Water-Data Report NE-2005

411252103041101 Local number 14N 50W 5ADDD1

Ogallala Aquifer

Cheyenne County, NE

LOCATION.--Lat 41°12′52″, long 103°04′11″, in SE ¼ SE ¼ NE ¼ sec.5, T.14 N., R.50 W., Cheyenne County, Hydrologic Unit is unknown.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 220 ft. Upper casing diameter 2.5 in; top of first opening 200 ft, bottom of last opening 220 ft.

WELL USE.--Observation well.

DATUM.--Land-surface datum is 4367.8 ft above National Geodetic Vertical Datum of 1929. 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 29...	1300	171.40	1.0	35	190	645	4.5	7.4	7.8	7.8	393	407	14.0

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 29...	13.5	130	37.5	9.60	8.57	1	31.0	32	152@c	137@c	19.3	1.1	65.3

411252103041101 Local number 14N 50W 5ADDD1—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
Part 3 of 4
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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													
29...	32.9	300	.41	<.04	2.76	<.008	<.02	2oc	9.7	80	<6	<.6	526

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004
TO SEPTEMBER 2005
Part 4 of 4
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Date	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)
Mar		
29...	-104	-13.71