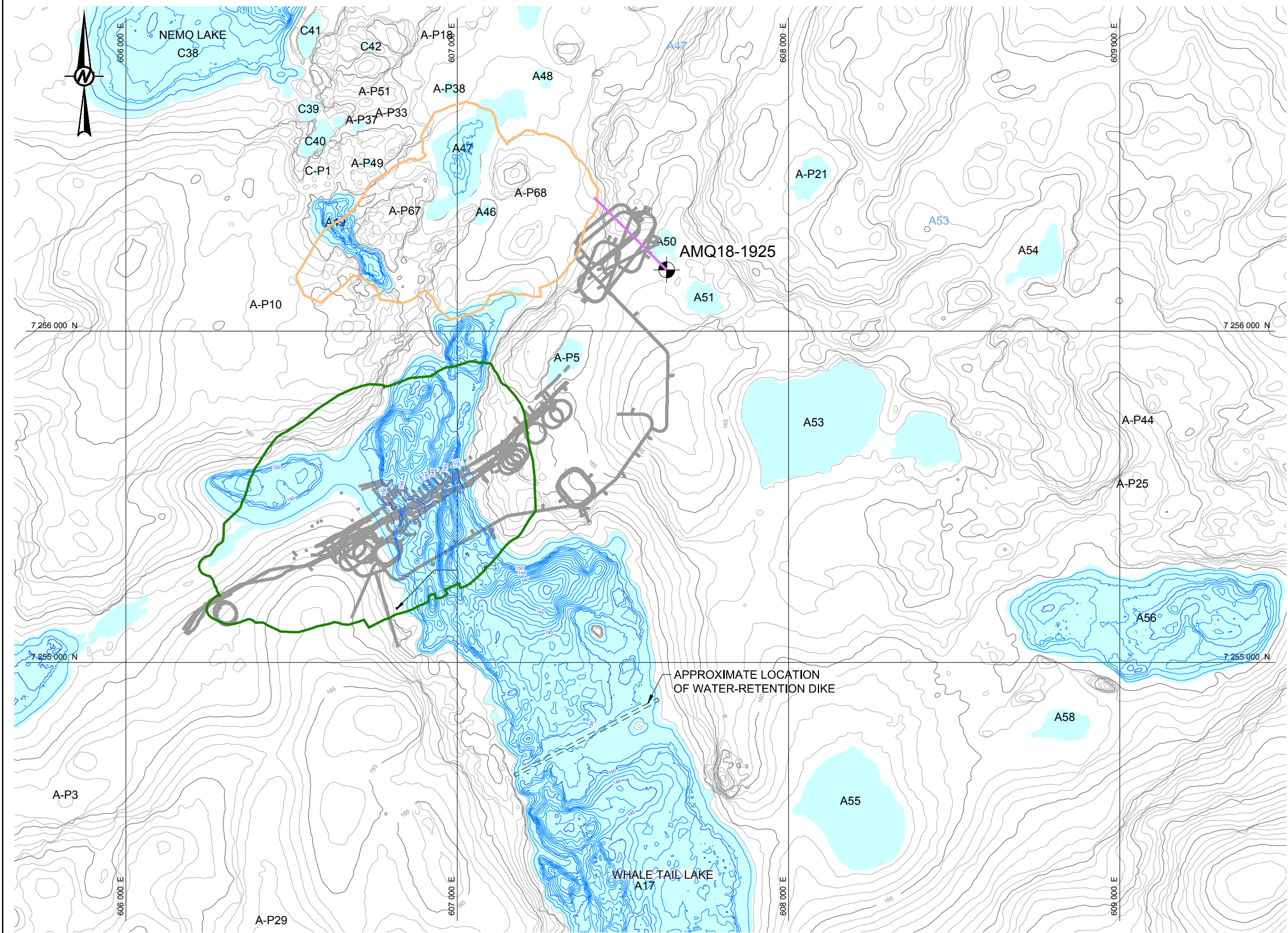


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- LEGEND**
- EXISTING GROUND SURVEY
 - EXISTING BATHYMETRY
 - WATER BODY
 - BOREHOLE COLLAR LOCATION
 - APPROXIMATE BOREHOLE TRACE
 - WHALE TAIL PIT
 - IVR PIT
 - UNDERGROUND WORKS

- NOTE(S)**
- ALL UNITS ARE IN METERS UNLESS NOTED OTHERWISE.
 - CONTOUR INTERVAL 1m MINOR AND 5m MAJOR.
- REFERENCE**
- BASE PLAN AND BATHYMETRY DATA RECEIVED FROM AGNICO EAGLE MINES LTD. DATE RECEIVED NOVEMBER 25, 2016.
CAD FILE: COURBESZM_AMARUQ_GLOBAL_UTM14_20150929.DWG
CAD FILE: 1665858-2100B-CM-0002.DWG
CAD FILE: 61-000-142-001_R0BLOC.DWG
 - UNDERGROUND WORKS RECEIVED FROM AGNICO EAGLE MINE LTD. ON OCTOBER 18, 2017.
DXF FILE: AMQMY17UG_003_DEV_2018_SHIFTED.DXF
DXF FILE: AMQMY17UG_003_DEV_2019_SHIFTED.DXF
DXF FILE: AMQMY17UG_003_DEV_2020_SHIFTED.DXF
DXF FILE: AMQMY17UG_003_DEV_2021_SHIFTED.DXF
DXF FILE: AMQMY17UG_003_DEV_2022_SHIFTED.DXF
DXF FILE: AMQMY17UG_003_DEV_2023_SHIFTED.DXF
DXF FILE: AMQMY17UG_003_DEV_2024_SHIFTED.DXF

NOT FOR CONSTRUCTION



CLIENT



AGNICO EAGLE MINTES LIMITED
MEADOWBANK DIVISION

CONSULTANT



GOLDER

YYYY-MM-DD	2019-01-31
DESIGNED	JJ
PREPARED	BM
REVIEWED	JJ
APPROVED	MD

PROJECT

WINTER 2018 HYDROGEOLOGICAL FIELD PROGRAM
AMARUQ PROJECT, NUNAVUT

TITLE

LOCATION OF AMQ18-1925

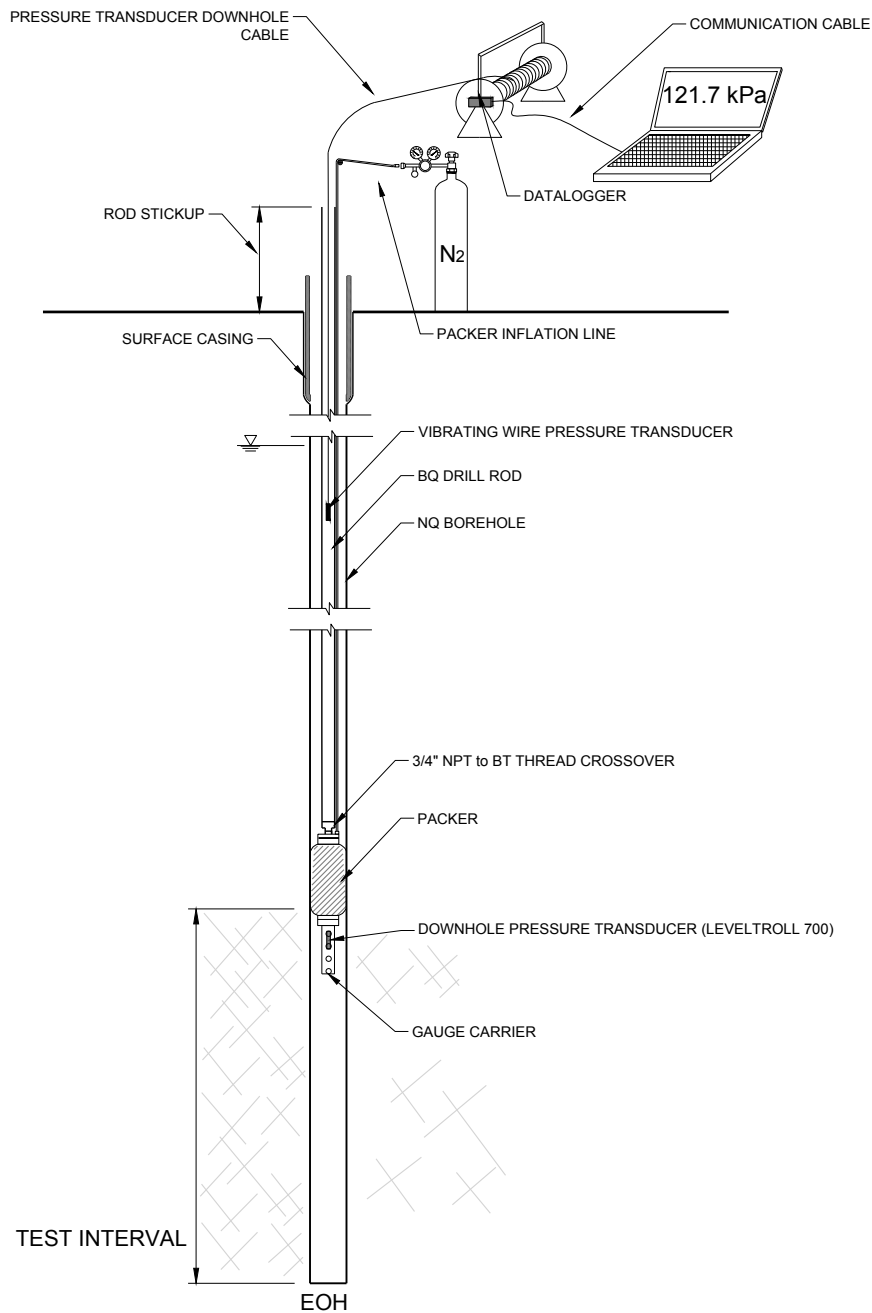
PROJECT NO.
18113037

PHASE/TASK
3000/3100

REV.
0

FIGURE
1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3/B



NOT TO SCALE
SCHEMATIC ONLY

CLIENT

AGNICO EAGLE MINES LIMITED

CONSULTANT



YYYY-MM-DD 2019-01-21

DESIGNED A.C.

PREPARED A.C.

REVIEWED J.J.

APPROVED MD

PROJECT

WHALE TAIL DEPOSIT, AMARUQ
WINTER 2018 HYDROGEOLOGICAL INVESTIGATION
KIVALLIQ DISTRICT, NUNAVUT

TITLE

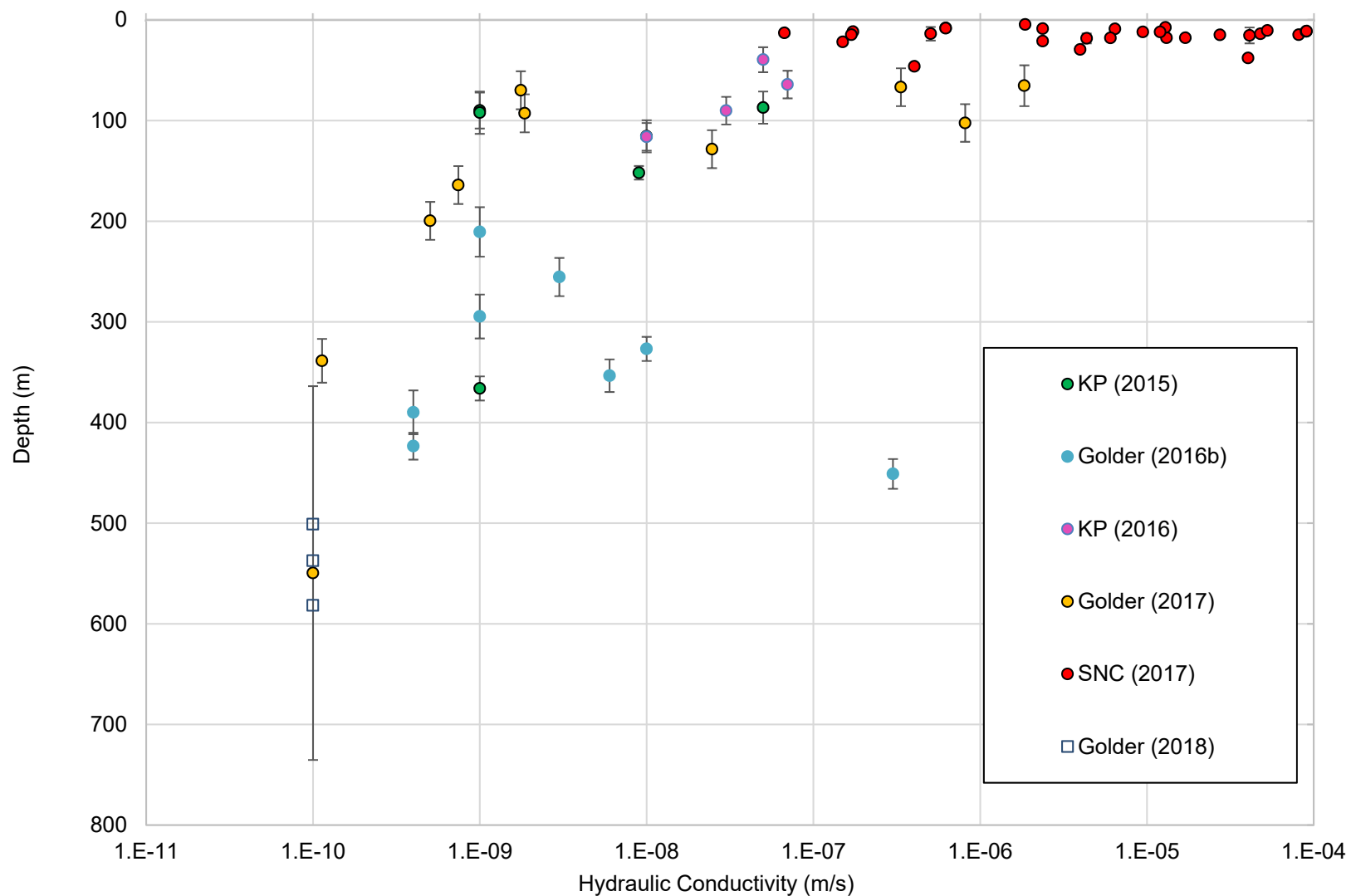
PNEUMATIC SINGLE PACKER TOOL ON DEDICATED RODS

PROJECT NO.
18113037

PHASE
3000

REV.
0

FIGURE
2



CLIENT
AGNICO EAGLE MINES LIMITED

CONSULTANT



YYYY-MM-DD	2019-02-06
PREPARED	A.C.
DESIGN	J.L.
REVIEW	M.D.
APPROVED	J.L.

PROJECT
WHALE TAIL DEPOSIT, AMARUQ
WINTER 2018 HYDROGEOLOGICAL INVESTIGATION
KIVALLIQ DISTRICT, NUNAVUT

TITLE
HYDRAULIC CONDUCTIVITY BY DEPTH BELOW GROUND SURFACE

PROJECT No.
18113037

Phase.
3000

Rev.
0

Fig.
3

ATTACHMENT 1

Transducer Calibration Certificates

Instrument Details:

Instrument Model: **Level TROLL 700**
Full Scale Pressure Range: **1000 PSI / 693 m / 2273 ft / non-vented**
Serial Number: **600912**
Hardware Version: **3**
Firmware Version: **2.13**

Calibration Details:

Calibration Result: **PASS**
Calibration Date: **2018-07-27 01:27:20 (UTC)**
Nominal Range of Applied Temperature: **-5 C to +50 C**
Temperature Accuracy Specification: **+/- 0.1 C From -5 C to +50 C**
Nominal Range of Applied Pressure: **7 PSI to 1000 PSI**
Pressure Accuracy Specification: **+/- 0.1 %FS from -5 C to +50 C, +/- 0.05 %FS at +15 C**

Post-Calibration Check:

Parameter	Applied	Reported	Deviation	Unit
Pressure	1000.0100	1000.1370	0.1270	PSI
Pressure	424.0600	424.1086	0.0486	PSI
Pressure	6.9996	7.0841	0.0845	PSI
Temperature	25.0060	24.9778	-0.0282	C

Calibration Procedures and Equipment Used:

Automated calibration procedures used.
Manu Agilent Model 34980A SerialNo MY44001931
Manu Instrulab Model 4312A-15 SerialNo 30117
Manu Instrulab Model 832-151-01 SerialNo 811
Manu Mensor Model CPC6000 SerialNo 410009W9
Manu Agilent Model 53131A-010 SerialNo MY47002678
Manu MENSOR Model 600 SerialNo 622743

Notes:

- Standards used in this calibration are traceable to the National Institute of Standards and Technology.
- This calibration report shall not be reproduced, except in full, without the written approval of In-Situ, Inc.
- A calibration interval of 12 to 18 months is recommended.



Crafted with pride by

*Russ G***Performed By: WR**

CALIBRATION REPORT

Instrument type VW transducer with data logger
 Calibration Date 15-May-18 Due date: 15-May-19
 Model Number VW2100-1.0-HD
 Pressure Range 1.0 MPa or 145.04 PSI
 Manufacturer RST instruments
 Serial number DT02036 VW45255

Pressure Test Data Sheet

Polynomial Fits			
Applied Pressure	Reported Pressure	Deviation	FS Error
(kPa)	(kPa)	(kPa)	%
0.1	0.13	0.03	0.00
197.9	198.77	0.87	0.09
400.7	401.67	0.97	0.10
596.7	597.90	1.20	0.12
791.6	793.13	1.53	0.15
974.7	976.77	2.07	0.21
Maximum Value:		2.07	0.21

End of calibration data

Performed by A.Brugger

Calibration and Equipment used:

Instrument type DPG4000-2K
 Calibration Date 15-Jan-18
 Manufacturer Omega

Equipment used is traceable to the National Institute of Standards and Technology

Pressure Range: 0-2000 psi
 Accuracy +/- 0.1%
 Serial Number 2892054

ATTACHMENT 2

HydroBench® Analysis Reports

HYDROBENCH REPORT

Project 2018 Hydrogeology Program
Site Amaruq Project Site
Source Well AMQ-18-1925
Test Name Test 1
Test Date/Time
Interval top: 419.46 m bottom: 699.00 m
Description Testing: AC
Analysis: AC
Review: JDJ

Basic Data

Test Interval 279.54 m
Porosity 0.10
Well Radius 0.038 m Tubing Radius 0.023 m
Inclination 24.0 deg
Test Volume 1261.456 l
Well Type Source

Fluid Properties

Viscosity 0.001 Pa*s
Density 1195.0 kg/m³
Compressibility 2.0e-09 1/Pa

Sequence Definition

Name	Category	t(o) [hrs]	P(o) [kPa]	P(i) [kPa]	Rate [l/min]	C [m ³ /Pa]
COM1	Variable Pressure	0.00000	4151.84			1.6e-07
PSR	Recovery	1.13278	4150.86			1.6e-07
SI-INIT	dP-Event	1.76889	4150.53	-51.1 *		1.6e-07
SI	Slug	1.78278	4201.67	4150.5		1.6e-07
COM2	Variable Pressure	3.15556	4200.18			1.6e-07

Analysis Results

Analysis "SI"

Static Pressure: 4149.87 kPa

Shell Parameters:

Name	Transmissivity [m ² /s]	Storativity [-]	Radius [m]	Flow Dimension [-]
Shell 1	2.4e-09	5.5e-04	--	2.0

Sequence Parameters:

Name	Wellbore Storage [m ³ /Pa]	Skin [-]
COM1	1.6e-07	0.0
PSR	1.6e-07	0.0
SI-INIT	1.6e-07	0.0
SI	1.6e-07	0.0
COM2	1.6e-07	0.0

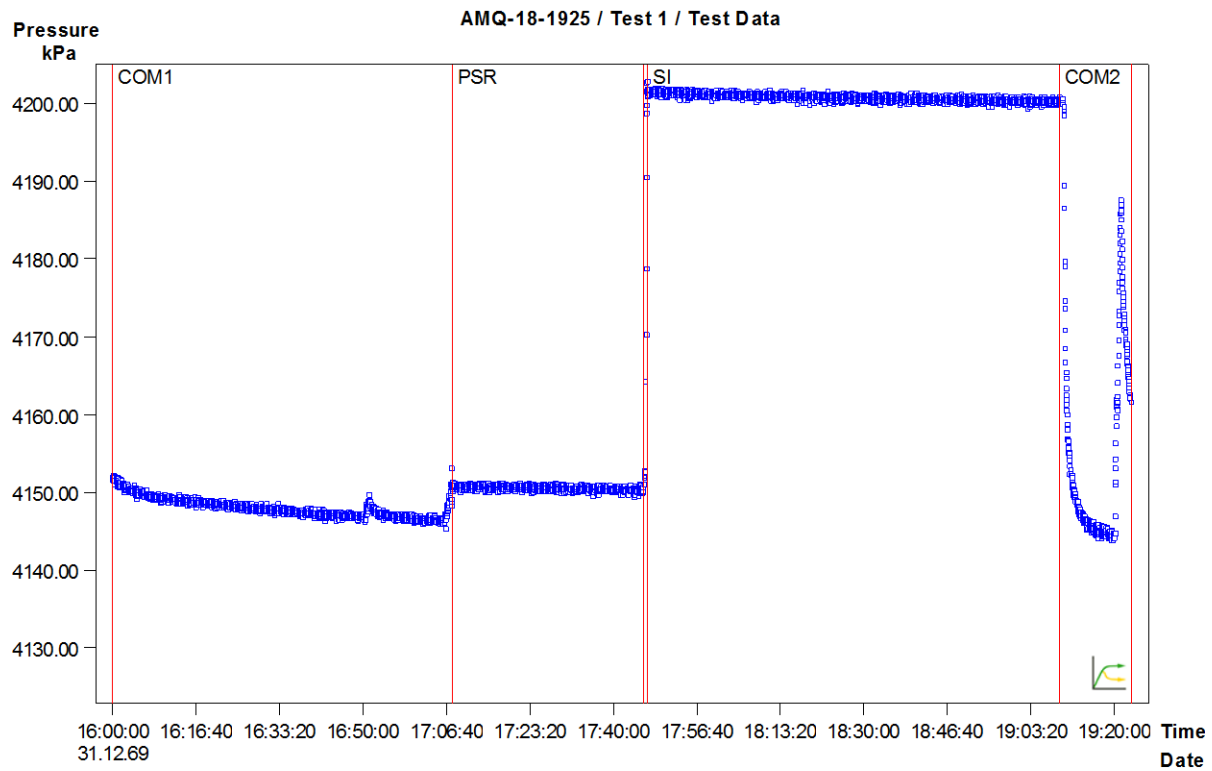


Figure 1: Pressure response and sequence definition

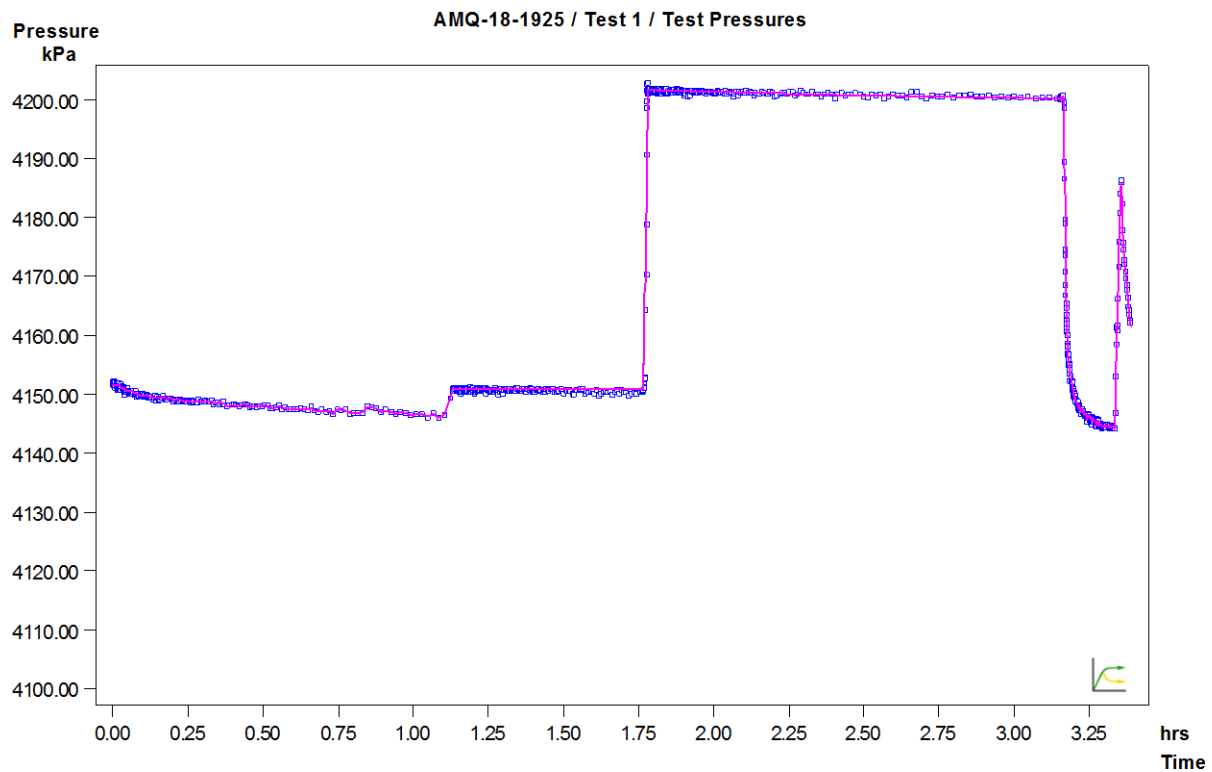


Figure 2: Pressure response (blue) and simulation (pink) cartesian plot

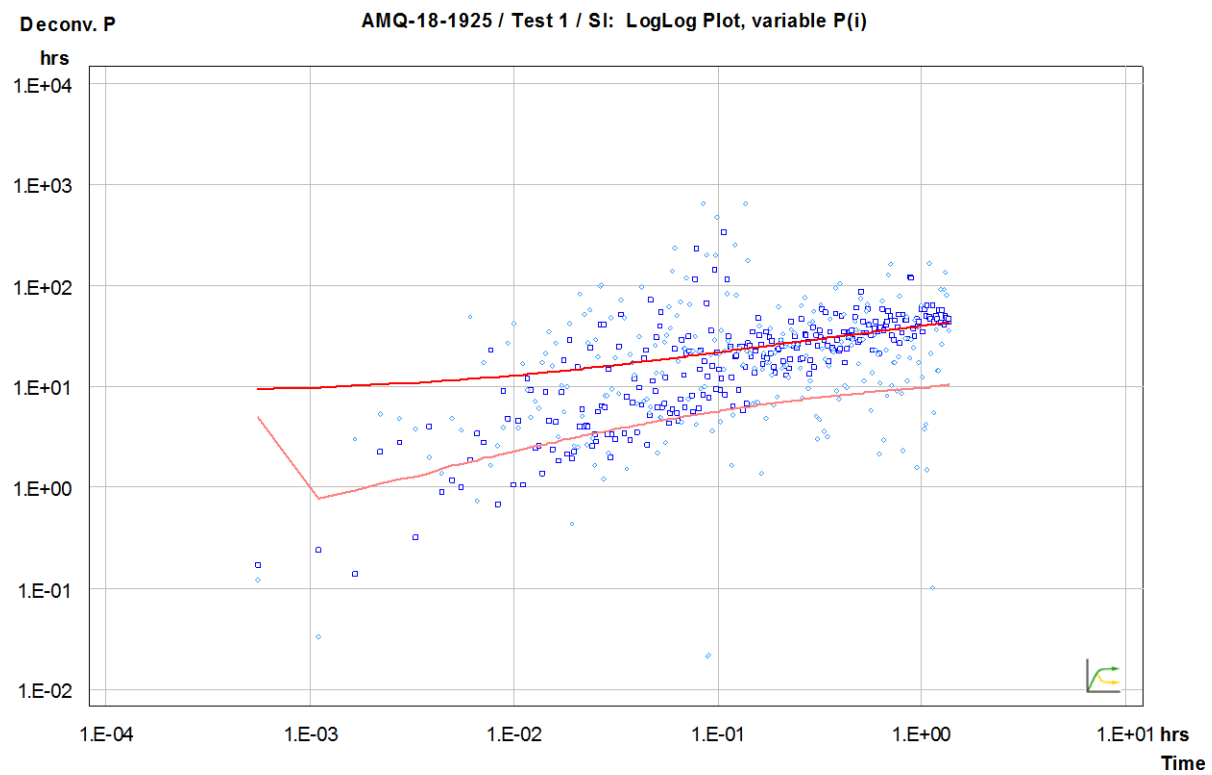


Figure 3: Deconvolved pressure response (dark blue), derivative (light blue) and simulation (red): Log-Log diagnostic plot, SI sequence

HYDROBENCH REPORT

Project 2018 Hydrogeology Program
Site Amaruq Project Site
Source Well AMQ-18-1925
Test Name Test 2
Test Date/Time
Interval top: 500.40 m bottom: 699.00 m
Description Testing: CM
Analysis: AC
Review: JDJ

Basic Data

Test Interval 198.60 m
Porosity 0.10
Well Radius 0.038 m Tubing Radius 0.023 m
Inclination 24.0 deg
Test Volume 896.205 l
Well Type Source

Fluid Properties

Viscosity 0.001 Pa*s
Density 1195.0 kg/m³
Compressibility 2.0e-09 1/Pa

Sequence Definition

Name	Category	t(o) [hrs]	P(o) [kPa]	P(i) [kPa]	Rate [l/min]	C [m ³ /Pa]
COM1	Variable Pressure	0.00000	4993.77			1.6e-07
PSR	Recovery	1.01278	4991.46			1.6e-07
SI-INIT	dP-Event	1.68167	4991.14	-45.5 *		1.6e-07
SI	Slug	1.79111	5036.64	4991.1		1.6e-07
COM2	Variable Pressure	2.62722	5035.46			1.6e-07

Analysis Results

Analysis "SI"

Static Pressure: 4990.99 kPa

Shell Parameters:

Name	Transmissivity [m ² /s]	Storativity [-]	Radius [m]	Flow Dimension [-]
Shell 1	7.0e-09	3.9e-04	--	2.0

Sequence Parameters:

Name	Wellbore Storage [m ³ /Pa]	Skin [-]
COM1	1.6e-07	0.0
PSR	1.6e-07	0.0
SI-INIT	1.6e-07	0.0
SI	1.6e-07	0.0
COM2	1.6e-07	0.0

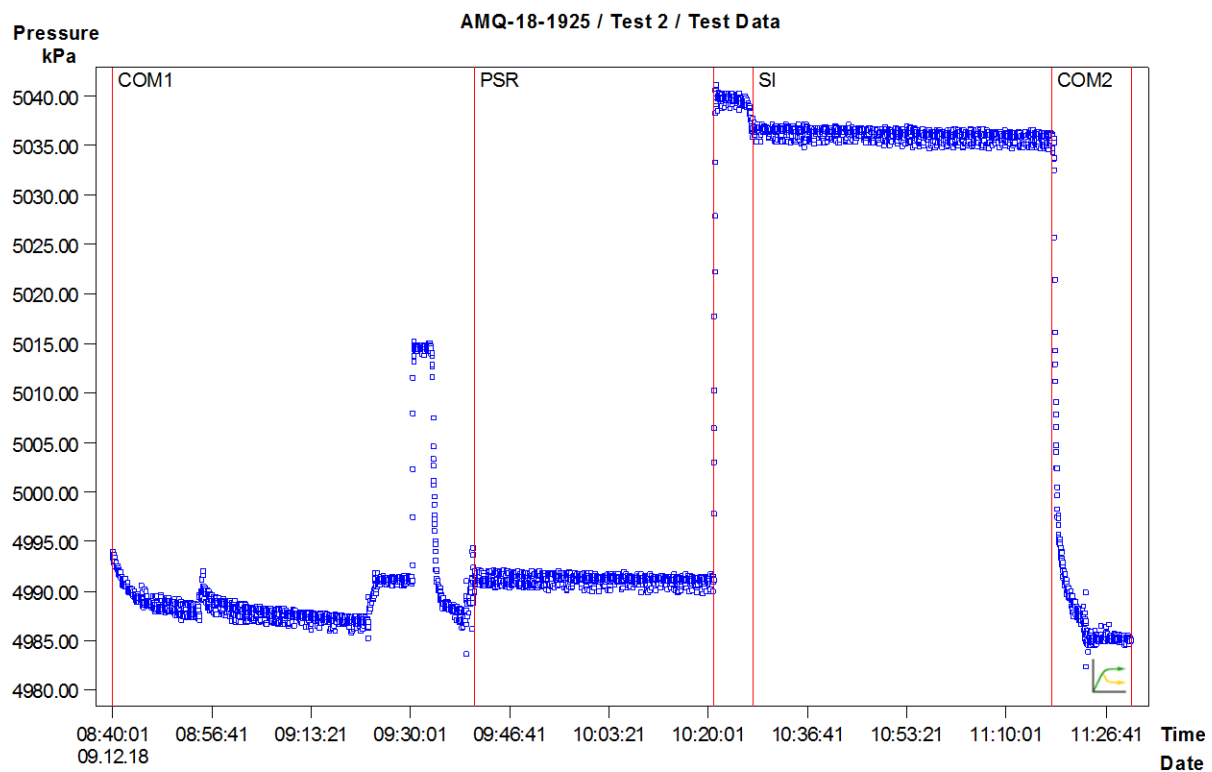


Figure 1: Pressure response and sequence definition

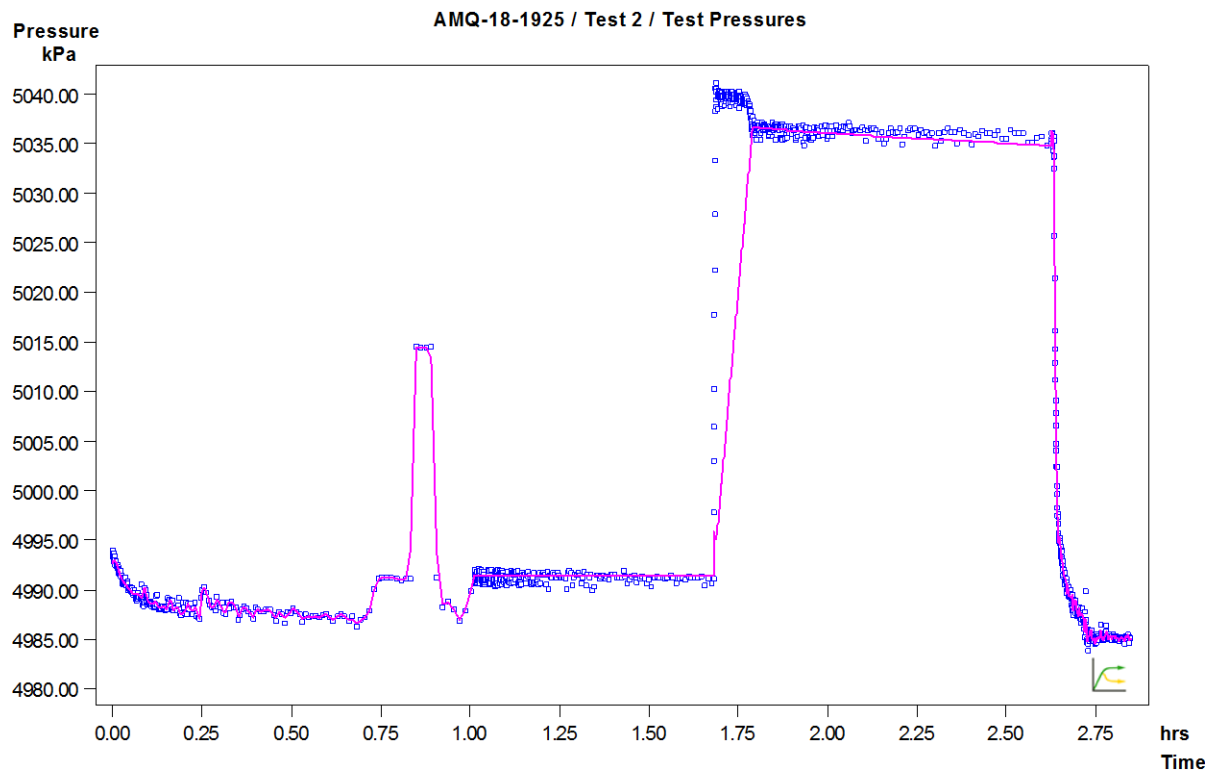


Figure 2: Pressure response (blue) and simulation (pink) cartesian plot

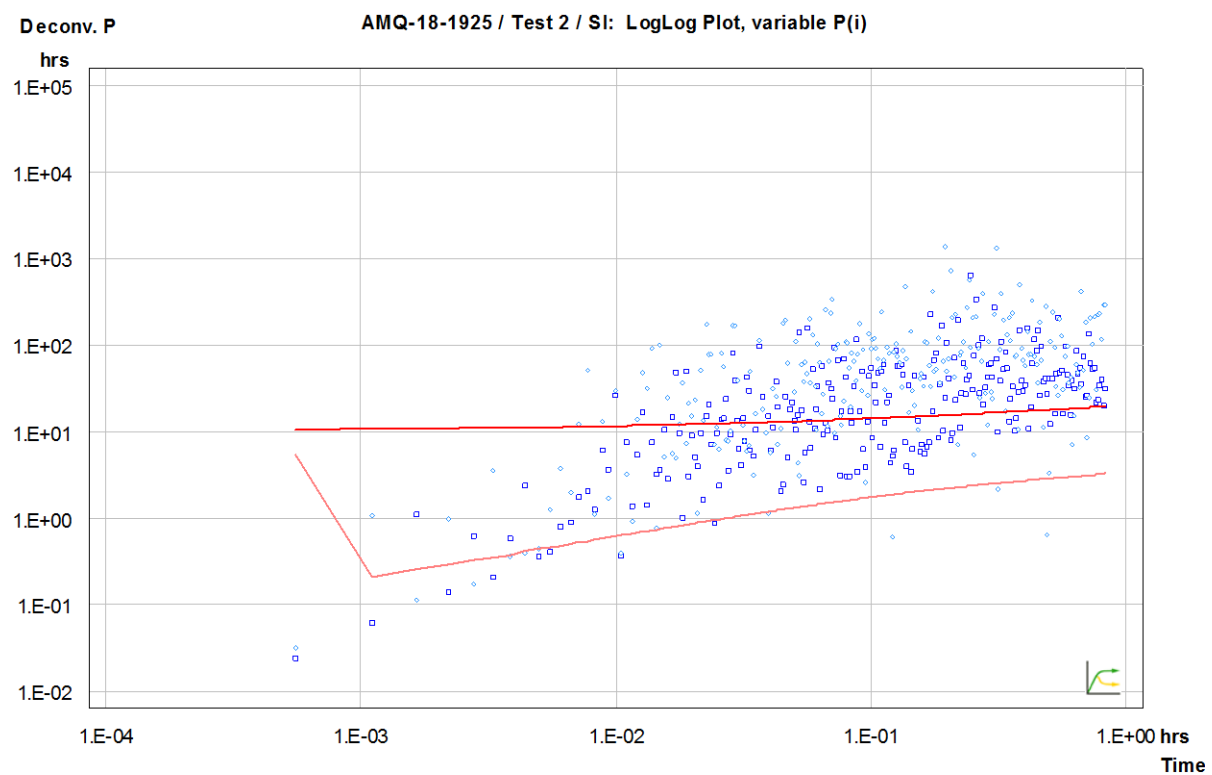


Figure 3: Deconvolved pressure response (dark blue), derivative (light blue) and simulation (red): Log-Log diagnostic plot, SI sequence

HYDROBENCH REPORT

Project	2018 Hydrogeology Program
Site	Amaruq Project Site
Source Well	AMQ-18-1925
Test Name	Test 3
Test Date/Time	
Interval	top: 599.38 m bottom: 699.00 m
Description	Testing: CM Analysis: AC Review: JDJ

Basic Data

Test Interval	99.62 m		
Porosity	0.10		
Well Radius	0.038 m	Tubing Radius	0.023 m
Inclination	24.0 deg		
Test Volume	449.547 l		
Well Type	Source		

Fluid Properties

Viscosity	0.001 Pa*s
Density	1195.0 kg/m ³
Compressibility	2.0e-09 1/Pa

Sequence Definition

Name	Category	t(o) [hrs]	P(o) [kPa]	P(i) [kPa]	Rate [l/min]	C [m³/Pa]
COM1	Variable Pressure	0.00000	6056.00			1.6e-07
PSR	Recovery	0.67889	6045.48			1.6e-07
SI-INIT	dP-Event	1.76444	6045.09	-26.2 *		1.6e-07
SI	Slug	1.77389	6071.28	6045.1		1.6e-07
COM2	Variable Pressure	2.88000	6070.23			1.6e-07
PSR2	Recovery	2.90611	6068.51			1.6e-07
SW-INIT	dP-Event	3.01056	6068.36	82.2 *		1.6e-07
SW	Slug	3.02778	5986.11	6068.4		1.6e-07
COM3	Variable Pressure	3.96056	5985.60			1.6e-07

Analysis Results

Analysis "SI"

Static Pressure: 6044.76 kPa

Shell Parameters:

Name	Transmissivity [m²/s]	Storativity [-]	Radius [m]	Flow Dimension [-]
Shell 1	7.3e-09	2.0e-04	--	2.0

Sequence Parameters:

Name	Wellbore Storage [m³/Pa]	Skin [-]
COM1	1.6e-07	0.0
PSR	1.6e-07	0.0
SI-INIT	1.6e-07	0.0
SI	1.6e-07	0.0
COM2	1.6e-07	0.0
PSR2	1.6e-07	0.0
SW-INIT	1.6e-07	0.0
SW	1.6e-07	0.0
COM3	1.6e-07	0.0

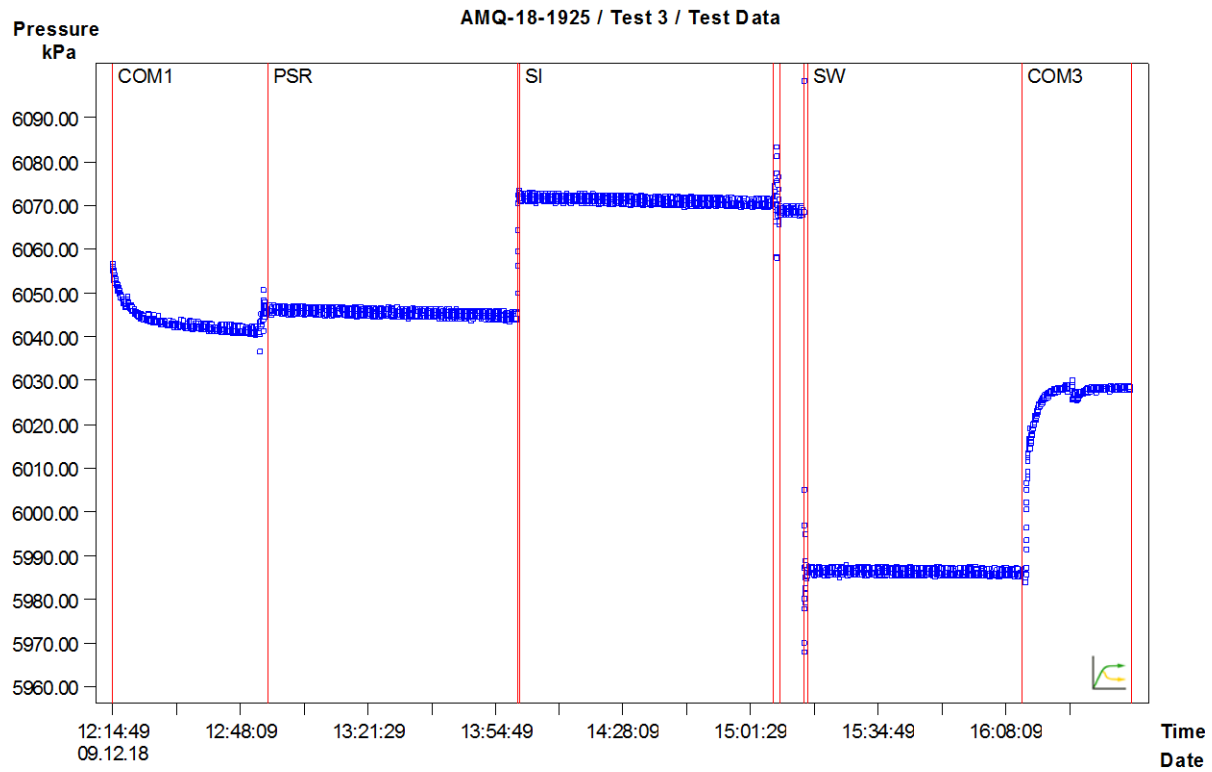


Figure 1: Pressure response and sequence definition

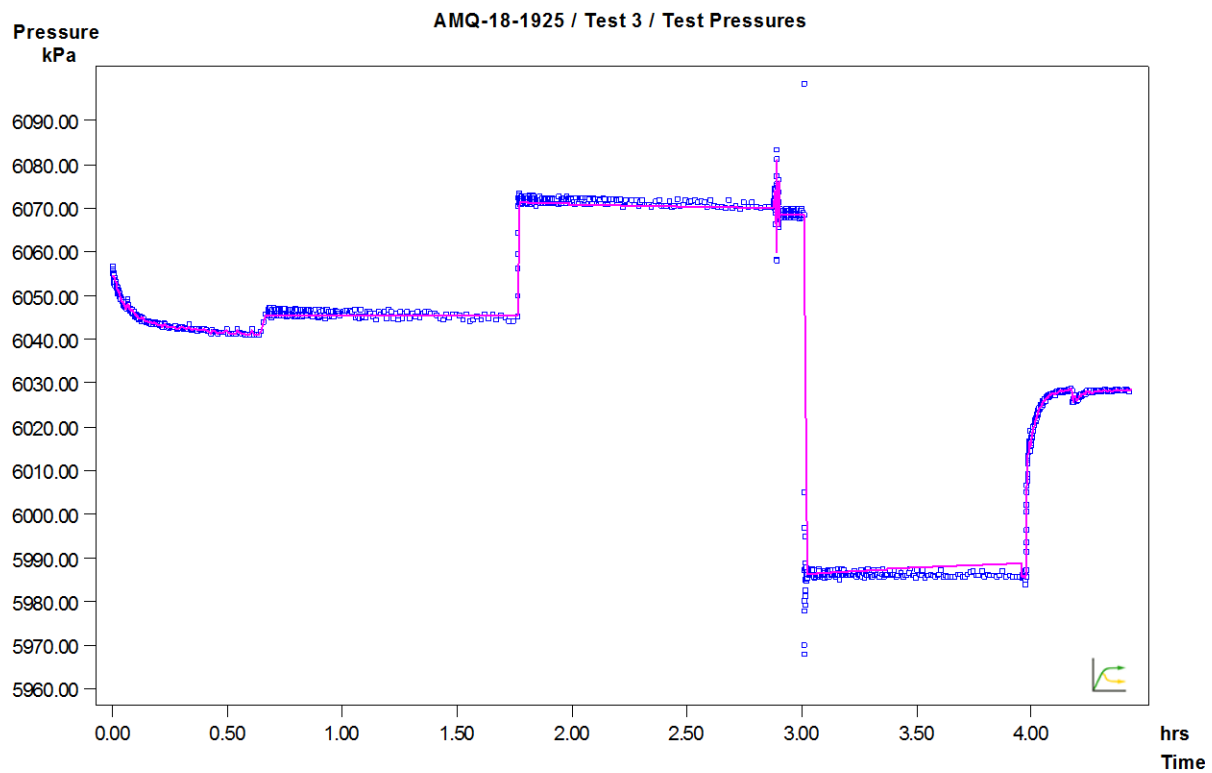


Figure 2: Pressure response (blue) and simulation (pink) cartesian plot

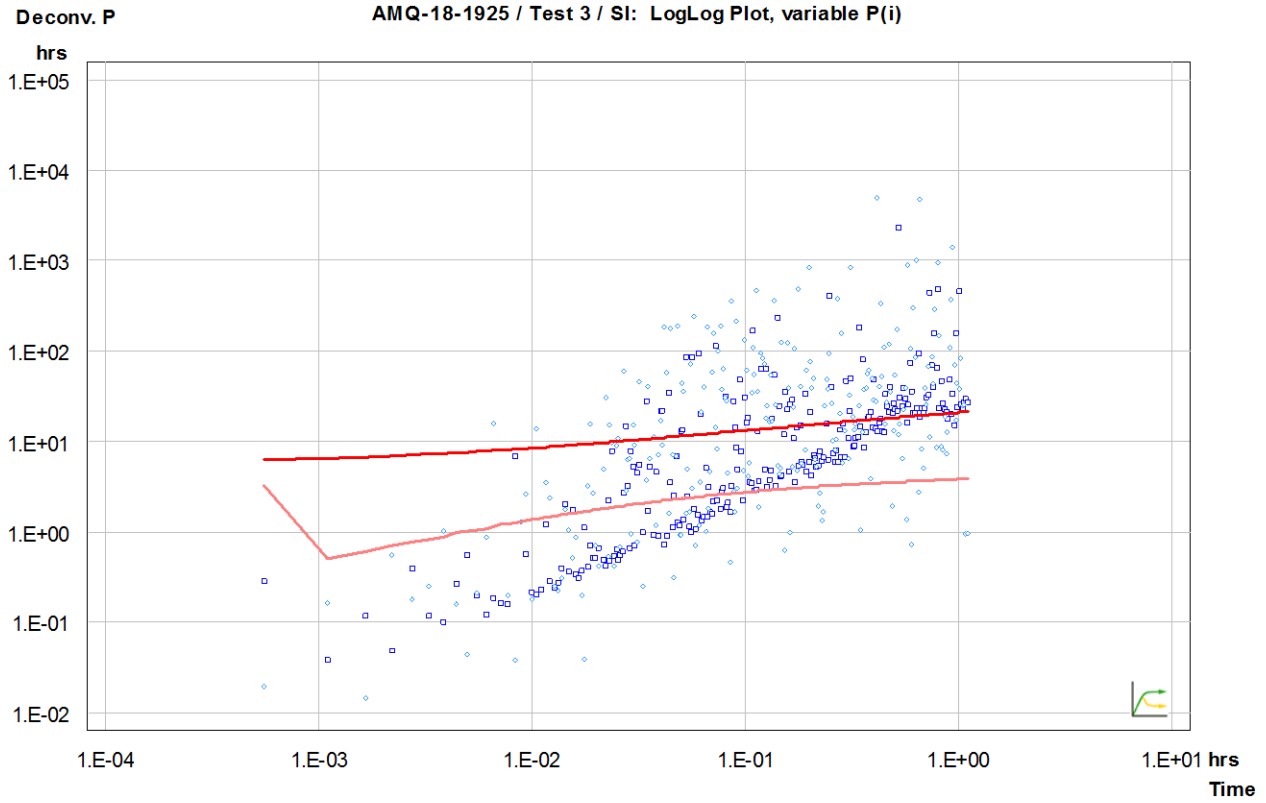


Figure 3: Deconvolved pressure response (dark blue), derivative (light blue) and simulation (red): Log-Log diagnostic plot, SI sequence

HYDROBENCH REPORT

Project 2018 Hydrogeology Program
Site Amaruq Project Site
Source Well AMQ-18-1925
Test Name Test 4
Test Date/Time
Interval top: 419.50 m bottom: 699.00 m
Description Testing: AC
Analysis: AC
Review: JDJ

Basic Data

Test Interval 279.50 m
Porosity 0.10
Well Radius 0.038 m Tubing Radius 0.023 m
Inclination 24.0 deg
Test Volume 1261.276 l
Well Type Source

Fluid Properties

Viscosity 0.001 Pa*s
Density 1195.0 kg/m³
Compressibility 2.0e-09 1/Pa

Sequence Definition

Name	Category	t(o) [hrs]	P(o) [kPa]	P(i) [kPa]	Rate [l/min]	C [m ³ /Pa]
COM1	Variable Pressure	0.00000	4017.01			1.6e-07
PSR	Recovery	1.54056	4035.07			1.6e-07
SI-INIT	dP-Event	2.19222	4034.50	-96.6 *		1.6e-07
SI	Slug	2.20556	4131.15	4034.5		1.6e-07
SW-INIT	dP-Event	3.00722	4129.94	101.2 *		1.6e-07
SW	Slug	3.05389	4028.74	4129.9		1.6e-07
PSR2	Recovery	3.56389	4028.94			1.6e-07
COM2	Variable Pressure	4.06611	4029.07			1.6e-07

Analysis Results

Analysis "SI"

Static Pressure: 4034.44 kPa

Shell Parameters:

Name	Transmissivity [m ² /s]	Storativity [-]	Radius [m]	Flow Dimension [-]
Shell 1	2.1e-09	5.5e-04	--	2.0

Sequence Parameters:

Name	Wellbore Storage [m ³ /Pa]	Skin [-]
COM1	1.6e-07	0.0
PSR	1.6e-07	0.0
SI-INIT	1.6e-07	0.0
SI	1.6e-07	0.0
SW-INIT	1.6e-07	0.0
SW	1.6e-07	0.0
PSR2	1.6e-07	0.0
COM2	1.6e-07	0.0

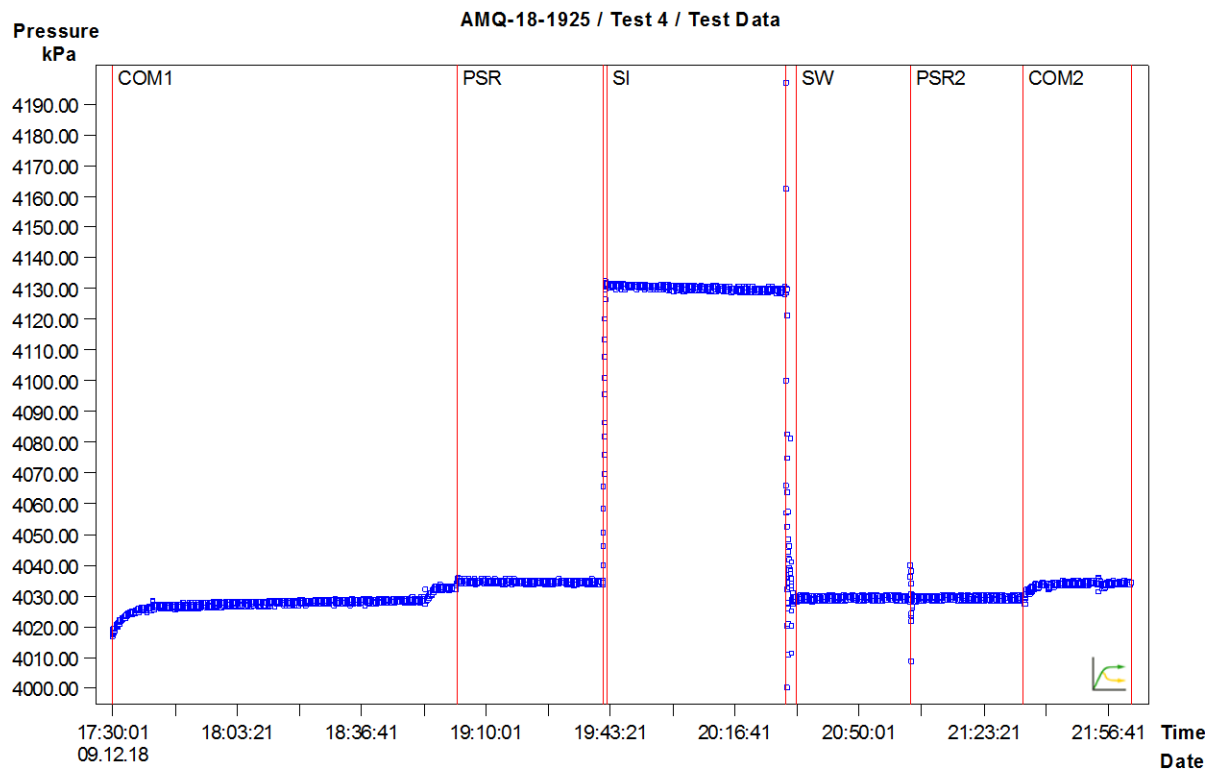


Figure 1: Pressure response and sequence definition

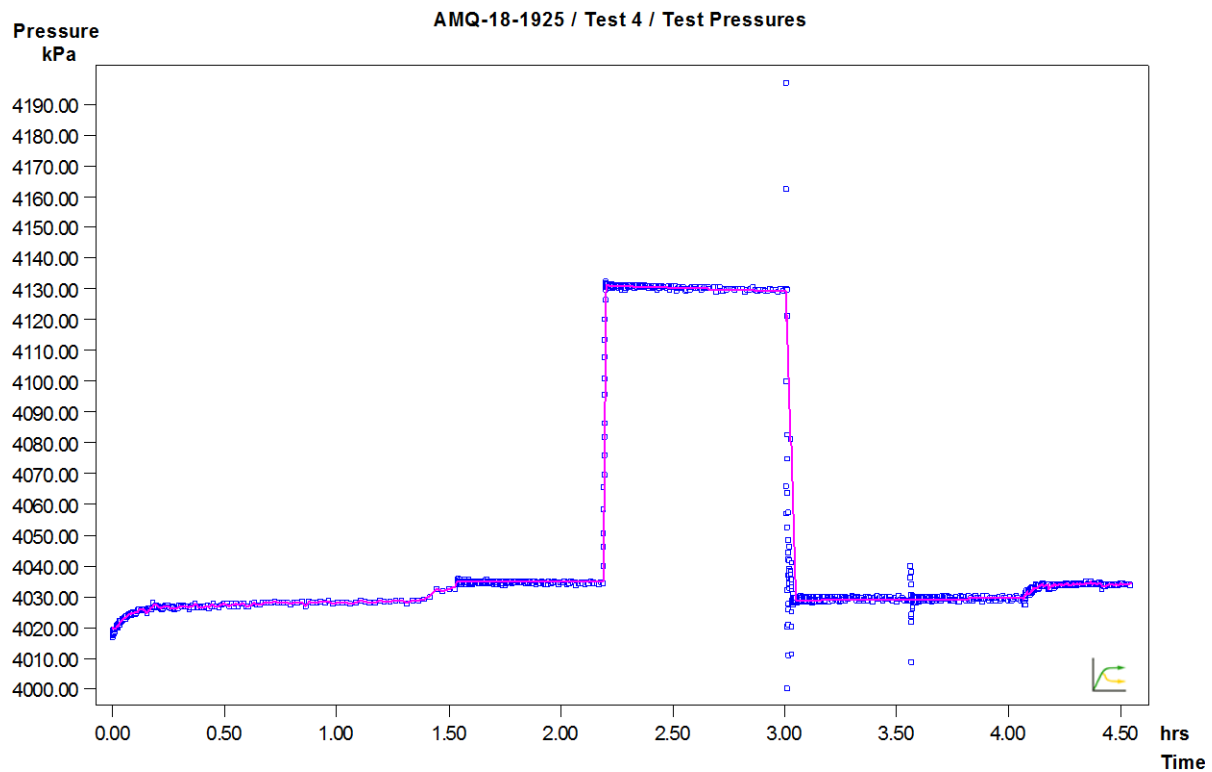


Figure 2: Pressure response (blue) and simulation (pink) cartesian plot

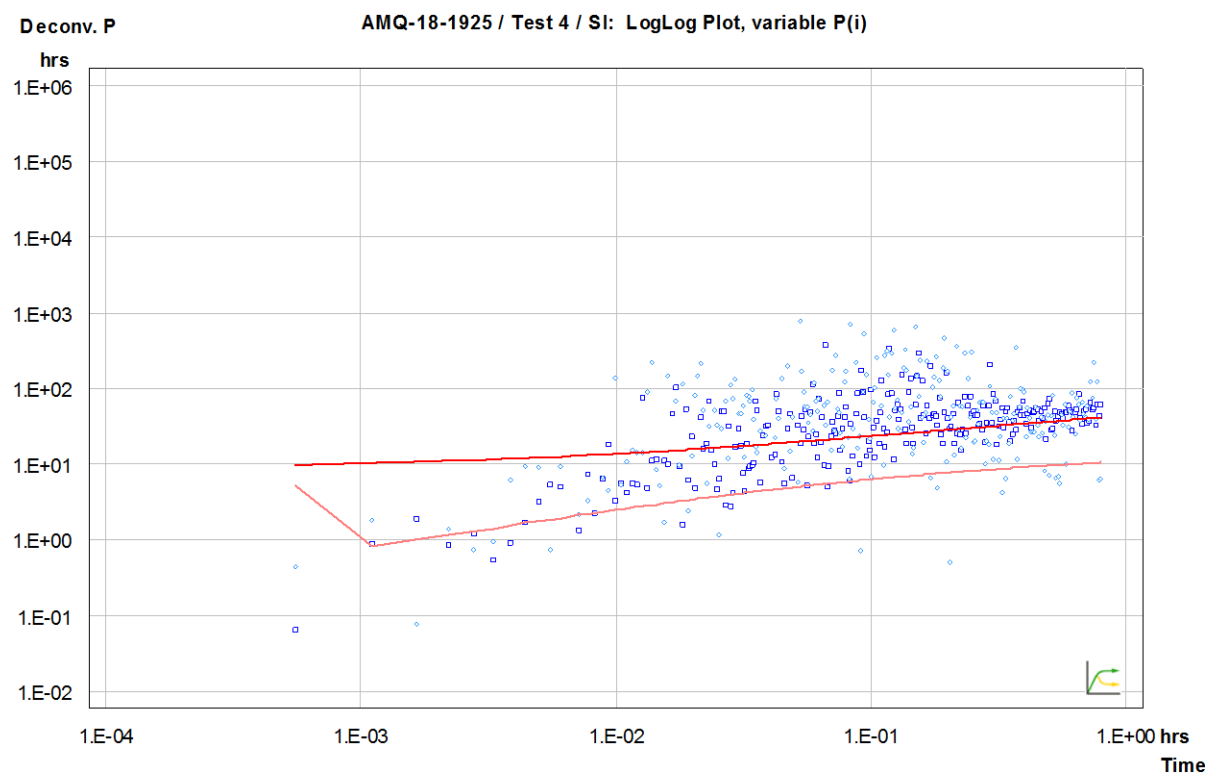


Figure 3: Deconvolved pressure response (dark blue), derivative (light blue) and simulation (red): Log-Log diagnostic plot, SI sequence