Cooper, Jeff

From: Cooper, Jeff
Sent: Friday, July 12, 2013 1:15 PM
To: 'taylor@circledfarms.us'
Subject: Broken Meter
Attachments: Approved_flow_meter_list.pdf; 386 Well.pdf

Taylor-

I went for my monthly run on Tuesday (July 9th) and the meter on the 386 Golden Valley Well (see attached map) is not functioning. As soon as you can get out there to get it replaced or repaired, please let me know. Until then I will have to estimate how much you are pumping based on historical records I have. Typically this time of year that pump can produce around 850 gpm and I am assuming that it will be running 24/7. I suspect the flow maybe closer to what the pump can produce in August (~750 gpm) based on the current G.W. levels, so I will probably split the difference to get an estimate. If you have any other information that will help me make a more accurate estimate, please let me know. I have attached a list of Department acceptable meters for your reference. Please let me know what your plans as soon as they are finalized. Thank you and please let me know if you have any questions.

-Jeff C.

Jeffrey S. Cooper
Watermaster WD 450 (Golden Valley Groundwater District)
1341 Fillmore St., Suite 200
Twin Falls, ID 83301-3380
Phone: (208) 736-3033

Version 2.3

Idaho Department of Water Resources
List of Approved Closed Conduit Flow meters

The table below lists flow meters **that have been tested and approved by IDWR for use in closed conduit measurement applications where the installation configuration and application meet manufacturer's requirements for the selected model.** These approved flow meters were subject to testing requirements outlined by IDWR and conducted by staff from Utah State's NIST[1] traceable lab in Logan Utah and performed at or above IDWR minimum acceptable standards for accuracy when installed in piping distances that met or exceeded minimum straight run piping requirements specified by IDWR. The approved list is current as of this printing, but may change as additional models and manufacturers undergo testing and approval. The current version of these standards, including this list, is posted on the IDWR Internet site at the following URL:

http://www.idwr.idaho.gov/WaterManagement/WaterMeasurement/PDFs/Approved_flow_meter_list.pdf

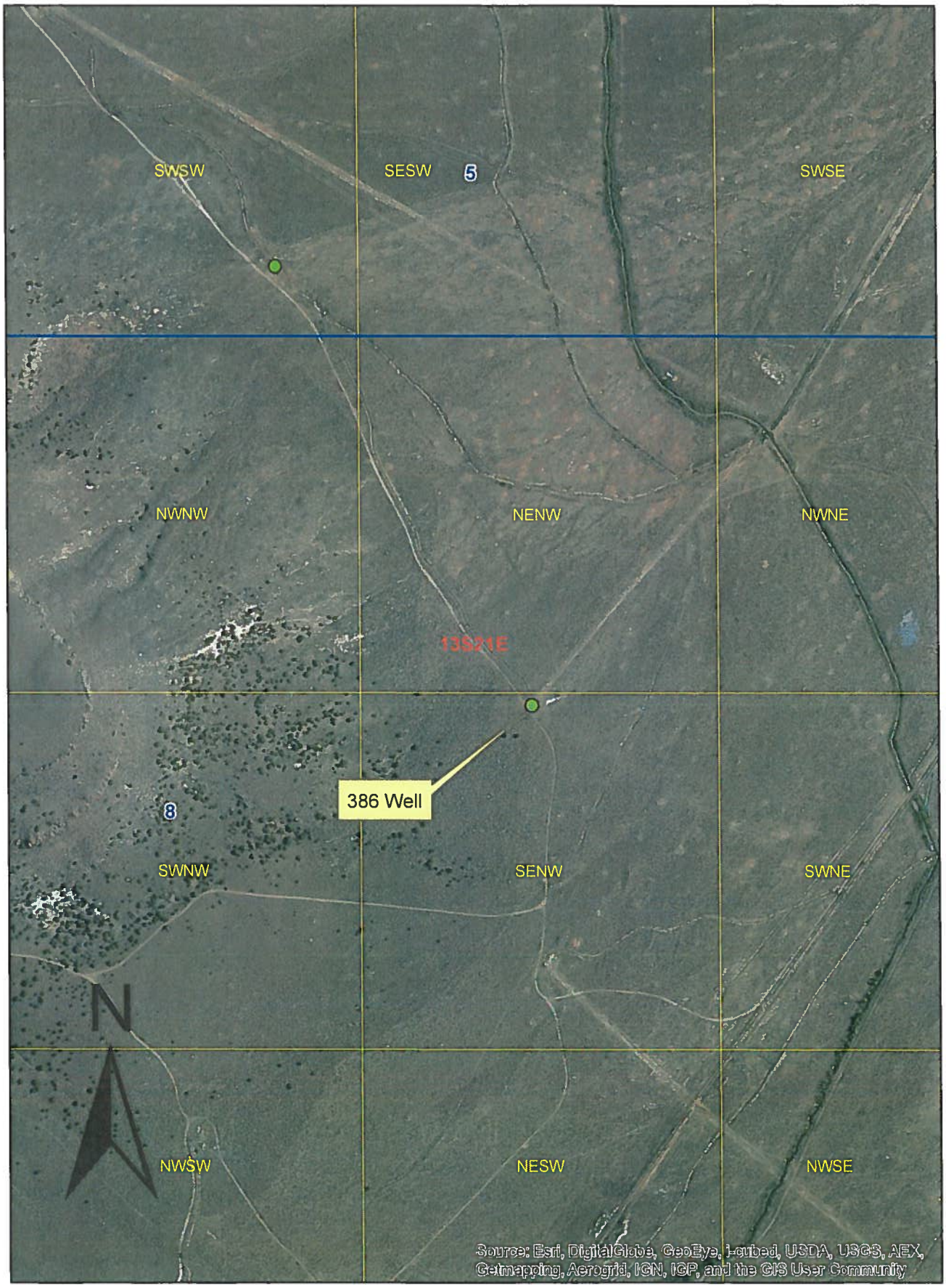
Note that not all models are appropriate for every application. Pipe size, available straight pipe lengths, water chemistry, pressure, velocity, environmental exposure, and power requirements are among the factors affecting whether a given meter will perform for a given application. Prior to selecting a meter, consult the manufacturer's installation requirements to assure they can be met.

Manufacturer	Model/Specifications	Type	IDWR-accepted Pipe Applications (Nominal Pipe Size)
Siemens	CLAMP-ON ULTRASONIC -SITRANS FUS 1010 w/ HIGH PRECISION TRANSDUCERS	Clamp-On Ultrasonic	>12"
Siemens	SITRANS F M MAGFLO MAG 5100W w/ 5000 converter	Full profile Electro-Magnetic	1" to 78"
Siemens	SITRANS FM, MAGFLO 8000, model 7ME6880	Full profile Electro-Magnetic	1" to 48"
Fuji	Time Delta C w/ 1MHz transducers	Clamp-On Ultrasonic	>12"
Seametrics	AG 2000	Full profile Electro-Magnetic	4" to 10"
GE Panametrics	AT868 w/ 1MHz transducers	Clamp-On Ultrasonic or Wetted Transducer	>12"
McCrometer	Ultra Mag w/ M-Series Converter	Full profile Electro-Magnetic	2" to 48"

[1] NIST - National Institute of Standards and Technology.

Manufacturer	Model/Specifications	Type	IDWR-accepted Pipe Applications (Nominal Pipe Size)
Badger	M2000 Amplifier w/ M2000 Detector	Full profile Electro-Magnetic	1/4" to 54"
Khrone	Enviromag 2000 w/ Optiflux 2000 F/G	Full profile Electro-Magnetic	3/8" to 80"
Rosemount	8705 w/ 8732E transmitter	Full profile Electro-Magnetic	1/2" to 36"
Burkert	8054/8055 w/ Magflow transmitter	Full profile Electro-Magnetic	1" to 80"
Sparling	Tiger Mag W/FM6561051110 Converter	Full profile Electro-Magnetic	3/8" to 48"
Sensus	IPerl	Full profile Electro-Magnetic	5/8"-1"
Master Meter	Octave	Full Profile Ultrasonic	2"-10"

386 Golden Valley Well Location



0 0.05 0.1 0.2 0.3 0.4 Miles