1Q2008 Yerington

Slug tests / Pump install /

GW sampling

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"Rite in the Rain"®

ALL-WEATHER

JOURNAL

No. 391

3/5/08

730 MR ONSITE

745 Begin building slugs in lab

PCC Safety Meeting W/TR

930 Load equipment for slug testing

1000 Asked to assist @ 3W-12 development issues
purchased pipe for weighting bailer

1045 use weighted bailer in attempt to bail well.

1145 no success in reaching bottom. bailer stuck
in well. knot gave way. 4' poly bailer &
2 1' galvanized pipes with couplings in well.

1215 Break for lunch

1300 Assist TR @ 28S slug test

1345 Asked to assist Brianna w/ slugging remaining wells
to be developed to ensure that at a minimum
a 3' bailer will make it down each well.

1630 confirmed remaining wells will accept @ 3' bailer
Picked up Rugged reader delivery.

1630 Back to assist TR slugging wells. @ 2I

1715 Finish and head to lab for scheduling & prep work

1745 OFFSITE

3/6/08 134559.004

730 ONSITE

815 work w/TR to slug 3W-22D

915 Run to True Value to restock on twine and pick up
other resources from Lab.

1000 Move to 3W-21D for slug testing

1055 Move to BW 8 cluster

1120 arrive @ 8 cluster. cable is to be installed but don't
have it. move to BW-7D

1135 DTW 151.65 @ 7D

1200 Bailer stuck w/ pump & troll lines
extract troll & slug. need assistance on manipulating
slug.

1215 leave 7D

1230 Lunch

1300 Assist TR @ BW-5 series

1305 BW-5D DTW 29.89

1335 Finish and move to BW-7D

1430 Finish 7D. move to 8 cluster

1445 Setup at 8 cluster

1500 Finish BW-8D

1510 start 3W-8S

1545 Finish @ BW-8S

1615 unload equipment and strategize remaining tasks

1730 OFFSITE

3/7/08

800 ONSITE, load equipment

830 Head to BW-29 series

900 Cant find wells, going to 2002 wells

920 set up on MW-2002-2I DTW 46.28

1000 set up on MW-2002-2 DTW 45.24

1040 Finish MW-2002-2 Clean up + decon

1055 Move to BW-6S & 6D

1110 setup on BW-6S DTW 103.85

1125 setup on BW 6D DTW - 102.94

1150 Decon troll.

1200 Return to office to check on pump delivery status

1230 Lunch, and wait for UPS

1315 Move to BW-29 cluster

1330 BW-29S DTW 75.98

BW-29I-1 DTW 76.04

BW-29I-2 DTW 77.55

1500 UPS arrives. BW-29I-2 test 1 still running

1600 Pumps + compressors stored; back @ 29I-2

1645 Pulled BW-29I-2

1700 Building slugs

1800 OFFSITE

3/8/08

930 ONSITE Pick equipment

1015 Purchase carabiners for transducer install

1130 Arrive @ 4 cluster

1120 start test @ BW-4S DTW 56.36

1140 Finish BW-4S installing Transducer w/ 75' cable

1145 BW-4D DTW 55.61 restarted running test

1210 BW-4I DTW 56.06

1240 pick up equip + decon.

1245 Move to lab

1310 Arrive @ BW-19 cluster

1320 BW-19I DTW-96.35 3 tests

1345 BW-19S DTW-96.44 screen is not saturated so only rising head test can be performed approximately 1.5' water in well

1445 First set of data no good redoing tests

1510 Break for lunch

1535 Look for BW-20

1550 BW-20 DTW 31.81

1605 2 full tests run.

1630 OFFSITE

3/9/08

1000 ONSITE

1050 Arrive at BW-27 cluster

BW-27S DTW 18.36 3 tests

1200 BW-27D DTW 24.99 3 tests

1230 WL Monitoring tests setup in both wells.

1300 Arrive @ BW-25 cluster

1305 BW-25I DTW 19.09

BW-25S DTW ~~17.09~~ 17.91

BW-25D DTW 20.41

1310 BW-25I 3 tests run

1330 BW-25S 3 tests run WL test setup 17.91

1355 BW-25D 2 tests run slow recovery

WL test setup @ 20.41 DTW

1600 OFFSITE

3/10/08

800 ONSITE

setup sampling schedule + equipment

for pump installation + sampling.

1200 lunch

1230 return to prep work.

1600 compressors running.

1700 OFFSITE

3/11/08

700 ONSITE. Tom Judy of QED is onsite to assist w/ pump installation.

730 Get equipment together.

1000 Make crew to BW-25 cluster for pump installation training.

1200 Break for lunch

1300 Pack up pumps for installation

1400 @ MW-200Z-1 pump installed transducer was removed & reinserted but cable is now longer than the top of the pump. Test will need to stopped and restarted w/ new pressure/depth logged down.

1425 move to BW-35 Pump installed. Transducer needs to be restarted

1440 Arrive @ BW 285

1445 Pump set

1450 arrive @ BW-105 insert pump

1515 arrive @ BW-55 installed pump

1530 arrive @ BW-95 installed pump transducer will need to be reset.

1545 arrive @ BW-27 insert pump redo transducer

1605 arrive @ W5AB-2 Tubing is too long. orig 22.6' removing 1.5' to bring pump 17.5' above bottom total depth 27' final assembly will

3/11/08 Cont'd

can't wait until later.

1630 Install W5AB3

1650 W5BB is 5" diameter pump head is 4" will need to make adjustments

1700 Back to modify W5AB2

1800 OFFSITE

3/12/08

700 ONSITE Calibrating equip. loading pumps to be installed

3I, ~~[illegible]~~ MW2002-2, 2I, BW05, 11S, MW04

MW-5, 22D, ~~[illegible]~~, WW-1, WW-3u, BW-21, BW-20

PAMW-2, PA MW-3, PA MW-1, W5AB-2, W32-BC,

USGS-13, BW-28ID, 4I, 4S, W5AA1, W5AA3,

D5AC-1, D4BC-1, BW-1S, 1II, W4CB-2

930 arrive @ MW-5 pump needs to be shortened 3.0' will come back to adjust

1000 move to BW-11S, transducer removed, pump installed and transducer reinstalled

1015 MW-2002-2 will need to be shortened 3'

1030 W5AB-2 installed

1035 USGS-13 will need 3' removed

move to BW-1S transducer pulled, pump installed, transducer replaced.

1100 BW-20 needs a 4" head, fitted w/2"

1120 Reload pumps

1140 @ BW3 cluster BW3I installed

1155 arrive @ BW-19 cluster 19S & 19I installed.

1230 truck unloaded, restocked pumps. Break for lunch

1300 Begin pump alterations

BW-20 fitted 4" cap

MW-2002-2 -3' tubing ~56'

W5AA3 -3' tubing ~19.8'

3/12/08 Cont'd

1310 D5AC-1 removed 3' now 31'

D4BC-1 remove 3' now

1440 move to BW-20

1450 BW-20 installed w/ 4" header

1520 Dimensions for W5-BB's custom cap

well ID: 5" measured in 5 locations.

Lid ID: 5.75"

Well thickness: .25"

well OD: 5.50"

Cap has 5/8" between wall and notch

1550 W5AA1 installed.

1600 D4BC1 installed

1628 Look for W5AA-3 can't find it

1640 install USGS-13

1645 @ MW-5 to adjust tubing inserted & adjusted 3' shorter

1915 OFFSITE

3/13/03

700 ONSITE

830 Packed for sampling

900 arrive @ BW-5 cluster

905 8S pump installed.

915 BW-8S DTW 141.12

1045 sample BW-8S

1105 set up @ BW-8D DTW 140.70

1210 sample BW-8S

1300 Dropoff samples to PB, lunch

1340 Move to BW-7D 151.57

1450 sample BW-7

1530 packed up and moving to

1535 arrive @ 19 cluster

1540 BW-19S DTW 46.39

1640 sample BW-19S

1805 Move to lab to pack samples

YSI serial # 06L1239 AK

1830 OFFSITE

3/14/03

700 ONSITE

800 Move to BW-19I

805 19I - DTW 46.21

905 sample BW-19I

930 move to BW-5D 24.98

945 start pumping

YSI serial # 06L1239 AK

1030 sample BW-5D

1100 move to BW-3D 24.78 DTW

1120 Begin purge BW-3D

1200 sample BW-3D

1230 move to lab to pack samples

1400 OFFSITE

3/15/08

700 ONSITE

Tasks slug test and drop pumps

wells BW-18S, 18D, 16D, 24D's

945 Purchase supplies

1026 Arrive @ BW-24D for slug test.

DTW 76.36

3 tests run.

1100 move to BW-18 clusters

1105 start slug @ BW-18S

DTW = 20.95 3 tests run

DTW ON BW-18D = 20.83'

1150 start slug @ BW-18D

1245 3 test run and break for lunch

1330 Begin well head cap alterations

1500 Install BW-19D

1525 Install BW-18S

1545 Install BW-1I1

1600 OFFSITE

3/16/08

900 ONSITE Pack truck

930 @ BW-18I to slug

DTW 20.42

940 3 tests run

950 Install BW-18I pump

1010 install pump safety measure @ WSDB

1030 At BW-16D DTW 191.55

3 tests run

pump installed

1130 arrive @ BW-23D

DTW - 228.94

4 tests run.

1230 unpack slug equip.

1300 break for lunch.

1330 begin switching out pump heads w/transducers

1340 @ BW-5D & 5S no change out needed

1350 @ BW-8S & 8D to change caps

1420 move to lab to refurbish well caps.

1520 head out to 2D, 2002-1

1610 head to 45, 4D

1640 head to 35, 3D

1655 head to 25S, 25D

1710 head to 9D, 9S

1745 change out 27S, 27D

1800 change out 1S, 1D

3/16/08 Cont'd

1815 change out BW-115. one unit short 11D needs to be changed out. gas line clamp needed.

1840 unload.

1900 OFFSITE

3/17/08

645 ONSITE load truck set up meeting

800 head to BW-13

DTW - 126.15'

820 start purge

915 sample

945 pick up move to BW-21

1010 setup @ BW-21

DTW - 54.08

1115 sample collected

1200 Deliver samples

1230 Arrive @ 6 cluster

1235 BW-6S DTW: 103.83

1345 sample BW-6S

1405 BW-6D DTW 102.90

1410 Purge began

1500 sample BW-6D

1520 move to BW-22

1530 DTW: 154.83

1540 start purge

1645 sample BW-22D

1700 unload

1845 OFFSITE

3/18/08

645 ONSITE Load trucks

740 move to 18 cluster

800 BW-18I DTW 20.47

915 sample BW-18I

940 BW-18D DTW 20.85

945 purge begins

1045 Sample BW-18D

1100 compressor keeps stalling multiple filters needed as flow rate drops quickly w/filter 6 used.

1145 running w/ second compressor. Completing sample

1205 BW-18D Finished

1210 BW-8S DTW: 20.98

1222 Purge parameters commence

1350 Sample complete

1410 Pack up. drop off sample

1500 setup @ BW-2I DTW: 17.85

1510 start initial purge

1605 sample

1800 OFFSITE

3/19/08

645 ONSITE load vehicles

800 @ BW-2D DTW 19.26

850 Sample

920 move to help change out BW-11D3 pump head

950 MW2002-1 DTW 15.80

1035 MW 2002-1 Sampled

1115 Finished @ MW-2002-1

1245 arrive @ BW-25D DTW 20.40

1245 Sample BW-25D

1300 move to BW-11D3

1325 deliver samples to lab for shipping

1400 return to BW-11D3 DTW 37.92

1410 start purge, initial purge @ ~500 mL/min caused drawdown and rate reestablished down to ~80 mL/min and wl stabilized @ 54.42

1525 sample collection commenced.

1700 samples filled

1830 offsite

3/20/03

745 ONSITE

815 move to W32DC. Install pump. 5" well w/ 4" pump head. Pump sits bottom w/approx. 20' tubing remaining. Pump raised 5' and held in place w/engineering controlls and purge began.

855 Purge begun DTW 17.16

955 Sample started

1040 pump placed on well bottom cap removed and tubing secured w/electrical tape and tied off. when new caps arrive lift pump 5' and trim excess tubing to length.

1140 Arrive @ W5D8 pull pump up 5' from bottom.
DTW 31.03

1145 Begin purge

1250 sample collected.

1330 deliver sample for shipping

1405 arrive @ MW-4 DTW: 79.77

1415 start purge

1520 sample

1550 unload equipment
OFFSITE