WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion

Site: Albion L.F.

Project No.: 04011.02

Date: ~~12/14/92~~ 12/15/92

Tested By: JAC

WELL DATA

Well I.D.: MW-1-SG

Casing Diameter: 2" PVC

Total Depth: 37.5 Below Ground

Screened Interval: 32.5 – 37.5 Below Grd.

Borehole Diameter: 4¼" ID HSA

Sand Pack or Natural Collapse

Depth to Water (TOC): ~33

TOC to Ground: 2.5

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test)

SCALE: 20.121

OFFS: 0.071

DSP: En:TOC

US EPA RECORDS CENTER REGION 5
471139

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 8:52 – 9:00 8 (min)

PRESSURE: (min)

GAGE: -18 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-1-SG.HDR

DATA FILE: MW-1-SG .dat

COMPUTER ID: Toby 2 + disk

COMMENTS

Allowed XD at least 10 min. to stabilized temp. of water
initial reading: 2.13 final prior to test: 2.13
I wasn't certain if a vacuum would work because W.L. is close to screen.
After test I dumped + viewed data and it appears good.

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion LF
Project No.: 04011.02
Date: 12/14/92
Tested By: JDC

WELL DATA

Well I.D.: MW-1WB
Casing Diameter: 2"
Total Depth: 59 Below Grd
Screened Interval: 54 - 59 Below Grd
Borehole Diameter: 4 1/4" I.D HSA
Sand Pack or Natural Collapse
Depth to Water (TOC): ~32.~~[illegible]~~
TOC to Ground: 2.6

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750
Access menu press:
ENTER & DATA Simultaneously
SEL: 1 (Erase tests equal or above)
RATE: LOG 00:30
INP: 1
TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8
Access menu press:
ENTER & XD Simultaneously
IN: 1
REF: 0.00 (entered each test)
SCALE: 20.121
OFFS: 0.071
DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:
LENGTH:
DIAMETER:

PNEUMATIC METHOD:
VAC: 3:58 - 4:43 45 (min)
PRESSURE: (min)
GAGE: ~~-18~~ -20 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-1-WB.Hdr
DATA FILE: MW-1-WB.dat
COMPUTER ID: Toby-2 + Disk

COMMENTS

Initial reading: ~~3.27~~ vac. leak reset, Int. reading: 3.30;
-2.27 after 8 min. of vac., slow to equilibrate, ~0.8 after 20 min.; 2.48 after 32 min.
3.11 after 45 min. (Good enough)

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion L.F.
Project No.: 04011.02
Date: 12/14/92
Tested By: JOC

WELL DATA

Well I.D.: MW-1 SB
Casing Diameter: 2"
Total Depth: 72.5 Below Grd.
Screened Interval: 67.5 - 72.5 Below Grd.
Borehole Diameter: 4 1/2"
Sand Pack or Natural Collapse
Depth to Water (TOC): ~33.39
TOC to Ground: 2.64

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 not reset (entered each test)

SCALE: 20.121

OFFS: 0.071

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 3:09 - 3:25 16 (min)

PRESSURE: (min)

GAGE: - 20 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-1-SB.HDR

DATA FILE: MW-1-SB .dat

COMPUTER ID: Toby-2 + Disk

COMMENTS

initial XD: 2.55; final prior to test 2.52 (with Vacuum)
Last reading may be incorrect because I moved the XD before stopping test.

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion | Site: Albion

Project No.: 04011.02 | Date: 12/15/92

Tested By: QDC

WELL DATA

Well I.D.: MW-2-SG | Casing Diameter: 2" PVC

Total Depth: 35 | Screened Interval: 30-35

Borehole Diameter: 4¼" HSA | Sand Pack or Natural Collapse

Depth to Water (TOC): ~28 | TOC to Ground: ~2.5

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: IKB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 2 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) forgot to reset reference

SCALE: 20.121'

OFFS: 0.071

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE: _____

LENGTH: _____

DIAMETER: _____

PNEUMATIC METHOD:

VAC: 11:21 - 11:35 14 (min)

PRESSURE: _____ (min)

GAGE: -9 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-2-SG.HDR | DATA FILE: MW-2-SG .dat

COMPUTER ID: Toby-2 + Disk

COMMENTS

initial Reading: 2.56, Final 2.55

Forgot to reset reference to zero before vacuum. The casing turned as I put the plumbing into the well - the vacuum was not as high

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion

Site: Albion

Project No.: 04011.02

Date: 12/15/92

Tested By: JAC

WELL DATA

Well I.D.: MW-2-WB

Casing Diameter: 2" PVC

Total Depth: 53

Screened Interval: 48-53

Borehole Diameter: 4¼" HSA

Sand Pack or Natural Collapse

Depth to Water (TOC): ~28

TOC to Ground: 2'

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 1 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test)

SCALE: 20.121

OFFS: 0.071

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 10:43 - 10:56 13 (min)

PRESSURE: (min)

GAGE: -20 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-2-WB.HDR

DATA FILE: MW-2-WB.dat

COMPUTER ID: Toby-2 + disk

COMMENTS

initial Reading: 3.11, Final 3.04

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SLUG TEST DATA SHEET

Client: Albion Site: Albion

Project No.: 04011.02 Date: 12/15/92

Tested By: JAC

WELL DATA

Well I.D.: MW-2-SB Casing Diameter: 2" PVC

Total Depth: 65 Below Gd Surf. Screened Interval: 60-65 Below Grd.

Borehole Diameter: core barrel Sand Pack or Natural Collapse

Depth to Water (TOC): ~28 TOC to Ground: 2.2

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) forgot to re-set before starting test

SCALE: 20.121

OFFS: 0.071

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 10:00 - 10:13 13 (min)

PRESSURE: (min)

GAGE: -18 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-2-SB.HDR DATA FILE: MW-2-SB .dat

COMPUTER ID: Toby-2 + Disk

COMMENTS

Initial Reading: 1.88, Final: 1.89 ~~After vac. The data for this tests seems strange. Slug goes from -13 → 0 → +2.86 → .78 +.65 → .50 (all in less than 1/2 min.) If time allows I may re-run this well~~

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/16/92
Tested By: DAC

WELL DATA

Well I.D.: MW-3-SG
Casing Diameter: 2" PVC
Total Depth: 44
Screened Interval: 39-44
Borehole Diameter: 4 1/4" HSA
Sand Pack or Natural Collapse
Depth to Water (TOC): ~31
TOC to Ground: 2.5

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1 KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 2 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) ok

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 9:33 - 9:41 8 (min)

PRESSURE: (min)

GAGE: -17 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-3-SG.HDR
DATA FILE: MW-3-SG.dat
COMPUTER ID: T-2 + disk

COMMENTS

initial: 2:46 final 2:47
6" ~~dia~~ long piece of casing at top - where it connects the threads are screwed up in well - vacuum may not hold.

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion Site: Albion

Project No.: 04011.02 Date: 12/16/92

Tested By: JPC

WELL DATA

Well I.D.: MW-3-WB Casing Diameter: 2" PVC

Total Depth: ~~59~~ ok Screened Interval: ~~54-59~~ ok

Borehole Diameter: 4 1/4" HSA Sand Pack or Natural Collapse

Depth to Water (TOC): ~32 TOC to Ground: ~2.8

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 1 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 okay (entered each test)

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 8:59 - 9:08 9 (min)

PRESSURE: (min)

GAGE: -17 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-3-WB.HDR DATA FILE: MW-3-WB.dat

COMPUTER ID: T-2 + disk

COMMENTS

initial 3.89 Final: 3.87

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ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 2/2/93
Tested By: JC

WELL DATA

Well I.D.: MW-3WB Dup
Casing Diameter: 2" PVC
Total Depth: 59 (60)
Screened Interval: 54-59 (60-52)
Borehole Diameter:
Sand Pack or Natural Collapse
Depth to Water (TOC): 31.47
TOC to Ground: 2.55

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 4

Access menu press:
ENTER & DATA Simultaneously

SEL:_____ (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 10-1

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) forgot to reset ref.

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: ~8 (min)

PRESSURE: (min)

GAGE: 12 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW3WBDUP.HDR
DATA FILE: MW3WBDUP.dat
COMPUTER ID: T-2
initial Slug = 9.47

COMMENTS

initial ~~3:03~~ 3:31 Final 3:30

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ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion | Site: Albion

Project No.: 04011.02 | Date: 12/16/92

Tested By: JAC

WELL DATA

Well I.D.: MW-3-5B | Casing Diameter: 2" PVC

Total Depth: 69.5 | Screened Interval: 64.5 - 69.5

Borehole Diameter: 3 7/8" | (Sand Pack) or Natural Collapse

Depth to Water (TOC): ~31 | TOC to Ground: 3

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: (0.00) ok (entered each test)

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or (Pneumatic)

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 8:22 - 8:32 10 (min)

PRESSURE: (min)

GAGE: -11 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-3-5B.HDR | DATA FILE: MW-3-5B.dat

COMPUTER ID: T-2 + disk

COMMENTS

initial: 4.63, final 4.61

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ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/17/92
Tested By: JSC

WELL DATA

Well I.D.: MW-4-SG
Casing Diameter: 2" PVC
Total Depth: 36.5
Screened Interval: 31.5 - 36.5
Borehole Diameter: 4¼ HSA
(Sand Pack) or Natural Collapse
Depth to Water (TOC): ~31
TOC to Ground: 2.5

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 2 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: (0.00) (entered each test) ok

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or (Pneumatic)

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 12:00 - 12:07 7 (min)

PRESSURE: (min)

GAGE: -18 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-4-SG.HDR
DATA FILE: MW-4-SG .dat
COMPUTER ID: T-2 + disk

COMMENTS

initial: 4.40 final: 4.38
also performed a second test on this well using the other vac. pump. I dumped it as MW SG-4

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion Site: Albion

Project No.: 04011.02 Date: 2/2/93

Tested By: QAC

WELL DATA

Well I.D.: MW-4SG Dup Casing Diameter: 2" PVC

Total Depth: _____ Screened Interval: _____

Borehole Diameter: _____ Sand Pack or Natural Collapse

Depth to Water (TOC): 30.84 TOC to Ground: _____

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 4

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 10-1

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 okay (entered each test)

SCALE: _____

OFFS: _____

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE: _____

LENGTH: _____

DIAMETER: _____

PNEUMATIC METHOD:

VAC: ~9 (min)

PRESSURE: _____ (min)

GAGE: 12" (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW4SGDUP.HDR DATA FILE: MW4SGDUP.dat

COMPUTER ID: T-2

initial Slug = 13.38

COMMENTS

inti : 3.12

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion

Site: Albion

Project No.: 04011.02

Date: 12/17/92

Tested By: JC

WELL DATA

Well I.D.: MW-4-WB

Casing Diameter: 2" PVC

Total Depth: 61.0

Screened Interval: 56-61

Borehole Diameter: 3 7/8"

Sand Pack or Natural Collapse

Depth to Water (TOC): ~31

TOC to Ground: 2.3

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 1 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) OK

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 11:31 - 11:41 10 (min)

PRESSURE: (min)

GAGE: -19 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-4-WB.HDR

DATA FILE: MW-4-WB .dat

COMPUTER ID: T-2 + disk

COMMENTS

initial: 5.04 final: 5.05

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion | Site: Albion

Project No.: 04011.02 | Date: 12/17/92

Tested By: JSC

WELL DATA

Well I.D.: MW-4-SB | Casing Diameter: 2" PVC

Total Depth: ~~75~~ 73.0 | Screened Interval: 68-73

Borehole Diameter: 3 7/8 | Sand Pack or Natural Collapse

Depth to Water (TOC): ~31 | TOC to Ground: 2.1

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) ok

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 11:05 - 11:11 (min)

PRESSURE: (min)

GAGE: -17 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-4-SB, HDR | DATA FILE: MW-4-SB .dat

COMPUTER ID: T-2 + disk

COMMENTS

initial: 8.08 final 8.06

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion Site: Albion

Project No.: 04011.02 Date: 12/15/92

Tested By: gpc

WELL DATA

Well I.D.: MW-4-DB Casing Diameter: 2" PVC

Total Depth: 100.0 Screened Interval: 95-100

Borehole Diameter: 3 7/8" (Sand Pack) or Natural Collapse

Depth to Water (TOC): ~31 TOC to Ground: 2.4

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1 KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 3 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) ok

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or (Pneumatic)

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: ~~5:04~~ 5:14 - 5:25 (11 min)

PRESSURE: (min)

GAGE: -15 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-4-DB.HDR DATA FILE: MW-4-DB.dat

COMPUTER ID: T-2 + disk

COMMENTS

initial: 3.70, final: 3.65

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion | Site: Albion

Project No.: 04011.02 | Date: 12/15/92

Tested By: JAC

WELL DATA

Well I.D.: MW-5-5G | Casing Diameter: 2" PVC

Total Depth: 28 | Screened Interval: 23-28

Borehole Diameter: 4 1/4" HSA | Sand Pack or Natural Collapse

Depth to Water (TOC): ~~24~~ ~21 | TOC to Ground: 2.3

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 1 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 okay (entered each test)

SCALE: 20.121

OFFS: 0.071

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE: _____

LENGTH: _____

DIAMETER: _____

PNEUMATIC METHOD:

VAC: 1:59 - 2:05 6 (min)

PRESSURE: _____ (min)

GAGE: -16 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: — .HDR | DATA FILE : — .dat

COMPUTER ID: T-2 + disk

COMMENTS

initial reading 6.05, final: 6.05
will reduce vacuum same as for MW-5-5B by shutting valve
and watching gage to see it stays constant

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/15/92
Tested By: QAC

WELL DATA

Well I.D.: MW-5-5B
Casing Diameter: 2" PVC
Total Depth: 75.5
Screened Interval: 70.5 - 75.5
Borehole Diameter: 3 7/8" tri-cone ~~Core barrel~~
(Sand Pack) or Natural Collapse
Depth to Water (TOC): ~23
TOC to Ground: 2.5

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: IKB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 okay (entered each test)

SCALE: 20.121

OFFS: 0.071

DSP: En:TOC

SLUG TEST

METHOD: Bailer or (Pneumatic)

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 1:25 - 1:32 ~~#~~7 (min)

PRESSURE: (min)

GAGE: -16 (in Hg)

DATA TRANSFER

DATA + TEXT FILE:

DATA FILE : .dat

COMPUTER ID:

COMMENTS

Initial: 4.84, Final: 4.84
Will try to reduce vacuum (~20' available casing) so as not to draw water into pump.

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion Site: Albion

Project No.: 04011.02 Date: 2/2/93

Tested By: QAC

WELL DATA

Well I.D.: MW-5SB Dup. Casing Diameter: 2" PVC

Total Depth: _____ Screened Interval: _____

Borehole Diameter: _____ Sand Pack or Natural Collapse

Depth to Water (TOC): 22.15 TOC to Ground: _____

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 4

Access menu press:
ENTER & DATA Simultaneously

SEL: _____ (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 10-1

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 ok (entered each test)

SCALE: _____

OFFS: _____

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE: _____

LENGTH: _____

DIAMETER: _____

PNEUMATIC METHOD:

VAC: ~9 (min)

PRESSURE: _____ (min)

GAGE: 12" (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW5SBDUP.HDR DATA FILE: MW5SBDUP.dat

COMPUTER ID: T-2

initial Slug = 14.24

COMMENTS

initial Reading: 2.01 final 2.00

~~initial Slug = 4.09~~

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion Site: Albion

Project No.: 04011.02 Date: 12/17/92

Tested By: DDC

WELL DATA

Well I.D.: MW-6-SG Casing Diameter: 2" PVC

Total Depth: 28 Screened Interval: 23-28

Borehole Diameter: 4¼" HSA (Sand Pack) or Natural Collapse

Depth to Water (TOC): ~21 TOC to Ground: 2.0

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: (0.00) (entered each test) not reset

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or (Pneumatic)

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 9:25-9:55 30 (min)

PRESSURE: (min)

GAGE: (in Hg)

DATA TRANSFER

DATA + TEXT FILE: DATA FILE : .dat

COMPUTER ID:

COMMENTS

initial: 2.40 final 2.11

very slow to equilibrate

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/16/92
Tested By: DAC

WELL DATA

Well I.D.: MW-6-WB
Casing Diameter: 2" PVC
Total Depth: 51
Screened Interval:
Borehole Diameter:
Sand Pack or Natural Collapse
Depth to Water (TOC): ~23
TOC to Ground: 2.6 (tg)

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750
Access menu press:
ENTER & DATA Simultaneously
SEL: 3 (Erase tests equal or above)
RATE: LOG 00:30
INP: 1
TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8
Access menu press:
ENTER & XD Simultaneously
IN: 1
REF: 0.00 OK (entered each test)
SCALE:
OFFS:
DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:
LENGTH:
DIAMETER:

PNEUMATIC METHOD:
VAC: 5:07 – 5:20 ~~15~~ 14 (min)
PRESSURE: (min)
GAGE: -17 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-6-WB.HDR
DATA FILE: MW-6-WB.dat
COMPUTER ID: T-2 + disk

COMMENTS

initial: 1.80 final 1.40

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion

Site: Albion

Project No.: 04011.02

Date: 12/16/92

Tested By: gac

WELL DATA

Well I.D.: MW-6-SB

Casing Diameter: 2" PVC

Total Depth: 75.3

Screened Interval: 70.3-75.3

Borehole Diameter: 3" (verify no tri-cone reaming)

Sand Pack or Natural Collapse

Depth to Water (TOC): ~23

TOC to Ground: 2.5

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 2 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) ok - ?

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 4:35 - 4:43 8 (min)

PRESSURE: (min)

GAGE: -16 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-6-SB.HDR

DATA FILE : MW-6-SB .dat

COMPUTER ID: T-2 + disk

COMMENTS

initial : 6.94 , final 6.93

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/15/92
Tested By: JSC

WELL DATA

Well I.D.: MW-7-SG (east)
Casing Diameter: 2" PVC
Total Depth: 20
Screened Interval: 15-20
Borehole Diameter: 4¼" HSA
Sand Pack or Natural Collapse
Depth to Water (TOC): ~13'
TOC to Ground: 3.1

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1 KB-750
Access menu press:
ENTER & DATA Simultaneously
SEL: 2 (Erase tests equal or above)
RATE: LOG 00:30
INP: 1
TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8
Access menu press:
ENTER & XD Simultaneously
IN: 1
REF: 0.00 ok (entered each test)
SCALE:
OFFS:
DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:
LENGTH:
DIAMETER:

PNEUMATIC METHOD:
VAC: 4:30 - 4:32 2 (min)
PRESSURE: (min)
GAGE: -10 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-7-SG.HDR
DATA FILE: MW-7-SG.dat
COMPUTER ID: T-2 + disk

COMMENTS

initial: 3.76, final 3.75

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/15/92
Tested By: DPC

WELL DATA

Well I.D.: MW-7-WB
Casing Diameter: 2" PVC
Total Depth: 47.0
Screened Interval: 42-47
Borehole Diameter: 4 1/4" HSA
Sand Pack or Natural Collapse
Depth to Water (TOC): 43'
TOC to Ground: 2.9

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 1 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) — okay

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 4.02 - 4.05 3 (min)

PRESSURE: (min)

GAGE: -10 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: — .HDR

DATA FILE : .dat

COMPUTER ID: T-2 + disk

COMMENTS

initial: 2.76 Final 2.76

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion | Site: Albion

Project No.: 04011.02 | Date: 12/15/92

Tested By: DC

WELL DATA

Well I.D.: MW-7-SB (west) | Casing Diameter: 2" PVC

Total Depth: 60 | Screened Interval: 55-60

Borehole Diameter: 3 7/8" | Sand Pack or Natural Collapse

Depth to Water (TOC): ~13 | TOC to Ground: 2.6

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 okay (entered each test)

SCALE: 20.121

OFFS: 0.071

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE: _____

LENGTH: _____

DIAMETER: _____

PNEUMATIC METHOD:

VAC: 3:33 - 3:40 7 (min)

PRESSURE: _____ (min)

GAGE: -13 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: —.HPR | DATA FILE : _____.dat

COMPUTER ID: T-2 t' disk

COMMENTS

initial: 3.35 Final: 3.35

at ~13 in Hg some water went in to pump, shut valve. The data for this well seems strange... Max slug is ~-13 which goes to 0 → +2.86 → -.78 → +.65 → -.30 (all in less than 1/2 min.)

If time allows I may retest this well.

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion

Site: Albion

Project No.: 04011.02

Date: 12/16/92

Tested By: JPC

WELL DATA

Well I.D.: ~~MW~~ MW-8-SG

Casing Diameter: 2" PVC

Total Depth: 31

Screened Interval: 26 – 31

Borehole Diameter: 4¼" HSA

Sand Pack or Natural Collapse

Depth to Water (TOC): ~25

TOC to Ground: 2.2

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 2 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) OK

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 11:50 - 12:04 14 (min)

PRESSURE: (min)

GAGE: (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-8-SG.HDR

DATA FILE: MW-8-SG .dat

COMPUTER ID: T-2 + disk

COMMENTS

initial: 8.04 Final 7.90

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/16/92
Tested By: JAC

WELL DATA

Well I.D.: MW-8-WB
Casing Diameter: 2" PVC
Total Depth: 58 (Filter Pack to 60')
Screened Interval: 53-58
Borehole Diameter: 4 1/4" HSA to 55' / 3 7/8" to 60'
Sand Pack or Natural Collapse
Depth to Water (TOC): ~34
TOC to Ground: 2.6

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 1 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) ok

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 11:14 - 11:24 10 (min)

PRESSURE: (min)

GAGE: -18 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-8-WB.HDR
DATA FILE: MW-8-WB.dat
COMPUTER ID: T-2 + disk

COMMENTS

initial: 1.92 final: 1.70

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/16/92
Tested By: PC

WELL DATA

Well I.D.: MW-8-SB
Casing Diameter: 2" PVC
Total Depth: 70 72 ?
Screened Interval: 67-72
Borehole Diameter: 3 7/8"
Sand Pack or Natural Collapse
Depth to Water (TOC): ~35
TOC to Ground: 3.1

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750
Access menu press:
ENTER & DATA Simultaneously
SEL: 0 (Erase tests equal or above)
RATE: LOG 00:30
INP: 1
TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8
Access menu press:
ENTER & XD Simultaneously
IN: 1
REF: 0.00 ok (entered each test)
SCALE:
OFFS:
DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:
LENGTH:
DIAMETER:

PNEUMATIC METHOD:
VAC: 10:41 - 10:54 13 (min)
PRESSURE: (min)
GAGE: -18 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-8-SB.HDR
DATA FILE: MW-8-SB .dat
COMPUTER ID: T-2 + disk

COMMENTS

initial: 5.40, final 5.35

+ .05

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/16/92
Tested By: JPC

WELL DATA

Well I.D.: MW-9-SG
Casing Diameter: 2" PVC
Total Depth: 18
Screened Interval: 13 - 18
Borehole Diameter: 4¼" HSA
(Sand Pack) or Natural Collapse
Depth to Water (TOC): ~11
TOC to Ground: ~2.0

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 1 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 not reset (entered each test)

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or (Pneumatic)

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 3:23 - 3:55 32 (min)

PRESSURE: (min)

GAGE: -9 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-9-SG.HDR
DATA FILE: MW-9-SG .dat

COMPUTER ID: T-2 + disk

COMMENTS

initial: 2.15 final: 1.60

very slow to equilibrate

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 12/16/92
Tested By: DAC

WELL DATA

Well I.D.: MW-9-WB
Casing Diameter: 2" PVC
Total Depth: 48
Screened Interval: 43-48
Borehole Diameter: 4¼" HSA
Sand Pack or Natural Collapse
Depth to Water (TOC): ~13
TOC to Ground: ~2.0

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1 KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) OK

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 2:49 - 2.55 6 (min)

PRESSURE: (min)

GAGE: -11 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-9-WB.HDR
DATA FILE: MW-9-WB .dat
COMPUTER ID: T-2 + disk

COMMENTS

initial: 1.94 final 2.17

some water was ~~pulled~~ pull up into the lower part of the plumbing.

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion

Site: Albion

Project No.: 04011.02

Date: 12/16/92

Tested By: JAC

WELL DATA

Well I.D.: MW-9-SB

Casing Diameter: 2" PVC

Total Depth: 60

Screened Interval: ~~60~~ 55-60

Borehole Diameter: 4 1/4" HSA

Sand Pack or Natural Collapse

Depth to Water (TOC): ~13

TOC to Ground: 2.0

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 1KB-750

Access menu press:
ENTER & DATA Simultaneously

SEL: 0 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 20-8

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 not reset (entered each test)

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: 1:48 - 2:02 14 (min)

PRESSURE: (min)

GAGE: -10 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW-9-SB.HDR

DATA FILE: MW-9-SB .dat

COMPUTER ID: T-2 + disk

COMMENTS

initial: 4.96

Threads on coupling are stripped. I had to play with the vacuum value to keep constant vacuum. It will need to be replaced.

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion

Site: Albion L.F.

Project No.: 04011.02

Date: 2/2/93

Tested By: JAC

WELL DATA

Well I.D.: MW-10 re run

Casing Diameter:

Total Depth:

Screened Interval:

Borehole Diameter:

Sand Pack or Natural Collapse

Depth to Water (TOC): 3.71

TOC to Ground:

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 4

Access menu press:
ENTER & DATA Simultaneously

SEL: 3 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 10-1

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 okay (entered each test)

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: (min)

PRESSURE: (min)

GAGE: 2" (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW10.HDR

DATA FILE : MW#10 .dat

COMPUTER ID: T-2

initial Slug 3.23

COMMENTS

initial reading 3.36 final: Vacuum pump is not pulling a good vacuum. Only 2" of Hg max. May because water got into the pump from an earlier test (?). Casing moved

WW ENGINEERING & SCIENCE, INC.
ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion | Site: Albion

Project No.: 04011.02 | Date: 2/2/93

Tested By: JAC

WELL DATA

Well I.D.: MW-11 | Casing Diameter: 2" PVC

Total Depth: | Screened Interval:

Borehole Diameter: | Sand Pack or Natural Collapse

Depth to Water (TOC): 4.49 | TOC to Ground:

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 4

Access menu press:
ENTER & DATA Simultaneously

SEL: 1 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 10-1

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 (entered each test) ok

SCALE:

OFFS:

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:

LENGTH:

DIAMETER:

PNEUMATIC METHOD:

VAC: ~7 (min)

PRESSURE: (min)

GAGE: 3" (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW11.HDR | DATA FILE: MW11 .dat

COMPUTER ID: T-2

initial Slug = 4.43

COMMENTS

initial 2.99 final 2.98

some water was drawn up into the slug unit, but not enough to enter the clear tubing and into pump

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ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion Site: Albion

Project No.: 04011.02 Date: 2/2/93

Tested By: Gpc

WELL DATA

Well I.D.: MW-11 duplicate Casing Diameter: 2" PVC

Total Depth: _____ Screened Interval: _____

Borehole Diameter: _____ Sand Pack or Natural Collapse

Depth to Water (TOC): _____ TOC to Ground: _____

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 4

Access menu press:
ENTER & DATA Simultaneously

SEL: 2 (Erase tests equal or above)

RATE: LOG 00:30

INP: 1

TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 10-1

Access menu press:
ENTER & XD Simultaneously

IN: 1

REF: 0.00 same as before not reset (entered each test)

SCALE: _____

OFFS: _____

DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE: _____

LENGTH: _____

DIAMETER: _____

PNEUMATIC METHOD:

VAC: ~5 (min)

PRESSURE: _____ (min)

GAGE: 3" (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW11DUP.HDR DATA FILE: MW11DUP .dat

COMPUTER ID: T-2

initial slug = 4.71

COMMENTS

initial 2.99

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ENVIRONMENTAL SERVICES DIVISION

SLUG TEST DATA SHEET

Client: Albion
Site: Albion
Project No.: 04011.02
Date: 2/2/93
Tested By: DJC

WELL DATA

Well I.D.: MW-12
Casing Diameter:
Total Depth:
Screened Interval:
Borehole Diameter:
Sand Pack or Natural Collapse
Depth to Water (TOC): 3.76
TOC to Ground:

HERMIT SYSTEM

DATALOGGER

DataLogger I.D.: 4
Access menu press:
ENTER & DATA Simultaneously
SEL: 0 (Erase tests equal or above)
RATE: LOG 00:30
INP: 1
TYPE: LEVEL

TRANSDUCER

Transducer I.D.: 10-1
Access menu press:
ENTER & XD Simultaneously
IN: 1
REF: 0.00 (entered each test) ok
SCALE:
OFFS:
DSP: En:TOC

SLUG TEST

METHOD: Bailer or Pneumatic

BAILER TYPE:
LENGTH:
DIAMETER:

PNEUMATIC METHOD:
VAC: ~10 (min)
PRESSURE: (min)
GAGE: 3 (in Hg)

DATA TRANSFER

DATA + TEXT FILE: MW12.HDR
DATA FILE: MW12. .dat
COMPUTER ID:
Initial Slug = 4.07

COMMENTS

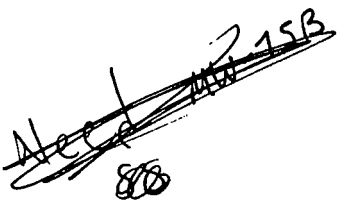
initial Reading: 3.25, final reading 3.22
casing moved as I pulled slug unit. Some water spilled out of valve as I released the vacuum, some water must have raised up into the slug unit, but not enough to enter clear tubing or vacuum pump.

04011.02

Albion Land Fill

Slug Test Results

Hermit Data, header files



SE1000B
Environmental Logger
12/16 07:15

MW-1 SG

Unit# 00750 Test# 0

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 06:58

Elapsed Time	Value
0.0000	-0.03
0.0033	-0.03
0.0066	-0.05
0.0099	-0.02
0.0133	-0.06
0.0166	-0.05
0.0200	-0.03
0.0233	-0.06
0.0266	-0.02
0.0300	-0.06
0.0333	-4.24
0.0500	-6.97
0.0666	-4.07
0.0833	-2.64
0.1000	-2.13
0.1166	-1.54
0.1333	-1.17
0.1500	-0.96
0.1666	-0.78
0.1833	-0.69
0.2000	-0.56
0.2166	-0.48
0.2333	-0.39
0.2500	-0.33
0.2666	-0.30
0.2833	-0.24
0.3000	-0.21
0.3166	-0.21
0.3333	-0.20
0.4167	-0.14
0.5000	-0.12
0.5833	-0.10
0.6667	-0.10
0.7500	-0.10
0.8333	-0.10
0.9167	-0.11
1.0000	-0.09
1.0833	-0.05
1.1667	-0.06
1.2500	-0.06
1.3333	-0.05
1.4166	-0.06
1.5000	-0.07

1.5833	-0.06
1.6667	-0.05
1.7500	-0.07
1.8333	-0.04
1.9167	-0.06
2.0000	-0.05
2.5000	-0.06
3.0000	-0.06
3.5000	-0.04
4.0000	-0.02
4.5000	-0.06
5.0000	-0.06
5.5000	-0.06
6.0000	-0.07
6.5000	-0.06
7.0000	-0.05
7.5000	-0.05
8.0000	-0.03
8.5000	-0.05
9.0000	-0.08
9.5000	-0.05
10.0000	-0.06
12.0000	-0.06

MW-1SG

SE1000B
Environmental Logger
12/15 16:48

MW-1WB

Unit# 00750 Test# 1

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/15 14:40

Elapsed Time	Value
0.0000	0.10
0.0033	0.08
0.0066	0.09
0.0099	0.10
0.0133	0.10
0.0166	0.12
0.0200	0.10
0.0233	-3.01
0.0266	-15.13
0.0300	-19.54
0.0333	-23.46
0.0500	-20.63
0.0666	-21.14
0.0833	-20.87
0.1000	-20.74
0.1166	-20.70
0.1333	-20.61
0.1500	-20.57
0.1666	-20.46
0.1833	-20.44
0.2000	-20.42
0.2166	-20.31
0.2333	-20.31
0.2500	-20.24
0.2666	-20.17
0.2833	-20.07
0.3000	-20.07
0.3166	-20.00
0.3333	-19.99
0.4167	-19.79
0.5000	-19.58
0.5833	-19.42
0.6667	-19.30
0.7500	-19.16
0.8333	-19.05
0.9167	-18.97
1.0000	-18.88
1.0833	-18.79
1.1667	-18.71
1.2500	-18.60
1.3333	-18.53
1.4166	-18.45
1.5000	-18.39

MW-1WB

1.5833	-18.28
1.6667	-18.21
1.7500	-18.10
1.8333	-18.00
1.9167	-17.90
2.0000	-17.79
2.5000	-16.55
3.0000	-14.38
3.5000	-12.28
4.0000	-10.37
4.5000	-8.83
5.0000	-7.59
5.5000	-6.70
6.0000	-6.00
6.5000	-5.44
7.0000	-4.94
7.5000	-4.52
8.0000	-4.19
8.5000	-3.84
9.0000	-3.58
9.5000	-3.32
10.0000	-3.13
12.0000	-2.52
14.0000	-2.17
16.0000	-1.87
18.0000	-1.67
20.0000	-1.52
22.0000	-1.38
24.0000	-1.26
26.0000	-1.13

SE1000B
Environmental Logger
12/15 17:01

MW-1SB

Unit# 00750 Test# 0

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/15 13:23

Elapsed Time	Value
0.0000	0.70
0.0033	0.74
0.0066	0.74
0.0099	0.73
0.0133	0.74
0.0166	0.73
0.0200	0.73
0.0233	-13.91
0.0266	-15.76
0.0300	-18.48
0.0333	-19.54
0.0500	-15.28
0.0666	-12.13
0.0833	-8.96
0.1000	-6.39
0.1166	-4.32
0.1333	-2.74
0.1500	-1.52
0.1666	-0.65
0.1833	0.00
0.2000	0.41
0.2166	0.66
0.2333	0.72
0.2500	0.75
0.2666	0.73
0.2833	0.69
0.3000	0.68
0.3166	0.69
0.3333	0.67
0.4167	0.69
0.5000	0.71
0.5833	0.68
0.6667	0.71
0.7500	0.73
0.8333	0.68
0.9167	0.71
1.0000	0.70
1.0833	0.69
1.1667	0.68
1.2500	0.72
1.3333	0.69
1.4166	0.69
1.5000	0.69

1.5833	0.68
1.6667	0.69
1.7500	0.70
1.8333	0.70
1.9167	0.72
2.0000	0.68
2.5000	0.71
3.0000	0.68
3.5000	0.70
4.0000	0.69
4.5000	0.69
5.0000	0.69
5.5000	0.69
6.0000	0.68
6.5000	0.69
7.0000	0.67
7.5000	0.68
8.0000	0.69
8.5000	0.69
9.0000	0.67
9.5000	0.69
10.0000	0.72
12.0000	0.71

MW-1SB

SE1000B
Environmental Logger
12/16 09:48

Unit# 00750 Test# 2

MW-2 SG

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 09:33

Elapsed Time	Value
0.0000	0.47
0.0033	0.47
0.0066	0.52
0.0099	0.50
0.0133	0.48
0.0166	-1.41
0.0200	-4.49
0.0233	-6.13
0.0266	-6.59
0.0300	-6.47
0.0333	-6.13
0.0500	-2.88
0.0666	-1.73
0.0833	-1.04
0.1000	-0.96
0.1166	-0.92
0.1333	-0.92
0.1500	-0.79
0.1666	-0.61
0.1833	-0.63
0.2000	-0.46
0.2166	-0.43
0.2333	-0.37
0.2500	-0.33
0.2666	-0.38
0.2833	-0.29
0.3000	-0.29
0.3166	-0.26
0.3333	-0.26
0.4167	-0.26
0.5000	-0.17
0.5833	-0.15
0.6667	-0.17
0.7500	-0.19
0.8333	-0.17
0.9167	-0.17
1.0000	-0.20
1.0833	-0.17
1.1667	-0.19
1.2500	-0.21
1.3333	-0.17
1.4166	-0.16
1.5000	-0.15

1.5833	-0.20
1.6667	-0.15
1.7500	-0.16
1.8333	-0.15
1.9167	-0.16
2.0000	-0.21
2.5000	-0.17
3.0000	-0.17
3.5000	-0.17
4.0000	-0.17
4.5000	-0.15
5.0000	-0.19
5.5000	-0.15
6.0000	-0.15
6.5000	-0.19
7.0000	-0.16
7.5000	-0.19
8.0000	-0.15
8.5000	-0.16
9.0000	-0.14
9.5000	-0.18
10.0000	-0.17
12.0000	-0.15

MW-2 SG

SE1000B
Environmental Logger
12/16 09:51

MW-2WB

Unit# 00750 Test# 1

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 08:53

Elapsed Time	Value
0.0000	0.00
0.0033	0.00
0.0066	-0.00
0.0099	0.00
0.0133	0.01
0.0166	0.02
0.0200	0.01
0.0233	-12.69
0.0266	-17.79
0.0300	-22.90
0.0333	-25.17
0.0500	-20.18
0.0666	-19.19
0.0833	-18.25
0.1000	-17.36
0.1166	-16.48
0.1333	-15.66
0.1500	-14.94
0.1666	-14.23
0.1833	-13.57
0.2000	-12.93
0.2166	-12.30
0.2333	-11.75
0.2500	-11.20
0.2666	-10.68
0.2833	-10.14
0.3000	-9.64
0.3166	-9.16
0.3333	-8.77
0.4167	-6.83
0.5000	-5.36
0.5833	-4.10
0.6667	-3.18
0.7500	-2.38
0.8333	-1.79
0.9167	-1.32
1.0000	-0.95
1.0833	-0.68
1.1667	-0.45
1.2500	-0.29
1.3333	-0.19
1.4166	-0.12
1.5000	-0.10

1.5833	-0.05
1.6667	-0.05
1.7500	-0.01
1.8333	-0.01
1.9167	0.01
2.0000	-0.00
2.5000	-0.03
3.0000	-0.03
3.5000	-0.01
4.0000	-0.01
4.5000	0.00
5.0000	-0.00
5.5000	-0.01
6.0000	-0.01
6.5000	0.00
7.0000	-0.04
7.5000	-0.03
8.0000	-0.03
8.5000	-0.03
9.0000	-0.04
9.5000	-0.05
10.0000	-0.04

MW-2WB

SE1000B
Environmental Logger
12/16 09:54

Unit# 00750 Test# 0

MW-2SB

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 08:10

Elapsed Time	Value
0.0000	0.21
0.0033	0.19
0.0066	0.17
0.0099	0.18
0.0133	0.20
0.0166	0.19
0.0200	0.20
0.0233	0.18
0.0266	0.15
0.0300	-2.85
0.0333	-13.99
0.0500	-16.83
0.0666	-12.78
0.0833	-9.28
0.1000	-6.50
0.1166	-4.64
0.1333	-3.16
0.1500	-1.83
0.1666	-1.16
0.1833	-0.67
0.2000	-0.51
0.2166	-0.44
0.2333	-0.47
0.2500	-0.45
0.2666	-0.45
0.2833	-0.45
0.3000	-0.48
0.3166	-0.43
0.3333	-0.44
0.4167	-0.44
0.5000	-0.45
0.5833	-0.44
0.6667	-0.42
0.7500	-0.43
0.8333	-0.41
0.9167	-0.44
1.0000	-0.40
1.0833	-0.39
1.1667	-0.44
1.2500	-0.42
1.3333	-0.41
1.4166	-0.40
1.5000	-0.43

1.5833	-0.43
1.6667	-0.41
1.7500	-0.40
1.8333	-0.43
1.9167	-0.40
2.0000	-0.41
2.5000	-0.41
3.0000	-0.40
3.5000	-0.37
4.0000	-0.39
4.5000	-0.40
5.0000	-0.36
5.5000	-0.43
6.0000	-0.38
6.5000	-0.40
7.0000	-0.41
7.5000	-0.42
8.0000	-0.40
8.5000	-0.41
9.0000	-0.43
9.5000	-0.37
10.0000	-0.42
12.0000	-0.38
14.0000	-0.40
16.0000	-0.38

MW-2 SB

SE1000B
Environmental Logger
12/17 07:59

Unit# 00750 Test# 2

MW-3 SG

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 07:39

Elapsed Time	Value
0.0000	-0.03
0.0033	-0.03
0.0066	-0.02
0.0099	-0.01
0.0133	-5.75
0.0166	-6.81
0.0200	-7.74
0.0233	-7.62
0.0266	-7.22
0.0300	-6.88
0.0333	-6.51
0.0500	-2.91
0.0666	-1.50
0.0833	-1.48
0.1000	-1.48
0.1166	-1.51
0.1333	-1.21
0.1500	-1.13
0.1666	-1.08
0.1833	-1.04
0.2000	-1.03
0.2166	-1.01
0.2333	-0.99
0.2500	-0.99
0.2666	-0.96
0.2833	-0.99
0.3000	-0.98
0.3166	-1.00
0.3333	-0.97
0.4167	-0.95
0.5000	-0.97
0.5833	-0.98
0.6667	-0.99
0.7500	-0.99
0.8333	-0.94
0.9167	-0.95
1.0000	-0.93
1.0833	-0.94
1.1667	-0.93
1.2500	-0.91
1.3333	-0.94
1.4166	-0.90
1.5000	-0.94

1.5833	-0.92
1.6667	-0.90
1.7500	-0.94
1.8333	-0.94
1.9167	-0.97
2.0000	-0.94
2.5000	-0.94
3.0000	-0.95
3.5000	-0.92
4.0000	-0.97
4.5000	-0.93
5.0000	-0.95
5.5000	-0.96
6.0000	-0.94
6.5000	-0.95
7.0000	-0.97
7.5000	-0.95
8.0000	-0.96
8.5000	-0.96
9.0000	-0.96
9.5000	-0.92
10.0000	-0.94
12.0000	-0.89

MW-35G

SE1000B
Environmental Logger
12/17 08:03

Unit# 00750 Test# 1

MW-3 WB

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 07:05

Elapsed Time	Value
0.0000	-1.41
0.0033	-1.38
0.0066	-1.38
0.0099	-1.40
0.0133	-1.42
0.0166	-12.09
0.0200	-12.67
0.0233	-13.81
0.0266	-14.55
0.0300	-14.68
0.0333	-14.26
0.0500	-8.53
0.0666	-4.40
0.0833	-2.10
0.1000	-0.53
0.1166	-0.50
0.1333	-0.66
0.1500	-1.07
0.1666	-1.25
0.1833	-1.34
0.2000	-1.15
0.2166	-1.23
0.2333	-1.32
0.2500	-1.38
0.2666	-1.41
0.2833	-1.41
0.3000	-1.39
0.3166	-1.41
0.3333	-1.42
0.4167	-1.41
0.5000	-1.41
0.5833	-1.40
0.6667	-1.39
0.7500	-1.45
0.8333	-1.39
0.9167	-1.44
1.0000	-1.41
1.0833	-1.45
1.1667	-1.44
1.2500	-1.45
1.3333	-1.42
1.4166	-1.39
1.5000	-1.45

1.5833	-1.41
1.6667	-1.43
1.7500	-1.45
1.8333	-1.43
1.9167	-1.43
2.0000	-1.46
2.5000	-1.43
3.0000	-1.44
3.5000	-1.43
4.0000	-1.43
4.5000	-1.40
5.0000	-1.44
5.5000	-1.42
6.0000	-1.43
6.5000	-1.42
7.0000	-1.40
7.5000	-1.42
8.0000	-1.42
8.5000	-1.43
9.0000	-1.41
9.5000	-1.41
10.0000	-1.43
12.0000	-1.43

MW-3WB

SE1000B
Environmental Logger
12/17 08:06

Unit# 00750 Test# 0

MW-3SB

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 06:31

Elapsed Time	Value
0.0000	0.00
0.0033	0.05
0.0066	0.00
0.0099	-0.32
0.0133	-10.68
0.0166	-12.87
0.0200	-12.86
0.0233	-12.71
0.0266	-12.40
0.0300	-12.13
0.0333	-11.96
0.0500	-10.94
0.0666	-10.15
0.0833	-9.45
0.1000	-8.80
0.1166	-8.16
0.1333	-7.56
0.1500	-7.05
0.1666	-6.54
0.1833	-6.10
0.2000	-5.64
0.2166	-5.21
0.2333	-4.85
0.2500	-4.51
0.2666	-4.14
0.2833	-3.88
0.3000	-3.59
0.3166	-3.35
0.3333	-3.06
0.4167	-2.12
0.5000	-1.45
0.5833	-0.97
0.6667	-0.72
0.7500	-0.54
0.8333	-0.37
0.9167	-0.31
1.0000	-0.27
1.0833	-0.23
1.1667	-0.22
1.2500	-0.20
1.3333	-0.23
1.4166	-0.21
1.5000	-0.19

1.5833	-0.22
1.6667	-0.19
1.7500	-0.19
1.8333	-0.23
1.9167	-0.24
2.0000	-0.19
2.5000	-0.23
3.0000	-0.22
3.5000	-0.21
4.0000	-0.20
4.5000	-0.21
5.0000	-0.21
5.5000	-0.20
6.0000	-0.22
6.5000	-0.24
7.0000	-0.22
7.5000	-0.24
8.0000	-0.19
8.5000	-0.19
9.0000	-0.23
9.5000	-0.22
10.0000	-0.18
12.0000	-0.21

MW-3SB

SE1000B
Environmental Logger
12/18 10:40

Unit# 00750 Test# 2

INPUT 1: Level (F) TOC

MW-4SG

Reference 0.00
Scale factor 20.12
Offset 0.07

Step# 0 12/18 10:05

Elapsed Time	Value
0.0000	-0.03
0.0033	0.01
0.0066	-0.01
0.0099	-0.30
0.0133	-7.48
0.0166	-14.72
0.0200	-17.94
0.0233	-17.69
0.0266	-16.15
0.0300	-14.81
0.0333	-13.63
0.0500	-9.53
0.0666	-6.66
0.0833	-4.62
0.1000	-3.15
0.1166	-2.11
0.1333	-1.43
0.1500	-1.01
0.1666	-0.62
0.1833	-0.47
0.2000	-0.33
0.2166	-0.24
0.2333	-0.20
0.2500	-0.13
0.2666	-0.08
0.2833	-0.08
0.3000	-0.10
0.3166	-0.07
0.3333	-0.06
0.4167	-0.04
0.5000	-0.02
0.5833	-0.01
0.6667	-0.07
0.7500	-0.01
0.8333	-0.04
0.9167	-0.05
1.0000	-0.05
1.0833	-0.02
1.1667	-0.02
1.2500	-0.05
1.3333	-0.05
1.4166	-0.05
1.5000	-0.06

1.5833	-0.07
1.6667	-0.03
1.7500	-0.03
1.8333	-0.01
1.9167	-0.04
2.0000	-0.04
2.5000	-0.06
3.0000	-0.05
3.5000	-0.05
4.0000	-0.04
4.5000	-0.05
5.0000	-0.05
5.5000	-0.04
6.0000	-0.05
6.5000	-0.05
7.0000	-0.02
7.5000	-0.05
8.0000	-0.04
8.5000	-0.02
9.0000	-0.06
9.5000	-0.02
10.0000	-0.05

MW-4SG

SE1000B
Environmental Logger
12/18 10:44

MW-4 WB

Unit# 00750 Test# 1

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/18 09:38

Elapsed Time	Value
0.0000	-0.03
0.0033	-0.01
0.0066	0.01
0.0099	0.02
0.0133	-12.80
0.0166	-17.99
0.0200	-20.69
0.0233	-21.05
0.0266	-20.51
0.0300	-19.80
0.0333	-19.17
0.0500	-16.58
0.0666	-14.72
0.0833	-13.11
0.1000	-11.62
0.1166	-10.26
0.1333	-9.09
0.1500	-7.94
0.1666	-6.99
0.1833	-6.08
0.2000	-5.29
0.2166	-4.56
0.2333	-3.90
0.2500	-3.37
0.2666	-2.85
0.2833	-2.41
0.3000	-2.08
0.3166	-1.70
0.3333	-1.42
0.4167	-0.55
0.5000	-0.19
0.5833	-0.10
0.6667	-0.04
0.7500	-0.01
0.8333	-0.02
0.9167	-0.01
1.0000	-0.03
1.0833	-0.00
1.1667	0.00
1.2500	-0.00
1.3333	-0.00
1.4166	-0.01
1.5000	-0.03

1.5833	0.00
1.6667	-0.03
1.7500	-0.00
1.8333	-0.04
1.9167	-0.02
2.0000	-0.01
2.5000	-0.00
3.0000	-0.00
3.5000	-0.00
4.0000	0.00
4.5000	-0.00
5.0000	0.01
5.5000	-0.01
6.0000	0.01
6.5000	-0.00
7.0000	-0.01
7.5000	-0.02
8.0000	-0.03
8.5000	-0.01
9.0000	-0.01
9.5000	-0.01
10.0000	0.01

MW-4 WB

SE1000B
Environmental Logger
12/18 10:47

Unit# 00750 Test# 0

MW-45B

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 20.12
Offset 0.07

Step# 0 12/18 09:09

Elapsed Time	Value
0.0000	0.01
0.0033	0.01
0.0066	0.01
0.0099	-4.00
0.0133	-17.81
0.0166	-20.09
0.0200	-20.03
0.0233	-19.65
0.0266	-19.37
0.0300	-19.02
0.0333	-18.70
0.0500	-17.20
0.0666	-15.85
0.0833	-14.65
0.1000	-13.49
0.1166	-12.40
0.1333	-11.33
0.1500	-10.43
0.1666	-9.52
0.1833	-8.64
0.2000	-7.84
0.2166	-7.09
0.2333	-6.41
0.2500	-5.73
0.2666	-5.14
0.2833	-4.59
0.3000	-4.09
0.3166	-3.59
0.3333	-3.21
0.4167	-1.55
0.5000	-0.68
0.5833	-0.23
0.6667	-0.04
0.7500	-0.03
0.8333	-0.01
0.9167	-0.02
1.0000	-0.00
1.0833	-0.03
1.1667	-0.04
1.2500	-0.03
1.3333	-0.01
1.4166	-0.03
1.5000	0.00

1.5833	-0.00
1.6667	-0.03
1.7500	-0.03
1.8333	-0.03
1.9167	0.00
2.0000	-0.01
2.5000	-0.04
3.0000	-0.00
3.5000	0.01
4.0000	0.00
4.5000	0.00
5.0000	-0.02
5.5000	0.00
6.0000	0.01
6.5000	-0.01
7.0000	0.00
7.5000	-0.00
8.0000	-0.01
8.5000	-0.06
9.0000	-0.01
9.5000	-0.03
10.0000	-0.03

MW-45B

SE1000B
Environmental Logger
12/16 17:06

Unit# 00750 Test# 3

MW-4DB

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 15:23

Elapsed Time	Value
0.0000	0.03
0.0033	0.00
0.0066	0.03
0.0099	0.00
0.0133	-0.10
0.0166	-18.42
0.0200	-18.68
0.0233	-18.38
0.0266	-18.34
0.0300	-18.34
0.0333	-18.18
0.0500	-17.90
0.0666	-17.62
0.0833	-17.31
0.1000	-16.99
0.1166	-16.72
0.1333	-16.43
0.1500	-16.14
0.1666	-15.88
0.1833	-15.65
0.2000	-15.37
0.2166	-15.09
0.2333	-14.87
0.2500	-14.61
0.2666	-14.33
0.2833	-14.09
0.3000	-13.85
0.3166	-13.62
0.3333	-13.35
0.4167	-12.23
0.5000	-11.22
0.5833	-10.25
0.6667	-9.31
0.7500	-8.45
0.8333	-7.71
0.9167	-6.97
1.0000	-6.33
1.0833	-5.71
1.1667	-5.15
1.2500	-4.64
1.3333	-4.18
1.4166	-3.73
1.5000	-3.30

1.5833	-2.95
1.6667	-2.67
1.7500	-2.36
1.8333	-2.05
1.9167	-1.81
2.0000	-1.57
2.5000	-0.71
3.0000	-0.25
3.5000	-0.08
4.0000	-0.04
4.5000	-0.03
5.0000	-0.01
5.5000	-0.00
6.0000	0.00
6.5000	-0.05
7.0000	-0.01
7.5000	-0.02
8.0000	0.01
8.5000	-0.02
9.0000	-0.01
9.5000	-0.01
10.0000	-0.02

MW-4 DB

SE1000B
Environmental Logger
12/16 12:40

Unit# 00750 Test# 1

INPUT 1: Level (F) TOC

MW-5SG

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 12:04

Elapsed Time	Value
0.0000	-0.01
0.0033	0.01
0.0066	-0.02
0.0099	-0.03
0.0133	-0.02
0.0166	-0.01
0.0200	-1.57
0.0233	-6.32
0.0266	-9.87
0.0300	-11.59
0.0333	-12.28
0.0500	-8.44
0.0666	-5.03
0.0833	-3.48
0.1000	-2.44
0.1166	-1.79
0.1333	-1.36
0.1500	-1.06
0.1666	-0.83
0.1833	-0.68
0.2000	-0.50
0.2166	-0.43
0.2333	-0.36
0.2500	-0.28
0.2666	-0.21
0.2833	-0.24
0.3000	-0.14
0.3166	-0.12
0.3333	-0.15
0.4167	-0.08
0.5000	-0.06
0.5833	-0.01
0.6667	-0.05
0.7500	-0.03
0.8333	-0.00
0.9167	-0.01
1.0000	-0.01
1.0833	0.01
1.1667	-0.01
1.2500	-0.00
1.3333	0.01
1.4166	-0.02
1.5000	-0.02

1.5833	0.00
1.6667	-0.00
1.7500	-0.03
1.8333	-0.01
1.9167	0.01
2.0000	-0.03
2.5000	0.00
3.0000	0.00
3.5000	-0.01
4.0000	-0.00
4.5000	0.00
5.0000	-0.02
5.5000	0.01
6.0000	-0.02
6.5000	-0.01
7.0000	-0.01
7.5000	0.00
8.0000	-0.00
8.5000	-0.01
9.0000	0.00
9.5000	0.00
10.0000	0.03
12.0000	0.02
14.0000	-0.01
16.0000	-0.01
18.0000	0.00
20.0000	0.01
22.0000	-0.00
24.0000	0.01
26.0000	-0.04
28.0000	0.01
30.0000	0.01
32.0000	0.00

MW-55G

SE1000B
Environmental Logger
12/16 12:47

Unit# 00750 Test# 0

INPUT 1: Level (F) TOC

MW-5SB

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 11:30

Elapsed Time	Value
0.0000	1.17
0.0033	1.20
0.0066	1.20
0.0099	1.17
0.0133	-11.51
0.0166	-13.36
0.0200	-14.93
0.0233	-15.54
0.0266	-15.49
0.0300	-15.11
0.0333	-14.72
0.0500	-12.50
0.0666	-10.58
0.0833	-8.89
0.1000	-7.38
0.1166	-5.99
0.1333	-4.82
0.1500	-3.82
0.1666	-2.85
0.1833	-2.03
0.2000	-1.84
0.2166	-1.44
0.2333	-0.97
0.2500	-0.61
0.2666	-0.26
0.2833	-0.02
0.3000	0.15
0.3166	0.23
0.3333	0.33
0.4167	0.40
0.5000	0.38
0.5833	0.43
0.6667	0.37
0.7500	0.40
0.8333	0.38
0.9167	0.42
1.0000	0.40
1.0833	0.47
1.1667	0.43
1.2500	0.42
1.3333	0.44
1.4166	0.45
1.5000	0.47

1.5833	0.51
1.6667	0.50
1.7500	0.52
1.8333	0.54
1.9167	0.54
2.0000	0.48
2.5000	0.53
3.0000	0.50
3.5000	0.52
4.0000	0.52
4.5000	0.51
5.0000	0.52
5.5000	0.50
6.0000	0.50
6.5000	0.55
7.0000	0.56
7.5000	0.54
8.0000	0.51
8.5000	0.50
9.0000	0.53
9.5000	0.55
10.0000	0.50
12.0000	0.54
14.0000	0.53

MW-5 SB

SE1000B
Environmental Logger
12/18 08:29

MW-6SG

Unit# 00750 Test# 0

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 20.12
Offset 0.07

Step# 0 12/18 07:53

Elapsed Time	Value
0.0000	-0.34
0.0033	-0.30
0.0066	-0.31
0.0099	-0.31
0.0133	-0.48
0.0166	-6.81
0.0200	-10.33
0.0233	-12.09
0.0266	-12.51
0.0300	-11.80
0.0333	-10.62
0.0500	-8.97
0.0666	-8.47
0.0833	-8.12
0.1000	-7.69
0.1166	-7.48
0.1333	-7.31
0.1500	-7.00
0.1666	-6.74
0.1833	-6.29
0.2000	-6.00
0.2166	-5.83
0.2333	-5.73
0.2500	-5.59
0.2666	-5.48
0.2833	-5.42
0.3000	-5.33
0.3166	-5.28
0.3333	-5.21
0.4167	-4.96
0.5000	-4.72
0.5833	-4.60
0.6667	-4.44
0.7500	-4.28
0.8333	-4.14
0.9167	-4.04
1.0000	-3.91
1.0833	-3.82
1.1667	-3.70
1.2500	-3.61
1.3333	-3.53
1.4166	-3.40
1.5000	-3.35

MW-6 5G

1.5833	-3.27
1.6667	-3.23
1.7500	-3.14
1.8333	-3.05
1.9167	-3.00
2.0000	-2.93
2.5000	-2.56
3.0000	-2.27
3.5000	-2.04
4.0000	-1.81
4.5000	-1.68
5.0000	-1.55
5.5000	-1.42
6.0000	-1.31
6.5000	-1.25
7.0000	-1.19
7.5000	-1.10
8.0000	-1.05
8.5000	-0.99
9.0000	-0.95
9.5000	-0.94
10.0000	-0.88
12.0000	-0.76
14.0000	-0.69
16.0000	-0.63
18.0000	-0.62
20.0000	-0.56
22.0000	-0.56
24.0000	-0.58
26.0000	-0.56
28.0000	-0.55
30.0000	-0.55

SE1000B
Environmental Logger
12/17 17:15

Unit# 00750 Test# 3

INPUT 1: Level (F) TOC

MW-6 WB

Reference 0.00
Scale factor 20.12
Offset 0.07

Step# 0 12/17 15:18

Elapsed Time	Value
0.0000	0.40
0.0033	0.41
0.0066	0.41
0.0099	0.40
0.0133	-7.12
0.0166	-14.37
0.0200	-18.57
0.0233	-20.03
0.0266	-20.53
0.0300	-19.55
0.0333	-18.20
0.0500	-16.82
0.0666	-16.05
0.0833	-15.29
0.1000	-14.69
0.1166	-14.05
0.1333	-13.49
0.1500	-12.94
0.1666	-12.45
0.1833	-11.94
0.2000	-11.40
0.2166	-10.96
0.2333	-10.50
0.2500	-10.06
0.2666	-9.64
0.2833	-9.22
0.3000	-8.86
0.3166	-8.44
0.3333	-8.09
0.4167	-6.46
0.5000	-5.15
0.5833	-4.08
0.6667	-3.21
0.7500	-2.58
0.8333	-2.55
0.9167	-2.32
1.0000	-1.92
1.0833	-1.64
1.1667	-1.38
1.2500	-1.24
1.3333	-1.11
1.4166	-1.04
1.5000	-0.95

1.5833	-0.92
1.6667	-0.87
1.7500	-0.83
1.8333	-0.78
1.9167	-0.82
2.0000	-0.73
2.5000	-0.77
3.0000	-0.76
3.5000	-0.72
4.0000	-0.75
4.5000	-0.73
5.0000	-0.71
5.5000	-0.73
6.0000	-0.76
6.5000	-0.73
7.0000	-0.76
7.5000	-0.74
8.0000	-0.73
8.5000	-0.75
9.0000	-0.71
9.5000	-0.69
10.0000	-0.73
12.0000	-0.71
14.0000	-0.70
16.0000	-0.69

SE1000B
Environmental Logger
12/17 17:18

MW-6 SB

Unit# 00750 Test# 2

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 14:43

Elapsed Time	Value
0.0000	-5.19
0.0033	-5.18
0.0066	-5.17
0.0099	-18.91
0.0133	-24.25
0.0166	-23.93
0.0200	-23.79
0.0233	-23.74
0.0266	-23.63
0.0300	-23.60
0.0333	-23.55
0.0500	-23.17
0.0666	-22.88
0.0833	-22.57
0.1000	-22.21
0.1166	-21.89
0.1333	-21.59
0.1500	-21.24
0.1666	-20.97
0.1833	-20.62
0.2000	-20.35
0.2166	-20.03
0.2333	-19.74
0.2500	-19.42
0.2666	-19.16
0.2833	-18.87
0.3000	-18.58
0.3166	-18.35
0.3333	-18.05
0.4167	-16.75
0.5000	-15.59
0.5833	-14.46
0.6667	-13.48
0.7500	-12.55
0.8333	-11.74
0.9167	-10.97
1.0000	-10.24
1.0833	-9.66
1.1667	-9.09
1.2500	-8.64
1.3333	-8.19
1.4166	-7.82
1.5000	-7.48

1.5833	-7.16
1.6667	-6.93
1.7500	-6.64
1.8333	-6.46
1.9167	-6.43
2.0000	-6.36
2.5000	-6.38
3.0000	-6.02
3.5000	-5.90
4.0000	-5.87
4.5000	-5.85
5.0000	-5.83
5.5000	-5.85
6.0000	-5.87
6.5000	-5.86
7.0000	-5.84
7.5000	-5.83
8.0000	-5.84
8.5000	-5.85
9.0000	-5.85
9.5000	-5.83
10.0000	-5.83
12.0000	-5.83

MW-65B

SE1000B
Environmental Logger
12/16 17:09

Unit# 00750 Test# 2

MW-7 SG

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 14:30

Elapsed Time	Value
0.0000	0.01
0.0033	0.02
0.0066	0.00
0.0099	0.00
0.0133	-0.01
0.0166	-0.05
0.0200	-2.48
0.0233	-4.35
0.0266	-5.83
0.0300	-6.50
0.0333	-6.11
0.0500	-1.41
0.0666	-0.50
0.0833	-0.27
0.1000	-0.19
0.1166	-0.13
0.1333	-0.12
0.1500	-0.08
0.1666	-0.05
0.1833	-0.03
0.2000	-0.03
0.2166	-0.01
0.2333	-0.03
0.2500	-0.03
0.2666	-0.03
0.2833	-0.01
0.3000	-0.01
0.3166	-0.03
0.3333	0.01
0.4167	-0.03
0.5000	-0.03
0.5833	-0.05
0.6667	-0.01
0.7500	-0.01
0.8333	-0.03
0.9167	-0.02
1.0000	-0.03
1.0833	0.01
1.1667	0.01
1.2500	0.00
1.3333	-0.01
1.4166	-0.01
1.5000	-0.01

1.5833	0.01
1.6667	0.00
1.7500	-0.05
1.8333	-0.03
1.9167	0.00
2.0000	-0.02
2.5000	-0.01
3.0000	0.00
3.5000	-0.03
4.0000	0.00
4.5000	-0.00
5.0000	0.01
5.5000	0.01
6.0000	-0.00
6.5000	-0.03
7.0000	0.00
7.5000	-0.01
8.0000	0.00
8.5000	0.01
9.0000	0.00
9.5000	-0.04
10.0000	0.00

MW-7 SG

SE1000B
Environmental Logger
12/16 17:13

Unit# 00750 Test# 1

MW-7 WB

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/16 14:03

Elapsed Time	Value
0.0000	0.00
0.0033	0.03
0.0066	-0.03
0.0099	-0.02
0.0133	-8.42
0.0166	-9.86
0.0200	-11.55
0.0233	-11.93
0.0266	-11.47
0.0300	-10.87
0.0333	-10.45
0.0500	-9.28
0.0666	-8.46
0.0833	-7.88
0.1000	-7.39
0.1166	-6.86
0.1333	-6.38
0.1500	-5.99
0.1666	-5.61
0.1833	-5.28
0.2000	-4.89
0.2166	-4.61
0.2333	-4.29
0.2500	-4.04
0.2666	-3.78
0.2833	-3.51
0.3000	-3.26
0.3166	-3.04
0.3333	-2.83
0.4167	-2.01
0.5000	-1.32
0.5833	-0.85
0.6667	-0.51
0.7500	-0.33
0.8333	-0.15
0.9167	-0.10
1.0000	-0.04
1.0833	-0.04
1.1667	-0.02
1.2500	-0.00
1.3333	0.00
1.4166	-0.00
1.5000	-0.03

1.5833	0.01
1.6667	-0.00
1.7500	0.00
1.8333	-0.00
1.9167	-0.02
2.0000	-0.01
2.5000	0.01
3.0000	0.01
3.5000	0.00
4.0000	0.00
4.5000	-0.02
5.0000	-0.02
5.5000	0.00
6.0000	-0.01
6.5000	-0.01
7.0000	0.01
7.5000	0.02
8.0000	-0.01
8.5000	0.00
9.0000	-0.01
9.5000	0.00
10.0000	-0.03

MW-7 WB

SE1000B
Environmental Logger
12/16 17:16

Unit# 00750 Test# 0

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 20.12
Offset 0.07

MW-75B

Step# 0 12/16 13:38

Elapsed Time	Value
0.0000	0.01
0.0033	-0.00
0.0066	0.00
0.0099	-0.01
0.0133	0.01
0.0166	-0.02
0.0200	-13.04
0.0233	-10.58
0.0266	-10.65
0.0300	-10.28
0.0333	-9.56
0.0500	-4.39
0.0666	0.06
0.0833	2.86
0.1000	2.86
0.1166	2.08
0.1333	0.32
0.1500	-0.54
0.1666	-0.78
0.1833	-0.40
0.2000	0.37
0.2166	0.65
0.2333	0.54
0.2500	0.05
0.2666	-0.19
0.2833	-0.26
0.3000	-0.30
0.3166	-0.08
0.3333	0.11
0.4167	-0.15
0.5000	0.01
0.5833	-0.01
0.6667	-0.03
0.7500	0.00
0.8333	0.00
0.9167	-0.02
1.0000	0.02
1.0833	-0.01
1.1667	0.00
1.2500	-0.03
1.3333	0.00
1.4166	-0.01
1.5000	-0.00

1.5833	0.00
1.6667	0.00
1.7500	-0.01
1.8333	0.01
1.9167	0.01
2.0000	0.01
2.5000	-0.03
3.0000	-0.00
3.5000	-0.03
4.0000	-0.01
4.5000	-0.02
5.0000	0.00
5.5000	0.00
6.0000	0.00
6.5000	-0.00
7.0000	-0.01
7.5000	-0.01
8.0000	-0.02
8.5000	-0.01
9.0000	0.01
9.5000	0.01
10.0000	-0.03

SE1000B
Environmental Logger
12/17 10:24

Unit# 00750 Test# 2

MW-8.5G

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 10:02

Elapsed Time	Value
0.0000	0.08
0.0033	0.10
0.0066	0.08
0.0099	0.14
0.0133	-1.53
0.0166	-13.55
0.0200	-20.84
0.0233	-22.28
0.0266	-21.06
0.0300	-20.34
0.0333	-18.92
0.0500	-13.84
0.0666	-13.65
0.0833	-9.31
0.1000	-10.70
0.1166	-8.07
0.1333	-7.75
0.1500	-7.06
0.1666	-6.34
0.1833	-5.80
0.2000	-5.28
0.2166	-4.79
0.2333	-4.30
0.2500	-3.88
0.2666	-3.57
0.2833	-3.26
0.3000	-3.06
0.3166	-2.85
0.3333	-2.67
0.4167	-2.12
0.5000	-1.73
0.5833	-1.46
0.6667	-1.27
0.7500	-1.13
0.8333	-1.00
0.9167	-0.87
1.0000	-0.82
1.0833	-0.71
1.1667	-0.65
1.2500	-0.56
1.3333	-0.51
1.4166	-0.42
1.5000	-0.42

1.5833	-0.38
1.6667	-0.33
1.7500	-0.32
1.8333	-0.27
1.9167	-0.24
2.0000	-0.24
2.5000	-0.09
3.0000	-0.08
3.5000	-0.08
4.0000	-0.03
4.5000	-0.00
5.0000	-0.01
5.5000	-0.01
6.0000	-0.01
6.5000	0.00
7.0000	-0.02
7.5000	-0.00
8.0000	-0.02
8.5000	-0.03
9.0000	-0.02
9.5000	0.01
10.0000	0.00

MW-8SG

MW-8 WB

SE1000B
Environmental Logger
12/17 10:27

Unit# 00750 Test# 1

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 09:22

Elapsed Time	Value
0.0000	0.23
0.0033	0.25
0.0066	0.25
0.0099	-7.53
0.0133	-24.56
0.0166	-22.83
0.0200	-22.15
0.0233	-21.89
0.0266	-21.72
0.0300	-21.63
0.0333	-21.55
0.0500	-21.12
0.0666	-20.68
0.0833	-20.29
0.1000	-19.91
0.1166	-19.58
0.1333	-19.22
0.1500	-18.90
0.1666	-18.50
0.1833	-18.20
0.2000	-17.85
0.2166	-17.52
0.2333	-17.24
0.2500	-16.90
0.2666	-16.58
0.2833	-16.32
0.3000	-16.00
0.3166	-15.71
0.3333	-15.43
0.4167	-14.03
0.5000	-12.70
0.5833	-11.48
0.6667	-10.34
0.7500	-9.30
0.8333	-8.32
0.9167	-7.43
1.0000	-6.55
1.0833	-5.78
1.1667	-5.08
1.2500	-4.47
1.3333	-3.87
1.4166	-3.72
1.5000	-3.71

MW-8WB

1.5833	-3.21
1.6667	-2.81
1.7500	-2.49
1.8333	-2.20
1.9167	-1.97
2.0000	-1.79
2.5000	-1.22
3.0000	-1.08
3.5000	-1.04
4.0000	-1.07
4.5000	-1.03
5.0000	-1.02
5.5000	-1.01
6.0000	-1.01
6.5000	-0.97
7.0000	-0.98
7.5000	-0.99
8.0000	-0.96
8.5000	-0.94
9.0000	-0.97
9.5000	-0.97
10.0000	-0.97
12.0000	-0.96

SE1000B
Environmental Logger
12/17 10:30

MW-85B

Unit# 00750 Test# 0

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 08:52

Elapsed Time	Value
0.0000	0.05
0.0033	0.07
0.0066	0.07
0.0099	-0.73
0.0133	-20.56
0.0166	-22.32
0.0200	-21.85
0.0233	-21.56
0.0266	-21.46
0.0300	-21.39
0.0333	-21.26
0.0500	-20.77
0.0666	-20.37
0.0833	-19.89
0.1000	-19.54
0.1166	-19.17
0.1333	-18.75
0.1500	-18.41
0.1666	-18.04
0.1833	-17.67
0.2000	-17.33
0.2166	-16.97
0.2333	-16.65
0.2500	-16.31
0.2666	-15.95
0.2833	-15.68
0.3000	-15.34
0.3166	-15.04
0.3333	-14.76
0.4167	-13.30
0.5000	-11.96
0.5833	-10.79
0.6667	-9.66
0.7500	-8.72
0.8333	-7.79
0.9167	-6.97
1.0000	-6.17
1.0833	-5.49
1.1667	-4.86
1.2500	-4.30
1.3333	-3.82
1.4166	-3.33
1.5000	-2.91

MW-8SB

1.5833	-2.55
1.6667	-2.19
1.7500	-1.89
1.8333	-1.64
1.9167	-1.38
2.0000	-1.20
2.5000	-0.38
3.0000	-0.03
3.5000	0.03
4.0000	0.04
4.5000	0.02
5.0000	0.02
5.5000	0.02
6.0000	0.01
6.5000	0.01
7.0000	0.00
7.5000	-0.01
8.0000	0.01
8.5000	0.04
9.0000	0.03
9.5000	0.05
10.0000	0.04

SE1000B
Environmental Logger
12/17 17:24

Unit# 00750 Test# 1

INPUT 1: Level (F) TOC

Reference 0.00
Scale factor 20.12
Offset 0.07

MW-9SG

Step# 0 12/17 13:53

Elapsed Time	Value
0.0000	0.25
0.0033	0.23
0.0066	0.22
0.0099	-0.33
0.0133	-4.07
0.0166	-8.68
0.0200	-10.86
0.0233	-10.87
0.0266	-8.51
0.0300	-6.15
0.0333	-5.19
0.0500	-7.35
0.0666	-7.35
0.0833	-6.82
0.1000	-6.64
0.1166	-6.57
0.1333	-6.49
0.1500	-6.39
0.1666	-6.31
0.1833	-6.27
0.2000	-6.18
0.2166	-6.10
0.2333	-6.08
0.2500	-5.99
0.2666	-6.00
0.2833	-5.95
0.3000	-5.90
0.3166	-5.82
0.3333	-5.81
0.4167	-5.62
0.5000	-5.47
0.5833	-5.29
0.6667	-5.18
0.7500	-5.05
0.8333	-4.93
0.9167	-4.78
1.0000	-4.64
1.0833	-4.52
1.1667	-4.42
1.2500	-4.30
1.3333	-4.20
1.4166	-4.08
1.5000	-4.02

1.5833	-3.88
1.6667	-3.82
1.7500	-3.72
1.8333	-3.66
1.9167	-3.54
2.0000	-3.47
2.5000	-3.03
3.0000	-2.65
3.5000	-2.34
4.0000	-2.08
4.5000	-1.85
5.0000	-1.68
5.5000	-1.50
6.0000	-1.34
6.5000	-1.25
7.0000	-1.14
7.5000	-1.06
8.0000	-0.97
8.5000	-0.89
9.0000	-0.85
9.5000	-0.79
10.0000	-0.75
12.0000	-0.64
14.0000	-0.59
16.0000	-0.49
18.0000	-0.51
20.0000	-0.50
22.0000	-0.50

MW-9SG

SE1000B
Environmental Logger
12/17 17:33

MW-9 WB

Unit# 00750 Test# 0

INPUT 1: Level (F) TOC

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 12:53

Elapsed Time	Value
0.0000	-0.22
0.0033	-0.21
0.0066	-0.24
0.0099	-9.30
0.0133	-14.52
0.0166	-13.47
0.0200	-12.63
0.0233	-12.22
0.0266	-12.18
0.0300	-11.83
0.0333	-11.71
0.0500	-11.60
0.0666	-10.63
0.0833	-10.56
0.1000	-10.43
0.1166	-10.31
0.1333	-10.34
0.1500	-10.24
0.1666	-10.14
0.1833	-9.98
0.2000	-9.94
0.2166	-9.88
0.2333	-9.79
0.2500	-9.68
0.2666	-9.57
0.2833	-9.47
0.3000	-9.38
0.3166	-9.24
0.3333	-9.17
0.4167	-8.74
0.5000	-8.29
0.5833	-7.93
0.6667	-7.56
0.7500	-7.16
0.8333	-6.82
0.9167	-6.45
1.0000	-6.18
1.0833	-5.84
1.1667	-5.51
1.2500	-5.25
1.3333	-4.95
1.4166	-4.75
1.5000	-4.44

1.5833	-4.20
1.6667	-4.03
1.7500	-3.75
1.8333	-3.55
1.9167	-3.37
2.0000	-3.13
2.5000	-2.19
3.0000	-2.07
3.5000	-1.71
4.0000	-1.34
4.5000	-1.15
5.0000	-1.06
5.5000	-1.00
6.0000	-0.96
6.5000	-0.91
7.0000	-0.92
7.5000	-0.92
8.0000	-0.91
8.5000	-0.92
9.0000	-0.92
9.5000	-0.92
10.0000	-0.90
12.0000	-0.92
14.0000	-0.89
16.0000	-0.90

MW-9 WB

SE1000B
Environmental Logger
12/17 12:21

Unit# 00750 Test# 0

INPUT 1: Level (F) TOC

MW-9SB

Reference	0.00
Scale factor	20.12
Offset	0.07

Step# 0 12/17 12:00

Elapsed Time	Value
0.0000	3.07
0.0033	3.11
0.0066	3.08
0.0099	-9.93
0.0133	-9.91
0.0166	-9.45
0.0200	-9.26
0.0233	-9.21
0.0266	-9.17
0.0300	-9.14
0.0333	-9.09
0.0500	-8.95
0.0666	-8.78
0.0833	-8.67
0.1000	-8.53
0.1166	-8.42
0.1333	-8.41
0.1500	-8.37
0.1666	-8.32
0.1833	-8.24
0.2000	-8.21
0.2166	-8.13
0.2333	-8.10
0.2500	-8.02
0.2666	-7.95
0.2833	-7.90
0.3000	-7.86
0.3166	-7.82
0.3333	-7.75
0.4167	-7.50
0.5000	-7.22
0.5833	-7.01
0.6667	-6.74
0.7500	-6.49
0.8333	-6.26
0.9167	-6.08
1.0000	-5.82
1.0833	-5.61
1.1667	-5.42
1.2500	-5.20
1.3333	-5.02
1.4166	-4.77
1.5000	-4.59

1.5833	-4.40
1.6667	-4.23
1.7500	-4.05
1.8333	-3.86
1.9167	-3.67
2.0000	-3.54
2.5000	-2.58
3.0000	-1.80
3.5000	-1.08
4.0000	-0.52
4.5000	0.05
5.0000	0.51
5.5000	0.89
6.0000	1.25
6.5000	1.54
7.0000	1.80
7.5000	2.02
8.0000	2.19
8.5000	2.36
9.0000	2.49
9.5000	2.59
10.0000	2.70
12.0000	2.95
14.0000	3.03
16.0000	3.03
18.0000	3.04

		Total Depth Below Surf	Water TOC
MW	1 SG	37.5	32.67
	1 WB	59.0	32.92
	1 SB	72.5	33.39
	2 SG	35	28.03
	2 WB	53	27.80
	2 SB	65	28.34
	5 SG	28	21.09
	5 SB	75.5	22.8

			Total Depth	W.L.
	3 SG		44	31.42
X	3 WB		59	31.51
	3 SB		69.5	30.97
	4 SG	o	36.5	31.00
	4 WB	o	61.0	30.59
	4 SB	o	73.0	31.34
Done	4 DB		100.0	30.21
	6 SG	~~o~~	28	21.47
X	6 WB	~~o~~	51	22.60
	6 SB	~~o~~	75.3	22.91
	8 SG		31.0	25.24
X	8 WB		58.0	33.78
	8 SB		70	34.66
	9 SG		18.0	11.20
X	9 WB		48.0	12.51
	9 SB		60.0	12.92
	LF-1	o2.	35.0	36.87
	LF-2		17.0	Dry
	LF-3		32.0	Dry

Jeff Cargill

SLUG TESTS

ONE JOB FIELD BOOK

Project Name: Albion L.F.

Project Number: 04011.02

Date: Beginning Dec. 14, 1992

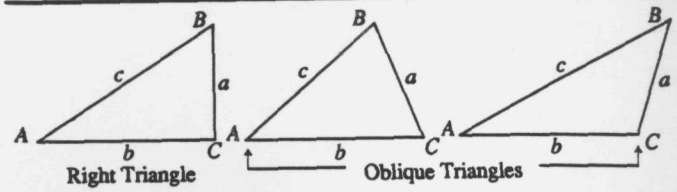
thru Dec 17, 1992

16 Pages

50% cotton content

water-resistant paper

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\text{cosec} = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B,\ c = \sqrt{a^2 + b^2} = a\sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B,\ b = \sqrt{(c+a)(c-a)} = c\sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90° - A,\ b = a \cot A,\ c = \frac{a}{\sin A}.$
A, b	B, a, c	$B = 90° - A,\ a = b \tan A,\ c = \frac{b}{\cos A}.$
A, c	B, a, b	$B = 90° - A,\ a = c \sin A,\ b = c \cos A,$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A},\ C = 180° - (A + B),\ c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a},\ C = 180° - (A + B),\ c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180° - C,\ \tan \frac{1}{2}(A - B) = \frac{(a-b) \tan \frac{1}{2}(A+B)}{a+b},$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a+b+c}{2},\ \sin \frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}},$ $\sin \frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}},\ C = 180° - (A + B)$
a, b, c	Area	$s = \frac{a+b+c}{2},\ \text{area} = \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

Partly cloudy
Cool, high 30's low 40's

Monday
Dec 14, 1992

(1)

1:10 pm arrived at the site trailer
I talked with Kathy Cotton about where the wells were and which had already been sampled.
2:00 Set up to slug MWH well cluster
Deconned XD + pluming
Started vacuum at ~3:00 Tested MW-1SB
finished test and deconned for next test
3:45 set up to slug test MW-1WB
This well was very slow to equilibrate and to recover
5:10 Stopped test and picked up equipment.
Deconned XD etc for slug testing tommorrow.
5:22 left site.
7:00-7:30 Dumped data to disk at hotel.

Jeff A. Cargill 12/14/92

Partly Cloudy
Cool high 30's - mid 30's

Tuesday ~~12/14/92~~ 12/15/92 pc 2

7:30 Check over subdivision east of site and MW-5 well cluster

7:45 On site, picked up supplies at trailer

8:05 began setting up slug test on MW-1-SG
Slugged the well. The W.L. is close to the top of screen, so vacuum may not work. I tried it anyway. The vacuum held so I figured it was working. After the test I dumped the data and it seemed good. The slug was approximately 6' compared to ~20 + 23 from the wells yesterday.

9:30 Decon and mob to next well.
Set up on MW-2-SB. Forgot to reset reference to zero before ~~10:35~~ ~~test~~. Ran test, deconned

10.35 setup and ran slug on
MW-2-WB - deconned
MW-2-SG - deconned

12:00 Dumped data to disk

12:15 lunch

12:45 Setting up on MW-5 cluster

12:45 Cont. Rain has started
MDNR Pickup truck stopped near me as I was setting up, but drove away.

1:00 Slug testing MW-5-SB. Water level is ~ 21' below TOC, so I will try to reduce vacuum.

1:15 Stopped raining
Slug tested MW-5-SG
Deconned dumped data to comp. + disk.

3:00 Returned to trailer to get more wells to slug.

3:15 Set up on MW-7 cluster
Wells are not labeled yet, but Cathie says MW-7-SB is west, MW-7-WB is in the middle and MW-7-SG is east.
Started on MW-7-SB, water level at about 13'
Slugged MW-7-WB
" " " -SG

4:47 returned to trailer to get more D.I. water

4:55 Set up on MW-4-DB

5:35 Finished slug test on MW-4-DB and decontaminated equipment.
5:45 Returned to trailer
~~6:00~~ 5:50 Left site, will dump last four slug tests later tonight at hotel.
JC

12/15/92
Jeff A - Cargill

Cloudy cool ~~high~~ 30's, windy Wednesday 12/16/92 (5)

7:30 On site I wrote down total depths and water levels for the remaining wells to be slugged. I asked Cathie which ones could be slugged today she says "any except MW-4's because they will be sampled.

8:10 Set up on MW-3-SB

8:45 Set up on MW-3-WB

9:30 Set up on MW-3-SG ← casing moved

10:00 Dumped Data to toby-2 and disk

10:20 Mobed to MW-8 cluster

10:30 Set up on MW-8-SB

11:10 Set up on MW-8-WB + MW-8-SG

12:20 Finished Slugging MW-8 cluster

12:30 dumped data to computer

12:45-1:15 lunch

1:30 Set up on MW-9-SB

The coupling on the top of slug unit is stripped and would not make air-tight seal. I had to play with the pump valve to keep constant vacuum. The data for this test should be okay, but I need to dump/view data to be sure. The coupling will

need to be replaced. I hope to be
able to finish the day the way it is
and find a replacement part tonight.

2:25 Dumped the data from MW-9-SB
it looks okay.

2:35 setting up on MW-9-WB
I cut-off part of the rubber stopper
and that helped, but it well still
need to be replaced eventually.

3:15 setting up on MW-9-SB
This well is very slow to
equilibrate

4:30 Set up on MW-6-SB

5:05 Set up on MW-6-WB

5:45 deconned and packed up.
Will dump data at hotel

Jeff Cungill 12/16/92

Cloudy cool
30's light snow

12/17/92
~~W~~ Thursday

7

8:30 On site picked up supplies at trailer, rigged slug unit so it would work for today

9:00 Set up on MW-6-SG
decomm'd + dumped data

10:50 moved to MW-4 cluster

10:55 Set up on MW-4-SB

11:30 set up on MW-4-WB

12:00 Set up on MW-4-SG

12:30 finished tests dumped data

1:00 left site

Tuesday ~~2/1/93~~ 2/2/93 gsc

Weather: cold and sunny, no wind

9:00 Began to slug test MW-10
Used a vacuum of 3" Hg let the test go for ~20 min. Dumped data → something must have gone wrong because there was no slug. I know water was drawn up because a small amount went into pump prior to releasing the vacuum. Will have to re-run the test.
The slug unit was stuck in the well. Me and Mark Christiansen worked ~ ½ hour to free it, but it wouldn't budge. We finally pulled the entire well out of the ground and then was able to remove the slug unit. We put the well back in the hole we pulled it out of. The TOC will have to be re-shot.

11:00 Set up on MW-3WB. Water at 31.47
Slug the well and dumped the data

12:00 Set up on MW-4SB water at 30.84
Slugged well and dumped data.

1:30 set up on MW-5SB water at 22.15. Slugged the well and dumped the data.

2:30 Set up on MW-12
Slugged the well. The casing moved ~3"-4" as I pulled the slug unit. I was able to push it back down near to where it was.

3:20 Set up on MW-11 water at 4.49 TOC. I will try to run a duplicate slug test on this well.

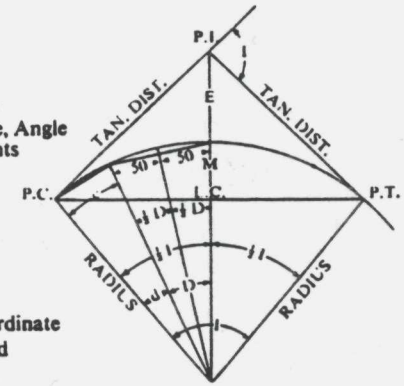
3:50 After finishing first test, I started a duplicate on MW-11. Finished slugging MW-11

4:25 Set up on MW-10 to retest the well. Water at 3.71 TOC. The vacuum pump would not draw a good vacuum, only 2" Hg max. Maybe the pump needs to be dried out (?)

5:15 Back at the trailer to dump data and view it. All appears okay.

CURVE FORMULAE

D = Degree of Curve
1° = 1-Degree of Curve
2° = 2-Degree of Curve
P.C. = Point of Curve
P.T. = Point of Tangent
P.I. = Point of Intersection
I = Intersection of Angle, Angle between Two Tangents
L = Length of Curve, from P.C. to P.T.
T = Tangent Distance
E = External Distance
R = Radius
L.C. = Length of Chord
M = Length of Middle Ordinate
c = Length of Sub-Chord
d = Angle of Sub-Chord



$$R = \frac{L.C.}{2 \sin \frac{1}{2} I} \quad T = R \tan \tfrac{1}{2} I = \frac{L.C.}{2 \cos \frac{1}{2} I}$$

$$\frac{L.C.}{2} = R \sin \frac{I}{2}, \; D\,1^\circ = R = 5730, \; D\,2^\circ = \frac{5730}{2}, \; D = \frac{5730}{R}$$

$$M = R\,(1 - \cos \tfrac{1}{2} I), = R - R \cos \frac{I}{2}$$

$$\frac{E + R}{R} = \sec \frac{I}{2}, \; \frac{R - M}{R} = \cos \frac{I}{2}$$

$$c = 2\,R \sin \tfrac{1}{2} d$$

$$L.C. = 2\,R \sin \tfrac{1}{2} I, \; E = R\,(\sec \tfrac{1}{2} I - 1), = R \sec \frac{I}{2} - R$$

Miscellaneous Conversion Factors

1 Meter	=	3.280833 feet
1 Foot	=	0.304801 meters
1 Link	=	0.66 feet
1 Chain	=	66 feet
80 Chains	=	5280 feet = 1 mile
1 Acre	=	43,560 square feet
640 Acres	=	1 square mile
1 Kilometer	=	0.621 miles
1 Mile	=	1.609 kilometers
1 Hectare	=	2.471 or 2½ acres
π	=	3.14159
1 Radian	=	57.2958 degrees

CONTENTS VALUABLE
Please Return To:

Name: Jeff Cargill

Company: WW Engineering & Science

Street: 5555 Glenwood Hills Pkwy

City: Grand Rapids State: MI

Phone: (616) 942-9600