411227103011703 Local number 14N 50W 2DC 3

Brule Formation of White River Group Aquifer

Cheyenne County, NE

LOCATION.--Lat 41°12′27″, long 103°01′17″, in SW ¼ SE ¼ sec.2, T.14 N., R.50 W., Cheyenne County, Hydrologic Unit 10190016.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 385 ft. Upper casing diameter 2.5 in; top of first opening 375 ft, bottom of last opening 385 ft.

WELL USE.--Observation well.

DATUM.--Land-surface datum is 4335.11 ft above National Geodetic Vertical Datum of 1988. Measuring point: undefined.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 1 of 4

[Remark codes: <, less than. Value qualifier codes: @, holding time exceeded; c, see laboratory comment; o, result determined by alternate method.]

Date	Time	Depth to water level, feet below LSD (72019)	Flow rate, instan-taneous gal/min (00059)	Pump or flow period prior to sam-pling, minutes (72004)	Sam-pling depth, feet (00003)	Baro-metric pres-sure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)
Mar 30...	1800	163.84	1.6	135	350	650	2.3	7.2	8.1	8.1	318	344	9.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 2 of 4

[Remark codes: <, less than. Value qualifier codes: @, holding time exceeded; c, see laboratory comment; o, result determined by alternate method.]

Date	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Alka-linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
Mar 30...	13.0	82	20.6	7.27	9.45	2	40.5	49	149@c	149@c	3.50	1.0	67.4

411227103011703 Local number 14N 50W 2DC 3—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
Part 3 of 4
[Remark codes: <, less than. Value qualifier codes: @, holding time exceeded; c, see laboratory comment; o, result determined by alternate method.]

Date	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Alum-inum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Stront-ium, water, fltrd, ug/L (01080)
Mar													
30...	19.9	267	.36	<.04	1.83	<.008	<.02	2oc	10.4	89	<6	<.6	339

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
Part 4 of 4
[Remark codes: <, less than. Value qualifier codes: @, holding time exceeded; c, see laboratory comment; o, result determined by alternate method.]

Date	C-14 countng error, water, fltrd, percent modern (49934)	C-14, water, fltrd, percent modern (49933)	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)	C-13 / C-12 ratio, water, unfltrd per mil (82081)	O-18 / O-16 ratio, water, unfltrd per mil (82085)
Mar					
30...	.420	35.28	-102	-6.51	-13.76