

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
 Water quality data end date: 0000-00-00  
 Ground water data begin date: 1930-10-20  
 Ground water data count: 261

Water quality data begin date: 0000-00-00  
 Water quality data count: 0  
 Ground water data end date: 1953-11-16

Ground-water levels, Number of Measurements: 261

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1953-11-16	5.61		1952-10-10	6.44	
1952-03-25	4.85		1952-03-13	3.99	
1952-01-04	4.39		1951-10-29	4.11	
1951-08-09	3.07		1951-05-07	5.67	
1951-03-27	5.30		1951-01-09	5.92	
1950-11-08	5.95		1950-09-07	5.69	
1950-07-05	5.57		1950-05-08	5.40	
1950-03-04	5.52		1950-01-04	5.72	
1949-11-01	5.64		1949-09-07	5.14	
1949-07-06	4.00		1949-04-17	4.54	
1949-03-10	5.03		1949-01-12	5.86	
1948-11-04	6.22		1948-09-07	5.98	
1948-07-06	5.55		1948-05-04	5.37	
1948-03-04	5.44		1948-01-06	5.58	
1947-11-04	5.71		1947-09-09	5.32	
1947-07-12	3.57		1947-05-13	4.45	
1947-03-13	4.67		1947-01-07	4.46	
1946-12-03	3.89		1946-11-08	3.97	
1946-10-08	2.72		1946-09-06	5.90	
1946-08-08	5.66		1946-07-11	5.61	
1946-06-06	5.37		1946-05-09	5.30	
1946-04-11	5.00		1946-03-14	5.07	
1946-02-14	5.08		1946-01-17	5.18	
1945-12-13	5.34		1945-10-14	5.40	
1945-07-29	4.99		1945-04-29	5.14	
1945-03-25	5.05		1945-01-07	5.41	
1944-11-30	5.70		1944-09-28	5.66	
1944-08-27	5.33		1944-06-26	4.45	
1944-06-11	4.26		1944-04-30	3.04	
1944-03-26	4.92		1944-02-27	5.13	
1944-01-23	5.32		1943-11-28	4.44	
1943-10-29	5.38		1943-09-26	5.18	
1943-08-22	5.48		1943-07-18	4.53	
1943-05-09	4.71		1943-04-04	5.06	
1942-11-05	5.04		1941-10-22	6.01	
1940-11-05	6.12		1940-07-24	5.51	
1940-04-03	4.62		1939-12-04	5.19	
1939-06-10	4.46		1938-10-25	5.33	
1938-06-25	4.86		1937-10-16	6.00	
1937-08-10	5.72		1937-06-22	4.88	
1937-04-04	4.86		1936-11-27	6.04	
1936-09-16	6.40		1936-07-23	5.61	
1936-06-05	4.40		1936-03-28	4.59	
1936-01-20	4.79		1935-12-31	4.83	
1935-11-27	4.90		1935-10-24	5.14	
1935-09-17	4.59		1935-08-17	5.49	
1935-07-16	4.51		1935-07-02	3.92	
1935-06-12	3.23		1935-04-22	4.86	
1935-02-28	5.07		1934-12-24	5.92	
1934-12-10	7.21		1934-12-01	7.00	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1934-11-14	6.42		1934-09-21	6.48	
1934-08-21	6.33		1934-07-16	5.83	
1934-06-17	5.43		1934-05-18	4.94	
1934-04-19	4.61		1934-03-21	4.51	
1934-02-21	4.54		1934-01-20	4.55	
1933-12-20	4.67		1933-11-18	4.78	
1933-10-20	4.83		1933-09-20	5.14	
1933-08-15	5.50		1933-08-08	5.36	
1933-08-02	5.30		1933-07-25	5.22	
1933-07-18	5.11		1933-07-11	5.00	
1933-07-05	4.88		1933-06-27	4.66	
1933-06-20	4.46		1933-06-13	4.25	
1933-06-06	4.01		1933-05-31	3.82	
1933-05-23	3.55		1933-05-16	3.16	
1933-05-09	2.74		1933-05-03	3.55	
1933-04-25	3.47		1933-04-18	4.50	
1933-04-11	4.48		1933-04-05	4.40	
1933-03-28	4.31		1933-03-21	4.39	
1933-03-14	4.40		1933-03-07	4.30	
1933-03-01	4.34		1933-02-21	4.37	
1933-02-14	4.43		1933-02-08	4.46	
1933-02-01	4.44		1933-01-24	4.44	
1933-01-17	4.46		1933-01-10	4.48	
1933-01-04	4.53		1932-12-27	4.58	
1932-12-20	4.61		1932-12-13	4.63	
1932-12-06	4.67		1932-11-29	4.70	
1932-11-22	4.73		1932-11-15	4.74	
1932-11-08	4.75		1932-11-01	4.79	
1932-10-25	4.84		1932-10-11	4.92	
1932-10-04	4.97		1932-09-27	4.99	
1932-09-20	4.95		1932-09-13	4.85	
1932-09-06	4.81		1932-08-30	4.65	
1932-08-23	4.33		1932-08-16	4.35	
1932-08-09	4.09		1932-08-02	3.78	
1932-07-26	4.20		1932-07-19	4.73	
1932-07-12	4.49		1932-07-05	4.27	
1932-06-29	4.05		1932-06-21	3.66	
1932-06-14	3.97		1932-06-07	3.75	
1932-06-01	3.87		1932-05-24	4.64	
1932-05-17	4.58		1932-05-10	4.54	
1932-05-04	4.45		1932-04-26	4.51	
1932-04-19	4.47		1932-04-12	4.42	
1932-04-05	4.35		1932-03-30	4.29	
1932-03-23	4.20		1932-03-16	4.26	
1932-03-09	4.27		1932-03-02	4.16	
1932-02-25	4.12		1932-02-18	4.44	
1932-02-11	4.50		1932-02-04	4.61	
1932-01-27	4.70		1932-01-20	4.74	
1932-01-13	4.80		1932-01-06	4.83	
1931-12-31	4.95		1931-12-23	5.01	
1931-12-17	4.98		1931-12-07	5.10	
1931-12-02	5.15		1931-11-25	5.35	
1931-11-18	5.35		1931-11-11	5.44	
1931-11-04	5.53		1931-10-28	5.65	
1931-10-20	5.80		1931-10-12	5.97	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1931-10-05	5.93		1931-09-28	5.90	
1931-09-21	5.85		1931-09-14	5.82	
1931-09-07	5.70		1931-08-31	5.60	
1931-08-24	5.51		1931-08-17	5.42	
1931-08-10	5.37		1931-08-03	5.25	
1931-07-27	5.13		1931-07-20	5.00	
1931-07-13	4.87		1931-07-06	4.78	
1931-06-29	4.66		1931-06-22	4.48	
1931-06-15	4.19		1931-06-08	4.36	
1931-06-01	4.28		1931-05-25	4.13	
1931-05-18	4.02		1931-05-11	3.89	
1931-05-04	3.82		1931-04-27	3.70	
1931-04-20	3.68		1931-04-13	3.48	
1931-04-06	3.12		1931-03-30	3.93	
1931-03-23	3.97		1931-03-16	3.97	
1931-03-09	4.11		1931-03-02	4.09	
1931-02-23	4.15		1931-02-16	4.23	
1931-02-09	4.20		1931-02-02	4.21	
1931-01-26	4.29		1931-01-19	4.32	
1931-01-12	4.27		1931-01-05	4.30	
1930-12-29	4.28		1930-12-22	4.20	
1930-12-15	4.15		1930-12-08	4.08	
1930-12-01	4.04		1930-11-24	3.93	
1930-11-17	4.35		1930-11-10	4.36	
1930-11-03	4.33		1930-10-27	4.22	
1930-10-20	4.20				

80

SE

1/2 - 1 Mile

Lower

NE WELLS

NE5000000049030

Oid :	0	Wellid:	124683
Regnum:	G-038791	Replacemen:	1
Status:	Suspense	Useid:	Irrigation
Nrdname:	Central Platte	Nrddwrnum:	18
Countyname:	Dawson	Countynum:	24
Township:	9	Rangenum:	21
Rangelet:	W	Section:	21
Subsection:	AC	Footage:	2340S 2340W
Areapermit:	CP2400009		
Acres:	180	Pcoldiam:	10
Gpm:	1050	Totaldepth:	45
Pdepth:	40	Pwaterlev:	23
Stwaterlev:	5	Ownernumbe:	5796
Wedrilic:	39124		
Compname:	Paulsen Inc		
Citystzip:	Cozad, NE 69130		
Address1:	PO Box 17		
Address2:	Larry Paulsen		
Fildate:	05/14/2001	Cmpldmonth:	4
Cmpldday:	2	Cmpldyear:	2000
Lastchgdat:	12/30/1899	Xdate2:	0
Latdd:	40.737059		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longdd: -99.720734      Site id: NE5000000049030  
 Calcgps: -1

**O81**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

NE WELLS      NE5000000051949

Oid :	0	Wellid:	105413
Regnum:	G-090283	Replacemen:	0
Status:	Active	Useid:	Irrigation
Nrdname:	Central Platte	Nrddwnum:	18
Countyname:	Dawson	Countyname:	24
Township:	9	Rangenum:	21
Rangelet:	W	Section:	9
Subsection:	CC	Footage:	270N 75E
Areapermit:	Not Reported		
Acres:	33		
Gpm:	40	Pcoldiam:	2
Pdepth:	30	Totaldepth:	40
Stwaterlev:	5	Pwaterlev:	25
Wedrilic:	39124	Ownernumbe:	47294
Compname:	Iowa Beef Processors Inc		
Citystzip:	Lexington, NE 68850		
Address1:	1500 Plum Creek Parkway		
Address2:	Not Reported		
Fildate:	01/09/1997	Cmpldmonth:	5
Cmpldday:	29	Cmpldyear:	1996
Lastchgdat:	12/30/1899	Xdate2:	0
Latdd:	40.75845		
Longdd:	-99.730014		
Calcgps:	-1	Site id:	NE5000000051949

**O82**  
**North**  
**1/2 - 1 Mile**  
**Higher**

NE WELLS      NE5000000051968

Oid :	0	Wellid:	158179
Regnum:	G-126828	Replacemen:	0
Status:	Active	Useid:	Livestock
Nrdname:	Central Platte	Nrddwnum:	18
Countyname:	Dawson	Countyname:	24
Township:	9	Rangenum:	21
Rangelet:	W	Section:	8
Subsection:	DD	Footage:	Not Reported
Areapermit:	Not Reported		
Acres:	0		
Gpm:	20	Pcoldiam:	1.25
Pdepth:	60	Totaldepth:	205
Stwaterlev:	15	Pwaterlev:	36
Wedrilic:	39124	Ownernumbe:	24471
Compname:	Shotkoski Hay Company		
Citystzip:	Lexington, NE 68850		
Address1:	PO Box 520		
Address2:	Not Reported		
Fildate:	04/16/2004	Cmpldmonth:	2
Cmpldday:	17	Cmpldyear:	2004
Lastchgdat:	12/30/1899	Xdate2:	0
Latdd:	40.758777778		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longdd: -99.7312777778      Site id: NE5000000051968  
 Calcgps: 0

**83**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**NE WELLS      NE5000000050469**

Oid :	0	Wellid:	96767
Regnum:	G-008087	Replacemen:	1
Status:	Active	Useid:	Irrigation
Nrdname:	Central Platte	Nrddwrnum:	18
Countyname:	Dawson	Countynum:	24
Township:	9	Rangenum:	21
Rangelet:	W	Section:	16
Subsection:	DO	Footage:	Not Reported
Areapermit:	CP2495014		
Acres:	160		
Gpm:	900	Pcoldiam:	8
Pdepth:	60	Totaldepth:	320
Stwaterlev:	10	Pwaterlev:	20
Wedrilic:	39124	Ownernumbe:	84589
Compname:	Dirt LLC		
Citystzip:	Lexington, NE 68850		
Address1:	75590 Road 438		
Address2:	Not Reported		
Fildate:	01/31/1996	Cmpldmonth:	12
Cmpldday:	27	Cmpldyear:	1995
Lastchgdatt:	12/30/1899	Xdate2:	0
Latdd:	40.747119		
Longdd:	-99.716738		
Calcgps:	-1	Site id:	NE5000000050469

**P84**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**NE WELLS      NE5000000052033**

Oid :	0	Wellid:	202273
Regnum:	Not Reported	Replacemen:	0
Status:	U	Useid:	Monitoring (Ground Water Quality)
Nrdname:	Central Platte	Nrddwrnum:	18
Countyname:	Dawson	Countynum:	24
Township:	9	Rangenum:	21
Rangelet:	W	Section:	8
Subsection:	DC	Footage:	604N 1522W
Areapermit:	Not Reported		
Acres:	0		
Gpm:	0	Pcoldiam:	0
Pdepth:	0	Totaldepth:	18.7999992370605
Stwaterlev:	0	Pwaterlev:	0
Wedrilic:	0	Ownernumbe:	23697
Compname:	Unisys Corporation		
Citystzip:	Eagan, MN 55121		
Address1:	3199 Pilot Knob Road		
Address2:	Corporate Environmental Affairs		
Fildate:	12/07/2009	Cmpldmonth:	0
Cmpldday:	0	Cmpldyear:	0
Lastchgdatt:	12/30/1899	Xdate2:	10/2009
Latdd:	40.7593916667		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longdd: -99.735766667      Site id: NE5000000052033  
 Calcgps: 0

**P85**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**NE WELLS      NE5000000052048**

Oid :	0	Wellid:	62193
Regnum:	G-054603	Replacemen:	0
Status:	Active	Useid:	Commercial/Industrial
Nrdname:	Central Platte	Nrddwnnum:	18
Countyname:	Dawson	Countynum:	24
Township:	9	Rangenum:	21
Rangelet:	W	Section:	8
Subsection:	DC	Footage:	650N 1490W
Areapermit:	Not Reported		
Acres:	0		
Gpm:	1500	Pcoldiam:	0
Pdepth:	0	Totaldepth:	302
Stwaterlev:	9	Pwaterlev:	114
Wedrilic:	0	Ownernumbe:	47294
Compname:	Iowa Beef Processors Inc		
Citystzip:	Lexington, NE 68850		
Address1:	1500 Plum Creek Parkway		
Address2:	Not Reported		
Fildate:	02/01/1977	Cmpldmonth:	11
Cmpldday:	3	Cmpldyear:	1976
Lastchgdat:	12/30/1899	Xdate2:	0
Latdd:	40.759518		
Longdd:	-99.735642		
Calcgps:	-1	Site id:	NE5000000052048

**86**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**NE WELLS      NE5000000051858**

Oid :	0	Wellid:	84288
Regnum:	G-075796	Replacemen:	0
Status:	Active	Useid:	Monitoring (Ground Water Quality)
Nrdname:	Central Platte	Nrddwnnum:	18
Countyname:	Dawson	Countynum:	24
Township:	9	Rangenum:	21
Rangelet:	W	Section:	9
Subsection:	CD	Footage:	25N 1400E
Areapermit:	CP2492188		
Acres:	0		
Gpm:	0	Pcoldiam:	2
Pdepth:	0	Totaldepth:	20
Stwaterlev:	0	Pwaterlev:	0
Wedrilic:	19027	Ownernumbe:	47294
Compname:	Iowa Beef Processors Inc		
Citystzip:	Lexington, NE 68850		
Address1:	1500 Plum Creek Parkway		
Address2:	Not Reported		
Fildate:	10/26/1992	Cmpldmonth:	7
Cmpldday:	25	Cmpldyear:	1990
Lastchgdat:	12/30/1899	Xdate2:	0
Latdd:	40.757757		

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Longdd: -99.725244  
Calcgps: -1

Site id: NE5000000051858

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: NE Radon

### Radon Test Results

Num Tests	Avg pCi/L	# > pCi/L	% > pCi/L	Max pCi/L
72	3.2	17	24%	8.2

Federal EPA Radon Zone for DAWSON County: 2

Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 68850

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.818 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.888 pCi/L	88%	12%	0%



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: National Wetlands Inventory

Source: Department of Natural Resources

Telephone: 402-471-2363

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Registered Groundwater Wells Database

Source: Department of Natural Resources

Telephone: 402-471-2363

Water use types include Aquaculture, Commercial/Industrial, Domestic, Ground Heat Exchanger, Heat Pump (Ground Water Source), Irrigation, Injection, Observation (Ground Water Levels); Other - Lake Supply, Fountain, Geothermal, Wildlife, Wetlands, Recreation, Plant and Lagoon, Sprinkler, Test, Vapor Monitoring; Public Water Supply with Spacing Protection, Monitoring (Ground Water Quality), Recovery, Livestock, Geothermal, Public Water Supply without Spacing Protection, Dewatering (Over 90 Days).

## OTHER STATE DATABASE INFORMATION

### RADON

#### State Database: NE Radon

Source: Department of Environmental Quality

Telephone: 402-471-0594

Summary of Radon Data

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

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