			WWC-5		ision of Wate		Whater Wel			
			uge in Well Use		ources App. N		ACH III			
1 LOCATION OF WATER WELL: County: McPherson			Fraction NW% NW%		ction Numbe 15	I				
	The same of the sa		First: Brian			T 21 S	R 1 DEZW			
Z WELL Business		Last Name: Yost	First: Dilati				(if unknown, distance and r's address, check here:			
	379 28th	Ave:								
Address			ZIP: 67107	4 miles Eas	it, 2 miles N	forth & 3/4 mile Eas	t of Moundridge			
City:	Moundri	ige State: KS								
3 LOCAT		4 DEPTH OF CO	MPLETED WELL:	44 6	5 Latitu	ide: 38.2317	4 (decimal degrees)			
WITH	ON BOX:	Depth(s) Groundwate	Encountered: 1)	7 ft.	ft. Longitude: 97.41691 (decimal degrees)					
	n bua:		3) ft., or 4)			WGS 84 ZINAI				
		WELL'S STATIC W	ATER LEVEL:	ft.	Source	for Latitude/Longitude				
	X	Delow land surface	e, measured on (mo-day	-yr).00(14/201						
NW -	NE		e, measured on (mo-day water was		ī	(WAAS enabled?				
w	III E		rs pumping		☐ Land Survey ☐ Topographic Map ☐ Online Mapper:					
		Well	water was	ñ.	1 J Onthic Mapper					
SW	SE	after hou	rs pumping	gpm	(T)	1521				
LL	للللل	Estimated Yield: 3	Vgpm 50	_	o Lieva		Ground Level TOC			
1	S mile	Bore Hole Diameter:	9 in to 50	ft. and	Source	I Land Survey LIN	☐ Land Survey ☐ GPS ☐ Topographic Map 7 Other KOLAR			
		O BE USED AS:	in to	n.	<u>- L </u>	el out assessing	7-27-14-4-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
1. Domestic			ater Supply: well ID		10 🗀 08	Elald Water County La	enoa.			
☐ House		6. Dewater	ng: how many wells?	*****************		fole: well ID	ease,			
	& Garden		Recharge: well ID			sed Uncased []				
☑ Livest	ock	8. Monitori	ng: well ID			ermal: how many bores				
2. Imigat			tal Remediation: well I			osed Loop Horizont				
3. Feedle		☐ Air Spar		Extraction			scharge Inj. of Water			
4. 🔲 Indust		☐ Recovery		Market or all the design and the control						
		riological sample sub-	nitted to KDHE?	Yes Z No	If yes, date	sample was submitted	d:			
Water well	disintected	? ☑ Yes ☐ No								
8 IYPE	OF CASING	USED: USEE MP	VC ☐ Other	CASI	AG TOIN 12:	☑ Glued ☐ Clamped	☐ Welded ☐ Threaded			
Casing dian	ht shove land	In. 10 12	Diameter 2.3	7	R., Diam	eter in. to	i ☐ Welded ☐ Threadedft.			
TYPE OF	SCREEN O	R PERFORATION MA	TERIAL	7 108./AL	wan inick	ness of gauge Inc. 194.7.				
☐ Steel		inless Steel Fibe			[7] Oth	er (Specify)	j			
☐ Brass				ised (open hole		or (aposing)				
SCREEN (OR PERFO	RATION OPENINGS A		` •						
	nuous Slot		iauze Wrapped 🔲 To	orch Cut 🔲 I	rilled Holes	Other (Specify)				
☐ Louve	ered Shutter	☐ Key Punched ☐ \	Vire Wrapped Sa	w Cut \ \	lone (Open He	ole)				
SCREEN-	PERFORAT	ED INTERVALS: Fro	m . 49 ft. to .44	ft., From .	ft. to	ft., From	tt. to tt.			
		CK INTERVALS: Fro								
9 GROUT	MATERI	AL: Neat cement [0 ft. to 20	Cement grout Be	entonite [] (ther	A	Δ			
		le contamination:	n., From	п. ю	n., From .	н. ю	II.			
☐ Septic		Lateral Lin	es Pit Privy	П	Livestock Per	ns 🔲 Insectic	ide Storage			
☐ Sewer		☐ Cess Pool			Fuel Storage		oned Water Well			
☐ Watertight Sewer Lines ☐ Seepage Pit ☐ Feedyard ☐ Fertilizer Storage ☐ Oil Well/Gas Well										
☑ Other (Specify) Future hag pens. Direction from well? .5. Distance from well? .50										
10 FROM	TO TO	LITHOLO		FROM			PLUGGING INTERVALS			
		Topsoil	VAL EUG	I INCHAI		LAR A ELECT AND COME, OF	A AND NORTH OF THE CAMPACATION AS THE PARTY OF THE PARTY			
<u>0</u> 1		Clay, brown		+						
13		Clay, green/tan w/fin	e sand							
25		Sand, fine								
35		Sand, medium w/lots	of clay							
45	50	Shale, gray/green								
				Notes:						
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was a constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) .06/14/2013 and this record is true to the best of my knowledge and belief.										
Kansas Water Well Contractor's License No. 138. This Water Well Record was completed on (mo-day-year) 06/25/2013										
under the h	ousiness nam	e of Peterson Imaget	on, inc.	17 641 2444	111Jh	alles	_,			
		Send one conv to WATER \	VELL OWNER and retain	one for your rece	ords. Tee of \$5.	00 for each constructed we	B			
KS Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-3565.										
Visit us at http://www.kdheks.gov/wgregweit/insiex.html										

West Water Well 2



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

Sample # 2847.14 Sample: Water

Other ID: 2

W Water Well

Date Received:

6/16/2014 12:10:00

Date/Time Sampled:

6/16/2014 9:10:00

Page 1 of 1

Date Reported: Total Fee: 06/18/2014 \$ 74.00

Yost, Brian

379 28th Avenue

Moundridge, Ks 67107

ANALYSIS

			Date time		
	Result	Units	Analyzed	Analyst	
++Chloride - SM 4509-Cl B	4.99	mg/L	6/17/2014 09:00	KO	
++Ammonia-Nitrogen - SM 4500-NH3 B	0.28	mg/L	6/18/2014 08:25	MH	
++Total Kjeldahl Nitrogen - SM 4500-N B	0.28	mg/L	6/17/2014 06:50	MH	
++Nitrate-Nitrogen - SM 4500-NO3 D	Less than 1.0	mg/L	6/16/2014 13:45	KO	

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

Methods of analysis per EPA-600 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:

Copies

Matt Hogan

____, Quality Assurance Officer





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

Sample #

3912.13

Sample:

Other ID:

ther 10: ** Wast Water Well

Yost, Brian

379 28th Avenue

Moundridge, Ks 67107

Date Received:

9/12/2013 14:25:00

Date/Time Sampled:

9/12/2013 11:40:00

Date Reported:

09/23/2013

Total Fee:

\$72.00

ANALYSIS

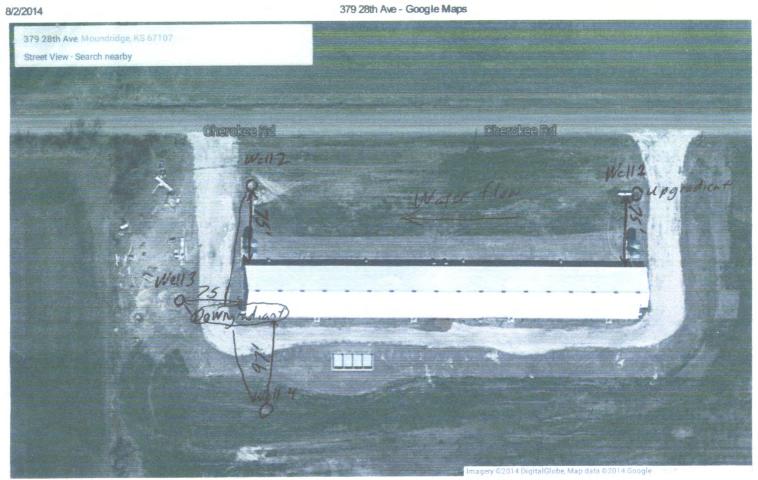
			Date/Time	
	Result	Units	Analyzed	Analyst
++pH - SM 4500-H+ B	7.38	5.U.	9/12/2013 16:34	SE
++Chioride - SM 4500-CIB	10.00	mg/L	9/13/2013 14:00	SE
++Total Hardness - SM 23408	304	mg/L		
++Total Kjeldahl Nitrogen - SM 4500-N B	0.56	mg/L	9/13/2013 09:10	MH
++Nitrate-Nitrogen - SM 4500-NO3 D	Less than 1.0	mg/L	9/13/2013 15:15	SE
++Calcium - SM 31118	71.40	mg/L	9/17/2013 10:00	AV
++Magnesium - SM 3111B	13.30	mg/L	9/17/2013 10:00	AV
-+Sodium - SM 3111B	42.00	mg/L	9/17/2013 10:00	VA
++Sulfate - SM 4500 SO4 E	11.30	mg/L	9/13/2013 10:40	SE
++iron - SM 3120B	0.096	mg/L	9/19/2013 16:00	AV
++Manganese - SM 31208	0.225	mg/L	9/19/2013 16:00	AV
++Electrical Conductivity - SM 2510B	595	umhos/cm	9/13/2013 12:40	SE
TDS-Total Dissolved Solids - Calculated	422	mg/L		

^{*} Denotes analysis was subcontracted to enother laboratory for state compliance - see attached.

Methods of analysis per EPA-500 or EPA SW-846, 3rd Ed., 1985 or Standard Methods for the Examination of Weiser and Westewater, 18th Edition, 1982.



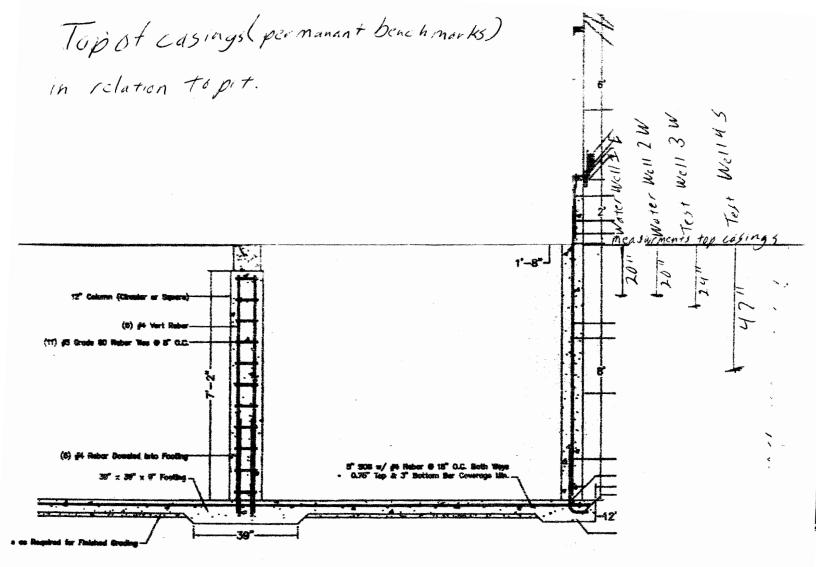
⁺⁺Denotes MELAP/KDHE Ascredited Method. Lab Certificate #E-10152. Results meet all requirements of NELAC unless noted.



Brian Yost historic static water levels and total depth measurments.

Water Well 1		Water Well2		Test Weil 3		Test Well 4	
Water level	Total Depth	Water level	Total Depth	Water level	Total Depth	Water level	Total Depth
10'8"	51'6"	10'10"	39' 5"	8'5"	50'	6'5"	51'10"
	Water level	Water level Total Depth	Water level Total Depth Water level	Water level Total Depth Water level Total Depth	Water level Total Depth Water level Total Depth Water level	Water level Total Depth Water level Total Depth Water level Total Depth	Water level Total Depth Water level Total Depth Water level Total Depth Water level

Field notes and deviations from GMP;				
		· · · · · · · · · · · · · · · · · · ·	 	
			 	



Brian Yost ground well monitoring plan

My monitoring wells are already completed. Included is a well log from the well drillers showing how they did them. Two of the wells are monitoring wells, the other two are water supply wells that supply water to my barns. I have one upgradient well and three downgradient wells. Also included is a map showing the locations of the wells.

I am including Peterson Irrigation's well log to show how the wells were constructed. I poured a two foot pad around each test well, then anchored a large steel pipe on the it with a lid and a padlock. I will have steel pipes cemented in the ground to protect my water wells.

I plan to check the wells sometime in May. I will first inspect the well pad, the casing, well cap protective casing, elevation mark and locks, noting anything that needs attention. Then I plan to check static water level with a weighted tape measure, drop it until I hear it hit the water, since it is only about 7 feet. Then I will let it drop to the bottom of well, to measure the depth of my well. I will measure to the top of casing since that is my permanent benchmark. Included is a survey showing the height of my wells in relation to my hog barn.

To purge the well I plan to use my air compressor. I will do this by putting a hose down wells three and four and run it until the required amount of water is run out of my well. I figured the volume of my casing, run my air compressor at 25 psi, and then collected the water. I had 19 gallons per minute. For well three I need 30 gallons, so I will run it for 2 minutes. For well four I need 36.5 gallons so I will run it for 2 minutes. The water wells are running constantly so they will not need purging.

To collect the water samples I will drop a clean cup down wells three and four, decontaminating it with non-phosphate soap and rinsing it with distilled water between wells, and dumping it into clean containers provided by SDK laboratories. For the water wells one and two I will go in the barn and collect it in clean containers from a faucet.

I will also include;

- Base map with monitoring wells;
- Table compiling historic static water levels and elevations;
- Table compiling historic analytical results with excessive concentrations including total nitrogen;
- A copy of field notes and/or field data sheet;
- A copy of analytical laboratory reports for the sample results;
- Chain of custody records;
- A description of any deviations from the GMP that occurred during the sampling event and reasons for the deviation.

Note: The well drillers said they hit water at 7.5 feet, I don't believe that's right. We did extensive excavating before the project, we hit water at 10.5 feet, static water level is at 7 feet. There is a three foot layer of clay right above water line. We dug a hole 9 feet deep, left it sit for about a week, and had no water coming into the hole. It seems the static water level has come up some, it was very dry when we checked it originally, been wetter since.