

# **158 +/- Acres in Harvey County**

**Information Packet**

**78 +/- Acres in the S 1/2 of NW 1/4 of  
S22, T23, R03W & 80 +/- Acres in the  
W1/2 of SW 1/4 of S22, T23, R03W**

**RESULTS  
REALTY, LLC**

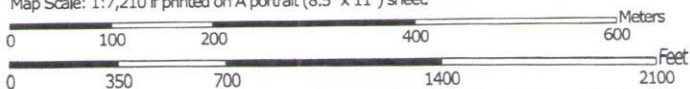
**620-465-3499**

**[www.ResultsRE.com](http://www.ResultsRE.com)**

Soil Map—Harvey County, Kansas  
(Don Bogner)



Map Scale: 1:7,210 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

2/11/2016  
Page 1 of 3



## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.









































Soil Survey Area: Harvey County, Kansas  
Survey Area Data: Version 12, Sep 8, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 18, 2010—Nov 16, 2010

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## MAP LEGEND

	Area of Interest (AOI)		Soil Area
	Soils		Stony Spot
	Soil Map Unit Polygons		Very Stony Spot
	Soil Map Unit Lines		Wet Spot
	Soil Map Unit Points		Other
	Special Point Features		Special Line Features
	Blowout		Streams and Canals
	Borrow Pit		Transportation
	Clay Spot		Rails
	Closed Depression		Interstate Highways
	Gravel Pit		US Routes
	Gravelly Spot		Major Roads
	Landfill		Local Roads
	Lava Flow		Background
	Marsh or swamp		Aerial Photography
	Mine or Quarry		
	Miscellaneous Water		
	Perennial Water		
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		

## Map Unit Legend

Harvey County, Kansas (KS079)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
5871	Carway-Dillhut-Solvay complex, 0 to 2 percent slopes	13.7	8.1%
5886	Farnum and Funmar loams, 0 to 1 percent slopes	46.4	27.4%
6330	Carwile fine sandy loam, 0 to 1 percent slopes	109.1	64.5%
Totals for Area of Interest		169.2	100.0%

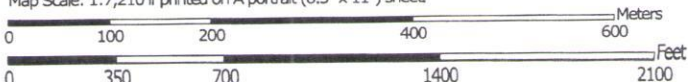




Nonirrigated Capability Class—Harvey County, Kansas  
(Don Bogner)



Map Scale: 1:7,210 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84




































Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

2/11/2016  
Page 1 of 4

## MAP LEGEND

	Area of Interest (AOI)		Capability Class - III
	Area of Interest (AOI)		Capability Class - IV
	Soils		Capability Class - V
	Soil Rating Polygons		Capability Class - VI
	Capability Class - I		Capability Class - VII
	Capability Class - II		Capability Class - VIII
	Capability Class - III		Not rated or not available
	Capability Class - IV		
	Capability Class - V		
	Capability Class - VI		
	Capability Class - VII		
	Capability Class - VIII		
	Not rated or not available		
	Soil Rating Lines		
	Capability Class - I		
	Capability Class - II		
	Capability Class - III		
	Capability Class - IV		
	Capability Class - V		
	Capability Class - VI		
	Capability Class - VII		
	Capability Class - VIII		
	Not rated or not available		
	Soil Rating Points		
	Capability Class - I		
	Capability Class - II		

## MAP INFORMATION

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Survey Area Data: Version 12, Sep 8, 2015

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## Nonirrigated Capability Class

Nonirrigated Capability Class— Summary by Map Unit — Harvey County, Kansas (KS079)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
5871	Carway-Dillhut-Solvay complex, 0 to 2 percent slopes	2	13.7	8.1%
5886	Farnum and Funmar loams, 0 to 1 percent slopes	2	46.4	27.4%
6330	Carwile fine sandy loam, 0 to 1 percent slopes	2	109.1	64.5%
<b>Totals for Area of Interest</b>			<b>169.2</b>	<b>100.0%</b>

## Description

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations that show suitability and limitations of groups of soils for rangeland, for woodland, or for engineering purposes.

In the capability system, soils are generally grouped at three levels—capability class, subclass, and unit. Only class and subclass are included in this data set.

Capability classes, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

Class 1 soils have few limitations that restrict their use.

Class 2 soils have moderate limitations that reduce the choice of plants or that require moderate conservation practices.

Class 3 soils have severe limitations that reduce the choice of plants or that require special conservation practices, or both.

Class 4 soils have very severe limitations that reduce the choice of plants or that require very careful management, or both.

Class 5 soils are subject to little or no erosion but have other limitations, impractical to remove, that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 6 soils have severe limitations that make them generally unsuitable for cultivation and that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 7 soils have very severe limitations that make them unsuitable for cultivation and that restrict their use mainly to grazing, forestland, or wildlife habitat.

Class 8 soils and miscellaneous areas have limitations that preclude commercial plant production and that restrict their use to recreational purposes, wildlife habitat, watershed, or esthetic purposes.

## Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Higher



# Tax Detail Information



Generated: 4/8/2016 12:20:34 PM

## Inquiry for BOGNER, DONALD L; TR; ETAL - 600 PRAIRIE LAKE RD

### Tax Year 2015

Tax ID	TaxType	Parcel ID (PIN)	Parcel Class				
02774	Real Estate	040-065-22-0-00-00-004.00-0	Agricultural Real Estate				
Description							
S22, T23, R03W, ACRES 154.85, W1/2 SW1/4,							
Subdivision							
Tax Unit	USD	City / Town	S-T-R	Block	Lot	Book Page	Trans. Date
155	369	BURRTON TOWNSHIP	22-23-03W			D237 - 0092	12031
Assessed Valuation	Mill Levy	Ad Valorem	Special Tax	Total Tax	Total Paid	Deliq.	
\$5,253.00	134.695	\$707.56	\$104.74	\$812.30	\$812.30	No	

### Historic Tax Information

### Tax Year 2014

Tax ID	TaxType	Parcel ID (PIN)	Parcel Class				
02774	Real Estate	040-065-22-0-00-00-004.00-0	Agricultural Real Estate				
Description		Subdivision					
S22, T23, R03W, ACRES 155.6, W1/2 SW1/4,							
Tax Unit	USD	City / Town	S-T-R	Block	Lot	Book Page	Trans. Date
155	369	BURRTON TOWNSHIP	22-23-03W			D234 - 0701	12301
Assessed Valuation	Mill Levy	Ad Valorem	Special Tax	Total Tax	Total Paid	Deliq.	
\$4,683.00	116.550	\$545.81	\$22.95	\$568.76	\$568.76	No	





United States  
Department of  
Agriculture

## Harvey County, Kansas



**Common Land Unit**  
Tract Boundary  
PLSS  
Non-Cropland  
Cropland

### Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Tract Cropland Total: 149.77 acres

Displayed over 2015 NAIP

2016 Program Year

Map Created October 05, 2015

Farm 4826

Tract 7264

22-23-3W

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



Kansas  
Harvey

U.S. Department of Agriculture  
Farm Service Agency

FARM: 4826

Prepared: 4/18/16 9:41 AM

Crop Year: 2016

Report ID: FSA-156EZ

Abbreviated 156 Farm Record

Page: 1 of 1

DISCLAIMER: This is data extracted from the web farm database. Because of potential messaging failures in MIDAS, this data is not guaranteed to be an accurate and complete representation of data contained in the MIDAS system, which is the system of record for Farm Records.

Operator Name	Farm Identifier	Recon Number
ORVILLE D BECKER IRREVOCABLE TRUST	97 DIV OF 4275	

Farms Associated with Operator:  
76

CRP Contract Number(s): None

Farmland	Cropland	DCP Cropland	WBP	WRP/EWP	CRP Cropland	GRP	Farm Status	Number of Tracts
156.76	149.77	149.77	0.0	0.0	0.0	0.0	Active	1
State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped	MPL/FWP			FAV/WR History	
0.0	0.0	149.77	18.8	0.0			N	

ARC/PLC			
ARC-IC NONE	ARC-CO WHEAT, SOYBN	PLC SORGH	PLC-Default NONE

Crop	Base Acreage	CTAP Tran Yield	PLC Yield	CCC-505 CRP Reduction
WHEAT	73.19		33	0.0
GRAIN SORGHUM	34.84		85	0.0
SOYBEANS	58.37		34	0.0
Total Base Acres:	166.4			

Tract Number: 7264 Description: C6, S1/2 NW1/4 & W1/2 SW1/4 22-23-3W

BIA Range Unit Number:

HEL Status: HEL: conservation system is being actively applied

Wetland Status: Tract does not contain a wetland

WL Violations: None

FAV/WR  
History  
N

Farmland	Cropland	DCP Cropland	WBP	WRP/EWP	CRP Cropland	GRP
156.76	149.77	149.77	0.0	0.0	0.0	0.0
State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped	MPL/FWP		
0.0	0.0	149.77	18.8	0.0		

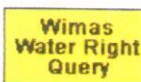
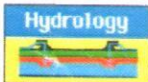
Crop	Base Acreage	CTAP Tran Yield	PLC Yield	CCC-505 CRP Reduction
WHEAT	73.19		33	0.0
GRAIN SORGHUM	34.84		85	0.0
SOYBEANS	58.37		34	0.0
Total Base Acres:	166.4			

Owners: DONALD L BOGNER REV TR  
DUANE J BOGNER REV TR

DAVID J BOGNER

Other Producers: ARLO D BECKER





## WIMAS Point of Diversion Information Sheet

Water Right Information represents conditions as of 03/21/2016.

Information shown on this page depends on the **water right(s)** and their **Type(s) of Use** associated with a PD. If there are multiple water rights and types of use, the page will update details, quantity and rate, and reported water use depending on which entry is selected from those list boxes.

Because water rights can overlap both in points of diversion and places of use (which in turn can affect the authorized quantities and rate) AND water usage is often aggregated into a single report, **you cannot determine if a water right has reported more water use than authorized from this page only.**

**Point of Diversion**

PD: 22-23S-3W 2    2 Water Right(s): 30130 - 00    ▼ 1 Type(s) of Use: IRR    ▼ [Google Location Map](#)  
**WWC5 Links:**    [27537](#)    **WIZARD Link:**    None

**Water Right Details**

Source: G    Right Type: A    Total Acres Authorized: 80    Net Acres Authorized: 80    Use of Water Active: Y  
 Water Right Status: NK    Place(s) of Use: 22-23S-3W SE NW (active) Total Acres: 40, Net Acres: 40    ▼  
 Priority Date: 07/18/1977    Action Trail: 07/18/1977- PENDING INITIAL REVIEW    ▼

**Point of Diversion Details**

PD Active: N    Feet North: 2600    Feet West: 5240    Qualifiers:    County: HARVEY  
 GMD Num: 2    Number of Wells: 1    Subbasin: LITTLE ARKANSAS RIVER    Stream Number:  
 Special Use Area(s): BURRTON (IGUCA)    ▼ Comment: Created at migration for old water use

**Authorized Quantity & Rate**

Quantity Stored By:    Authorized Quantity (AF):    Net Quantity (AF):  
 Rate Stored By:    Authorized Rate (GPM):    Net Rate (GPM):

**Reported Water Use**

[Graph Water Use History](#)

Water Use Year(s): 1990    ▼    Total Water Used (AF): 0.00    Acres Irrigated:  
 Water Use Reported on Right Num: A01949900    Reel Number:    Blip Number:  
 Metered Quantity:    Meter Unit:    Depth to Water:    Depth of Well:  
 Beginning Meter Reading:    Ending Meter Reading:  
 System Type:    Hours Pumped:    Pump Rate:    Date of Measurement:  
 Date Report Received:    Chemigation Indicator:    Water Use Code:    Crop Code:  
 Current Water Use Correspondent(s):    ▼

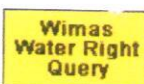
[Print ASCII Report](#)

[WIMAS520160323102557719.txt](#)

**Disclaimer**

For information on the WRIS/WIMAS database, please contact [Jim Bagley](#). For water right related questions, please contact [Ken Kopp](#). For web page or internet based comments, please contact [webadmin@kgs.ku.edu](mailto:webadmin@kgs.ku.edu). WIMAS Program updated October, 2005. Data updated daily.





## WIMAS Point of Diversion Information Sheet

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**Point of Diversion**

PD: 22-23S-3W 5 2 Water Right(s): 19499 - 00 ▼ 1 Type(s) of Use: IRR ▼ [Google Location Map](#)  
**WWC5 Links:** [27536](#) **WIZARD Link:** None

**Water Right Details**

Source: G Right Type: A Total Acres Authorized: 80 Net Acres Authorized: 80 Use of Water Active: Y  
 Water Right Status: NK Place(s) of Use: 22-23S-3W NW SW (active) Total Acres: 40, Net Acres: 40 ▼  
 Priority Date: 07/25/1972 Action Trail: 07/25/1972- PENDING INITIAL REVIEW ▼

**Point of Diversion Details**

PD Active: Y Feet North: 2600 Feet West: 5125 Qualifiers: NW NW SW County: HARVEY  
 GMD Num: 2 Number of Wells: 1 Subbasin: LITTLE ARKANSAS RIVER Stream Number:  
 Special Use Area(s): BURRTON (IGUCA) ▼ Comment: NW NW SW-90° E CHG WELL 90° E CHG WELL

**Authorized Quantity & Rate**

Quantity Stored By: Water Right Authorized Quantity (AF): 113 Net Quantity (AF): 113  
 Rate Stored By: Water Right Authorized Rate (GPM): 965 Net Rate (GPM): 965

**Reported Water Use**

[Graph Water Use History](#)

Water Use Year(s): 2014 ▼ Total Water Used (AF): 96.00 Acres Irrigated: 148  
 Water Use Reported on Right Num: Reel Number: 88 Blip Number: 6068  
 Metered Quantity: 96 Meter Unit: 2 Depth to Water: Depth of Well:  
 Beginning Meter Reading: 740 Ending Meter Reading: 837  
 System Type: 1 Hours Pumped: Pump Rate: Date of Measurement:  
 Date Report Received: 02/25/2015 Chemigation Indicator: Y Water Use Code: A Crop Code: 49  
 Current Water Use Correspondent(s): BOGNER DAIRY ▼

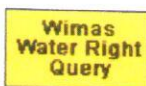
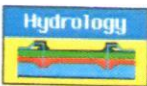
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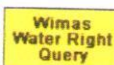
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## WIMAS Query Results

Summarize Quantity

Water Use Trends

Development Trends

Start New Query

Create Map

Download Data

Water Right Information is current as of 02/14/2016.

You have the following filters in place:

Township = 23

Range = 3

Range Direction = W

Section = 22

County(s) = 'HV'

Use(s) Made of Water = 'IRR'

Water Source = G

Appropriated and/or Vested Water Rights = Yes

[WIMAS 5 User Manual](#)

There are 4 unique water rights and 6 unique points of diversion selected. Only 50 records are displayed at one time. Records can be sorted ascending (asc) or descending (desc) which will affect ALL the records in the selection set.

Filter for only Active  
Non/dismissed Water Rights

View Records: | 1-8 |

Wr File Number <a href="#">asc desc</a>	Use of Water <a href="#">asc desc</a>	Use of Water Active <a href="#">asc desc</a>	Source <a href="#">asc desc</a>	Priority Date <a href="#">asc desc</a>	Wr Status <a href="#">asc desc</a>	Pdiv Location (twp rng sect qual id) <a href="#">asc desc</a>	Longitude <a href="#">asc desc</a>	Latitude <a href="#">asc desc</a>	County <a href="#">asc desc</a>	Pdiv Active <a href="#">asc desc</a>
<a href="#">A 14844 00</a>	IRR	Y	G	20-MAR-1968	NK	<a href="#">23S 3W 22 NCSE 1</a>	-97.63308	38.032333	HV	N
<a href="#">A 14844 00</a>	IRR	Y	G	20-MAR-1968	NK	<a href="#">23S 3W 22 NCSE 6</a>	-97.633	38.03241	HV	Y
<a href="#">A 19499 00</a>	IRR	Y	G	25-JUL-1972	NK	<a href="#">23S 3W 22 NWNWSW 5</a>	-97.646256	38.03584	HV	Y
<a href="#">A 19499 00</a>	IRR	Y	G	25-JUL-1972	NK	<a href="#">23S 3W 22 2</a>	-97.646655	38.035841	HV	N
<a href="#">A 21059 00</a>	IRR	Y	G	23-JUL-1973	NK	<a href="#">23S 3W 22 NCN2NE 3</a>	-97.633056	38.041415	HV	N
<a href="#">A 21059 00</a>	IRR	Y	G	23-JUL-1973	NK	<a href="#">23S 3W 22 NCN2NE 7</a>	-97.63315	38.04142	HV	Y
<a href="#">A 30130 00</a>	IRR	Y	G	18-JUL-1977	NK	<a href="#">23S 3W 22 2</a>	-97.646655	38.035841	HV	N
<a href="#">A 30130 00</a>	IRR	Y	G	18-JUL-1977	NK	<a href="#">23S 3W 22 NWNWSW 5</a>	-97.646256	38.03584	HV	Y

View Records: | 1-8 |

[Disclaimer](#)

For information on the WRIS/WIMAS database, please contact [Jim Bagley](#). For water right related questions, please contact [Ken Kopp](#). For web page or internet based comments, please contact [webadmin@kgs.ku.edu](mailto:webadmin@kgs.ku.edu). WIMAS Program updated October, 2005. Data updated daily.



108-5 1/2 NW 30130  
113-W 1/2 SW 19499



1000 Corey Road  
P.O. Box 886  
Hutchinson, KS 67504-0886  
620-665-5661  
FAX: 620-665-0559  
TOLL FREE: 877-464-0623  
www.sdklabs.com

Page 1 of 1

Sample # 716.16  
Sample: Water  
Other ID:

Date Received: 02/16/2016  
Date/Time Sampled: 2/15/2016 5:30:00  
Date Reported: 02/18/2016  
Total Fee: \$35.00

Bogner Dairy  
David Bogner  
19019 S. Haven Road  
Haven, Ks 67543

#### ANALYSIS

	Result	Units	Date/Time Analyzed	Analyst
++pH - SM 4500-H+ B .....	6.79	s.u.	2/17/2016 14:24	SE
++Chloride - SM 4500-Cl B .....	434.00	mg/L	2/17/2016 11:30	SE
++Total Hardness - SM 2340B .....	424	mg/L		
++Nitrate-Nitrogen - SM 4500-NO3 D .....	Less than 1.0	mg/L	2/16/2016 14:40	SE
++Calcium - SM 3111B .....	130.00	mg/L	2/17/2016 09:15	JC/CB
++Magnesium - SM 3111B .....	24.10	mg/L	2/17/2016 09:15	JC/CB
++Sodium - SM 3111B .....	150.00	mg/L	2/17/2016 09:15	JC/CB
++Sulfate - SM 4500 SO4 E .....	43.00	mg/L	2/16/2016 16:00	SE
% Sodium .....	49.30	%		
SAR-Sodium Absorption Ratio .....	3.162	s.u.		
++Electrical Conductivity - SM 2510B .....	1700	umhos/cm	2/18/2016 08:00	SE
TDS-Total Dissolved Solids - Calculated .....	1206	mg/L		
Irrigation Quality Rating .....	AS FOLLOWS			
Light Soil -Salinity Hazard .....	Medium			
Light Soil - Sodium Hazard .....	Medium			
Medium Soil -Salinity Hazard .....	Medium			
Medium Soil -Sodium Hazard .....	High			
Heavy Soil -Salinity Hazard .....	Medium			
Heavy Soil -Sodium Hazard .....	High			
General Comment: .....	Good to Permissible			

\*\*Sample receipt temperature = 21.1 degrees C

\*\*Sample beyond hold time for pH.

\* Denotes analysis was subcontracted to another laboratory for state compliance - see attached.

Methods of analysis per EPA-800 or EPA SW-846, 3rd Ed., 1986 or Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

++Denotes NELAP/KDHE Accredited Method. Lab Certificate #E-10152. Results meet all requirements of NELAC unless noted.

Approved By:

  
Quality Assurance Officer  
Matt Hogan



The results reported pertain only to the samples as received by the laboratory



# Servi-Tech Laboratories

1816 E. Wyatt Earp • PO Box 1397 • Dodge City, KS 67801  
www.servitechlabs.com

Phone: 620.227.7123

800.557.7509

Fax: 620.227.2047

Lab #: D-2014NL006363

## LABORATORY REPORT

Report Date: 09/26/2014 08:33 am

**Send To:**  
739 FARMERS COOP GRAIN  
AND MERC  
302 WEST FIRST  
HALSTEAD, KS 67056

*Sec 22  
well*

*Sean H. Jenkins*  
Sean H. Jenkins  
QA Manager

**Project ID:**  
**Project Title:**  
**Sample ID:**  
**Client Name:** ORVILLE BECKER  
**Subject:** Irrigation Water Lab Analysis  
**Location:** IRRIGATION  
**Depth:**

**Date/Time Received:** 09/16/2014 08:15 am  
**Name of Submitter:** usps  
**Date/Time Sampled:** 09/15/2014 11:30 am  
**Name of Sampler:** ORVILLE BECKER  
**Invoice No:** 361384  
**P.O. #:**

Analysis	Result	Unit	lbs /	
			Acre Inch	meq / L
Nitrate Nitrogen, NO3-N	<0.1	mg/L	<0.0	<0.0
Chloride, Cl	430	mg/L	97.5	12.1
Sulfate, SO4	33	mg/L	7.5	0.7
Sulfate-Sulfur, SO4-S	11	mg/L	2.5	0.7
Bicarbonate, HCO3	86	mg/L	19.5	1.4
Carbonate, CO3	<10	mg/L	<2.3	<0.3
Hydroxide, OH	<10	mg/L	<2.3	<0.6
Total Alkalinity, CaCO3	71	mg/L	16.1	1.4
Hardness (CaCO3)	420	mg/L		
Hardness (CaCO3)	25	grains/gal		
Total Calcium, Ca	130	mg/L	29.5	6.5
Total Magnesium, Mg	23	mg/L	5.2	1.9
Total Potassium, K	5	mg/L	1.1	0.1
Total Sodium, Na	120	mg/L	27.2	5.2
Sodium Adsorption Ratio, SAR	2.5	ratio		
Adjusted SAR, SARa	4.6	ratio		
Sodium Percentage	38.0	% of cations		
Total Boron, B	0.09	mg/L	<0.1	
Total Iron, Fe	9.0	mg/L	2.0	
Total Manganese, Mn	0.79	mg/L	0.2	
Electrical Conductivity, EC	1480	µmho/cm		
Total Dissolved Solids (Calc), TDS	947	mg/L		
pH, at 23.9°C	6.4	units		
pHc	7.6			
Corrosion Indices				
Langlier Index, at 20°C	-0.9			
Aggressive Index, AI	10.9			

### Result Notes

The sample was received and analyzed outside the regulatory holding time for this analyte.



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Fax: 620.227.2047

Lab #: D-2014NL006363

## LABORATORY REPORT

Report Date: 09/26/2014 08:33 am

Sample ID:

Client Name: ORVILLE BECKER

Location: IRRIGATION

### Interpretations for Corrosive Indices

LANGLIER SATURATION INDEX (LSI) indicates the  $\text{CaCO}_3$  saturation of a given water supply. A negative index value (less than -0.5) suggests the water considered "corrosive", having a tendency to dissolve  $\text{CaCO}_3$  with little to no potential to form scale.

AGGRESSIVE INDEX (10.0 to 12.0): Indicates that this water is moderately aggressive and maybe prone to cause corrosion in pipes and metal fixtures.

The Langlier Index and Aggressive Index can be used as indicators of the potential corrosivity of water. Other factors that affect corrosivity may be present and not included in this test.

### Interpretations For Irrigation Use

#### GENERAL RATING - ACCEPTABLE QUALITY IRRIGATION WATER

**SALINITY HAZARD:** LOW. Extended use of this water for irrigation could affect growth of very salt sensitive crops, especially if conditions allow salts to accumulate in the active rooting zone.

**PERMEABILITY HAZARD:** LOW. The adjusted SAR value suggests few use restrictions, but this water should be used with moderate caution for extended irrigation of fine-textured or medium-textured soils, especially clayey soils. Symptoms of excess sodium accumulations include surface crusting or reduced water infiltration rates. If these symptoms occur, occasional applications of soluble calcium material (e.g., gypsum) or other soil management strategies may be needed. Test the soil routinely for exchangeable sodium (%Na) and the irrigation water for adjusted SAR to monitor sodium levels.

**BORON HAZARD - NONE:** Safe for nearly all crops.

**CHLORIDE HAZARD FROM SPRINKLER IRRIGATION - VERY HIGH (350 - 550 mg/L):** Chloride contained in water droplets that dry on leaf surfaces may cause foliar injury (burning, spotting, etc.) when applied to moderately tolerant crops (e.g. alfalfa, corn). Foliar injury may be severe in sensitive and moderately sensitive plant types. Chloride injury problems are likely to be more common during high temperature and low humidity conditions. Irrigate at night or during cool weather conditions, if possible. Increasing droplet size or applying water below the crop canopy can help minimize problems.

**pHc:** pHc values above 8.4 indicate a tendency to dissolve lime from soil through which the water moves; values below 8.4 indicates a tendency to precipitate lime from water applied.

**KGS****Oil and Gas  
Well  
Database****Specific Well--15-079-00061****Oil & Gas****All Well Data**

<b>API:</b> 15-079-00061 <b>KID:</b> 1002920664 <b>Lease:</b> Webb <b>Well:</b> 1 <b>Original operator:</b> TEXACO Inc <b>Current operator:</b> Ressler Well Service, Inc. <b>Field:</b> Burrton Northeast <b>Location:</b> T23S R3W, Sec. 22 SE SE NW 3300 North, 3300 West, from SE corner <b>Longitude:</b> -97.6399319 <b>Latitude:</b> 38.0377411 Lat-long calculated from footages <b>County:</b> Harvey	<b>Permit Date:</b> <b>Spud Date:</b> Jun-11-1959 <b>Completion Date:</b> Jul-22-1959 <b>Plugging Date:</b> Jun-30-1959 <b>Well Type:</b> OIL-P&A <b>Status:</b> Producing <b>Total Depth:</b> 3423 <b>Elevation:</b> 1450 KB <b>Producing Formation:</b> <b>IP Oil (bbl):</b> <b>IP Water (bbl):</b> <b>IP GAS (MCF):</b> <b>KDOR code for Oil:</b> <a href="#">106069</a> <b>KCC Docket No.:</b>
Opal Webb on log (AB 2-28-00)	
<a href="#">View well on interactive map</a>	

**Wireline Log Header Data**

<b>Logger:</b> Schlumberger <b>Tool:</b> Sonic Log <b>Operator on log</b> TEXACO Inc <b>Top:</b> 2500; <b>Bottom:</b> 3417 <b>Log Date:</b> Jun-18-1959 <b>BHT:</b> 103F <b>Gamma Ray:</b> <b>Spontaneous Potential:</b> Y <b>Holdings at:</b> Lawrence	
<b>Logger:</b> Schlumberger <b>Tool:</b> Electrical Log <b>Operator on log</b> TEXACO Inc <b>Top:</b> 329; <b>Bottom:</b> 3419 <b>Log Date:</b> Jun-18-1959 <b>BHT:</b> 103F <b>Gamma Ray:</b> <b>Spontaneous Potential:</b> Y <b>Holdings at:</b> Lawrence	
For information on software to view and use the files we distribute on our web pages, please view our <a href="#">File Format Tools</a> page.	

**Cuttings Data**

<b>Box Number:</b> 55119 <b>Starting Depth:</b> 2440
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<b>Ending Depth:</b> 3423 <b>Skips:</b> 2760-2770, 3320-3322, 3350-3360, 3420-3423
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## Oil Production Data

[This well has been linked to an oil lease.](#)

## Information from Outside Sources

**Please note:** The link below takes you away from the web site of the Kansas Geological Survey to the website of the Kansas Geological Society, a library in Wichita. The Survey can not help with information presented by the Walters Digital Library.

[From Kansas Geological Society's Walters Digital Library](#)

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[Kansas Geological Survey](#), Oil and Gas Well Database

Comments to [webadmin@kgs.ku.edu](mailto:webadmin@kgs.ku.edu)

URL=<http://www.kgs.ku.edu/Magellan/Qualified/index.html>

Well Display Program Updated Jan. 2008. Data added continuously.