



Final Work Plan: Environmental Site Investigation at Sylvan Grove, Kansas

Environmental Science Division



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by

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Notation

AGEM	Applied Geosciences and Environmental Management
AMSL	above mean sea level
BER	Bureau of Environmental Remediation
BGL	below ground level
°C	degree(s) Celsius
CCC	Commodity Credit Corporation
EPA	U.S. Environmental Protection Agency
FSA	Farm Service Agency
ft	foot (feet)
gal	gallon(s)
gpm	gallon(s) per minute
hr	hour
IDW	investigation-derived waste
in.	inch(es)
M. KDHE	Kansas Department of Health and Environment
LUST	leaking underground storage tank
μg/kg	microgram(s) per kilogram
μg/L MCL	microgram(s) per liter maximum contaminant level
-	
mg/L	milligram(s) per liter
mi	mile(s)
NAIP	National Agricultural Imagery Program
PVC	polyvinyl chloride
PWS	public water supply
USDA	U.S. Department of Agriculture
VOC	volatile organic compound

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1 Introduction

In 1998, carbon tetrachloride was found above the maximum contaminant level (MCL) of 5 μ g/L in groundwater from one private livestock well at Sylvan Grove, Kansas, by the Kansas Department of Health and Environment (KDHE). The 1998 KDHE sampling was conducted under the U.S. Department of Agriculture (USDA) private well sampling program. The Commodity Credit Corporation (CCC), a USDA agency, operated a grain storage facility in Sylvan Grove from 1954 to1966. Carbon tetrachloride is the contaminant of primary concern at sites associated with former CCC/USDA grain storage operations.

Sylvan Grove is located in western Lincoln County, approximately 60 mi west of Salina (Figure 1.1). To determine whether the former CCC/USDA facility at Sylvan Grove is a potential contaminant source and its possible relationship to the contamination in groundwater, the CCC/USDA has agreed to conduct an investigation, in accordance with the Intergovernmental Agreement between the KDHE and the Farm Service Agency (FSA) of the USDA.

This *Work Plan* presents historical data related to previous investigations, grain storage operations, local private wells and public water supply (PWS) wells, and local geologic and hydrogeologic conditions at Sylvan Grove. The findings from a review of all available documents are discussed in Section 2.

On the basis of the analyses of historical data, the following specific technical objectives are proposed for the site investigation at Sylvan Grove:

- Evaluate the potential source of carbon tetrachloride at the former CCC/USDA facility.
- Determine the relationship of potential contamination (if present) at the former CCC/USDA facility to contamination identified in 1998 in groundwater samples from one private well to the west.
- Delineate the extent of potential contamination associated with the former CCC/USDA facility.

The detailed scope of work is outlined in Section 3. The results of the proposed work will provide the basis for determining what future CCC/USDA actions may be necessary, with the ultimate goal of achieving classification of the Sylvan Grove site at *no further action* status.

The proposed activities are to be performed on behalf of the CCC/USDA by the Environmental Science Division of Argonne National Laboratory, a nonprofit, multidisciplinary research center operated by the UChicago Argonne, LLC, for the U.S. Department of Energy. Argonne provides technical assistance to the CCC/USDA concerning environmental site characterization and remediation at former grain storage facilities.

Argonne issued a *Master Work Plan* (Argonne 2002) that has been approved by the KDHE. The *Master Work Plan* describes the general scope of all investigations at former CCC/USDA facilities in Kansas and provides guidance for these investigations. That document should be consulted for the complete details of plans for work associated with the former CCC/USDA facility at Sylvan Grove.

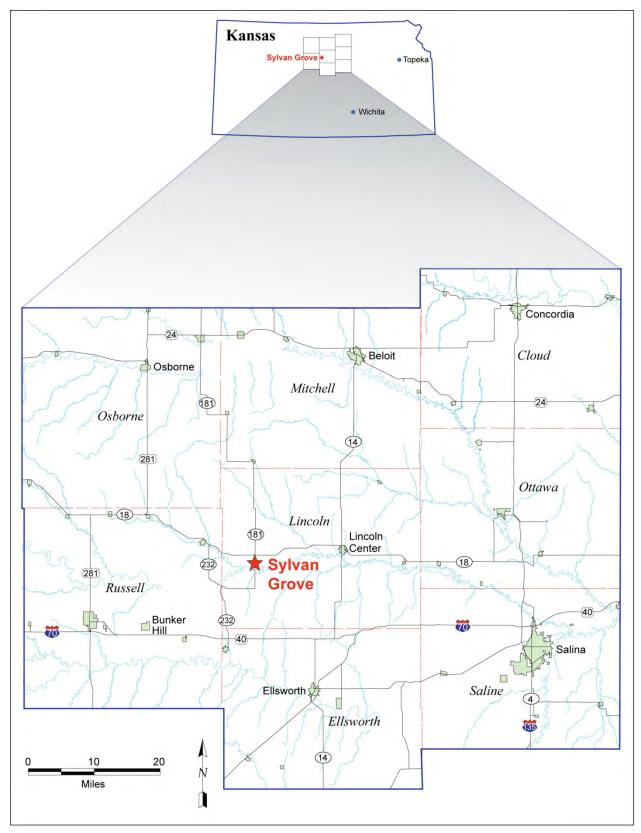


FIGURE 1.1 Location of Sylvan Grove, Kansas.

2 Background and Previous Studies

Sylvan Grove, Kansas, is a small rural city located in western Lincoln County, in Sections 11-14; Township 12 South; Range 10 West. The 2000 Census recorded 324 residents in 157 households in the city of Sylvan Grove. This section summarizes the results of previous investigations, geologic/hydrogeologic conditions, and potential sources for contamination at Sylvan Grove.

The residents of the city are served by a public water system that obtains water from two wells located 2,800 ft southwest of the former CCC/USDA facility (Figure 2.1). No carbon tetrachloride has been found in the public wells, on the basis of communications with the Sylvan Grove utilities superintendent (Blasé 2012) and previous test results (Appendix A). The details are discussed in Section 2.4.1.

2.1 Previous Investigations

To date, the carbon tetrachloride contamination at Sylvan Grove has been addressed by the following KDHE investigations:

- Private well sampling in January and March 1998 (under CCC/USDA funding)
- Pre-CERLIS site reconnaissance and evaluation in August 1998
- Private well sampling in April 2006 (under CCC/USDA funding)

These prior investigations are discussed below.

2.1.1 Private Well Sampling in January and March 1998

In January and March 1998, the KDHE North Central District Office sampled four private wells outside the northern city limit as part of the statewide USDA private well sampling program. Carbon tetrachloride was initially detected in the Oris Kingery livestock well (currently used for lawn and garden purposes) at 26.2 μ g/L. A second sample collected in March 1998 from

this well confirmed carbon tetrachloride at 33.6 μ g/L (Table 2.1). No carbon tetrachloride was identified in three additional private wells. Analytical results for groundwater samples also showed trace levels (below the MCL) of chloroform at 1.4-3.1 μ g/L in the Kingery well and 1.0-2.2 μ g/L in the Chris Meyer (MLC, Inc.) well. All of the January and March 1998 analyses for carbon tetrachloride and chloroform were conducted in an off-site laboratory.

Nitrate was detected at concentrations above the MCL of 10 mg/L at the Chris Meyer well (24.2 mg/L by the field laboratory and 24.08 mg/L by the off-site laboratory) in January 1998.

Approximate locations of the four private wells sampled in January and March 1998 are shown in Figure 2.2. The former CCC/USDA grain storage facility is located 50 ft east of the Kingery well and about 800 ft east of the Chris Meyer well. The well locations shown in Figure 2.2 were estimated on the basis of the descriptions on the KDHE's sampling data sheet (KDHE 1998). The locations will be surveyed in the proposed investigation.

2.1.2 Pre-CERLIS Site Reconnaissance and Evaluation in August 1998

To determine whether the former CCC/USDA facility could be a possible source for the carbon tetrachloride identified in the Kingery well 50 ft to the west, the KDHE North Central District Office recommended further investigation by the KDHE Bureau of Environmental Remediation (BER). In August 1998, the KDHE/BER Site Assessment Unit conducted soil sampling beneath the former CCC/USDA facility with a Geoprobe unit. Six subsurface soil samples were collected at depths of 8.5-18.5 ft BGL (below ground level) at six locations across the former CCC/USDA facility (Figure 2.3).

The soil samples collected in August 1998 were initially analyzed by field screening procedures in the KDHE/BER mobile laboratory. Carbon tetrachloride was detected in four of the six soil samples collected, at concentrations ranging from 0.3 μ g/kg to 28 μ g/kg (Table 2.1). Two soil samples (SP1 and SP3) were submitted to an off-site laboratory for verification analysis. One of these soil samples (SP3) had the highest concentration of carbon tetrachloride as analyzed by the field laboratory (28 μ g/kg). The off-site analyses detected no carbon tetrachloride or chloroform in either soil sample, at a reporting limit of 5.0 μ g/kg (KDHE 1998). The presence of contamination in soil beneath the former CCC/USDA facility was therefore not

confirmed above the reporting limit by the off-site laboratory. The sampling proposed in this *Work Plan* (Section 3) will resolve questions about these 1998 results.

Attempts to collect groundwater samples with the KDHE Geoprobe unit were made at all six soil sampling locations at the former CCC/USDA facility in August 1998. These attempts were unsuccessful because of refusal to penetrate a bedrock unit that the KDHE (1998) described as "fine-grained sandstone beds."

Two groundwater samples were collected from the Kingery well and the Winckler well (currently owned by R. Wolting; see Section 2.3) in this August 1998 sampling event. Carbon tetrachloride was detected in groundwater from the Kingery well, near the western edge of the former CCC/USDA facility, at $30.2 \mu g/L$ (off-site laboratory result) and $37.6 \mu g/L$ (field analysis result). Chloroform was reported at $1.4 \mu g/L$ in the Kingery well (off-site analysis). No contamination was detected by either laboratory in samples from the Winckler well, 200 ft southeast of the former facility.

2.1.3 Private Well Sampling in April 2006

In April 2006, the KDHE resampled three of the four private wells that had been sampled in 1998 (Table 2.1 and Figure 2.2). Carbon tetrachloride and chloroform were again detected in the groundwater sample collected from the Kingery well, at $18.2 \mu g/L$ and $1.2 \mu g/L$, respectively. No contamination was found in the K. Meyer well or the C. Meyer well. These analyses were conducted by an off-site laboratory.

A nitrate concentration of 81.5 mg/L was reported for the Kingery well.

The Winckler property, which includes the former CCC/USDA property, was transferred to the Woltings in 2003 (Section 2.3). The Wolting family moved into a new home on the property after 2006. No groundwater sample was taken from the Wolting well in the 2006 sampling event.

2.1.4 Additional Investigations Related to Groundwater Contamination

2.1.4.1 Falcon (Feldkamp) Service Station

In 1990, a release of fuel from leaking underground storage tanks (LUSTs) was identified at the service station owned by the Feldkamp Brothers Oil Company (currently owned by Falcon Service). Five LUSTs were removed, and the contaminated soil was excavated. Approximately 10 monitoring wells were installed to depths of 13-25 ft BGL. Free-phase product was observed in groundwater. The service station is located 1,000 ft southwest of the former CCC/USDA facility, as shown in Figure 2.1.

In November 2011, a brownfield targeted investigation to assess the current condition of the Falcon Service station site was conducted by Terracon Consultants, Inc., for the KDHE. 1,2-Dichloroethane was detected at $16 \mu g/L$, above the KDHE risk-based standard for this compound. Continued monitoring was recommended through the KDHE LUST program.

2.1.4.2 Former Farmers Elevator Company Site

In 2008, the KDHE performed a pre-CERCLIS site reconnaissance and evaluation for nitrate and pesticide contamination at the former Farmers Elevator Company site. Nitrate was detected at maximum concentrations of 470 mg/kg in subsurface soil and 35 mg/L in groundwater. This site is located about 3,000 ft south of the former CCC/USDA facility (Figure 2.1) and is currently owned by the Sylvan Grove Historical Society. The property is being enrolled in the Voluntary Cleanup and Property Redevelopment Program to address the on-site contamination.

2.2 Geologic and Hydrogeologic Setting

Sylvan Grove lies within the Smoky Hills Upland of the Great Plains physiographic province. The topographic features in this area typically include long, gently sloping pediments of uplands; bold escarpments of deeply dissected uplands; deep, narrow channels of tributary valleys; and broad, flat alluvial valleys along major streams. These features reflect the differential weathering characteristics of the Cretaceous clay, sandstone, shale, and limestone

(Berry 1952). The land surface elevations at Sylvan Grove (including the former CCC/USDA grain storage property) vary, from uplands at approximately 1,550 ft AMSL (above mean sea level) to the north, to the Saline River and its floodplain at 1,430 ft AMSL to the south (Figure 2.4). The local relief is up to 120 ft. The Saline River is a major river system running from west to east across the middle of the Lincoln County. In the vicinity of Sylvan Grove, headwaters of several intermittent creeks dissect the surface of the uplands and drain the local area, generally flowing southward to the Saline River (Figure 2.4).

The near-surface geologic formations in Lincoln County were mainly deposited from the early Cretaceous to the Quaternary (Table 2.2). The formations of Cretaceous age near Sylvan Grove include the Dakota formation, which is underlain by the Cheyenne sandstone and Kiowa shale of early Cretaceous age and the overlying Graneros shale and Greenhorn limestone (Figure 2.5). The Dakota formation crops out in large areas adjacent to the Saline River and its tributaries. The Graneros shale forms a gentle grade from the top of the underlying Dakota formation to the overlying Greenhorn limestone, which extends over large upland areas (Berry 1952). The Dakota formation consists largely of gray to dark gray shale, sandy shale, and varicolored clays, containing irregular lenticular beds of siltstone and sandstone that yield moderate quantities of water. The overlying noncalcareous Graneros shale and Greenhorn limestone limestone are in general impervious, producing little to no water to wells, except for weathered Greenhorn limestone in a limited area. Information obtained from local drillers' logs suggests that most local water wells are producing water from sandstone beds in the Dakota formation.

Deposits of Pleistocene age unconformably overlie the Cretaceous formations as a result of alternating erosion and deposition. Pleistocene deposits are represented by the Meade formation, the Sanborn formation, and alluvium. The Meade formation is limited in the abandoned stream channel in the southwest corner of Lincoln County. The Sanborn formation lies over large areas, whereas alluvium is deposited in the present stream channels. As described by Berry (1952), the Sanborn formation consists of three prominent lithologic types that indicate three environments of deposition: (1) stream deposits of sand and gravel representing the major channel fills of earliest Sanborn time; (2) eolian silts covering large areas of the uplands, transported by winds from the floodplains of the major valleys during periods of alluviation; and (3) colluvial materials on slopes. The coarse materials of the Sanborn formation immediately overlying the Dakota formation can provide abundant water to wells. The Sylvan Grove public water supply wells tap water in this favorable condition (Berry 1952). The Sanborn formation loess (mainly silt) overlying the Dakota formation, however, produces little water to wells. On the basis of drillers' logs obtained from Kansas water well registration forms (Appendix B), depths to the bedrock unit (most likely Dakota formation) vary from 11 ft at the Chris Meyer well to 65 ft at the Fischer well and 68 ft at the public wells to the south. In the 1998 KDHE investigation, the maximum depth of refusal with the Geoprobe unit was encountered at 18.5 ft BGL (KDHE 1998).

Regionally, groundwater in Lincoln County flows mainly to the Saline River valley system, about 4,000 ft south of the former CCC/USDA facility. The previous investigations at the Falcon Service station site indicated a generally southward flow direction in the shallow groundwater (GeoStat 2011).

2.3 Former CCC/USDA Grain Bin Facility

To identify potential source areas at Sylvan Grove, Argonne conducted a property documents search and an analysis of historical aerial photographs for the former CCC/USDA facility. This section presents the results of combined analyses of all available documents.

The historical ownership of the properties related to the CCC/USDA grain storage operation at Sylvan Grove was determined on the basis of property documents acquired from the Lincoln County Courthouse. The historical ownership and property records are in Appendix C. The historical aerial photos taken in 1957, 1965, 1971, and 1980 (Figure 2.6) and the lease documents indicate that the CCC/USDA operated a two-acre grain storage facility consisting 30 circular bins near the northern edge of the city of Sylvan Grove in 1954-1966. The detailed lease and property transactions of property and the operation of the grain storage facility are summarized as follows:

- April 22, 1954. A warranty deed for approximately 16 acres of property, including the former CCC facility established at a later date, transferred the property from Eldor and Doris Hillmer to Harold and Melinda Panzer.
- May 1, 1954. Harold Panzer leased the middle-western part of his property (about 2 acres) to the CCC/USDA from May 1, 1954, to April 30, 1959.

- June 22, 1957. An aerial photo taken on this date shows 30 grain bins in two rows on the property leased to the CCC/USDA, indicating the presence of grain storage operations during the lease period (Figure 2.6).
- March 28, 1959. The lease of the 2-acre property was extended by Harold Panzer for 10 years, from May 1, 1959, to April 30, 1969.
- April 25, 1960. A warranty deed conveyed 16 acres of property from Harold and Melinda Panzer to Paul and Phyllis Winckler.
- October 1, 1965. An aerial photo taken on this date shows the 30-bin grain storage facility still in place on the leased property (Figure 2.6).
- August 11, 1966. An Agriculture Stabilization and Conservation newsletter (included with an FSA survey form) indicates that the 30 steel bins at Sylvan Grove were for sale. The FSA form confirms that the CCC/USDA grain storage operation ceased in 1966.
- June 24, 1971. An aerial photo taken on this date shows that all 30 grain bins had been removed from the formerly leased CCC/USDA property (Figure 2.6).
- **December 10, 2003.** A warranty deed conveyed the 16 acres of property from Paul and Phyllis Winkler to Ryan and Heather Wolting, the current owners of the property.
- **December 11, 2003.** A termination of the lease to the CCC/USDA during the 1960s was formally filed in Lincoln County.

2.4 Existing Wells in the Vicinity of the Former CCC/USDA Facility

In a search for available information on existing wells, 16 private wells and 2 public water supply wells were identified within a distance of an approximately 0.5 mi from the former CCC/USDA facility (Figure 2.4). The well information was obtained mainly from Kansas well

registration forms, the KDHE (1998) site reconnaissance and investigation report, and direct communications with representatives of the city of Sylvan Grove. The details are discussed in below.

2.4.1 Public Water Supply Wells

The city of Sylvan Grove has provided a public water supply since the 1950s. The city well field is located at the southwest edge of the city, approximately 2,800 ft south of the former CCC/USDA facility (Figure 2.4). In late 1940s, six wells were drilled and installed for public water supply, at or near the city well field. Currently, wells PWS5 and PWS6 are actively providing the public water supply. The other four wells have been abandoned. Their precise locations are not recorded and remain unknown.

Argonne staff members recently visited the city of Sylvan Grove. Discussions with city officials indicated that water from wells PWS5 and PWS6 has been analyzed routinely by the KDHE laboratory and that no contaminants (including carbon tetrachloride) have been identified (Blasé 2012). The most recent results are in Appendix A. In 1998, because of apparent well deterioration (especially rust and scale accumulation along the shutter-type screen), Clarke Well and Equipment, Inc., refurbished both wells at the request of the city. Pumping tests after the treatments showed that the wells had been restored to good productivity of at least 200 gpm.

The public wells were originally installed in the city well field by Layne-Western Co. in 1949. The driller's log in Appendix B for well PWS2, which was made available to Argonne by Clarke Well and Equipment, Inc., is considered representative of the well field. This log (Appendix B) indicates that the public wells were completed to the top of a shale horizon in the Dakota formation at approximately 68 ft BGL. A thick (26-28 ft) layer of saturated sand and gravel overlying the bedrock serves as the source of groundwater to the wells. A well survey during the well refurbishment in 1998 determined that well PWS5 is 71 ft deep and is screened at 62-71 ft BGL, while PWS6 is 66 ft deep and is screened at 52-66 ft BGL. The static water level was at 39-40 ft BGL in both wells.

The geologic stratigraphic units and water-bearing zone penetrated by the Sylvan Grove public wells were also discussed by Berry (1952) in his geohydrology bulletin for Lincoln County. Berry suggested that the Pleistocene Sanborn formation (a layer of sand and gravel) and the underlying Dakota formation of Cretaceous age provide the sources of groundwater. The location of the city well field is very close to the Saline River valley and about 1,200 ft north of the current Saline River channel.

2.4.2 Private Wells

In an effort to identify the private wells near the former CCC/USDA facility, Argonne, on behalf of the CCC/USDA, located 16 private wells within 0.5 mi of the former facility. City officials indicated that all of these wells are currently used for lawn and garden purposes (Meitler 2012). The work proposed in Section 3 includes groundwater sampling for most of private wells near the former facility and confirmation of the water use for each well.

Of the 16 private wells located, 7 were identified through Kansas water well registration forms. All of these wells are installed in the bedrock formation of shale layers containing sandstone beds (Dakota formation). No saturated sand and gravel were recorded above the Dakota formation, in contrast to the boreholes drilled at the city well field. The production rates of the private wells are, predictably, much lower than those of the public wells. The available well logs are in Appendix B.

The lawn and garden well at the Kingery residence, in which carbon tetrachloride was detected in groundwater, was characterized by the KDHE (1998) as a hand-dug well. The well is about 50 ft west of the former CCC/USDA facility. Its depth is about 50 ft BGL, and the groundwater level is 25-30 ft BGL. The water-bearing zone is likely in the Dakota formation, though neither well log nor geologic information is available for this well.

			Field Analysis		Off-Site Laboratory Analysis		
Location	Depth (ft BGL)	Date	Carbon Tetrachloride ^a (ppb) ^b	Nitrate (mg/L)	Carbon Tetrachloride ^c (ppb)	Chloroform ^c (ppb)	Nitrate (mg/L)
KDHE private	well sampling in	January, Mai	rch, and August 1	998			
Kingery	~ 50	01/30/98	_d	< 20	26.2	1.4	_
Kingery	~ 50	03/30/98	_	_	33.6	3.1	_
Kingery	~ 50	08/11/98	37.6	_	30.0	1.4	_
Meyer, C.	Unknown	01/30/98	_	24.2	ND ^e	2.2	24.08
Meyer, C.	Unknown	03/30/98	_	_	ND	1.0	_
Meyer, K.	Unknown	01/30/98	_	< 20	ND	ND	_
Winckler ^f	Unknown	03/30/98	_	_	ND	ND	_
Winckler ^f	Unknown	08/11/98	ND	_	ND	ND	-
KDHE soil san	npling in August	1998					
SP1	8.5	08/11/98	ND	_	ND	ND	_
SP2	12.5	08/11/98	0.6	_	_	_	_
SP3	18.5	08/11/98	28	_	ND	ND	_
SP4	12.5	08/11/98	0.4	_	_	-	_
SP5	12.5	08/11/98	0.3	_	_	-	_
SP6	9.5	08/11/98	ND	-	-	-	-
KDHE private	well sampling in	April 2006					
Kingery	~ 50	04/06	_	_	18.2	1.2	81.5
Meyer, C.	Unknown	04/06	_	_	ND	ND	_
Meyer, K.	Unknown	04/06	_	_	ND	ND	_

TABLE 2.1	Analytical results from	prior investigations at the forme	r CCC/USDA facility.
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 a Reporting limits: 0.2 $\mu g/kg$ for soil and 0.2 $\mu g/L$ for water.

^b Concentrations are given in parts per billion (μ g/kg for soil or μ g/L for water).

^c Reporting limits: 5.0 μ g/kg for soil or 0.5 μ g/L for water.

- ^d Not analyzed.
- ^e ND, not detected at the indicated reporting limit.
- ^f The current owner of the Winckler well is R. Wolting.

TABLE 2.2 Generalized geologic section for Lincoln County, Kansas. Series and formations present at Sylvan Grove are highlighted in bold font. Source of data: Berry (1952).

System	Series	Formation	Thickness (ft)	Physical Character	Water Supply
		Recent alluvium (unconformable on older formations)	0-6	Sand, gravel, clay, and silt; buff to tan. Predominantly fine sand and silt.	Yields supplies of water for domestic and stock use. Quantities are limited.
Quaternary	Pleistocene	Sanborn formation (unconformable on older formations)	0-35	Loess, sand, and (locally) colluvium at the base; tan to gray-buff. Sand and gravel locally cemented.	Yields little or no water to wells in this area.
		Meade formation	0-40	Gravel, sand, silt, clay, volcanic ash, and caliche; gray, tan, and buff.	Yields meager supplies of water to wells.
Tertiary	Pliocene	Ogallala formation (unconformable on older formations)	0-4	"Algal limestone," pink, gray, and tan. Fresh- water limestone and caliche.	Yields no water to wells.
		Carlile shale	0-20	Shale, chalky to black, fissile. Contains some interbedded limestone.	Yields no water to wells.
		Greenhorn limestone	65-90	Shale and limestone interbedded. Shale is calcareous, tan to blue- gray; limestone is thin bedded, fossiliferous, gray.	Weathered limestone; yields some potable water to shallow wells.
	Gulfian	Graneros shale	20-35	Shale, blue-gray, locally contains clay, siltstone, and sandstone. Contains selenite and pyrite.	Yields little or no water to wells.
Cretaceous		Dakota formation	140-200±	Clay, shale, siltstone, and sandstone, interbedded and varicolored. Contains abundant siderite, hematite, limonite, and some lignite.	The sandstone yields moderate quantities of water of variable quality. Generally, shallow wells yield good water, and deep wells yield poor water.
	Comanchean	Kiowa shale	75-100±	Shale, black, containing thin beds of sandstone and siltstone, with crystals of gypsum and pyrite.	Yields little or no water to wells.
		Cheyenne sandstone	0-100±	Sandstone, medium to fine-grained, gray; some shale and siltstone.	Yields no water to wells.



FIGURE 2.1 Locations of the former CCC/USDA facility, the Falcon Service station (previously owned by Feldkamp Brothers Oil Company), the former Farmers Elevator Company site, and adjacent private wells and public water supply wells. Locations of private wells are estimated on the basis of the KDHE (1998) investigation report, Kansas water well registration forms, and communications with Sylvan Grove officials. Sources of photograph: NAIP (2010).

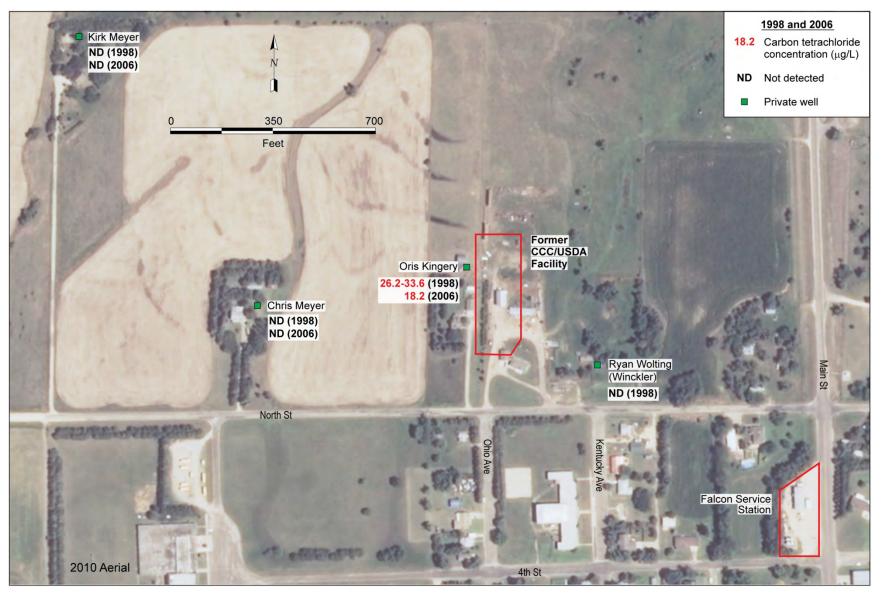


FIGURE 2.2 Historical analytical results for carbon tetrachloride in groundwater samples collected by the KDHE in 1998-2006 from four private wells near the former CCC/USDA facility. Source of photograph: NAIP (2010).

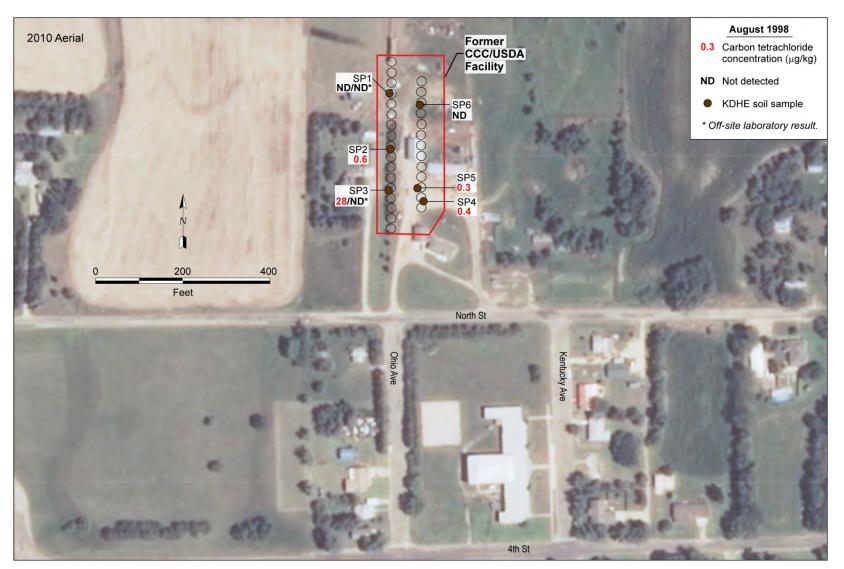


FIGURE 2.3 Analytical results for soil samples collected by the KDHE in August 1998 at the former CCC/USDA facility. Locations are estimated from the KDHE (1998) investigation report. Samples were collected at depths of 8.5-18.5 ft BGL. The maximum concentration identified by the KDHE field mobile laboratory for the soil sample collected at SP3 was not confirmed by analysis at the off-site laboratory. Source of photograph: NAIP (2010).

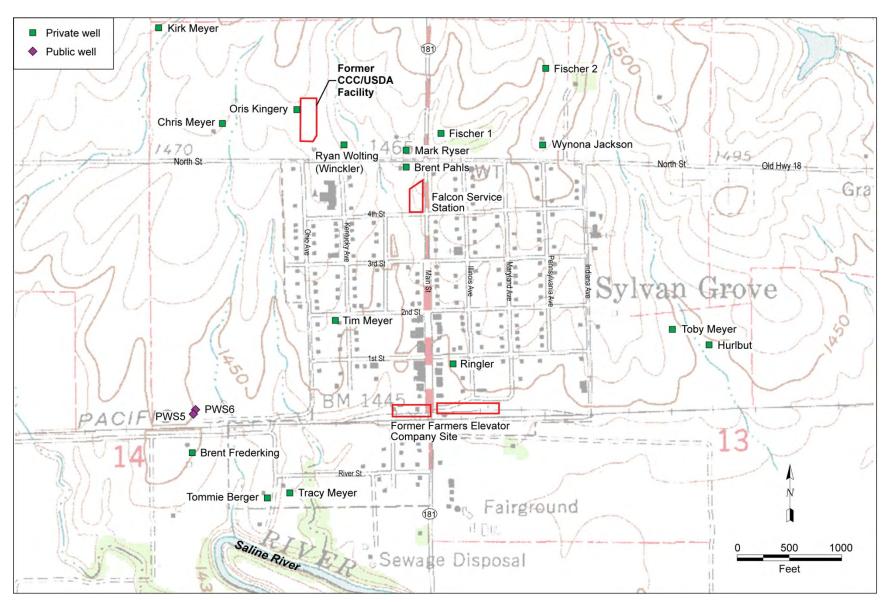


FIGURE 2.4 Local topography in the vicinity of Sylvan Grove and the former CCC/USDA facility, with estimated locations of private wells and public water supply wells. Source of 1982 topographic map: USGS (1997).

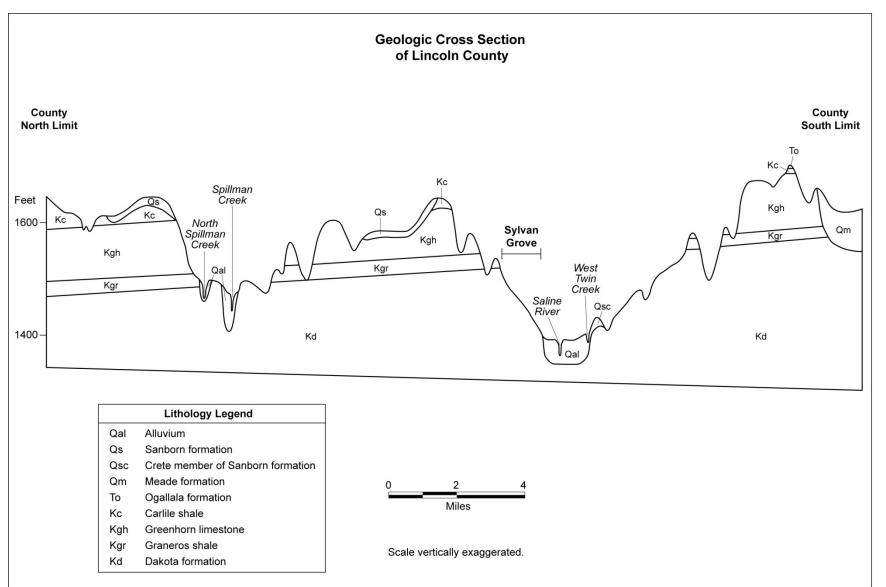


FIGURE 2.5 North-to-south geologic cross section from the north county line to the south county line, illustrating the stratigraphic relationships in western Lincoln County and the local area near Sylvan Grove.



FIGURE 2.6 Historical aerial photographs taken in 1957, 1965, 1971, and 1980, illustrating changes in grain storage operation at the former CCC/USDA facility near the north edge of Sylvan Grove. Sources of photographs: USDA (1957, 1965, 1971, 1980).

3 Proposed Technical Program

This section outlines the proposed investigative program at the former CCC/USDA facility at Sylvan Grove. A phased approach will be employed to optimize the field investigation by incorporating new results from the each previous phase, as well as input from the CCC/USDA and KDHE project managers. The goal of the proposed program is to identify and characterize any subsurface contamination associated with the former CCC/USDA facility and its relationship to the groundwater contamination found in the nearby Kingery well. The results of the proposed investigation will provide the basis of recommendations for future action, with the ultimate goal of requesting assignment of the Sylvan Grove site to *no further action* status.

3.1 Technical Objectives and Phases of the Investigation

To achieve the investigational goal, the following detailed technical objectives are proposed:

- Evaluate the potential source of carbon tetrachloride at the former CCC/USDA facility.
- Determine the relationship of potential contamination at the former CCC/USDA facility to contamination identified in 1998 and 2006 in groundwater at one lawn and garden well to the west.
- Delineate the extent of potential contamination associated with the former CCC/USDA facility.

The proposed investigation is guided by these objectives and is divided into two phases for implementation. Data acquired during the first phase will be evaluated to determine whether the subsequent phase is necessary and also will be used to optimize the work in the subsequent phase. The CCC/USDA and KDHE project managers will be contacted during each phase and kept apprised of the results. The implementation of each phase of work will be discussed and mutually agreed upon by the CCC/USDA and KDHE project managers.

The proposed phases of the investigation are as follows:

- *Phase 1*: Identify potential contaminant source areas in the vadose zone soil and characterize groundwater-bearing zone(s) on the former CCC/USDA property. Collect groundwater samples from private wells and public water supply wells in the vicinity of the former CCC/USDA facility.
- *Phase 2*: If data from Phase 1 suggest that contaminants associated with the former CCC/USDA facility have migrated off the property, delineate the extent of the groundwater contamination emanating from the property, establish a groundwater monitoring network, and measure hydraulic properties that affect contaminant migration.

3.2 Investigation Tasks

3.2.1 Phase 1: Identification of Potential Contaminant Source Areas in the Vadose Zone Soil and Characterization of Groundwater-Bearing Zone(s) on the Former CCC/USDA Property; Groundwater Sampling for All Private and Public Water Supply Wells in the Vicinity of the Property

Phase 1 will be conducted in three stages, as follows:

- *Phase 1a*: Conduct one deep stratigraphic test (to a maximum depth of 100 ft BGL) to identify hydrostratigraphic units and characterize groundwaterbearing zone(s) in the bedrock formation at a location directly offsetting the identified contaminated private lawn and garden well (Oris Kingery) and underlying the former CCC/USDA grain storage facility. Collect groundwater samples for volatile organic compounds (VOCs) analyses at each identified groundwater-bearing zone.
- *Phase 1b*: Perform vertical soil profiling through the vadose zone at six locations, in addition to the stratigraphic test location. Collect shallow groundwater samples for VOCs analysis from the first water-bearing zone at each location.

• *Phase 1c*: Collect groundwater samples for VOCs analysis from private wells and public water supply wells in the vicinity of the former CCC/USDA facility.

Soil samples from the vadose zone and groundwater samples from the identified groundwater-bearing-zone(s) within the bedrock will be collected with the sonic drilling rig during Phase 1. Sampling will be performed according to procedures in the *Master Work Plan* (Argonne 2002) and methods specified in Section 3.3. Phase 1 will proceed as follows:

- First, a deep investigation borehole (maximum depth 100 ft BGL) will be drilled adjacent to the contaminated private well (Oris Kingery) (Figure 3.1). Vertical soil profiling and geologic coring will be conducted to characterize the vadose zone and the underlying water-bearing zone(s). The core samples will be examined visually for lithologic evaluation and description. All soil and groundwater samples will be analyzed for VOCs to delineate the vertical extent of contamination in the potential source area. Hydrogeologic testing, grain size analysis, and other physical/chemical analyses might be performed, if necessary, for selected samples. Results from this initial location will guide the selection of vertical sampling depths and intervals for other locations
- Vertical soil profiles will be collected at six locations in addition to the initial deep stratigraphic test location on the former CCC/USDA property. Of these, three locations are along the western row of former grain bins, one location is between the rows, and two locations are along the eastern row (Figure 3.1). These locations are expected to have been the most vulnerable to potential releases of carbon tetrachloride during the former grain storage operations. For each profile, soil samples will be collected at intervals of 4 ft or less or at significant changes in lithology, from near the surface to the top of the first groundwater-bearing zone. The depth to the top of the first water-bearing zone is anticipated at approximately 30-40 ft BGL. The results of soil analysis will assist in the determination of potential source areas in the vadose zone soil.
- At each of six investigation locations, one water sample will be collected at intervals of 10 ft or less from the underlying, identified groundwater-bearing zone within the bedrock formation, to establish potential soil-to-groundwater

pathways and to confirm the location(s) of groundwater contamination associated with the source areas.

- Plant tissues will be collected along a grove of trees where the western row of grain bins was located, as shown in the 1957 and 1965 aerial photographs (Figure 2.6). Argonne's previous studies indicate that the presence of contamination in plant tissues is a good indicator of soil contamination.
- Analyses for VOCs will be conducted for all soil, groundwater, and plant tissue samples collected, to identify any carbon tetrachloride and chloroform contamination.
- All soil samples will be inspected visually for lithologic evaluation and description. Hydrogeologic testing, grain size analysis, and other chemical analyses may be performed in this or the subsequent phase for selected samples that are later determined to contain high concentrations of carbon tetrachloride.
- Groundwater samples will be collected for VOCs analysis from the private wells and public water supply wells near the former CCC/USDA facility. The estimated locations of the wells are shown in Figure 3.2.
- As analytical results are evaluated in the field, adjustments might be necessary to the number of sample points, the sample locations, and sampling intervals. The CCC/USDA and KDHE project managers will be contacted during field activities and kept apprised of results.

The results of the Phase 1 vertical soil profiling for the vadose zone, as well as groundwater sampling for the underlying groundwater-bearing zone, will indicate whether a soil source of carbon tetrachloride exists and a soil-to-groundwater migration pathway is potentially present at the former CCC/USDA facility.

3.2.2 Phase 2: Delineation of the Extent of Contamination in Groundwater and the Local Groundwater Flow Pattern

• *Phase 2*: If data from Phase 1 suggest that contaminants associated with the former CCC/USDA facility have migrated off the property, delineate the extent of the groundwater contamination emanating from the property, establish a groundwater monitoring network, and measure hydraulic properties that affect contaminant migration.

Most of the sampling points in Phase 2 will be located outside the former CCC/USDA property. This phase will proceed as follows:

- Additional borehole locations for groundwater sampling will be selected, on the basis of results from Phase 1, to characterize the lateral and vertical extent of any groundwater contamination emanating from the former CCC/USDA facility. These borehole locations will be in or near potential contaminant migration pathways downgradient from any source identified at the former CCC/USDA facility. The exact number and locations of boreholes will be determined at the end of Phase 1 or the beginning of Phase 2, in consultation with the CCC/USDA and KDHE project managers. The drilling rig will be used for advancing the boreholes.
- Groundwater samples will be collected from the identified water-bearing zone(s) over the vertical extent of the contaminant in groundwater.
- All groundwater samples will be analyzed for VOCs to determine the presence and concentrations of carbon tetrachloride and chloroform.
- Monitoring wells will be installed at selected locations that were used in Phases 1 and 2 to collect groundwater samples. The drilling rig will be used for well installation, as discussed in Section 3.3. Additional wells might be installed outside the former CCC/USDA property, if necessary, to configure the local groundwater flow pattern adequately.

- Groundwater levels will be measured in all wells at least 24 hr after well completion. Location coordinates and surface elevations will be estimated by Argonne personnel during the investigation through use of a global positioning system. At the end of the investigation, the location coordinates and elevations will be determined by a professional surveyor.
- Data loggers will be installed in the wells to facilitate long-term groundwater level monitoring, record seasonal water level fluctuations, and identify impacts of pumping at local wells.
- Results from the VOCs analyses on soil and groundwater samples generated in Phase 1, together with the groundwater flow pattern identified in Phase 2, will be compiled to constrain the extent of the contamination in groundwater and the primary direction of groundwater flow and contaminant migration.
- Slug testing may be conducted at selected wells to generate data on the range and distribution of aquifer hydraulic conductivity values across the area associated with contaminant sources and migration pathways. Such results can help to estimate the potential migration rate of the contamination in groundwater and the feasibility of various corrective actions. The testing will be performed according to the procedures in Section 6.7 of the *Master Work Plan* (Argonne 2002).

3.3 Investigation Methods

3.3.1 Methods for Sampling of Existing Wells

Water level measurement and sampling in existing wells will be conducted in accordance with the procedures described in the *Master Work Plan* (Argonne 2002), as follows:

- 1. The well number, the well owner's name, or both will be recorded.
- 2. If possible, the static groundwater level and then the total depth will be measured and documented for each well.

- 3. The groundwater from each well will be purged until field parameters of pH, temperature, and conductivity are stable. If possible, a minimum of three well volumes of water will be purged. The field parameters and volume purged will be documented. Each well will be purged before it is sampled.
- 4. The wells will be sampled after adequate recharge has occurred, but no more than 24 hr after purging.
- 5. Groundwater samples for analysis of VOCs (including carbon tetrachloride and chloroform) will be collected in laboratory-approved containers and immediately placed in a cooler at 4°C. These samples will be shipped overnight to the Applied Geosciences and Environmental Management (AGEM) Laboratory at Argonne for off-site analysis.
- 6. Any unavoidable deviations from these procedures will be documented.

3.3.2 Methods for Vertical-Profile Soil Sampling with the Sonic Drilling Rig

Soil sampling will be performed by using the sonic drilling rig to obtain cores from a depth of 4 ft BGL to the top of the bedrock. Soil samples will be taken every 4 ft and/or at changes in lithology. The soil samples recovered will be placed in jars, sealed, preserved on dry ice in the field, and shipped to the AGEM Laboratory for preparation and analysis, in accordance with procedures in the *Master Work Plan* (Argonne 2002).

3.3.3 Methods for Groundwater Sampling with the Sonic Drilling Rig

Groundwater samples collected with the drilling rig will be submitted to the AGEM Laboratory for rapid-turnaround (24-hr) analyses, to facilitate review of the investigation results by Argonne and by the CCC/USDA and KDHE project managers during the field program.

At each location investigated, core samples will be collected as the drill is advanced through the first water-bearing zone. At this point, a groundwater sample will be collected with a bailer. An override casing will be advanced to isolate the water-bearing zone. A core barrel (4-in. inner diameter and 6-in. outer diameter) will then be advanced to the next water-bearing zone,

where the procedure will be repeated. Groundwater samples will be preserved and analyzed as described in Section 3.3.1 and Section 3.3.5.

3.3.4 Methods for Installing Monitoring Wells

Monitoring wells will be installed according to the general procedures in Section 6.4.3 of the *Master Work Plan* (Argonne 2002). The boreholes will be drilled by using the sonic rig. The wells will consist of 2-in. polyvinyl chloride (PVC) casing installed in 8.25-in.-diameter boreholes. Screens will be 0.010-in. mill slot, PVC, at the appropriate length for the desired depth. A 10/20 (or #20) filter pack will be used. The filter pack will extend from 1 ft below the screen to 2 ft above the screened interval. A bentonite pellet seal 2-5 ft thick will be installed above the filter pack. A grout mixture of Portland cement with 5% bentonite will be placed, through a tremie pipe, in the annular space between the well casing and the borehole, from the top of bentonite seal to the ground surface.

All wells will be constructed in accordance with KDHE guidelines. Any variances required will be obtained from the appropriate agency prior to installation. All investigation-derived wastes (IDW) will be managed as described in Section 3.3.6. Surface completions will consist of KDHE-approved flush mounts, as shown in the specifications for 2-in. casing in Figure F.4, Appendix F, of the *Master Work Plan* (Argonne 2002). After installation, each well will be pumped and developed as determined by the drilling engineer to be necessary.

3.3.5 Methods for Analyses of Soil and Groundwater Samples

Soil and groundwater samples will be collected in laboratory-approved containers and shipped overnight to the AGEM Laboratory at Argonne. The soil samples will be analyzed at the AGEM Laboratory for carbon tetrachloride and chloroform by using a gas chromatograph–mass spectrometer system, according to U.S. Environmental Protection Agency (EPA) Methods 5030B and 8260B (EPA 1998). Groundwater samples will be analyzed at the AGEM Laboratory according to EPA Method 524.2 (EPA 1995).

Aliquots of a minimum of 10% of the total number of soil and water samples collected will be sent directly from the field to TestAmerica Laboratories, Inc., South Burlington,

Vermont, for verification analysis under the EPA's Contract Laboratory Program. An index of the EPA methods is online at http://www.epa.gov/epahome/index.

Selected soil samples will be tested for soil properties. Tests for soil may include porosity, water content, dry bulk density, total organic carbon, and grain size.

3.3.6 Methods for Handling and Disposal of Investigation-Derived Wastes

The approach to handling and disposal of soil and water IDW is as follows:

- Soil cores collected during sampling will be retained in core boxes for lithologic description and research. The cores will be transported to and stored at an Argonne facility for further reference.
- Soil IDW from drilling activities will be stored on-site in 55-gal drums or a roll-off container. A representative sample will be collected and analyzed by a KDHE-certified laboratory.
- A Solid Waste Disposal Authorization will be obtained from the KDHE for disposal of soil in a permitted landfill. If analytical data indicate that the soils cannot be placed in a permitted landfill, alternative disposal methods will be proposed to the KDHE for review.
- Water IDW will be stored on-site in 55-gal drums or polyurethane containers. If acceptable to the KDHE, the wastewater will be aerated prior to sampling and analysis for VOCs.
- If analytical results for the wastewater indicate concentrations of carbon tetrachloride and chloroform below the MCL values, then the water will be discharged on-site, away from known sensitive receptors. If the analytical results indicate concentrations above the MCLs, then the water will be disposed of at a wastewater treatment facility approved by the KDHE.

3.4 Sampling and Reporting Schedule

The proposed investigation is scheduled for summer 2012, pending successful negotiation of access. The CCC/USDA and Argonne will notify the KDHE a minimum of two weeks before the proposed field activities begin.

A report will be completed and submitted to the KDHE within 90 days after Argonne completes its quality review of the investigational data. The report will follow the guidelines for site monitoring established by KDHE Policy BER-RS-036 (KDHE 2005). Accordingly, the report will include, at a minimum, the following:

- A narrative of work conducted
- Recommendations for further action(s) at this site, if warranted
- Maps depicting sample locations, groundwater flow direction(s), and contaminant levels
- Tables that include all analytical and field data
- Laboratory analytical data reports
- All relevant field documentation
- Quality assurance and quality control data

3.5 Quality Assurance and Quality Control

Procedures necessary to maintain the quality of data will be implemented during all phases of the proposed investigation. Descriptions of the quality assurance and quality control methods are in Section 4 of the *Master Work Plan* (Argonne 2002).

3.6 Health and Safety

A site-specific health and safety plan will be prepared, approved by the Argonne field safety coordinator, and brought to the site for reference during the investigation.

An Argonne health-safety-environmental protection representative will visit the site during field activities to observe, monitor, and report on operations.

The general health and safety plan for use during this project, which is in Section 3 of the *Master Work Plan* (Argonne 2002), addresses all anticipated safety issues for activities at the Sylvan Grove site. Specific emergency information for use at the site is given below.

Sylvan Grove has emergency 911 service. All emergency calls, including police, fire, and ambulance calls, will be directed for an appropriate response from this number. No emergency medical facilities exist at Sylvan Grove. The nearest hospital with emergency medical facilities is in Lincoln, Kansas. Driving directions to the hospital and the map showing the route are in Figure 3.3. Additional emergency information is in Table 3.1.

3.7 Sylvan Grove Contacts

Larry Meitler, Mayor City of Sylvan Grove 118 South Main Street P.O. Box 68 Sylvan Grove, KS 67481 785-526-7188 (office) 785-526-7189 (fax) sylvanch@wtciweb.com

Louis Blasé, Utilities Superintendent City of Sylvan Grove 118 South Main Street P.O. Box 68 Sylvan Grove, KS 67481 785-526-7188 (office) 785-526-7189 (fax) sylvanch@wtciweb.com Rachel Stecklein, City Clerk City of Sylvan Grove 118 South Main Street P.O. Box 68 Sylvan Grove, KS 67481 785-526-7188 (office) 785-526-7189 (fax) sylvanch@wtciweb.com

Tami L. Kerth, Register of Deeds Lincoln County Courthouse 216 East Lincoln Avenue Lincoln, KS 67455 785-524-4657 (office) 785-524-5008 (fax)

Jude Stecklein, Superintendent Sylvan-Lucas Unified School District, USD 299 504 West 4th Street Sylvan Grove, KS 67481 785-526-7175 (office) 785-526-7182 (fax)

3.8 Argonne Contacts

Lorraine M. LaFreniere, Ph.D. Manager, Applied Geosciences and Environmental Management Section Environmental Science Division 9700 South Cass Avenue Argonne, IL 60439-4843 630-252-7969 Iafreniere@anl.gov

Y. Eugene Yan, Ph.D. Sylvan Grove Technical Project Manager Environmental Science Division 9700 South Cass Avenue Argonne, IL 60439-4843 630-252-6322 eyan@anl.gov James Hansen Community Relations Representative Environmental Science Division Argonne National Laboratory 955 L'Enfant Plaza SW, Suite 6000 Washington, DC 20024 202-488-2453 hansenj@anl.gov

Resource	Telephone Number	Name
All Emergencies	911	_
Medical Care	785-524-4403	Lincoln County Hospital ^b 624 North Second Street Lincoln, Kansas
Fire Protection (nonemergency)	_	Sylvan Grove City and Rural Fire District 127 South Main Street Sylvan Grove, Kansas
Police (nonemergency)	785-524-4479	Lincoln County Sheriff 116 North Second Street Lincoln, Kansas
Industrial Hygiene	630-252-3310	Argonne-Industrial Hygiene
Safety	630-988-9706	EVS Division ^c Field Safety Coordinator (Monte Brandner)
	630-252-4878	EVS Division ^c Environmental, Safety, and Health Coordinator (Bill Gasper)
Security	630-252-5737 630-252-5731	Argonne-Operations Security (workdays) (after hours and weekends)
Poison Control	800-222-1222 or 913-588-6633	Mid-America Poison Control Center, University of Kansas Medical Center
Utilities Survey	800-344-7233 800-DIG-SAFE	Kansas One Call, Wichita, Kansas

TABLE 3.1 Emergency information for the investigation at Sylvan Grove, Kansas.^a

^a Post this table in the field operations base.

^b The route from Sylvan Grove to the Lincoln County Hospital is shown in Figure 3.3.

^c Environmental Science Division at Argonne.

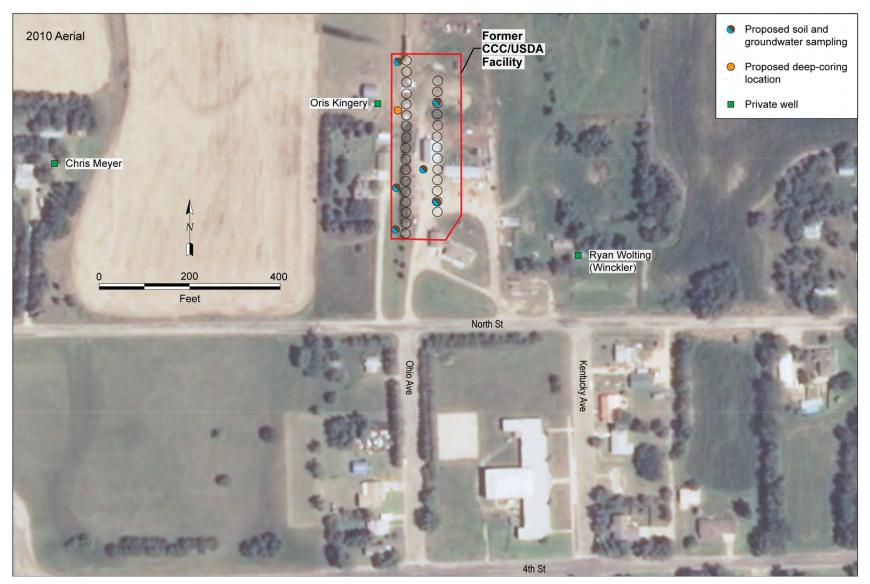


FIGURE 3.1 Proposed Phase 1 soil and groundwater sampling locations at Sylvan Grove. The location of the deep stratigraphic test directly adjacent to the contaminated Oris Kingery private well will enable identification of local stratigraphic units, groundwater-bearing zone(s), and the vertical extent of contamination in the potential source area. Source of photograph: NAIP (2010).



FIGURE 3.2 Proposed groundwater sampling locations for two public water supply wells and a number of private wells (if access is permitted) in the vicinity of the former CCC/USDA facility. Source of photograph: NAIP (2010).

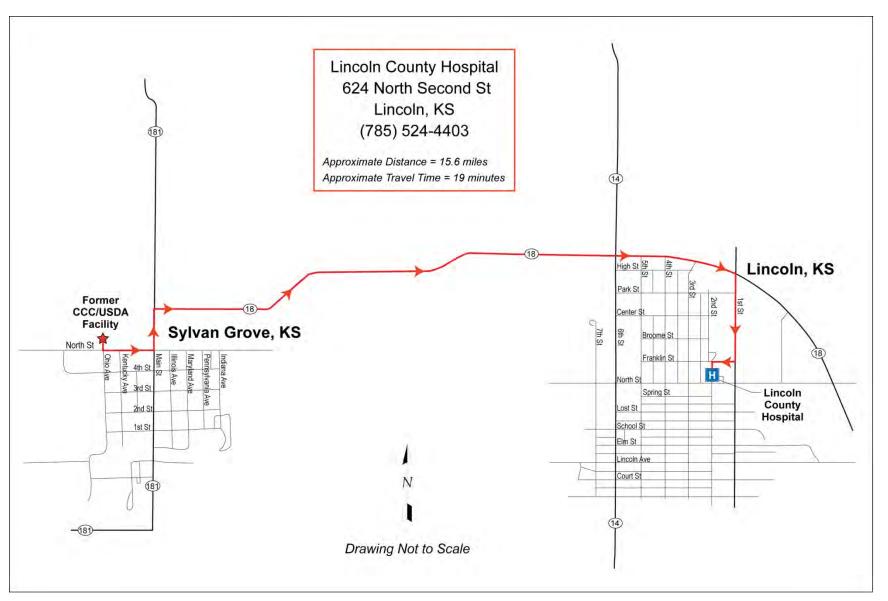


FIGURE 3.3 Emergency route from the Sylvan Grove site to the Lincoln County Hospital, Lincoln, Kansas.

4 References

Argonne, 2002, *Final Master Work Plan: Environmental Investigations at Former CCC/USDA Facilities in Kansas, 2002 Revision*, ANL/ER/TR-02/004, prepared for the Commodity Credit Corporation, U.S. Department of Agriculture, by Argonne National Laboratory, Argonne, Illinois, December.

Berry, D.W., 1952, *Geology and Groundwater Resources of Lincoln County, Kansas*, State Geological Survey of Kansas Bulletin 95, State Geological Survey of Kansas, Topeka, Kansas

Blasé, L., 2012, telephone conversation between Blasé (Utilities Superintendent, Sylvan Grove, Kansas) and J. Hansen (Environmental Science Division, Argonne National Laboratory, Argonne, Illinois), April 25.

EPA, 1995, Method 524.2: Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry, Revision 4.1, edited by J.W. Munch, National Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, Ohio.

EPA, 1998, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, EPA SW-846, 3rd edition, Draft Update IVA, U.S. Environmental Protection Agency, January.

GeoStat, 2011, *Feldkamp Bros. Oil Co. Petroleum Storage Tank Release Trust Fund Monitoring Report, Event 3 of 4*, KDHE project code U5-053-00306, prepared for the Kansas Department of Health and Environment, Bureau of Environmental Remediation, Storage Tank Section, by GeoStat Environmental, LLC, McPherson, Kansas, July.

KDHE, 1998, *Pre-CERCLIS Site Reconnaissance and Evaluation — Sylvan Grove USDA/CCC Site, Sylvan Grove, Lincoln County, Kansas*, P5-053-70463, Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas, August.

KDHE, 2005, *Scope of Work for Site Monitoring*, Policy BER-RS-036, Remedial Section, Bureau of Environmental Remediation, Kansas Department of Health and Environment, Topeka, Kansas, December (http://www.kdheks.gov/ber/policies/BER_RS_036_SOW.pdf).

Meitler, L., 2012, conversation between Meitler (Mayor, Sylvan Grove, Kansas) and J. Hansen and E. Yan (Environmental Science Division, Argonne National Laboratory, Argonne, Illinois), April 19.

NAIP, 2010, aerial photograph of Sylvan Grove, Kansas, ortho_1-1_1n_s_ks105_2010_1, National Agricultural Imagery Program, Field Service Agency, U.S. Department of Agriculture, Salt Lake City, Utah, September 21 (linked at http://www.fsa.usda.gov/FSA/).

USDA, 1957, Aerial Photograph AYQ-ST-70L, U.S. Department of Agriculture, Washington, D.C., June 22.

USDA, 1965, Aerial Photograph AYQ-1FF-258D, U.S. Department of Agriculture, Washington, D.C., October 1.

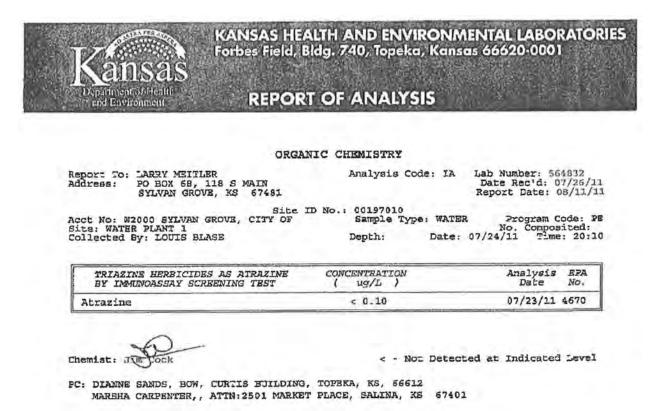
USDA, 1971, Aerial Photograph AYQ-1MM-210D, U.S. Department of Agriculture, Washington, D.C., June 24.

USDA, 1980, Aerial Photograph 20105-180-158TC, U.S. Department of Agriculture, Washington, D.C., July 11.

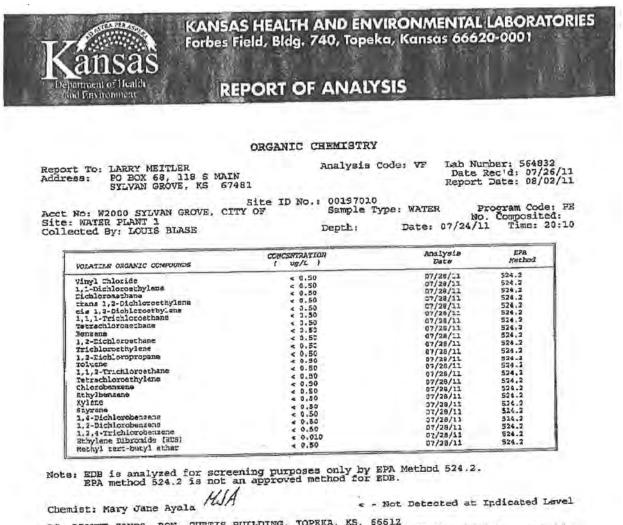
USGS, 1997, Digital Raster Graphics (DRG) UTM NAD 27 of Buhler Quadrangle, Kansas, 7.5 Minutes Series, U.S. Geological Survey, Reston, Virginia.

Appendix A:

Testing Results for the Sylvan Grove Public Water Supply Wells

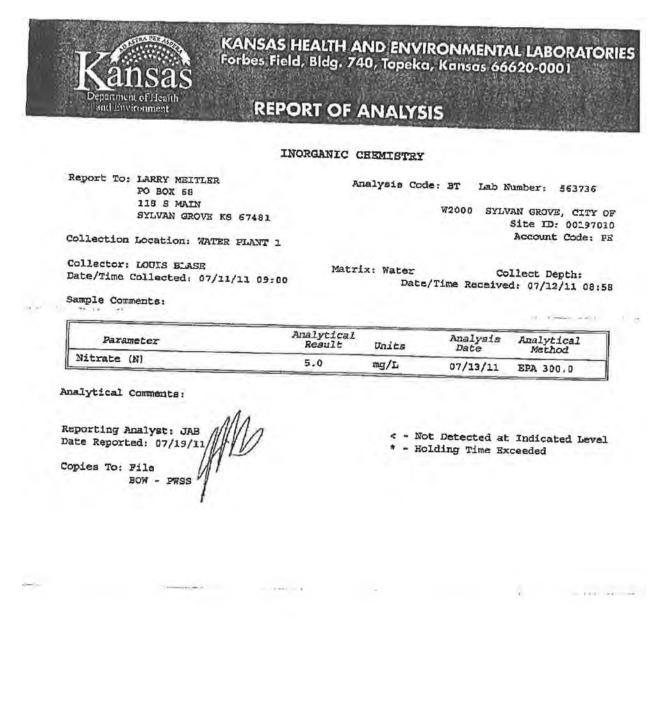


Laboratory Customer Service - (785) 296-1620 Laboratory Fax - (785) 296-1641



PC: DIANNE SANDS, BOW, CURTIS HUILDING, TOPEKA, KS, 66612 MARSHA CARPENTER,, ATIN:2501 MARKET PLACE, SALINA, KS 67401

> Laboratory Customer Service - (785) 296-1620 Laboratory Fax - (785) 296-1641



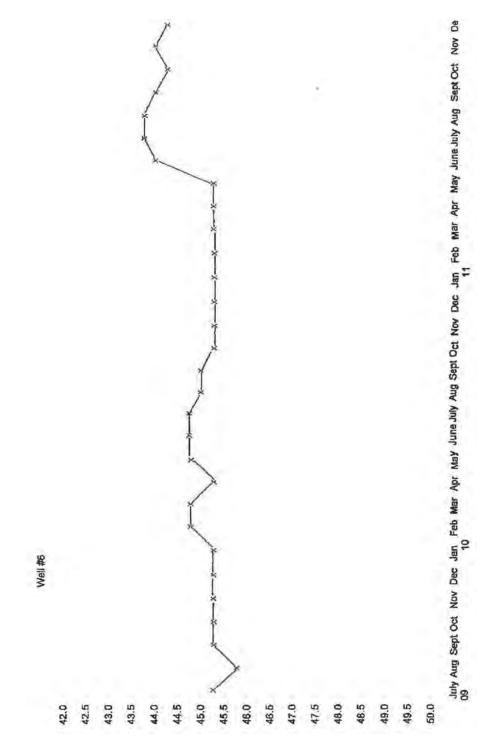
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Dec 2011

City of Sylvan Grove Depth to Water

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June		44' 7"	+2	Highest point
July		44' 8"	-1	
August		45' 0"	-4	
September		45' 0"	O	
October		45' 1"	-1	
November		45' 3"	-2	Lowest point
December	43' 1"	45' 1"	+2	Lowest point
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May		45' 3"	-1	Lowest point
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July		43' 6"	+6	Highest point
August		43' 9"	44	
September		44' 0"	-3	
October		44' 2"	-2	
November		44' 0"	+2	
December		44' 2"	-2	



Appendix B

Water Well Logs for the Sylvan Grove Public Wells and Private Wells in the Vicinity of the Former CCC/USDA Facility

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10.	Q Test of Pump N	feet of tons yards of wall. Did 0.20346	_Q_ inc guaval u yóu use _; geared	h ontside caning used in well. Sin test or permani i head No.	nade of a 1/8"-1/4" ant primp? Part	a Controls River With Sol. Fire Reneat Ranet Ranet	ed, Weislad, Source ed, Weislad, Source ed, Weislad, Source 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
10. 11.	Q Test of Pump N	feet of tons yards of wall. Did 0.20346 Ricco	_Q_ inc guaval u yóu use _; geared	h ontside caning used in well. Sin test or permane i head No power ; vol	nade of a 1/8"-1/4" ant primp? Part	a Controls River With Sol. Fire Reneat Ranet Ranet	ed, Weislad, Source ed, Weislad, Source ed, Weislad, Source S S Stages
10. 11. 12.	Q Test of Pump N Power a	- feet of	Q_ inc gravel o you use ; geared ; horse I sotos Do	h ontside caning used in well. Sin test or permain i head No	nade of a 1/8"-1/4" ant primp? Part	a connects Birst	ed. Weided, Source ed. Weided, Source ed. Weided, Source
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10. 11. 12. 13. 14.	Q I Test of Pump N Power u Size of	feet of tons yards of wall. Did o.20346 sed <u>Elec</u> zectric	Q_ inc graval u you use ; geared tric ; horse I %rtes I %rtes I %rtes I	h ontside caning used in well. Sin test or permain i head No	Armen Siz 23 made of a a a a a ; ratio tage; r. p. n inch. Orifice tak	a connects Birst	ed. Weided, Source ed. Weided, Source ed. Weided, Source 3 Se of Bowl 3 Bases ; pulley diam. ; pulley diam.
10. 11. 12. 13. 14.	Q I Test of Pump N Power u Size of	- feet of tons yards of well. Did o.20346 	Q_ inc gravel o you use ; geared ; forme I soton En 4 in assurement	h ontside caning used in well. Sin test or permani i head No	Armen Siz 24 made of or _1/8*-1/4* int primp? Part ; ratio; r. p. n inch. Orifice tul level:	e controls Birst	ed. Weished. Source connection ed. Weished. Source and Weished. Source and Source palley diam. palley diam. palley diam. palley.
10. 11. 12. 13. 14.	Q I Test of Pump N Power u Size of	- feet of tons yards of wall. Did o. 20346 seed Elec Escure carfice ; test-me Time	Q_ inc graval o you use ; geared tric ; horse I seton to L_ in assurement	h ontside caning used in well. Sin test or permain i head No	Armen Siz 23 made of a	be reading	ed. Weided. Source connection ed. Weided. Source (a) Weided. Source (b) (c)
10. 11. 12. 13. 14.	Q I Test of Pump N Power u Size of	feet of tons yards of wall. Did o.20346 	Q_ inc graval u you use ; geared tric ; hore i soto. b 4_ in asuremen	th ontside caning used in well. Sin test or permain thead No	Armon Siz 23 made of int primp? Part tage; ratio; tage; r. p. n inch. Orifice tuk level: Statio 27_27	be reading	ed. Weissel. Source connection ed. Weissel. Source grad Bowl ; pulley dism iam; r. p. m iam; r. p. m inches. vn Pumping Level 52. 7**
10. 11. 12. 13. 14.	Q I Test of Pump N Power u Size of	feet of tons yards of well. Did o.20346 sed <u>Bloc</u> sed <u>Bloc</u> rest-me Time £ 2200 £ 200	Q_ inc graval o you use ; geared tric ; horse I soon on 4_ in asuremen	h ontside caning used in well. Sin test or permain i head No	Armon Siz 23 made of int primp? Part tage; ratio; tage; r. p. n inch. Orifice tuk level: Statio 27_27	be reading Drawdow 	ed. Weided. Source connection ed. Weided. Source (a) Weided. Source (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
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10. 11. 12. 13. 14.	Q I Test of Pump N Power u Size of	feet of tons yards of wall. Did o.203446 	Q_ inc gravel o you use ; geared tric ; horse I woon to 4_ in asuremen	h ontside caning used in well. Sim test or permain t head No; vol ch, by; vol ch, b,	Armon Siz 23 made of	be reading Drawdow 	ed. Weissel. Source ed. Weissel. Source ed. Weissel. Source (a) Weissel. Source (b) Source (c) So
10. 11. 12. 13. 14.	Q I Test of Pump N Power u Size of	_ feet of tons 	Q_ inc gravel o you use ; geared tric ; horse I woon to 4_ in asuremen	h ontside caning used in well. Sim test or permain i head No	Armon Siz 23 made of	be reading Drawdow 	ed. Weided. Source commection ed. Weided. Source (a) Weided. Source (b) Source (c) So

Sylvan Grove Work Plan Version 01, 05/31/12

7858273029	BWR SALINA F-63	3 T-225 P-005 OCT 21 '98 :
Did you scal bottom of we	1? Yes incl	nes, material
Was well under-reamed ?	Sile From in test to	feet.' '* .
	From feet to	feet.
	From feet to	feet.
If all screen was not place	l at bottom, stats how it was spaced.	
	S feet: from . S.7. feet to JZ feet;	from
	a level to top of plug) <u>60</u> feet _	
	d or between any of the casings?	
If an orota unhant have a	uch and method used	ad the shall of
	of 20 Level	
Ma TE TES		n de les les les les est elles en prises est est est en anné un débét es les les entres de les entres entres en
		an a
Log of well from ground)		PON SERTCH
Post Feet	Permition	
1 to 8	Back Ciewy Clay	
1 to 21	bight Kinning Chay	
21 to 30	Vande Chine	
Contraction and the Address of the state	- Mary Start	2 1 1
30. to 40	- any - lay to trees	
	- Gran Statt Sulled - Auto	
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	Stay CAlls	() A ()
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Sylvan Grove Work Plan Version 01, 05/31/12

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	Did you seal bottom of wal	1? X88 Thickness 1/4 inc	hes, material Steel Plate
	Was well under-reamed ?	No From feet to	feet.
		From feet to	
		Front feet to	
		l at bottom, state how it was spaced.	
		feet; from _57 feet to 52. feet	
	Depth of well (from ground	d level to top of plag)68 fact .	inches.
	Was cement placed around	I or between any of the casings? Tes	1
		uch and method used, 2' around 1	
		<u>.</u>	
	and an a state of the second	••	•
1			2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Log of well from ground i	RI VELA 2 Versiantäun	NUMBER OF STREET
		<u>:8011</u>	
	to	Dark_Brown_Olay	
	8 to		
5	21 to 30	Sandy Clay	
	and an an an and an	Hendy Clay & streaks of	
	to	cemented sand	
		Sand & Gravel with clay by	J. L.St. market
2	<u>49 to 57</u> 57 to 68	Med. to Course Sand & Gran	701
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1	to be determined at the second s		
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LOCATIC	ON OF W/	ATER WELL:	Fraction		1.	Son.		Soct	ion Number	Tow	nship Nu	mbar		Range N	umber
ounty:	Lincol	n	NW	1/4	SE	1/4	SE	1/4	11	т	12	S	P	10	E/N
		n from nearest to					cated with	hin city?							
Appr	oximat	ely { mile					-	_					_		
WATER	WELL O	WNER:	Meyer I	and	& Ca	ittle									
R#, St. A	ddress, B	ox # :	c/o Chi Box 149	is M	leyer					Bo	ard of A	griculture	, Divisio	on of Wate	r Resour
lity, State,	ZIP Code	- 4B	Sylvan	Grov	ve, K	(S 6)	7481			Ap	plication	Number			
LOCATE AN "X" I	WELL'S	LOCATION WITH	4 DEPTH OF Depth(s) Grou WELL'S STAT	Indwate	ar Enco	ountered	1 1					tt.	3		
-	- NW	1.1.1.1	Pu Est. Yieldun	mp tes	data:	Well Well	water wa water wa	s not. c	h'd. fl. aft	er		hours ; hours ;	pumping) 	···· 91
w –	+	E E	Bore Hole Dia WELL WATER 1 Domesi	TO B	E USE		5 PL	ublic water		Air con	ditioning	1	1 Injecti	ion well (Specify	
-	- sw	SE	2 Irrigatio Was a chemic	n	4 In	dustrial	7 La	wn and g	arden only 10	Monito	ring well				
		5	mitted			_			Wate		Isintector	the same in some time to be			
TYPE O	F BLANK	CASING USED:			Wrough			8 Concre	te tile	CAS				Clamp	
1 Stee	el	3 RMP (S	R)	6 /	Asbest	os-Cem			specify below)						
2 PVC		4 ABS	d		Fibergl				********						
		r 5													
YPE OF S	SCREEN C	land surface	N MATERIAL:				.2,36	7 PVC	2		10 Asbo	estos-cer	nent		
1 Stee		3 Stainless	2		Fibergl				P (SR)					******	x 5 4 1 1 4 8 8
2 Bras	SS	4 Galvaniz	red steel	6 (Concre	ta tila		9 AB5	5		12 Non	e used (open ho	(6)	
1426-2016	and a set of the	the start of the s		0.	Concre							o seen (1 10 1 X
		RATION OPENIN	IGS ARE:		ouncro	5 G		rapped		8 Saw	cut			None (ope	n hole)
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1 Con 2 Lou	ntinuous st ivered shu	lot <u>3 M</u> ltter 4 K	IGS ARE: Iill slot ey punched	70		5 G 6 W 7 T	Vire wrap	rapped ped		8 Saw (9 Drilled	cut d holes (specify))	11 1	None (ope	
1 Con 2 Lou	ntinuous st ivered shu	tot 3 M	IGS ARE: Iill slot ey punched From	7,0		5 G 6 W 7 T	Vire wrapj orch cut to	rapped ped 90	fl., From	8 Saw (9 Drilled 10 Other	cut d holes (specify)) , n	11 1 to.	None (ope	
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1 Con 2 Lou CREEN-PI	ntinuous sl wered shu ERFORAT	lot <u>3 M</u> ltter 4 K	IGS ARE: IIII slot ey punched From From	,) 	5 G 6 M 7 T ft. t ft. t	Vire wrap orch cut to to	rapped ped 90 50	11., From 11., From	8 Saw (9 Drilled 10 Other	cut d holes (specify)	11 1 to to	None (ope	
1 Con 2 Lou CREEN-PI GI	ntinuous st wered shu PERFORAT RAVEL PA	tot 3 <u>M</u> Itter 4 K FED INTERVALS: ACK INTERVALS:	IGS ARE: iiii slot ey punched From From From	,)	5 G 6 M 7 T ft. t ft. t ft. t	Vire wrap orch cut to to to	rapped ped 90	ft., From ft., From ft., From ft., From	8 Saw (9 Drilled 10 Other	cut d holes (specify)	11 1 to to to to	None (ope	
1 Con 2 Lou CREEN-PI GI	Nored shu PERFORAT RAVEL PA	tot 3 <u>M</u> titter 4 K FED INTERVALS: ACK INTERVALS:	IGS ARE: iiii slot ey punched From From From From Cerment	7,0)	5 G 6 W 7 T ft. t ft. t ft. t ft. t	Vire wrapp forch cut to to to	rapped ped	fl., From fl., From fl., From fl., From site 4 C	8 Saw (9 Drilled 10 Other	cut d holes (specify Bentor) h. h. h. fi. fi. 	11 1 to to to lo to.l.ep.	None (ope	
1 Con 2 Lou CREEN-PI GI GROUT irout Interv	ntinuous sl Ivered shu ERFORAT RAVEL P/ MATERIA vals: Fro	Inter 3 M Itter 4 K FED INTERVALS: ACK INTERVALS: Intervals: ACK INTERVALS:	IGS ARE: till slot ey punched From From From From from	7,0 30 63 2 C)	5 G 6 W 7 T ft. t ft. t ft. t ft. t	Vire wrapp forch cut to to to	rapped ped	11., From 11., From 11., From 11., From 11., From 11., From 11., 70 11., 70 11	8 Saw (9 Drilled 10 Other 	cut d holes (specify Bentor From) h h h h h h h	11 1 to to to to to to to tt.	None (ope lug to 6.	3
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1 Con 2 Lou CREEN-PI GI GROUT GROUT Arout Interv Vhat Is the 1 Sep	Normal States St	tter 4 K TED INTERVALS: ACK INTERVALS: ACK INTERVALS: ACK INTERVALS: ACK INTERVALS: ACK INTERVALS: A Later	IGS ARE: till slot ey punched From From From From comment ft. to contamination: ral lines	7,0 30 63 2 C) ement . ft., 1 7 1	5 G 6 W 7 T. ft. t ft. t grout From	Vire wrapp forch cut to to to	rapped ped	11., From 11., From 11., From 11., From 11., From 10., 30. 10. Livesto 11. Fuel st	8 Saw 6 9 Drilled 10 Other Other	cut d holes (specify Bentor From) ft. ft. ft. ft. ft. ft. ft. ft. ft. ft. ft. ft. ft. ft. ft. ft. 	11 1 to	None (ope lug to 6. oned wate l/Gas welt	3r well
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1 Con 2 Lour CREEN-PI GROUT frout Interv Vhat is the 1 Sep 2 Sew 3 Wat	Intinuous sl Invered shu ERFORAT RAVEL PA MATERIA vals: Fro nearest s bitic tank ver lines tertight set	tter 4 K TED INTERVALS: ACK INTERVALS: ACK INTERVALS: ACK INTERVALS: ACK INTERVALS: ACK INTERVALS: A Later	IGS ARE: till slot ey punched From From From From cement ft. to contamination: ral lines pool	7,0 30 63 2 C) ement ft, i 8 :	5 G 6 W 7 T. ft. t ft. t grout From	Vire wrapj orch cut to to to 0 r lagoon	rapped ped	11., From 1., From , It.,	8 Saw (9 Drilled 10 Other Diher	sut d holes (specify Bentor From) ft. 	11 1 tot	None (ope lug to 6. oned wate l/Gas welt	3 r well
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1 Con 2 Low CREEN-PI GI GROUT frout Interv /hat is the 1 Sep 2 Sew 3 Wat birection fr FROM 0	Normal States St	tter 4 K TED INTERVALS: ACK INTERVALS: ACK INTERVALS: AL: 1 Neat of the second se	IGS ARE: till slot rey punched From From From From cement ft. to contamination: ral lines a pool bage pit LITHOLOG) ement ft, f 8 : 9	5 G 6 W 7 T. ft. t ft. t ft. t grout From Pit privy Sewage	Vire wrapp orch cut to to to 0 v Hagoon rd	rapped ped 90. 	11., From 11., From 11., From 11., From 11., From 10. Livesto 11. Fuel st 12. Fertiliz 13. Insecti- How many	8 Saw (9 Drilled 10 Other Diher	cut d holes (specify Bentor From age) fi fi hite H 50 14 15 16 Non	11 1 to	None (ope lug to 6, oned wate l/Gas well specity be gwn	3 r well
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INSTRUCTIONS: Use typewriter or ball point point

KGS--Water Wells Query Answer--Scan of WWC5 Form

KGS	Woter Well Database	Scan of WWC5 Form	
Hydrology	Query		

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Kansas Geological Survey

Comments to webadmin@kgs.ku.edu

URL=http://www.kgs.ku.edu/Magellan/WaterWell/index.html

Display Programs Updated July 29, 2004

Data added continuously.

Page 1 of 1

KGS--Water Wells Query Answer--Scan of WWC5 Form

KGS	Water Well Database	Scan of WWC5 Form
Hydrology	Query	Scan of wwwc5 Form

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Kansas Geological Survey Comments to webadmin@kgs.ku.edu URL=http://www.kgs.ku.edu/Magellan/WaterWell/index.html Display Programs Updated July 29, 2004 Data added continuously.

Page 1 of 1

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	OWNER: Bud I			67/01						5
R#, St. Address		in Grove,	Kansas	0/481				0	Division of Wate	Resour
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KGS--Water Wells Query Answer--Scan of WWC5 Form

KGS	Water Well Database	Scan of WWC5 Form
Hydrology	Query	

1 LOCAT		1.	TUTTET FILLE THE SOUTH	I will street	tion Number	Township Nur	This I Day	os Number
	Linco	TER WELL: FINCE	W SE W NU	11 500	12	Township nu		10 END
County	LINCO	-1 I C	W. SE W ML	d mile mod	12	LIA	9 1 M	10 000
Darwa	and drecuo	them meaning town or cery i	Deed account of west a sociale	o warne ceyr				
00	C 54	le of Sylun	1 Grave					
WATE	A WELL D	WHEN: Taby Myer	>					
		an : portar	A. Antina				nculture, Division of	Water Nosources
City, State	e, ZIP Cede	ons	HOF COMPLETED WELL	700		Application	NUTDER.	
AN 'X	WELL'S	N BOX	H OF COMPLETED WELL,	88	. R ELEVA	DON:	h	1111 (111) (111)
• F			TATIC WATER LEVEL . 44					
1 1	1	1	Plano level data: Wall wate					
	NW	NE Eat Yold		was		tar	hours outpoint	
	X	Drug Hirde	Diameter			end.	10.10	R.
w -	1		ATER TO BE USED AS!			8 Air conditioning	11 Intection w	
8 1	- i	1 1 00		6 OR field war		9 Dewatering	12 Other (Spe	ctly below)
	5W	and the second sec				Q Monitoring well .		
	1.1.1		emital bacenological sample s					
,		booim ited			We	er Well Dishifected	Y Yes h	ġ.
TYPE	OF DI ANK	CASINO USED:	5 Wrought iron	8 Concre	etile etile	CASING JOIN	TS: Cound	lamped
1.51		3 RMP (SR)	5 Asbestoe-Cement	g Other	(specify below		Welded	and the second
AP		4 ABS	7 Fiberolasa			*********	The baded, Law	
Mank can	ing diameter	5. 5. 10. 50.	t. Dis.	in to		ft. Dia		
Casino ha	events stove	and surface	h. Dia	DRRI	IDs.1	. Wall INcluses or	gauge No.	
		R PERFORATION MATERI	AL:	X PVI	C	10 Asber	Wiemeo-eost	
1 51	teed	3 Stakniose steel	5 Fibergiase	8 POM	P (SR)		(specify)	or a contraction
2 Br	rials	A Galvanized steel	8 Concrete Ne	9 AB	5	12 None	used (open holy)	
SCREEN	OR PEAFO	RATION OPENINGS ARE:		bogasw ba		B Saw OUI	11 None	(open hole)
1 00	onthuous sh	N 3 Mill alot	6 Wret			Drifled hotes		
2 60	une benewuo	ter 4 Key pünchei	7 Torch	CL8		10 Other (specify)		
SCREEN	PERFORAT	ED INTERVALS: From.	100		Pron		1. 10	A. eresses
		From.	·····		ft., Fron	A	Las. R. 10	Acressiant
	GRAVEL PA	CK INTERVALS: FIORA.	100 h 10.	. Q.C.	····· R. Fron		···· R. W	Me
-		From	n to		R, Fran	1	N. 10	<u>n</u>
GROUT	T MATERIA	L: 1 Nest comunit	2 Cement grout	X Danio	oite 4		astrest. above	
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What is th	to motered a	eximalines eld(asoq to actuo	tion:		10 1,34038	odk perili	14 Abandoned	Water well
1 50	aptic tank	4 Lateral Rives	7 Pe povy		11 Fuels		15 Ol well'Gas	
	ewer ines	5 Cese pool	6 Dewnge logo	805		egained test	18 Othor (speci	
		ver lines & Seepege pil	9 Feedyard				************	11111111111
	from well?			I control	HOW THAT	y foot?	GGING INTERVAL	
FROM		CONT UTHOR	OGIC LOG	FROM	TO	ru	GONG MICHYAL	
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45	60	Kal & WANEC	141			- 1		
60	80	Blue shally						
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_ دی								
CONT	RACTORS	ЭН КАЛОДИНЕН'S СЕЯТИ	FICATION: This water well wi	us ACconstruct	eted, (2) reco	nationational, per (3) pilo	oged under my juris	diction and was
COX ompteted	RACTOR'S on (moldary	SA LANDOWNEA'S CEAT	FICATION. This water well wa	us Alt construct	ted, (2) reco	nstructined, or (3) plu d is true to the typy	ggod under my juria ci_my kggwledge to	diction and was d ballet, Kanasa
Neider Venil	3 Contractor	a License No. EXC.	FICATION: This water well w This Water W	ell Pecord way	a completed d	 (rry yet/com) as 	A CONTRACTOR OF A	diction and was d belief, Kanasa
Voder Virpil	Contractor	a Licenso No 600	water CAPH O	ell Pecord was	by (signat	(mortegy) .1	21	10.000.000
right Vigil	Contractor	a Licenso No 600	FICATION. This water well water This Water W ENGLIS CURL D INTERVIEW of DINI COMPANY	ell Pecord was	by (signat	(mortegy) .1	21	at data ta data da la

Kansas Geological Survey Comments to webadmin@kgs.ku.edu URL=http://www.kgs.ku.edu/Magellan/WaterWell/index.html Display Programs Updated July 29, 2004 Data added continuously. Page 1 of 1

	L: Fraction		Sect	Ion Number	Tow	nship Nu	mber		Range N	umber
ounty: Lincoln	SW		1/4	13	т	12	S	1	1 10	0011
stance and direction from nea			within city?							
1/4 Mile South										
WATER WELL OWNER:							-			Sec. 1
	Rt 2, Box 51								on of Wate	ar Resou
ilty, State, ZIP Code :	Slyvan Grove	e, KS 67481			Ap	plication				
LOCATE WELL'S LOCATION AN "X" IN SECTION BOX:										
Net it in out only both		ndwater Encountered 1								
		IC WATER LEVEL 3								
NW NE-	Pu	mp test data: Well water	was	anne ft. al	fler	on inter	hours p	umpin	9	
		-2.0 gpm: Well water meter								
w			Public water		B Alr cond				lon well	141610
	1 Domesti	1 5 TH F 1 1 7 1 1 1 1	Oil field water		9 Dewate	a			(Specify I	halow
SW SE -	2 Irrigation		Lawn and ga							
	and the second sec	al/bacteriological sample su								
	mitted	and a series of the series of		and the second sec	ter Well Di				No	P.D. 11402 3
TYPE OF BLANK CASING U		5 Wrought Iron	8 Concre						Clamp	bad
	RMP (SR)	6 Asbestos-Cement		specily below						
2 PVC 4 A	and the set of the set	7 Fiberglass	10.100							
lank casing diameter	in. to 1.1		in. to .			a		. in. to		
asing height above land surfac			37	lbs./	ft. Wall this	ckness of	gauge	No	.2.1.4.	
YPE OF SCREEN OR PERFO			7 PVC			10 Asbe				
1 Steel 3 S	stalniess steel	5 Fiberglass	8 RM	(SR)		11 Othe	r (specify	1)		
2 Brass 4 G	alvanized steel	6 Concrete tile	9 ABS			12 None	used (c	pon h	010)	
CREEN OR PERFORATION C	PENINGS ARE:	5 Gauzed	wrapped		8 Saw o	tut		11	None (ope	n hole)
1 Continuous slot	3 Mill slot	6 Wire w	apped		9 Drilled	i holes				
2 Louvered shutter	4 Key punched	7 Torch c			10 Other				******	
CREEN-PERFORATED INTER	WALS. From	116 11								
	all state of the state state	11,6., ft. to		100 C						
	From	ft. to		ft., From	n		, ft,	to		
GRAVEL PACK INTER	From	ft. to 25 ft. to		ft., From	n n		ft.	to		
	From IVALS: From From	25 ft. to It. to	1.36	ft., From ft., From ft., From	ח ח ח		ft. ft. .t.	to to to		
GROUT MATERIAL: 1	From IVALS: From From Neat coment	25 ft. to It. to 2 Cement grout	1.36 3 Bentor	tt., Fron tt., Fron tt., Fron	ກ ກ ກ Other		ft. ft. 	to to to		
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GROUT MATERIAL: 1 irout Intervals: From. 5 /hat is the nearest source of po 1 Septic tank	From RVALS: From From Neat coment ft. to25 ossible contamination: 4 Lateral lines	2 Cemeril grout ft. to 2 Cemeril grout ft., From 7 Plt privy	3 Bentor		m Other , ft., I tock pens storage	From	ft. ft. 14 .15	to to to to to to to to to to to to to to	to oned wate	r well
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Appendix C:

Property Records

Eldor Hillmer and Doris Hillmer		This inst day of Ju	KANSAS, COUNTY OF LING rument was filed for record o ly	n the 1st	
(husband and wife) TO		at 2:30 of Deeds, at 1	o'clock P M., and duly re Page 272		
Narold and Melinda Panzar			Uadathy	astellegister of Deeds.	
(husband and wife)		By		Deputy	
THIS INDENTURE, Made this between		day of A	pril	, A. D., 19 54	
Eldor Hillmer and Dors	County, in the		is i	, of the first part,	
and Harold Parger and Meld			-		
of Lincoln of survivorship and not as tenants in com	County, in the amon, of the secon	d State of Kansas d part:	, as joint	tonants with the right	1.
WITNESSETH, That said partie	of the first p	art, in consideration	of the sam of	0011105	
One dollar and other con the receipt whereof is hereby acknowled accord part and the murvivor of them all and State of Kansan	ged, do by	r these presents, gran ribed REAL ESTAT	and it bargain, sell and convey a E, situated in the County of	DOLLARS, 105 Into said parties of the Lincoln	
Paul of the Southeast Dias	rtar (SET) of S	Section-Eleven (:	11), Township Twelve (12), Range	
Ten (10), West of the Sixi metes and bounds as follow Beginning at a point av Sa Quarter (SE2), thence nort west 85 feet; thence nort	to with action line 85 th 30 feet; the	1.2 west of the s ence west 47 feet	southeant corner of sa	id Southeast et; thence 37.5: Wence	
west 18] feet to place of conveyed, and now of reco School District #28, Mines	beginning, ex	r subject to an a	any mineral rights pr savement and right of	way of	
namor seruras lies) arma		and the states	and the second second		
TO HAVE AND TO HOLD TH (hereunto belonging or in anywise appe	E SAME, Togetha	er with all and singul	ar the tenements, hereditain aurvivor to take the whole	onts and appurtenances	
(hereunto belonging or in anywise appe And said grantor s ,	rtaining, forever, .	as joint tenants, the	survivor to take the whole	estate.	
(hereunto belonging or in anywise appendix and said grantor s , for themselves , their heir with aid part, 'S of the second part own right, of an absolute and indefeas	rtaining, forever, s, executors, and , that at the delive ible catate of inhe	as joint tenants, the administratore, do ry of these presents ritance, in fee simple	aurvivor to take the whole hereby covenant, pro- they are lawfully a of and in all and singular and and us incombard of	estate, mise and agree, to and y seized in their the above granted and and from all former and	
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<form> THE INCENTURES AND THE 251 and April A.D. 1900 Bergene HAROLD F, PANZER and MELINDA FANZER, busband and wife, </form>			
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Deginning at a point on Section 11, thence Bast 333 feet to the South as follows: Break Social Inter South 1337, beet the thence West 333 feet to the South 1337, beet to the South Inter South 1337. Break Thence West 333 feet to the South at South 1337, beet to the South Inter South 1337, beet to the South 1337, be		second part and the survivor of them all the followin	is described REAL ESTATE, situated in the County of Lincoln
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of said Section 11; thence North 1337,5 feet; thence Near 532, the the bound has a contrary, being in the control county, Kansas: External county, Kansas:		South, RANGE TEN (10), West of the	oth P.M., described by metes and bounds as follows.
beginning, in Lincoln County, Kansas: A checke hast 5.33 feet to the point of EXCEPTING from the above described tract the following tract described by meth side of the second set of the following tract described by meth side of the following tract of said Section 11, thence Morthwest on a 45 degree angle, the high side of the following tract of said side of the following tract described by meth side of the following the		of said Section 11: thence North 13	27 5 Foot due rect west of the southeast corner
LALEDTING From the above described tract the following tract described by method and bounds are following at a point on Section Line S31 feet West of the Southeast corner of the fourth at tight manes due North 34 feet; thence North west at right angle 56 feet; thence South at tight menes due North 34 feet is North of the North limit of shift, thence Bast along the North limit of said Highway; thence East along the North limit of said Nighway to the point of beginning at a southway; thence East along the North limit of said Highway; thence Bast along the North limit of said Highway; the point of beginning at a southway is the cost of the North limit of said Highway; thence Bast along the North limit of said Highway; the point of beginning at a southway is the North limit of said Highway; the point of beginning at a southway is the point of beginning at a southway is the point of beginning at a southway is the point of beginning at a southway; thence Bast along the North limit of said Highway; the point of the North limit of said Highway; the point of beginning at a southway is the point of beginning at a southway is the point of beginning at a southway; thence Hast along the North limit of said Highway; the point of beginning at a southway; thence Hast along the North limit of said Highway; thence Bast along the North limit of said Highway; thence Hast along the southway; thence Hast along the North limit of said Highway; the southway; thence Hast along the southway; thence Hast along the Hast along the Hast along the southway; thence hast along the southway; thence hast along the Hast along the southway; thence hast along the Hast along the southway; thence hast along the hast alon		beginning, in Lincoln County Vanca	ion ii, thence hast 333 feet to the point of
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Miscellaneous Record

payable by the Lessor if the lease is secured or made through a bona-fide agent maintained by the Lessor for the purpose of leasing or selling his property. COMMODITY CREDIT CORPORATION, LESSEE By John H. Becker Chairman, Lincoln ASC County PAUL G. WINCKLER, Lessor Committee. The lessor berein stated acknowledges and agrees that he has or will collect from Harold Panzer, previous lessor, the sum of \$50.00 paid by the lessee atated herein to Harold Panzer in consideration for lease of this property from May 1, 1960 thru April 30, 1961 and that this money collected shall be the rental consideration to the lessor stated herein for the period shown above. ACKNOWLEDGMENT I W. A. Buzick, do hereby certify that Paul G. Winckler & John H. Decker, to me known to be the person (or Persons) who executed the foregoing instrument, personally appeared before me and acknowledged that he (she or they) executed the same as his (her or their) free act and deed and, in case said instrument was executed on behalf of a corporation, that he (she or they) as was (were/duly authorized by the Board of Directors of said corporation to execute the said instrument on behalf of said corporation and to affix the corporate seal thereto. Given under my official hand and seal this day of July 26th, 1960. My commission expires January 23rd-1962. W. A. BUZICK Notary Public (SEAL) Filed for record in Miscellaneous Book L, on Page 187. July 29, 1960, at 8:20 AM. Keith Wiegert Register of Deeds. By Edus Uislan Opuly Deuty Commodity Credit Corporation Form 297 (6-1-56) U. S. DEPARTMENT OF AGRICULTURE COMMODITY STABILIZATION SERVICE COMMODITY CREDIT CORPORATION COUNTY STTATE Kansas SERIAL NO. 49-053-37 SEVERANCE AGREEMENT WHEREAS, DANIEL N. CROMWELL, of Vesper, Kansas, County of Lincoln. St Kansas, hereinsfter called the "Borrower" has applied to the Commodity Gredit tion for a loan or for the guarantee of a loan for the purpose purchasing ad or constructing the following storage structure, to-wit: grpore and erecting TYPE KIND (Wood, Steel, Etc.) Round, movemble (Butler) Corrugated Steel CAPACITY ishels or Tons) 5,100 on the following described real estate situated in the Coup of Lincoln, State of Kanses: NW/4 8-12-8 ot building. Whereas the borrower has agreed to pive Commodity redit Corporation or its approved lending agency a mortgage lien on said storage recture: : and Now, Therefore, the parties hereto do cover it and agree that such structures and equipment: 1. Shall remain severed from seid real estate, end, 2. Even if attached to the realty, shall retain their personal charater. shall be removerable from the real ostate. shall be treated as personal property with respect to the rights of the un ties, and shall not become fixtures or a part of the real estate; end, 3. Shall not be subject to the lien of any accurity transaction or instrument heretofore or hereafter arising egainst the structure or realty on which it is placed until, ne expiration of Commodity Corporation's Lien and any extension or renewall thereof; and, (a) 0.001.000 (b) Until repayment of said losn. 4. Shall. if acquired by Commodity Credit Corporation through foreologura or other means, at the option of Commodity Credit Corporation remain on the above described real estate for a period not to exceed six (6) months after the date of acculation by Commodity Credit Corporation at no excense to Commodity Credit Corpor-IN HITNESS WHEREOF, the undersigned have executed these presents on the dates immediately below their respective signatures; DANTET M. CROMWELL. Date: 7-25-60 FTORRNCE E. CROMWELL Date: 7-25-60 (owner) 7 (signature of borrower) NOTA CROMWELL. Date: 7-25-60 (simature of horrowers spouse)

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13466034/62-46	U.S. DEPARTMENT OF AGRICULTURE COMMODITY STABILIZATION SERVICE
1.	COMMODITY CREDIT CORPORATION
	LEASE OF PROPERTY
Paul G. Wi Lessee.	THIS LEASE, made entered into this day , 19 , by and between nckler of Sylvan Grove, Kansas Lessor, and Commodity Credit Corporation,
15.15	WITNESSETH THAT:
the Lesson real estat State of K	1. The Lessor leases to the Lessoe, and the Lessee hereby leases from , upon the terms and conditions berinafter stated, the following described e (hereinafter called "property") situated in the County of Lincoln and ansas.
Range 10 t east 153 t	Part of the SE4 11-12-10 west of oth Principal Meridian. Behinning at a ection line 1201.2 feet west of SE corner of SE4 of Section 11, Township 12, bence north 164 feet to SW corner of Bin Site thence north 408 feet thence bence south 358 feet thence southwest to a point 120 feet east of beginning ce west 120 feet to point of beginning with a driveway from public highway. cohtaining 2 acress more or less.
analy non	2. The term of the lease shall be for aperiod of 15 years, commencing the f May 1960, and ending the 30th day of April, 1974, with the right of the ring such term or any extension thereof, to terminate said lease, and limb- any further rent, on the 30th day of April of any year, by giving 60 days' of the second seco
	3. As rent for said property, the Lessee shall pay the Lessor Fifty Dollars er year, such rent to be payable in advance, but to be apportionable in the lease is terminated as provided in paragraph 2 hereof.
	4. The Lessor warrants that he is the owner of the property, has the live the Lessee possession under this lease, and will, so long as this lease effect, warrant and defend the Lessee's possession against any and all omsoever.
or upon th	5. The Lessee shall have the right, during this lease, to erect storage or facilities, make alterations, install scales, fences, or signs, in e premises hereby leased and, at the explantion of said lease or any extension thereof or at any time this lease is in effect, may remove ge structures, facilities, scales, fences or signs or any part thereof, not such structures, facilities, scales, fences or signs have become fixture.
hedeunder.	5. The Less e shall not assign this lease without the written consent of The Lessee, may, however, sublet the structures on the premises leased or any one or more of them for the term of the lease or any part there- th terms and conditions as Leasee may wish to do sublet.
and damages excepted: 1 That if the	7. The Lessee, if required by the Lessor, shall, upon the expiration of restore the premises to the same condition as that existing at the time supon the same under this lease, reasonable and ordinary wear and tear is by the elements or by circumstances over which the Lessee has no control rovided, however, t Lessor requires such restoration, the Lessor shall give written notice the Lesseé 60 days before the termination of the Lesse.
of this les is hereby	3. The Lessor grants and gives the Lessee the option as a consideration use and for the further consideration of the dollar, the receipt of which ucknowledged, to renew said lease for a period of 5 years from the Lessor, executors, administrators, and assigns, for the sum of Pifty Dollars
the Leaste property for sum of to.purchase of title, of to execute	As a consideration of this lease and for the further consideration of the receipt of which is hereby acknowledged, the Lessor grants and gives the option, at any time while this lease is in effect, to purchase said one the Lessor, his heirs, executors, administrators, and assigns, for the Dollars (\$). In the event the Lesse shall exercise this option said property, the Lessor agrees to furnish at his own expense an abstract certificate of title, or other evidence of title satisfactory to CCC and a good and sufficient warranty deed conveying fee simple title to said recent of all taxes, liens, or encumberances except for the following, rs.
on by the I ward by the	0. In the event any increased tax assessment is made against the Lessor erty by virtue of the erection of storage structures and facilities there- essees the Lessor agrees that the rental hereunder shall be adjusted up- amount of any such increased tax assessment which the Lessor and Lessee ree to be proper or which is determined to be legally valid in court
De admitted	1. No member of or Delegate to Congress or Resident Commissioner, shall to any share or part of this lease or purchase or to any benetit that herefrom, but this provision shall not be construed to extend to this rchase if made with a corporation for its general benefit.
or secure the contigent for the secure the s	2. The Lessor verrents that he has not employed any person to solicit his lease upon any agreement for a commission, percentage, brokerage, or ee and that no such consideration or payment has been or will be made. his warranty shall give GOC the right to annul the lease, or, in its to deduct from the rental or purchase price the amount of such commission, brokerage, or contigent fees. This warranty shall not apply to commissions

Lincoln County, Kansas

	Lincoln County, Kansas
	benefit. 12. The Lessor warrants that he has not employed any person to solicit or secure this lease upon any agreement for a commission, percentage, brokerage, or contingent fee and that no such consideration of payment has been or will be made, Breach of this warranty shall give CCC the right to annul the lease, or, in its discretion, to deduct from the rental or purchase price the amount of nuch commission, percentage, brokerage or contingent fees. This werranty shall nuck apply to co, isions payable by the Lessor if the lease is secured or made through a bons-fide agent maintained by the Lessor for the purposes of leaseing or selling his property.
178	(SEAL) HAROLD PANZER CONMODITY CREDIT CORPORATION, LESSEE (SEAL) By ORAL L. MYERS Vice-Chairman, Lincoln County ASC Committee
	(To ^{be} oproduced in ASG State Office) State of Kansas, Lincoln County, ss. This instrument was filed for record at 0:20 May 26, 1954 A.M. Recorded in Book 23-P-212. P.E. Grimes, Register of Deeds.
	This Instrument was released from Chattel Mortgage Records this 14th day of April, A.D. 1959, and refiled in Miscellanous Records, Book L, Fage 28, st 11:05 A.M. and indexed to the land. Keith Wiegert Register of Deads
- Juni	EXTENSION OF LEASE (7-GR) This extension of Lease made and entered into this 20 day of March, 1959, by and between MAROLD PANZER, hereinafter called Leaser, and COMMODITY CREDIT CORPORATION, hereinafter called Lease.
11:05 A.P. 2011	MITHESSETH, Whereas, the parties hereto have heretoford entered into a certain lesse dated May 1, 1954, wherein the Lessor lessed to the Lessee the following described property: PART of the SE ¹ 11-12-10 WEST of 6th PRINCIPAL MERIDIAN. Beginning at a point on section 11-12-10 thence North 164 fect to Southwest corner of SE Querter of Section 11-12-10 thence North 164 fect to Southwest corner of Bin Sits thence North 408 feet thence East 153 fest thence South 350 feet thence Southwest to a point 120 feet East of beginning place thence Most 120 feet to point of beginning. With a driveway from public highway to Bin site. Containing 2 Acres more or Less. For a term endind April 30, 1959, and
.D. 1959, at 11	WHEREAS, it is desired by the parties herato to 'extend the seld lesse for an additional term under the same terms and conditions: NOW THEREFORE, it is mutually understood and agreed by and botween the parties hereto as follows: (1.) The said lease is hereby extended for an additional term beginning May 1, 1959, and ending April 30, 1969.
of April, A	(2). Leasors grant and give to the Leases the option of further renewal of the lease for an additional period of five (5) years ending April 30, 1971, under the same terms and conditions of the lease as extended herein provided the lesses gives the Lessors written notice to renew at least thirty (30) days prior to the time the lease, as extended, would otherwise expire.
this lith day	IN WITNESS WHEREOF, the parties hereto have executed this extension of lesse on the day first above written. <u>HAROLD PANZER</u> COMMODITY CREDIT CORPORATION <u>MALINDA PANZER</u> By JOUNT H. BECKER
record	NOTE: it is necessary to have the above agreement acknowledged and recorded.
Filed for	I, W.A. BUZICK do hereby cortify that HANOLD FANZER, MALINDA PARZER, JOHN H. BRCKEN, to me known to be the person (or persons) who executed the fore- going instrument, personally appeared before me and acknowledged that he (she or they) executed the same as his (her or thair) free act and deed and, in case maid instrument was executed the same as his (her or their) free act and deedand, in case said instrument was executed on behalf of a comporation that he (she or they) as (insert name of officer(s), and his (her or their)
	official titles; (nemo of corporation) by the board of directors of said corporation to execute the said instrument on behalf of said corporation and to affix the corporate scal thereto. Given under my official hand and seal this day of March 20, 1959. My convaision Expires January 23, 1962. W.A. DUZIOF (CEAL)

Miscellaneous Record CL Form-58 (h-2-5h) Bin Site # 1. U. S. DEPARTMENT OF AGRICULTURE AGRICULTURE STABILIZATION AND CONSERVATION COMMODITY CREDIT CORPORATION LEASE OF PROPERTY THIS LEASE, made and entered into this <u>1</u> rat day of <u>May</u>, 1954, by and between <u>MAROLD PANZER</u> of Sylvan Grove, Kanzas, lessor, and Commodity Credit Corporation, Lessee. WITNESSETH THAT: 1. The Lessor lesses to the Lessee, and the Lessee hereby lesses from the Lessor, upon the terms and conditions hereinsfter stated, the following described real estate (hereinsfter called "property") altasted in the County of Lincoln and state of Kanaad: PART of the SS\$ 11-12-10 west of 6th Principal Meridian. Beginning at a point on section line 1201.2 feet woat of SE corner of SB\$ of Section 11-12-10 thence north 164 feet to SM corner of Bin Site thence north 408 Feet thence east 153 feet thence south 356 feet thence southwest to a point 120 feet east of beginning place thence west 123 feet to point of beginning with a driveway from public highway to Bin Site. Containing 2 acres more or less. 2. The term of the lease shall be for a period of 5 years, commutating the lease of May, 1954, and ending the 30th day of April, 1959 with the right of the Lessee, during such term or any extension thereof, to terminate said lease, and liability for any further roat, on the 30th day of April of any year, by giving 60 days' provious notice in writing to the Lessor. 3. As roat for said property, the Lasses shall pay the Lessor Fifty Dollars (\$50.00) per year, such reat to be payable in advance, but to be apportionable in the event the lesse is terminated as provided in paragraph 2 hereof: 4. The Lessor warrants that he is the owner of the property, has the right to give the Lesses possession under this lesse, and will, so long as this less eramins in effect, warrant and defend the Lesse's possession against'any and all persons whomsnever. 5. The Lessee shall have the right, during this lesse, to erect storage structures, or facilities, make alterations, install scales, fonces, or signs in or upon the premises hereby lessed and, at the explasiton of gaid less or any renewal or extension thereof or at any time this lesse is in effect, may remove said storage structures, facilities, scales, fonces, or signs or suy part thereof, whether or not such structures, facilities, scales, fences or signs have become legally a fixture. 6, The Lessee shall not assign this lease without the written consent of the Lessor. The Lessee, may, however, sublet the structures of the premises leased hereunder, or any one or more of them for the term of the lease or any part thereof upon such terms and conditions as Lessee may wish to so sublet. 7. The Lessee, if required by the Lesser, shall upon the expiration of this lesse, or renewal thereof, restore the presidesoid the same condition as that existing at the time of entering upon the same under this lesse, reasonable and ordinary wear and bear and damages by the elements or by circumstances over which the Lessee has not control excepted. Frovided, heaver, That if the Lesser requires such restoration, the Lessor shall give written 1-31-54 for the lesse. 3-31-54 CL Form - 58 (Reverse) (4-2-54) 0. The Lessor grants and gives the Lesson the option as a consideration of this lesso and for the further consideration of one dollar, the receipt of which is hereby acknowledged, to renaw said lesse for a poriod of 5 years from the Lessor, his heirs, executors, administrators, and assigns, for the sum of <u>Fifty</u> Dollars (\$50.00) per year. 9. As consideration of this lease and for the further consideration of one dollar, the receipt of which is hereby acknowledged, the Leaser grants and gives the Lease the option, at any time while this lease is in effect to purchase said property from the Leaser, his heirs, executors, edgentistretors, and saigns, for the sum of Dollars (\S). In the event the Leaser furnish at his option to purchase and property, the Leaser degrees to other evidence of title satisfactory for the tessor shells are appended at a start of title, certificate of title or other evidence of title satisfactory for the tessor and a sufficient warranty deed conveying fee simple title to said property for the following, and no others.

10. In the event any increased tax assessment is made against the Lessor or the Freperty by virtue of the erection of storage structures and facilities thereon by the Lesson, the Lessor agrees to cooperate fully in any contest of such increased successment which the Lesson feels should be made. The Lesson agrees that the rental horeunder shall be adjusted upward by the smount of may such increased tax assessment which the Lessor and Lesson subually agree to be proper or which is determined to be legally valid in court proceedings. court procoedings.

11. No member of or Dologate to Congress or Resident Commissioner, shall be admitted to any share or part of this lease or purchase or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this lease or purchase if mode with a corporation for its general

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Lincoln, Kensas Tel. 913-LA-44855. August 11, 1966

GRAIN STORAGE BINS FOR SALE

Thirty (30) steel BS&B grain bins (3250 bushel capacity) in good condition are being offered for sale. The bins are located at the CCC bin site in Sylvan Grove, Kansas. The bin site will be open for inspection of bins on Monday, August 15, 1966 from 10:00 A.M. to 3:00 P.M. Bid forms are available at the Lincoln ASCS County Office, Lincoln, Kansas. Bids will need to be returned to the office no later than 3:00 P.M. on August 19, 1966.

1967 WHEAT MEASUREMENT SERVICE

Measurement service before planting wheat this fall might be a good investment. The cost of the service compared to the penalty imposed on an acre of overplanting of permitted acres is small. The cost of measurement service on an average farm is about \$10.00 compared to a penalty of approximately \$55.00 per acre for overplanting permitted acres.

CONSERVATION COST-SHARE FUNDS AVAILABLE

Funds are still available for ACP practices on your farm. Complete that needed practice before seeding wheat this fall. If you are planning to do some conservation work on your farm, inquire at the ASCS County Office and file an application for cost-sharing. To be eligible for cost-sharing, an application will need to be on file before work is started.

CONSERVATION WORK COMPLETED DURING FISCAL YEAR 1966

Much conservation work was completed in Lincoln County during the fiscal year beginning July 1, 1965 and ending June 30, 1966. A summary of completed work during the period includes:

1,000,000 feet of terracing 63,000 feet of diversion terraces

- 365 acres of waterways
- 19 livestock wells
- 34 livestock water ponds
- 6 detention and erosion control dams

CERTIFICATION IS COMPLETED

Operators of all farms signed in the 1966 programs completed their certification of acreages by August 5, 1966. A "Thank You" goes to all producers for making certification of acreages a success in Lincoln County.

Jage, 2 of March 14,1966 newsletter

YOUR TELEPHONE SAVES YOU TRIPS

Sometimes your telephone may save you a trip to town. Many times we can furnish information by phone just as well as in person. We are glad to oblige if your questions or other business can be taken care of in this manner.

PATCHY DIVERTED ACRES MORE APT TO BE DEFICIENT

When you set aside your diverted acres for Wheat and Feed Grain Programs, we suggest keeping them in fields of reasonable size and shape so that you will be assured of having sufficient diverted acres to meet your intended diversion. Leaving just odds and ends for your diverted acres increases the chance of deficiency and noncompliance.

DO YOU NEED A LIVESTOCK WELL IN YOUR PASTURE ?

ACP cost-sharing is available to cover 50% of the cost of drilling and casing wells, located in fenced pastures, which will distribute grazing. Prior approval of the need and site are required.

OFFSETTING COMPLIANCE REQUIRES THAT THE RIGHT HAND KNOW WHAT THE LEFT HAND IS DOING

Farm operators and owners should understand the offsetting compliance requirement. For anyone to earn Wheat or Feed Grain Program payments, they must be planted within allotments and bases on other farms in which they have any interest.

DIVISION OF PAYMENT BETWEEN LANDLORDS AND TENANTS

The ASC County Committee must approve division of payments between tenants and landlords. Arrangements whereby tenants are not afforded a normal and reasonable share of diversion payments will not be approved by the county committee.

SOIL CONSERVATION DISTRICT BUYING TWO NEW GRASS DRILLS

Farmers who are planting grasses or who plan to at some future time will be interested in the two new grass drills purchased by the SCD. They should be available to use very soon. Another Community Conservation Service by the District!

DATES TO REMEMBER

March & April = Top dress waterways with nitrogen that have cool season grasses to be put up for hay this summer.

March 31	= Final date to redeem warehouse wheat loans - WATCH THAT CASH MARKET
April 1	= Final date to enroll in 1966 Wheat and Feed Grain Programs.
April 1	= Target date for farm operators to complete certification of 1966
	Wheat Acreage.
April 15	= Final date for seeding cool season grasses (brome, western wheat, etc.
April 30	= Final date for seeding native seedings of warm season grasses -
mprin jo	(bluester guitch, gramas, buffalo, etc.)
May 1	= Order channel cat. bluegill or bass for farm ponds from SCS office
	for delivery from federal fish hatchery.
Every Day	- The time to practice SAFETY FIRST on the farm, A "hurry up" was
Every Day	never invented that will justify leaving power equipment running
	while it is being adjusted, or lubricated, or unplugged. If you
	while it is being adjusted, of a with death around farm machinery.

SALE OF BINS

An announcement will be made within the next few days about selling the CCC grainbins at Sylvan Grove, Kansas. Anyone interested in buying a 3250 bushel steel bin should be made aware that the 30 bins at Sylvan Grove will be sold by auction very soon.

lose your temper, you are toying with death around farm machinery.

ap Pron JAY R. CROMWELL A-mate Committee

JOINT TENANCY WARRANTY DEED (Following Kansas Statutory Form)

Paul G. Winckler, a/k/a Paul Winckler, and Phyllis R. Winckler, a/k/a Phyllis Winckler, husband and wife,

CONVEY AND WARRANT TO:

Ryan Wolting and Heather G. Wolting, husband and wife,

as Joint Tenants and not as tenants in common, with full rights of survivorship, the whole estate to vest in the survivor in the event of the death of either, all the following described real estate in the County of Lincoln and the State of Kansas, lo-wit:

A part of the Southeast Quarter (SE/4) of Section Eleven (11), Township Twelve (12) South, Range Ten (10) West of the 6th P. M., described by metes and bounds as follows: Beginning at a point on Section line 668.2 feet West of the Southeast corner of said Section 11; thence North 1337.5 feet; thence West 533 feet; thence South 1337.1 feet to the South line of said Section 11; thence East 533 feet to the point of beginning, EXCEPTING any established roads or highways on, through or across said land, in Lincoln County, Kansas.

EXCEPT AND SUBJECT TO: Easements, restrictions and rights-of-way of record. For the sum of: Ten Dollars (\$10.00) and other valuable consideration.

Dated: 12-10-03

R. L. Tillingebb PAUL G. WINCKLER, A/K/A PAUL WINCKLER

PHYLLIS R. WINCKLER, A/K/A

PHYLLIS WINCKLER

STATE OF KANSAS, COUNTY OF LINCOLN, ss:

The foregoing instrument was acknowledged before me this 10th day of Aunthor, 2003, by Paul G. Winckler, a/k/a Paul Winckler, and Phyllis R. Winckler, a/k/a Phyllis Winckler, husband and wife.

DEBRA M. MINEAR	Notary Public DI MAN
Term Expires:)/// 19 . 2017.	Notary Public Debry M Minear

STATE OF KANSAS, COUNTY OF LINCOLN, ss:

This instrument was filed for record on the _____ day of December 9:45 , 2003, at o'clock A.M., and duly recorded in Book 67 of Deeds on page 487



X Register of Deeds - Tami L. Kerth

abehane

Recording Fee \$____ 8.00

Entered in Transfer Record in my office this // day of Aucember, 2003.

County Clerk - Dawn M. Harlow

TERMINATION OF LEASE

KNOW ALL MEN BY THESE PRESENTS, That in consideration of all terms of the lease being fulfilled, WE hereby release and forever discharge the Lease of Property made by and between Paul G. Winckler of Sylvan Grove, Kansas, Lessor, and Commodity Credit Corporation, Lessee dated the 26th day of July, 1960, on the following described real estate in Lincoln County, Kansas:

Part of the SE/4 11-12-10 West of the 6th Principal Meridian. Beginning at a point on section line 1201.2 feet West of the SE corner of SE/4 of Section 11, Township 12, Range 10; thence North 164 feet to SW corner of Bin Site; thence North 408 feet; thence East 153 feet; thence South 358 feet; thence Southwest to a point 120 feet East of beginning place; thence West 120 feet to point of beginning with a driveway from public highway, containing 2 acres, more or less,

which is recorded in Book "L" of Miscellaneous Records, page 187, in the office of the Register of Deeds of Lincoln County, Kansas.

Dated this 11th day of December, 2003.

WILLIAM C. WINEINGER COUNTY EXECUTIVE DIRECTOR

Debra M. Munery

Debra M. Minear

STATE OF KANSAS, LINCOLN COUNTY, ss:

A.D., 2003 before me the undersigned, BE IT REMEMBERED, That on this 11th day of Anonther a Notary Public in and for the County and State aforesaid, came William C. Wineinger, County Executive Director of Farm Service Agency, formerly known as Agricultural Stabilization and Conservation Service, and an authorized representative of Commodity Credit Corporation, such person duly acknowledged the execution of the same to be the act of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my official Seal the day and year last above mentioned.

Notary Public:

Term Expires:

STATE OF KANSAS, COUNTY OF Lincoln , 88:

My Appl. Explo

The foregoing instrument was acknowledged before me this 18th day of December, 2003, by: Paul G. Winckler.

Term Expires:



DEBRA M. MINEAR

Notary Public - Stele of

Notary Public: Debra M. Minear Debra M Minear

STATE OF KANSAS, COUNTY OF LINCOLN, 88:

This instrument was filed for record on the 6TH day of JAN. A. D., 2004, at 1:50 o'clock P.M., and duly recorded in Book 3 of Miscon page 318



Tami L. Kes TAMI L. KERTH Register of Deeds Laite

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Environmental Science Division

Argonne National Laboratory 9700 South Cass Avenue, Bldg. 203 Argonne, IL 60439-4843 www.anl.gov



Argonne National Laboratory is a U.S. Department of Energy laboratory managed by UChicago Argonne, LLC