County: McPherson Fraction: NW NW NW NE Sec. 15 T 21 S R 1 W

CORRECTION(S) TO WATER WELL COMPLETION RECORD **Form WWC-5** (to rectify lacking or incorrect information)

5 Test Well 4

Owner: Brian Yost

If location corrected, was listed as:	**Location changed to:**
Section-Township-Range: 15-21S-1W	15-21S-1W
Fraction (¼ calls): NW NW NE	NW NW NW NE

Other changes: Initial statements: No Latitude & Longitude given.
~ TEST WELL - KGS did not receive a WWC5 ~

Changed to: Latitude: 38.23115, Longitude: -97.41688, (WGS 84)

Comments: Latitude & longitude taken from point location on KGS' online WWC5 mapping tool & aerial photos.

Verification method: Aerial photo submitted by well owner with well locations marked, and comparison to KGS' online mapping tool & aerial photos. Initials: ~~DRA~~ Date: 6/3/2019

Submitted by: ☒ Kansas Geological Survey, Data Resources Library, 1930 Constant Avenue, Lawrence, KS 66047-3724
☐ Kansas Dept. of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367

(01/26/2018)

STOCK WELL TEST WELL (KGS did not receive wires)

Driller & Assistant: Logan AND Cody Date: 11/20/12

CUSTOMER: Brian Yost, 379 28th Ave., Moundridge, KS 67107 620-386-4777 cell, 620-367-8777 home

LOCATION: call

☐ 5" Screen	☐ Quarters	☐ Drilling mud	☐ Water Sample bottle
☐ 5" Casing	☐ Solvent & Glue	☐ Chlorine	☐ Gas & Oil - W.T.
☐ Couplings, 5"	☐ Water	☐ Lime	☐ Inspection Sheet
☐ End Caps, 5"	☐ 8" & 9" Bits	☐ 10" Liner, if needed	
☐ Gravel Pack	☐ Packing	☐ Holeplug	

Depth:	Formation:	Well Information:
0-3'	top soil	Static Water Level: 8'
3-5'	clay Brown	Est. production: 75-100 gpm
5'-31'	clay White	Casing depth: 0-30' 2½" PVC
31'-38'	SAND Fine	Screen depth: 30'-50' 2½" PVC
38'-39'	clay tan	Grouting depth:
39'-42'	SAND Fine to med.	Number of bags:
42'-50'	Shale Grey	Nearest Contamination:
	IRR. / STOCK Test Well	Maintenance & Safety:
		Notes:

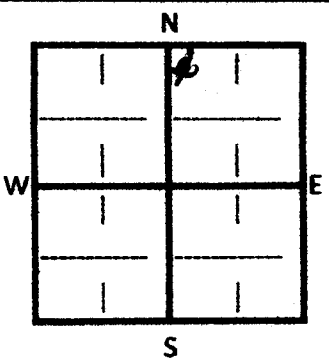
Directions: 6 mi. East & ½ mi. North of Moundridge, KS

Latitude: N decimal degrees (ex. 38.881796)

Longitude W decimal degrees (ex. 95.373889)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

NW 1/4	NW 1/4	NE 1/4	
Sec. 15	T 21	R 1	E (W)
County McPherson			



$ 7.00 /ft. Well + 3.00 ft for Casing + SCREEN

$ 50.00 /Grout

$ /Test Pumping

$ /Water Sample

Contract Received: 8/21/12

Invoice #: 17540

Date Mailed:

$10.00 ft @ 50 ft =

South Test Well 4

SDK Laboratories

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 # 2849.14
Sample: Water
Other ID: 4 5-Test Well

Yost, Brian
379 28th Avenue
Moundridge, Ks 67107

Date Received: 6/16/2014 12:10:00
Date/Time Sampled: 6/16/2014 9:30:00
Date Reported: 06/18/2014
Total Fee: $ 74.00

ANALYSIS

	Result	Units	Date/Time Analyzed	Analyst
++Chloride - SM 4500-Cl B	9.99	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	0.56	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 requirementsof NELAC unless noted.

Approved By: M. H. Hogan, Quality Assurance Officer
Matt Hogan

Copies

SDK Laboratories

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 # 3814.13
Sample: Wastewater
Other ID: #4 South Test 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: 09/18/2013
Total Fee: $ 74.00

ANALYSIS

	Result	Units	Date/Time Analyzed	Analyst
++Chloride - SM 4500-Cl B	7.50	mg/L	9/13/2013 14:00	SE
++Ammonia-Nitrogen - SM 4500-NH3 B	Less than 0.5	mg/L	9/17/2013 10:00	MH
++Total Kjeldahl Nitrogen - SM 4500-N B	Less than 0.5	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

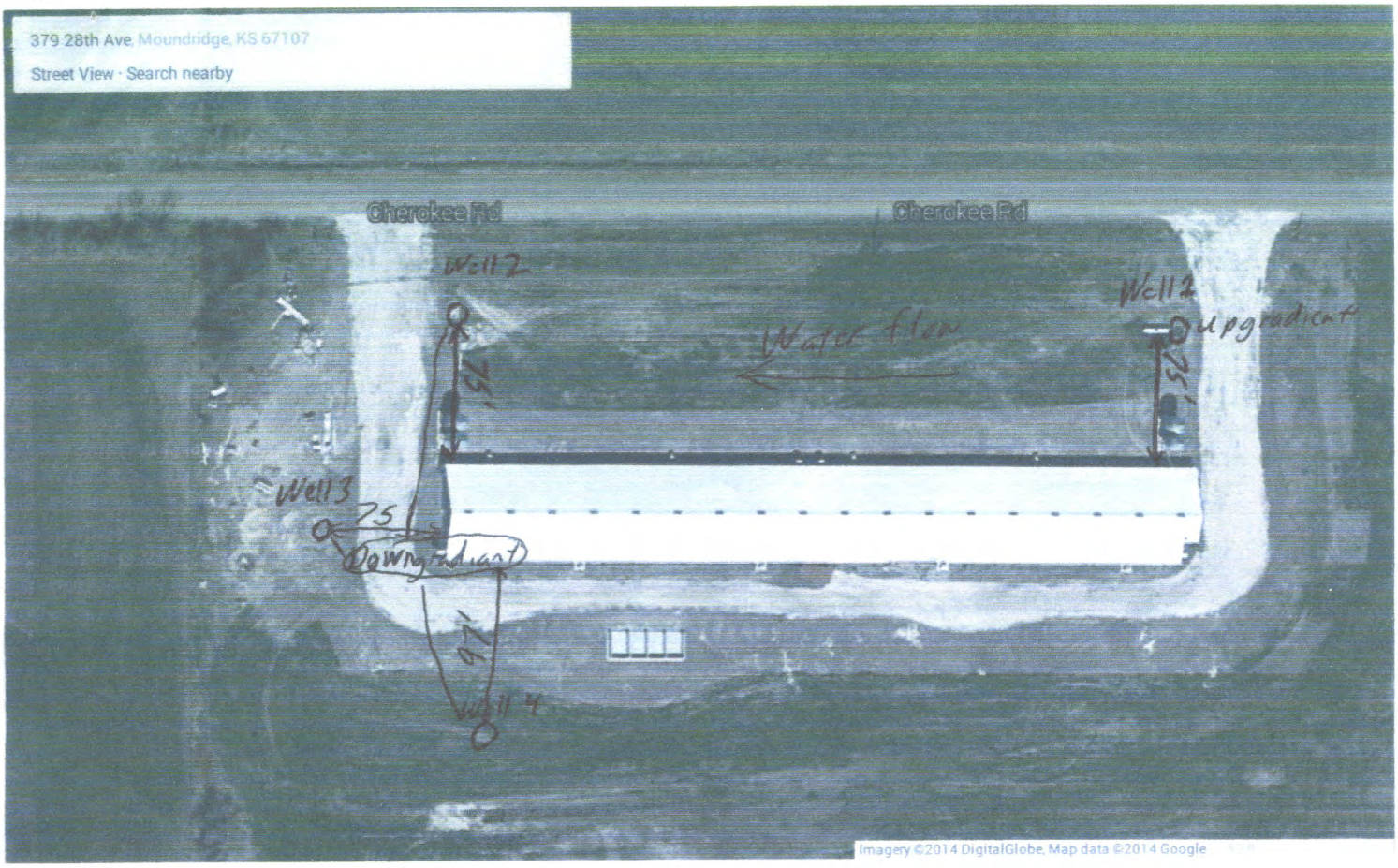
**Sample receipt temperature= 18.9 degrees C

* 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 requirementsof NELAC unless noted.

Approved By: M. A. Hogan, Quality Assurance Officer
Matt Hogan

NELAP ACCREDITED LABORATORY

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

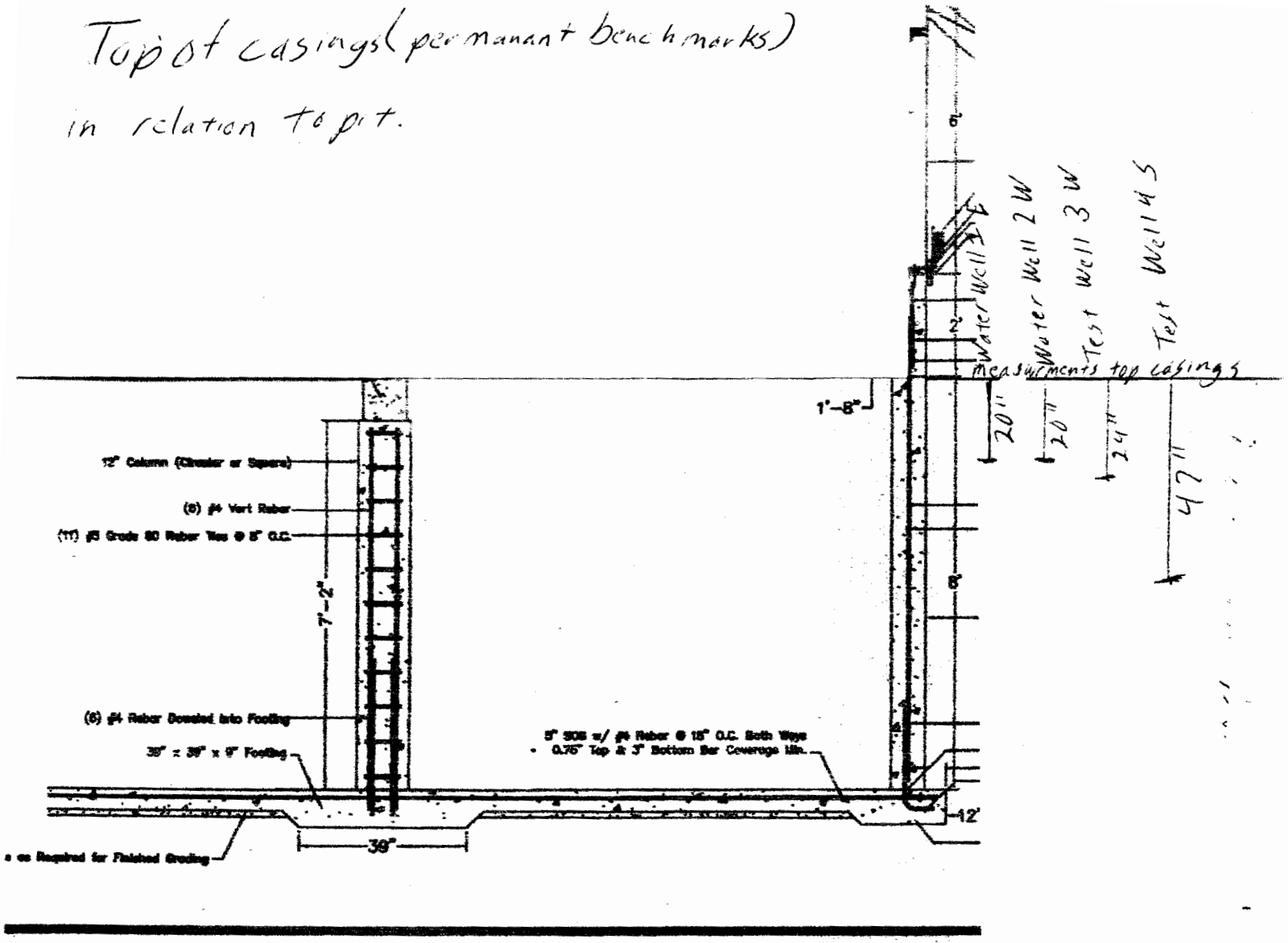

379 28th Ave, Moundridge, KS 67107
Street View · Search nearby
Cherokee Rd
Cherokee Rd
Well 2
Water flow
Well 2
upgradient
Well 3
75'
Downgradient
Well 4
Imagery ©2014 DigitalGlobe, Map data ©2014 Google

Brian Yost historic static water levels and total depth measurments.

	Water Well 1		Water Well2		Test Well 3		Test Well 4	
Date	Water level	Total Depth	Water level	Total Depth	Water level	Total Depth	Water level	Total Depth
8-18-14	10' 8"	51' 6"	10' 10"	39' 5"	8' 5"	50'	6' 5"	51' 10"

Field notes and deviations from GMP ;

Top of casings (permanant benchmarks) in relation to pit.



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.