 4,120 | 3,608 |
| 1S 7E20CBCA | 435647103185601 | 435647 | 1031856 | --/--/1956 | W | 403 | 4,180 | 3,850 |
| 1S 7E21BBCC | 435709103175301 | 435709 | 1031753 | 06/10/1979 | W | 1,340 | 4,060 | 3,470 |
| 1S 7E32ADCD | 435611103190101 | 435511 | 1031807 | 11/18/1978 | W | 360 | 4,110 | 3,770 |
| 1S 7E32BADCD | 435522103183701 | 435522 | 1031837 | 01/13/1977 | W | 273 | 4,158 | 4,088 |
| 1S 7E33BDBD | 435518103173001 | 435518 | 1031730 | 11/04/1992 | W | 680 | 4,090 | 3,600 |
| 1S 8E19BBBB | 435718103130301 | 435718 | 1031303 | 03/08/1984 | W | 2,600 | 3,555 | 1,195 |
| 2S 7E17CCAA | 435227103185301 | 435227.3 | 1031852.7 | 06/29/1995 | W | 540 | 3,931.7 | 3,571 |
| | | | **Custer County** | | | | | |
| 2S 7E28CB2 | 435042103174402 | 435042 | 1031744 | 09/17/1985 | W | 375 | 3,540 | 3,170 |
| 3S 1E18DDDB | 434700104021401 | 434701.7 | 1040215.5 | 09/09/1993 | W | 1,054 | 4,644.6 | 3,785 |
| 4S 2E 2ABD | 434406103503301 | 434406 | 1035033 | 01/04/1985 | W | 810 | 5,400 | 5,360 |
| 4S 2E 2ADB | 434402103502301 | 434402 | 1035023 | 08/25/1959 | W | 700 | 5,430 | 5,427 |
| 4S 3E 4BBDB | 434407103461401 | 434408 | 1034626 | 07/24/1980 | W | 675 | 5,660 | 5,490 |
| 4S 6E 1DAAA | 434350103201901 | 434350.8 | 1032020.2 | 08/05/1993 | W | 680 | 3,860 | 3,260 |
| 5S 2E28BCCB | 433517103534201 | 433517.4 | 1035342.3 | 07/18/1995 | W | 1,075 | 4,257.7 | 3,245 |
| 5S 4E18DDDD | 433630103404601 | 433630 | 1034046 | 09/12/1996 | X | 630 | 4,945 | 4,880 |
| 6S 2E 9BC | 433241103533401 | 433241 | 1035334 | 12/19/1956 | W | 1,656 | 4,071.5 | 2,691 |
| 6S 5E23DB | 433034103284701 | 433044 | 1032915 | 06/--/1978 | W | 820 | 4,230 | 3,620 |
| 6S 5E24BAAA | 433114103281601 | 433114 | 1032816 | 04/13/1977 | W | 780 | 4,110 | 3,420 |

**Table 4.** Selected data for wells and test holes used in the structure-contour map of the Madison Limestone—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Madison Limestone[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Custer County—Continued** | | | | | |
| 6S 6E 6DDA | 433311103263101 | 433311 | 1032631 | 03/30/1956 | W | 795 | 3,809 | 3,337 |
| 6S 6E15ABDD | 433150103230501 | 433150 | 1032305 | --/--/1949 | W | 939 | 3,420 | 2,581 |
| 6S 6E20CA2 | 433142103232801 | 433142 | 1032328 | 03/--/1924 | W | 962 | 3,729 | 2,729 |
| 6S 6E21BBBB | 433115103251401 | 433115.4 | 1032516.1 | 10/17/1991 | W | 1,165 | 3,645.8 | 2,590 |
| | | | **Fall River County** | | | | | |
| 7S 3E36DCD | 432340103421501 | 432340 | 1034215 | -- | W | -- | 4,130 | 2,020 |
| 7S 4E19BCCB | 432548103414801 | 432545.8 | 1034151.2 | 08/29/1992 | W | 1,540 | 4,175.15 | 2,643 |
| 7S 5E14CCCC | 432603103295901 | 432602.7 | 1032958.7 | 02/28/1996 | W | 915 | 3,715.1 | 2,850 |
| 8S 5E16BBAD | 432136103321001 | 432136 | 1033210 | 11/20/1987 | W | 1,140 | 3,830 | 2,740 |
| 8S 7E27DCC | 431909103161801 | 431909 | 1031618 | 01/24/1946 | W | 4,548 | 3,354 | -1,100 |
| 9S 2E 1ACDB | 431753103492601 | 431753 | 1034926 | 03/20/1913 | W | 2,983 | 3,455 | 535 |
| 9S 2E 1BCDC | 431750103500301 | 431750 | 1035003 | 10/23/1936 | W | 3,183 | 3,571 | 406 |
| 9S 7E16DA | 431556103172501 | 431556 | 1031725 | 05/16/1971 | W | 4,335 | 3,350 | -850 |
| 9S 7E25AD | 431420103115001 | 431420 | 1031430 | 10/03/1958 | W | 4,617 | 3,390 | -1,135 |
| 10S 2E 3ACDA | 431240103453001 | 431240 | 1035150 | 11/26/1943 | W | 3,855 | 3,655 | 95 |
| 10S 2E 3DAA | 431232103513501 | 431232 | 1035135 | -- | W | -- | 3,655 | 55 |
| 10S 2E 4BD | 431242103531501 | 431242 | 1035315 | 06/19/1981 | W | 3,670 | 3,810 | 150 |
| 10S 2E18ACD | 431055103552601 | 431055 | 1035526 | 09/01/1989 | W | 4,065 | 3,797 | 18 |
| 10S 4E 4CCA | 431218103393001 | 431218 | 1033930 | 12/05/1946 | W | 3,004 | 3,475 | 655 |
| 10S 4E20D | 430945103400001 | 430945 | 1034000 | --/--/1937 | W | 3,250 | 3,600 | 780 |

[1]From Carter and Redden, 1999d.

**Table 5.** Selected data for wells and test holes used in the structure-contour map of the Deadwood Formation

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Deadwood Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Butte County** | | | | | |
| 9N 3E27ADBD | 444253103440001 | 444253 | 1034359 | 07/--/1952 | W | 4,016 | 3,002 | -1,002 |
| 8N 5E12DBC | 444002103272001 | 444002 | 1032720 | 12/13/1949 | W | 5,759 | 2,880 | -2,570 |
| 8N 3E13AA | 443940103412701 | 443940 | 1034127 | 09/16/1991 | W | 3,750 | 2,911 | -743 |
| | | | **Lawrence County** | | | | | |
| 7N 4E30DCB | 443205103404001 | 443205 | 1034040 | 11/15/1950 | W | 3,143 | 3,680 | 710 |
| 5N 4E18CDAB | 442326103405101 | 442326 | 1034051 | 07/24/1991 | W | 1,045 | 4,740 | 4,180 |
| 5N 3E14ACAD | 442351103425201 | 442351 | 1034252 | 10/22/1979 | W | 1,061 | 4,860 | 4,210 |
| 4N 2E20BBAC2 | 441757103544602 | 441757.5 | 1035445.5 | 10/09/1996 | W | 780 | 6,209.8 | 5,592 |
| | | | **Meade County** | | | | | |
| 3N 7E19CDA | 441204103192301 | 441204 | 1031923 | 06/08/1950 | W | 2,155 | 3,670 | 1,520 |
| 2N 6E 1CCC | 440925103210201 | 440920 | 1032102 | 11/15/1991 | W | 950 | 4,100 | 3,200 |
| | | | **Pennington County** | | | | | |
| 2N 6E35CBBC | 440520103221501 | 440515 | 1032215 | 01/23/1992 | W | 602 | 4,240 | 3,680 |
| 2N 6E26BD | 440621103215301 | 440621 | 1032153 | 01/26/1995 | W | 900 | 4,180 | 3,330 |
| 2N 6E26BD | 440621103215301 | 440621 | 1032153 | 01/26/1995 | W | 900 | 4,180 | 3,330 |
| 2N 6E26BD | 440621103215301 | 440621 | 1032153 | 01/26/1995 | W | 900 | 4,180 | 3,330 |
| 2N 6E26BD | 440621103215301 | 440621 | 1032153 | 01/26/1995 | W | 900 | 4,180 | 3,330 |
| 2N 6E24CC | 440640103205801 | 440640 | 1032058 | -- | W | 820 | 4,310 | 3,580 |
| 2N 6E18DC | 440738103262301 | 440738 | 1032623 | 05/04/1985 | W | -- | 4,860 | 4,830 |
| 2N 6E15ADAA | 440811103222201 | 440811.1 | 1032221.8 | 12/20/1995 | W | 425 | 4,060.7 | 3,190 |
| 2N 1E27ADAC | 440623103583701 | 440626.8 | 1035835.9 | 09/18/1991 | W | 450 | 6,883.7 | 6,465 |
| 1N 7E32CADB | 435959103181301 | 435959 | 1031813 | 04/12/1978 | W | 1,170 | 4,060 | 2,972 |
| 1N 7E31DDB | 435953103185701 | 435953 | 1031857 | 08/23/1994 | W | 940 | 4,060 | 3,140 |
| 1N 7E31CDC | 435945103193301 | 435945 | 1031933 | 08/20/1994 | W | 940 | 4,020 | 3,102 |
| 1N 7E31BCA | 440018103194101 | 440018 | 1031941 | 05/26/1995 | W | 1,155 | 4,260 | 3,170 |
| 1N 7E31ABAA | 440034103190001 | 440034 | 1031900 | 11/--/1975 | W | 860 | 3,990 | 3,175 |
| 1N 7E29DBA | 440059103175301 | 440059 | 1031753 | 05/24/1990 | W | 1,430 | 3,840 | 2,770 |
| 1N 7E29CADD | 440052103181201 | 440053.6 | 1031810.4 | 06/30/1984 | W | 940 | 3,859.5 | 2,987 |
| 1N 6E36BCA | 440018103205401 | 440018 | 1032054 | 08/01/1986 | W | 500 | 4,260 | 4,010 |
| 1N 6E35AADD | 440023103211001 | 440022.9 | 1032110.2 | 07/02/1996 | W | 375 | 4,227.5 | 4,167 |
| 1N 6E13BADB | 440304103203501 | 440304 | 1032035 | 06/03/1993 | W | 815 | 4,040 | 3,510 |
| 1N 6E13BABC | 440302103204401 | 440302 | 1032044 | 01/22/1995 | W | 670 | 4,060 | 3,660 |
| 1N 6E13AA | 440306103195701 | 440306 | 1031957 | 09/23/1988 | W | 560 | 3,740 | 3,215 |
| 1N 6E12CC | 440319103205801 | 440319 | 1032058 | 08/20/1994 | W | 680 | 4,100 | 3,460 |
| 1N 6E12ADA | 440341103200301 | 440341 | 1032003 | 03/09/1990 | W | 780 | 4,000 | 3,292 |
| 1N 6E11DBDA | 440329103212801 | 440329 | 1032128 | 10/03/1990 | W | 700 | 4,180 | 3,600 |

**Table 5.** Selected data for wells and test holes used in the structure-contour map of the Deadwood Formation—Continued

[NGVD29, National Geodetic Vertical Datum of 1929; W, well; X, test hole; --, no data]

| USGS local number | Station identification number | Latitude (degrees, minutes, seconds) | Longitude (degrees, minutes, seconds) | Date of construction | Type of site | Depth of hole, in feet below land surface | Altitude, in feet above or below (-) NGVD29: Land surface | Altitude, in feet above or below (-) NGVD29: Top of the Deadwood Formation[1] |
|---|---|---|---|---|---|---|---|---|
| | | | **Pennington County—Continued** | | | | | |
| 1N 6E 2BBB | 440454103221201 | 440454 | 1032212 | 09/26/1985 | W | 500 | 4,160 | 3,727 |
| 1N 6E 2BAC | 440445103220001 | 440445 | 1032200 | 12/--/1971 | W | 560 | 4,160 | 3,715 |
| 1N 6E 2ABBB | 440429103214301 | 440454 | 1032143 | 05/03/1977 | W | 540 | 4,060 | 3,530 |
| 1S 7E 7ACA | 435850103193001 | 435850 | 1031930 | 12/30/1985 | W | 845 | 4,260 | 3,720 |
| 1S 7E 7CBAB | 435838103200901 | 435838 | 1032009 | 03/05/1979 | W | 620 | 4,190 | 3,860 |
| 1S 7E 8ABBD | 435900103182401 | 435900 | 1031824 | -- | W | 840 | 4,100 | 3,360 |
| 1S 7E 9CBBD | 435835103175001 | 435835 | 1031750 | 03/--/1976 | W | 1,105 | 4,110 | 3,330 |
| 1S 7E18ABDAB | 445826103193601 | 435805 | 1031926 | 09/--/1960 | W | 826 | 4,315 | 3,585 |
| 1S 7E20CACD | 435644103183801 | 435641.3 | 1031843.4 | 08/06/1979 | W | 1,033 | 4,171.0 | 3,340 |
| 1S 7E21BBCC | 435709103175301 | 435709 | 1031753 | 06/10/1979 | W | 1,340 | 4,060 | 3,140 |
| 2S 7E18DCBC | 435206103194001 | 435215 | 1031938 | 03/12/1979 | W | 377 | 4,020 | 3,898 |
| | | | **Custer County** | | | | | |
| 4S 2E 2ABD | 434406103503301 | 434406 | 1035033 | 01/04/1985 | W | 810 | 5,400 | 4,905 |
| 4S 2E 2ADB | 434402103502301 | 434402 | 1035023 | 08/25/1959 | W | 700 | 5,430 | 4,945 |
| 4S 2E 7B | 434322103555501 | 434322 | 1035555 | 08/20/1985 | W | 1,080 | 5,110 | 4,165 |
| 5S 4E16DB | 433650103384501 | 433650 | 1033845 | --/--/1959 | W | 380 | 5,090 | 4,920 |
| 5S 4E18DDDD | 433630103404601 | 433630 | 1034046 | 09/12/1996 | X | 630 | 4,945 | 4,462 |
| 5S 4E23BA | 433623103364101 | 433623 | 1033641 | --/--/1955 | W | 360 | 4,885 | 4,651 |
| 5S 5E31BDDA | 433423103341301 | 433423 | 1033413 | 01/29/1973 | W | 36 | 4,630 | 4,620 |
| 6S 4E10DCDB | 433912103373501 | 433212 | 1033735 | 08/12/1983 | W | 900 | 4,740 | 4,050 |
| 6S 6E 6DDA | 433311103263101 | 433311 | 1032631 | 03/30/1956 | W | 795 | 3,809 | 3,049 |
| 6S 6E20CA2 | 433142103232801 | 433142 | 1032328 | 03/--/1924 | W | 962 | 3,729 | 2,429 |
| | | | **Fall River County** | | | | | |
| 10S 2E 3DAA | 431232103513501 | 431232 | 1035135 | -- | W | -- | 3,655 | -235 |
| 10S 2E18ACD | 431055103552601 | 431055 | 1035526 | 09/01/1989 | W | 4,065 | 3,797 | -252 |

[1]From Carter and Redden, 1999e.



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