Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title:	Meliadine Fuel Tanks Piping Supply and Installation	**ITP #**	**AEM-ITP-001**
Contract number:	6515-C-270-007	**Area**	**Rankin Inlet**
Promec Ref.:	C22466T	**System**	**Pumping container**
		Discipline	**Mechanical**
			Piping
			Structure

Approval Signature

Approved on : _____

Approved by: _____

Updated on: 2017-06-06

Legend

H - Hold
W - Witness
I - Inspect
R - Review

Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	Acceptance Criteria (Specifications, Drawings, Industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	Verification Point – Contractor (H W I R)	Contractor Initials & Date	Verification Point – Client (H W I R)	Client Initials & Date	Verification Document(s) 1. List ONLY the Form(s) applicable to installation. 2. ▲ Commissioning Required Document
7.0	**FINAL TURNOVER**							
7,1	Construction Completion (Contractor Punchlist & Joint Walkdown Punchlist)	Promec / CLIENT	Quality Plan AEM-PI-PRO-002 (Pre-Commissioning Piping Procedure)	H/R		H/R		▲ AEM-GE-ITR-003 (Punchlist)
7,2	Final Acceptance of Turnover Package	Promec / CLIENT	Quality Plan	H/R		H/R		Signed ITP History Docket
7,3	Declaration of Completion	Promec	Quality Plan	H/R		H/R		AEM-GE-ITR-004 (Notice of Final Completion)
7,4	As-Built Drawings	Promec	Quality Plan	H/R		H/R		All Required As-Built Drawings
7,5	Weld Map	Promec	Quality Plan	H/R		H/R		All Required Weld Maps

PROMEC's Representatives			CLIENT's Representative	
QA/QC	Project Manager			
Name	Name		Name	
Signature	Signature	Date	Signature	Date

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-09

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Agnico Eagle No. 6515-C-270-007-141-TES-0032 R: Sub002

DOCUMENT FOR INFORMATION

Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title: Meliadine Fuel Tanks Piping Supply and Installation
Contract number: 6515-C-270-007
Promec Ref.: C22466T

Approved on : _____
Approved by: _____

Approval Signature

ITP # AEM-ITP-002
Area Rankin Inlet
System Fuel farm

Discipline: Mechanical, Piping, Structure

Updated on: 2017-06-06

Legend
H - Hold
W - Witness
I - Inspect
R - Review

Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	Acceptance Criteria (Specifications, Drawings, Industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	Verification Point				Verification Document(s) 1. List ONLY the Form(s) applicable to Installation. 2. ▲ Commissioning Required Document
				Contractor		Client		
				H W I R	Initials & Date	H W I R	Initials & Date	
1.0	**GENERAL**							
1.1	Inspection and Test Plan	Promec / CLIENT		H/R		R		Approved ITP
1.2	Document review (Acquire and review all applicable documentation)	Promec / CLIENT	Quality Plan	H/R		R		
1.3	Procedures Submitted and Approved (Hydrostatic/Pneumatic Testing, Pre-Commissioning, etc.)	Promec / CLIENT	Quality Plan	H/R		R		All Applicable Approved Procedures
1.4	Drawing Index (IFC) to Latest Revision	Promec	Quality Plan	I/R		R		VDRL
2.0	**ITP SPECIFIC**							
2.1	Non-Conformance Report & Log (Both CLIENT & Contractor Issued)	Promec / CLIENT	Quality Plan	H/R		H/R		AEM-GE-ITR-002 (Non-Conformance Report) ▲ AEM-GE-LOG-002 (Non-Conformance Log)
2.2	Weld Procedures Submitted and Approved Specification/Procedure (WPS)	Promec / CLIENT	Quality Plan	H/R		R		Approved Procedure
2.3	Welders Qualification Approved	Promec / CLIENT	Quality Plan	H/R		R		Welders Qualifications Records
2.4	Inspect Material/Equipment for Damages or Deficiencies	Promec	Quality Plan	I/R		R		AEM-GE-ITR-005 (Inspection Deficiency Report) ▲ AEM-GE-LOG-004 (Inspection Deficiency Log)
3.0	**Fabrication (Offsite)**							
3.1	Catwalks	Promec / CLIENT / Third-Party	IFC Drawings	W/R		W/R		Third-party-report
3.2	Steel fuel tanks	Promec / CLIENT / Third-Party	6515-C-270-007-SPT-001_R3 (Technical Specifications)	W/R		W/R		Third-party-report

Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title: Meliadine Fuel Tanks Piping Supply and Installation
Contract number: 6515-C-270-007
Promec Ref.: C22466T

Approved on : _____
Approved by: _____

Approval Signature

ITP # AEM-ITP-002
Area Rankin Inlet
System Fuel farm
Discipline Mechanical / Piping / Structure

Updated on: 2017-06-06

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Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	Acceptance Criteria (Specifications, Drawings, Industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	Verification Point				Verification Document(s) 1. List ONLY the Form(s) applicable to installation. 2. ▲ Commissioning Required Document
				Contractor		Client		
				H W I R	Initials & Date	H W I R	Initials & Date	
4.0	**Mechanical & Piping (Offsite)**							
4,1	Fabrication of piping spools	Promec / CLIENT	AEM-PI-PRO-003 (Piping Erection Procedure) AEM-WE-PRO-001 (Welding Control Procedure) CODES / STANDARDS B31,3	W/R		W/R		AEM-WE-ITR-001 (Daily Weld Report) AEM-GE-LOG-005 (Weld Log)
4,2	Painting of the piping spools (Safety Orange)	Promec / CLIENT / Third-Party	6515-GGD-022_R0 (Project Standard paint specifications) AEM-PI-PRO-003 (Piping Erection Procedure)	I/R		H/R		Third-Party Report AEM-PI-ITR-002 (Check List for Pipe Systems)
4,3	Support fabrication	Promec / CLIENT / Third-Party	IFC Drawings AEM-PI-PRO-003 (Piping Erection Procedure)	W/R		W/R		Third-Party Report AEM-PI-ITR-002 (Check List for Pipe Systems)
4,4	Perform all non-destructive examination required (NDE)	Promec / CLIENT / Third-Party	AEM-WE-PRO-002 (Non-Destructive Exam. Procedure) 5%, by ultrasound or penetrating liquid	W/R		W/R		Third-Party Report AEM-GE-LOG-005 (Weld Log)
4,5	Inspection Release prior to shipment	Promec / CLIENT	7.01_R0_Packing_Shipping_Instruct (Shipping requirements for AEM)	H/R		H/R		Partial History Docket

Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title: Meliadine Fuel Tanks Piping Supply and Installation
Contract number: 6515-C-270-007
Promec Ref.: C22466T

Approved on : _____
Approved by: _____

Approval Signature

ITP # AEM-ITP-002
Area Rankin Inlet
System Fuel farm

Discipline: Mechanical, Piping, Structure

Updated on: 2017-06-06

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				Contractor		Client		
				H W I R	Initials & Date	H W I R	Initials & Date	
5.0	**Mechanical & Piping (Onsite)**							
5.1	Installation of the tanks	Promec / CLIENT	AEM-ME-PRO-002 (Fuel Tank Installation Procedure)	W/R		W/R		AEM-ME-ITR-003 (Fuel Tank Checklist)
5.2	Installation of the catwalks	Promec / CLIENT	AEM-PI-PRO-003 (Piping Erection Procedure)	I/R		I/R		AEM-ME-ITR-004 Catwalks & Stairways Checklist
5.3	Support fabrication and installation	Promec / CLIENT	AEM-PI-PRO-003 (Piping Erection Procedure)	W/R		I		AEM-PI-ITR-002 (Check List for Pipe Systems)
5.4	Piping installation	Promec / CLIENT	AEM-PI-PRO-003 (Piping Erection Procedure) AEM-WE-PRO-001 (Welding Control Procedure) CODES / STANDARDS B31,3	I/R		I/R		AEM-PI-ITR-002 (Check List for Pipe Systems)
5.5	Perform all non-destructive examination required (NDE)	Promec / CLIENT / Third-Party	AEM-WE-PRO-002 (Non-Destructive Exam. Procedure) 5%, by ultrasound or penetrating liquid	W/R		W/R		Third-Party Report AEM-GE-LOG-005 (Weld Log)
5.6	Piping Testing & Cleaning	Promec / CLIENT	AEM-PI-PRO-001 (Hydrostatic/Pneumatic Test Procedure)	H/R		H/R		▲ AEM-PI-ITR-001 (Pressure Test Report)
5.7	Identification of piping (tagging)	Promec / CLIENT	6515-C-270-007-SPT-001_R3 (Technical Specifications)	I/R		I		AEM-PI-ITR-002 (Check List for Pipe Systems)

Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title: Meliadine Fuel Tanks Piping Supply and Installation
Contract number: 6515-C-270-007
Promec Ref.: C22466T

Approved on : _____
Approved by: _____

Approval Signature

ITP # AEM-ITP-002
Area Rankin Inlet
System Fuel farm
Discipline Mechanical / Piping / Structure

Updated on: 2017-06-06

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				Contractor		Client		
				H W I R	Initials & Date	H W I R	Initials & Date	
6.0	FINAL TURNOVER							
6.1	Construction Completion (Contractor Punchlist & Joint Walkdown Punchlist)	Promec / CLIENT	Quality Plan AEM-PI-PRO-002 (Pre-Commissioning Piping Procedure)	H/R		H/R		▲ AEM-GE-ITR-003 (Punchlist)
6.2	Final Acceptance of Turnover Package	Promec / CLIENT	Quality Plan	H/R		H/R		Signed ITP History Docket
6.3	Declaration of Completion	Promec	Quality Plan	H/R		H/R		AEM-GE-ITR-004 (Notice of Final Completion)
6.4	As-Built Drawings	Promec	Quality Plan	H/R		H/R		All Required As-Built Drawings
6.5	Weld Map	Promec	Quality Plan	H/R		H/R		All Required Weld Maps

PROMEC's Representatives			CLIENT's Representative	
QA/QC	Project Manager			
Name	Name		Name	
Signature	Signature	Date	Signature	Date

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-05-08

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Agnico Eagle No. 6515-C-270-007-141-TES-0035 R: Sub001

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Hydrostatic / Pneumatic Test Procedure for Piping

AEM-PI-PRO-001

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-26
Verified by:	Jérémy Duval	**Signature:**		**Date:**	2017-04-26
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-26

CLIENT Approvals

Verified by:	Rene Fillion	**Signature:**		**Date:**	2017-05-07
Approved by:		**Signature:**		**Date:**	

Table of Contents

1. PURPOSE

This procedure provides the requirements for hydrostatic & Pneumatic pressing testing of piping system.

2. CODES AND STANDARDS

- ASME B31.1
- ASME B31.3 (CSA B 51-03)

3. SAFETY AND ENVIRONMENT MEASURES

Promec will set the organisation and implement the safety measures with the help of CLIENT's staff.

Moving proper containments, for the disposal of spilled hydrostatic fluids and any contaminated soil that results hydrostatic fluids.

All activities must be fully documented and provided to R&E.

3.1 Safety Measures during the Preparation of the Test

- Define a specific area for each pressure test.
- Make a list of authorized personnel that will have access to the area during the test.
- Advise other sub-contractors of the terms of tests and the forbidden works to be performed in the area of the test.
- Inspect temporary installations and equipment before conducting the tests to comply with current safety measures.
- Inspect and check temporary scaffolding and lights for inspection, if required.
- List all equipment that will be handled during filling, pressurizing and drainage of the system.
- Check gauge calibration list for measurement and control equipment. (Pressure test gauges shall be calibrated once every six months).
- Ensure that all the test fluids shall be stored and/or disposed of in a safe and acceptable manner.

3.2 Disposal of Test Medium

The release of hydrostatic test water in an amount of 1,000 m^3, or more, requires a registration number from AENV as proof of authorization to release hydrostatic test water. Contact R&E at least one month prior to beginning testing so applications can be completed and a registration number received the following information is required for applications:

- Name, address, fax and phone numbers of the person responsible for the testing.
- Type of pipeline, storage tank or vessel.
- Legal land descriptions for the beginning and end of the pipeline section(s), storage tank or vessel to be tested.

- Total length of pipeline to be tested.
- Inside diameter of the pipeline (mm) to be tested.
- Total volume of hydrostatic test water to be used (m^3).
- Source of the hydrostatic test water: groundwater, surface water, municipal, or other.
- Origin or name of source water.
- Anticipated date of withdrawal of source water.
- Location of release of test water (legal land description).
- Start and end dates for release.
- Volume of release (m^3).
- Approximate rate of release(s) (m^3/hr).
- Name and location of receptor: land, surface water, injection well, other.
- Additives used (MSDS sheet(s) must be included).
- A description of the treatment and mitigative methods used prior to and during release.
- A map, diagram, or air photo of the release area showing release location, receiving land, direction of receiving water flow (if applicable) and sampling locations (soil and water).

If there are any changes to the registration information after submission, R&E must be notified immediately. The application must be signed by the person responsible for the pipeline/ storage tank indicating that the testing will be done in accordance with AENV's Code of Practice.

3.2.1 Glycols Diluted with Water

Glycols diluted with water may be used for hydrostatic testing, but must be properly managed so as not to spill, contaminate soils, or contaminate ground or surface waters and must be disposed off site in an environmentally safe manner. All activities must be fully documented.

3.2.2 Test Water Release Authorization

Upon completion of testing and prior to release, a representative grab sample of the hydrostatic test water must be obtained from the testing pipes and analyzed as specified in Appendix A – "Monitoring Requirements and Limits for Release to Land" and Appendix B – "Monitoring Requirements and Limits for Release to Receiving Water". Hydrostatic test water must not be released before to obtain R&E approval.

3.2.3 Liquid Disposal Documents

The testing crew supervisor must compile the following information for each hydrostatic test:

- A schematic diagram and details of the monitoring and release operations, including monitoring points, holding system, conveyance system, hydrostatic test water release flow rate and area of receiving water.

- Where the release is to receiving water, the name of the receiving water, the estimated rate of flow of the receiving water at the time of the release and photographs taken before, during and after release at the point of release and downstream of a distance of at least 100 meters from the point of release for flowing water.
- Photographs of the sampling points, holding system and conveyance system.
- Where released to land, photographs of the land taken 7 days after the release is complete.
- All analytical results obtained for the hydrostatic testing.
- All information must be retained for a minimum of 5 years after completion of the hydrostatic testing.

4. GENERAL

4.1 Introduction

As the line designation total this procedure describes the pressure tests that have to be achieved on the following systems:

CH: Chemicals
CRW: Cold Recycle Waters
CWR: Cooling water return
CWS: Cooling water supply
DW: Drinking water
FW: Fire water
IWR: Inhibited water return
HC: High pressure condensate
HRW: Hot recycle water
HS: High pressure steam
IWS: Inhibited water supply
LC: Low pressure condensate
LS: Low pressure steam
IA: Instrument Air
LLS: Low low pressure steam
MS: Medium pressure steam
UA: Utility air
UW: Utility water
WRW: Warn recycle water
DR: Drain
EQT: Equipment trim
PA: Plant air

4.2 Applied Regulations and Standards

The pressure tests will be conducted according to standard ASME B 31.1, Article 137, and ASME B 31.3 (CSA B 51-03) - Pressure Test.

4.3 Hydrostatic/Pneumatic Test Package

The Pressure Test Package consists of:

- Piping Pressure Test Record.
- Copy of the Line Designation Table.
- A copy of the P & ID showing the lines involved.
- Isometrics drawings.
- Copy of the drawings gauges calibration sheet.
- All NDE approved.

The Pressure Test Package will be submitted to CLIENT's for review and approval to proceed prior to testing.

5. PREPARATION FOR THE PRESSURE TEST

5.1 Spring Supports

If necessary, the spring supports must be blocked before filling.

Promec will check that all pipe supports are entirely installed according to the drawings.

5.2 Wireless Communication

To ensure at all times that communications are constant between the operator of the pressurizing pump and the workers monitoring the control gauge on the highest location of the piping system installation, two ways radio communication shall be used.

6. HYDROSTATIC/PNEUMATIC TEST PROCEDURE

6.1 System Inspection

- Promec shall check pipe loop with all approved documentation:
  - NDT/PWHT.
  - Check that all specified bolts and gaskets are installed.
  - Check that all vents and drains are installed.
  - Check that all pressure connections are installed correctly.
  - Check for direction of flow through filters and strainers, traps, check valve, etc.
  - Check that all temporary pipe supports have been removed.
  - Check that all in-one valves installed are completely open and protected (secured against unauthorized closing.
  - Check that temporary spools have been installed.
  - Check test medium for conformity to requirement
  - Check pressure gauge calibration.

6.2 System Water Filling, Air Venting, Draining and Flushing

Considering that the water filling for the pressure test is done for the first time, it is necessary to flush the piping system by filling and draining. For this purpose, water from the fire hydrant will be used. If fire hydrants are not available, water shall be trucked in and pumped into the system.

Promec shall ensure that the water that flows out in the period of drainage does not contain any hazardous contaminant for the environment so it can be directly poured into the sewer. One complete fillings and flushes should be enough.

Air venting is accomplished with valves installed for this purpose on the highest locations of the tested systems.

Air venting is completed when water is flowing from the air venting valves in a continuous flow free of air bubbles.

Speckable, blind, blinds flanges, temporary pipe plug or caps will be installed at locations indicated on isometrics and/ or P &ID's drawings.

Place of nozzles for connection on pressurised pump, gauges and air venting valve are shown on schematics, which will be attached for each hydrostatic testing system. The form to be used will be developed with CLIENT.

6.3 Water Requirements

For hydrostatic test, the test fluid shall be clean filtered water that will not corrode or damage the system being tested.

Approval must be obtained from CLIENT if the test fluid is anything other than clean water.

6.4 Inspection of the Pressurized System

The hydrostatic test must be performed during at least 10 minutes.

Visual inspection is mandatory. In the case of a leakage, the inspector will visibly mark the area with paint marker.

6.5 Acceptability Standard

The pressure test procedure is considered successfully conducted when:

- The test pressure is reached and kept constant.
- No trace of cracks, leaks and changes in the shape of parts of the system have been observed during inspection.
- The verification of the written report is noted and approved by all participants witnessing the pressure test.

6.6 Hydrostatic/Pneumatic Test Procedure Completion

A test record shall be prepared for each piping system tested and shall include the following:

- Date of test
- Identification of piping system tested
- Test fluid
- Test pressure
- Duration of test
- Test fluid temperature
- Ambiant temperature
- Pressure gauge number
- Certification of results by examiner with name and signature.
- Approval by CLIENT

N.B.: For testing an austenitic stainless steel piping, checked that the chlorine is under than 50 ppm.

7. WATER RELEASE COMPLETION

When the hydrostatic test is completed, the water stay in the pipe or in a holding vessel until Promec obtains the authorization for releasing the testing fluid. After, we use a truck to transport the water to the release area or, if possible, a water disposal ditch is used.

8. RESPONSIBILITIES

8.1 Responsibilities and Duties of Contractors

Promec's working team shall be responsible for the quality of work and for the compliance of the test procedure. Complete activities shall be registered in the hydrostatic test procedures log book. During the hydrostatic test, Promec shall provide a working team to cover the following activities:

- Water filling and air venting of system under test.
- Pressurizing of system.
- Control of pressure at highest point of system.
- Drainage of system after testing.

8.2 Supervisor of the Hydrostatic Test Procedure (CLIENT)

The hydrostatic test supervisor shall be nominated by CLIENT and coordinate the work with all other participants.

9. PNEUMATIC TEST

Wherever a hydrostatic test cannot be performed, a pneumatic test should be carried out upon CLIENT's approval.

Appendix C

STATUS OF INSTRUMENTS DURING PRESSURE TEST

STATUS OF INSTRUMENTS DURING PRESSURE TEST

Remove:

- Control Valves
- FlowInstruments-Rotameters (Do not force reverse flow)
- Flow Meters-positive displacement type
- Flow Switches-van type
- Orifice Plates (Install after hydrotesting and line flushing)
- Pressure Regulators
- PSV's, TSV's- 3/4" & 1 " screwed

Block and Vents:

- Analyzers
- Flow Instruments-D/P cell & bellow types
- FlowMeters – turbine type
- Flow Indicating Switches-bellows type
- Level Instruments-C/P cell & bellows type
- Pressure Gauges
- Pressure Instruments-all types
- Pressure Switches

Blind Off:

- PSV's (Test gauge may be used if one is furnished; Blinds not required on PSV outlets discharging into a system being tested at 103kPa (15 PSI) or less.)

Include in Test:

- Gauge glasses
- Level Instruments-displacer type (Do not overpressure. If in doubt, block and drain instead.)
- Level Switches-float type (Do not overpressure. If in doubt, block and drain instead.)

To avoid damage due to freezing, all instruments shall be protected. As a good practice it is recommended that instruments be drained and process lead lines blown out with air or nitrogen in preparation for cold weather and during cold weather.

Appendix D

ALL APPLICABLE ITRs & LOGs

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY JG Date: 2017-05-16

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Agnico Eagle No. 6515-C-270-007-141-TES-0036 R: Sub001

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Pre-Commissioning Piping Procedure

AEM-PI-PRO-002

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-26
Verified by:	Jérémy Duval	**Signature:**		**Date:**	2017-04-26
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-26

CLIENT Approvals

Verified by:		**Signature:**		**Date:**	
Approved by:		**Signature:**		**Date:**	

Table of Contents

1. SCOPE

This procedure summarizes Promec activities to achieve a "Ready for Pre-commissioning" status.

2. "SYSTEMS" METHODOLOGY

The basic principle of the plant completion scheduling will be to define, prepare, carry out and report all pre-commissioning by system.

2.1 System Definition

The partition of the plant into systems is a key preparation activity that has a major impact on all aspects of completion operation: the system must be defined so as to be independent as possible, not too small, but of the manageable size and exactly adapted to the start-up sequence.

The partition takes place as early as possible in accordance with precise system boundaries, system sequences and system numbering defined by the client and reported on marked-up P & ID's Single Line Diagrams as support documents.

3. PRE-COMMISSIONING

3.1 Mechanical Completion (MC)

A walk-down and punch list will be completed by the client and Promec on each system as early as practical before the end of the MC.

If both parties are satisfied that the system is mechanically completed enough to go into the commissioning phase, all outstanding deficiencies are noted on the punch list, and handover documents are completed and signed.

3.1.1 CONFORMITY CHECK

Carried out on each item of equipment or component, such as pressure gauges, valves, vents and drains, safety vales, etc. to verify the condition of the equipment, the quality of the installation, the compliance with project drawings and specifications, manufacturer's instruction, safety rules, codes, standards and good practice. These activities are generally carried out in an "un-energized" state, like no pressure in the pipe.

3.1.2 ENERGIZED TESTS

These "energized" tests concern the pressure testing of piping. This pressure testing will need to be done using the approved Promec's Procedure.

3.1.3 FLUSHING AND CLEANING

Piping systems must be flushed or air blown to remove construction debris. Under special circumstances, the client's approval is required to combine the hydrostatic/pneumatic test with the flushing activities.

4. PUNCH LIST

While the construction checks and tests are being performed, all discrepancies, damaged or missing equipment, malfunctions, missing documents, etc. are recorded in the punch list, if the situation was not able to be corrected immediately.

5. RESPONSIBILITY MATRIX

The Completion Activities are now further defined in the following Appendix A - "Responsibility Matrix".

This matrix provides a useful list of the piping completion activities and it establishes to which category they belong pre-commissioning (de-energized) and pre-commissioning (under-pres).

Appendix A

RESPONSIBILITY MATRIX

Responsibility Matrix	Contractor Responsibility	CLIENT Responsibility
LEGEND X = Contractor responsibility	X	
O = CLIENT responsibility		O
A = CLIENT approval hold point		A
W = CLIENT witness notification		W
R = CLIENT documentation review		R

CLIENT's APPROVAL HOLD POINT (A)

When Promec is ready to pre-commission any part of any system, which is identified as requiring CLIENT's approval, Promec shall duly notify CLIENT's representative, with 4 days written notification. Timely Review Meetings shall also be conducted between Promec's Pre-commissioning Manager and CLIENT's Commissioning Representative for the purpose of advising CLIENT on the specific Status/ Timing of all Pre-Commissioning Activities Requiring CLIENT's approval.

CLIENT WITNESS POINT (W)

When Promec is ready to pre-commission any part of any system, which is identified as requiring CLIENT witness, Promec shall duly notify CLIENT's Representative, with two days written notification. Timely review meetings shall also be conducted between Promec's QA/QC and CLIENT's Commissioning Representative for the purpose of advising CLIENT on the specific status/ timing of all pre-commissioning activities requiring CLIENT witness.

CLIENT DOCUMENTATION REVIEW (R)

When Promec has drafted the pre-commissioning procedures, descriptive and operating manuals, maintenance manuals, system schedules, and/or related final documentation etc. pertaining to pre-commissioning of any system, Promec shall formally issue via transmittal to CLIENT's Representative, for review & comment purposes. These documents must be received by CLIENT 14 days in advance of final issue.

NOTES:

CLIENT Signatures on Pre-commissioning Documentation

CLIENT's Representative in attendance will personally sign only for the relevant Pre-commissioning Documentation for which he/she approves, witnesses or reviews.

Functional Test Certificates & CLIENT Signatures

Upon completion of a functional test and proven that it has been successful when referring to the Contract requirements, CLIENT and Promec representatives will sign the test certificate.

Ready for Commissioning Standard					
	PIPING	Pre-Com De-energized	Pre-Com Energized	Comm.	Start-Up
1)	Issue Piping Flushing & Cleaning Procedures	XR			
2)	Complete Vendor Package Piping Punch Lists	XA			
3)	Maintain As-Built/ Red Line Mark-Ups of P&IDS	XA			
4)	Remove all In-Line Instruments prior to Hydro-Testing/Flushing & Cleaning including CA/s, Check & Safety Valves	X			
5)	Remove all temporary supports, protections, bracings, sea fastening stops that were installed to prevent equipment damage during shipping, storage and erection	X			
6)	Install temporary spool pieces	X			
7)	Check conditions of equipment, quality of installation, compliance with Project Drawings, Manufacturers instructions, safety rules, specifications, structural supports, and good practice prior to hydrotest	XA			
8)	Hydrostatic test / Pneumatic test		X		
9)	Set or check pipe anchors, guides, spring hangers and supports after hydrotest. Provide cold and hot setting data	XR			
10)	Define, provide, install and remove all temporary blanks and flushing connections.	X			
11)	Execute & Perform Piping Flushing & Cleaning/ Pickling/ Air Blows and Draining as per the Approved Procedures (Except Steam Blows)		XA		
12)	Execute & Perform Critical Body & Seat Testing TSO Valves at Site of All ESD, BDV		XA		
13)	Carry out piping water or air flushing operations		XA		
14)	Drain all lines including low points	XA			
15)	Provide and Install all Permanent Blinds, Spacers, & Spades as per P&ID's in open/closed position as specified by CLIENT	XW			
16)	Disposal of Test Medium following Hydro-Testing/ Flushing & Cleaning	XW			
17)	Remove as necessary and transport all safety valves to and from test facilities	XW			

Ready for Commissioning Standard				
PIPING	Pre-Com De-energized	Pre-Com Energized	Comm.	Start-Up
18) Test, set and tag all safety valves, then carry out safety valves final installation		XW		
19) Perform all Gross Leak Tests Tightness & Service Tests (above & under ground)		X		
20) Remove all Temporary Blinds	X			
21) Supply/ Install & Issue As-Installed Blind List	XR			
22) Compile & Issue RFC Handover Package per System	XR			
23) Alleviate any excess piping stresses that may be imposed on pipes, compressors or pump flanges	XA			
24) Check packing and packing materials and lubrication of valves; repack and lubricate if necessary	XW			
25) Install corrosion probes	XA			
26) Prepare Punch List	XR			

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-09

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0037 R: Sub002

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Piping Erection Procedure

AEM-PI-PRO-003

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-26
Verified by:	Jérémy Duval	**Signature:**		**Date:**	2017-04-26
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-26

CLIENT Approvals

Verified by:		**Signature:**		**Date:**	
Approved by:		**Signature:**		**Date:**	

Table of Contents

1. PURPOSE

The purpose of this procedure is to specify the requirements for erection, joining and installation of shop fabricated spools. It will ensure that the right piece of pipe is installed at the right location and complies with the codes, standards, and isometric drawings.

2. PREREQUISITE

The following measures shall be taken before starting works:

- All technical documents are available (latest version):
  - Isometric drawings.
  - Line lists.
  - General Arrangement drawings.
- No other work is achieved on the same place of work.
- Piping spools and piping equipment have been identified and inspected.
- Transportation equipment and lifting equipment are available.
- Tools, lifting equipment, levelling equipment, etc. are available and have been inspected.

3. CODES AND STANDARDS

n/a

4. FIELD FABRICATION

4.1 Piping

Fabricator shall shape or bevel the joints to be field welded.

Adjacent sections of longitudinal welded pipe that are joined by butt welding shall have the longitudinal weld seams positioned so that they are at least 30 degrees apart and above the horizontal centerline.

Wherever possible, Promec shall not position the longitudinal weld seam on the top or bottom of the line so that branch connections such as couplings and stub-ons are located on the seam.

4.2 Internal Misalignment

Internal misalignment criteria shall be governed by the following:

- Pipe-to-pipe or pipe-to-fitting NPS (Nominal Pipe Size) 24 and smaller: ±1/16 of an inch deviation.
- Pipe-to-pipe or pipe-to-fitting NPS 26 and larger: ±1/8 of an inch deviation.
- If the deviation factors are exceeded, one of the following procedures shall be used:
  - Rotate the pipe or fittings to reduce misalignment to the acceptable tolerances (before attempting any of the following methods).
  - Use spreaders or internal or external lineup clamps to correct moderate out-of round condition.
  - Backweld the root pass.
  - Taper the wall of the component internally, after obtaining approval from the client, to ensure wall thickness is not reduced below the minimum required by the code.

4.3 Flanges and Fittings

Flange bolt holes are to be oriented as follows, unless otherwise indicated on the piping drawings:

- Flange face vertical: bolt holes to straddle vertical centerline.
- Flange face horizontal: bolt holes to straddle north-south centerline.
- Orifice flanges shall be fabricated with the taps in the exact orientation shown on the piping drawings. The up and down stream sections of pipe to which the orifice flanges are attached may be standard mill run pipe, but each piece shall be a choice hand-selected piece, and the interior of the pipe shall be round, smooth, and free from blisters and scale; welds shall be grounded flush. Field welds shall be kept at a maximum distance from the face of the orifice.
- Where line taps and 'olets are required, first attach the connection fitting then, the hole for each line tap shall be drilled square to the axial centerline, clean, sharp, and free from burrs, wire edges, or other irregularities.
- Slip-on flanges shall be welded inside and outside. Refer to Figure 328.5.2B of ASME B31.3. The weld shall be applied so that the flange face shall be free of weld spatter and does not require refacing.

4.4 Reinforcing Pads

Reinforcing pads shall be installed only where called for on the piping drawing. Pad material shall be the same as the pipe material, unless otherwise authorized by the client. Drawing will specify size and pad thickness.

4.5 Piping verified against the isometric drawings

Check that the position of the piping satisfied the isometric drawings informations: level, horizontal and vertical measurement, etc.

4.6 Fabrication Tolerances

The fabrication tolerances for fabricated piping shall be in accordance with client's specifications and standards.

5. ERECTION AND INSTALLATION

5.1 Erection

The following equipment will be used at different steps during pipe erection works: slings, shackles, mechanical or hydraulic jacks, come-along, measuring tapes, laser tool, temporary supports, boom trucks, etc.

5.2 Installation

5.2.1 GENERAL

Except where shown otherwise on the drawings, piping shall conform to the following:

- Be run level and plumb.
- Be run on North-South and East-West axis.

Evaluation of piping installation works sequence:

- Preparation of pipe to be welded: bevels, cleanliness, etc.
- Mounting of spools at ground level.
- Evaluation of how to handle the spools.
- Lifting of spools to their final location.
- Welding or assembling of spools.
- Identification of the welds.
- Installation of temporary supports.
- Etc.

Interior cleaning of piping:

- Marine Line, cleaning will be perform by pigging.
- Diesel Line (fuel farm and pumping station), cleaning will be perform by air blowing.

5.2.2 FLANGE BOLTING

Use a logical sequence of bolt tightening to ensure even gasket compression, as indicated in ASME B16.5

Unless specified otherwise, provide a bolt stress of 30,000 psi minimum or 45,000 psi maximum using a lubricant on the bolt threads (Refer to AEM-PI-PRO-004 Flanges Bolting Procedure).

Prior to bolt-up, examine flange faces. Flange faces shall be in as-new condition, and shall be wiped clean of any debris, excess oil, grease, and dirt. Restore damaged flange faces to as-new condition. Do not perform weld repairs on flange faces or flanges.

Do not use washers or spacers to make up bolt length. Bolt lengths are specified to prevent oversizing.

5.2.3 SUPPORTS

Install supports as indicated on the drawings.

Install spring supports in compliance with Manufacturer's instructions; keep them blocked until after line closure and hydrotest. Adjust them in the installed position and check them when operating conditions are reached.

Install all required temporary supports for hydrostatic testing.

Welding of supports shall be as indicated on the drawings.

5.2.4 BRANCH CONNECTIONS

Take care in shaping the ends of branch nozzles, as well as holes burned into the pipe for branch connections, to ensure fit with suitable provision for weld metal and so that the branch connections do not project inside the pipes.

5.2.5 CLEANLINESS OF PIPING

Open-end and flange protection shall be used throughout installation. Protect open pipes at times when work on them is not actually taking place.

Inspect individual pipe sections, prefabricated spools, and pipeline items internally during installation, and remove any foreign matter before final welding or bolting.

Piping contiguous with special equipment, which requires cleaning to the equipment Manufacturer's procedure, shall be inspected by and have cleaning supervised by the Manufacturer's representative.

5.2.6 FIELD PRESSURE TESTING

Testing of installed piping systems shall be in accordance with the previously referenced standards. (Refer to AEM-PI-PRO-001 Hydrostatic-Pneumatic Test Procedure for Piping).

Appendix A

ALL APPLICABLE ITRs & LOGs

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-22

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Agnico Eagle No. 6515-C-270-007-141-TES-0033 R: Sub002

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Pump Installation Procedure

AEM-ME-PRO-001

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-26
Verified by:	Jérémy Duval	**Signature:**		**Date:**	2017-04-26
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-26

CLIENT Approvals

Verified by:		**Signature:**		**Date:**	
Approved by:		**Signature:**		**Date:**	

Table of Contents

1. SCOPE

This procedure provides primary inspection and installation requirements pertaining to the pumps installation.

2. PREREQUISITE

- Relevant isometric drawings are up-to-date.
- Shop drawings, vendor manuals and technical specs up-to-date.
- Preservation and storage plan in place.
- Relevant team mobilized and ready.
- Pump Installation Procedure prepared and approved.
- Materials and tools available with calibration certificates and calibration log entries.

3. VISUAL INSPECTION AND PREPARATION

- Check equipment skid for any sign of damage prior to installation.
- Begin preservation program.
- Verify elevation and centerlines are correct and are clearly marked on foundation.
- Pump installation includes foundation preparation, confirmation of center lines and elevations, preliminary alignment, machinery distortion to be checked at piping bolt up, soft foot check, final alignment, flushing and recharging of lubricants (pump, gear-box, drivers and lube oil tanks) in accordance with the manufacturer's recommendations.
- Mark appropriately on the foundation the jacking screw pads and anchor bolts locations.
- Jack-up equipment skid with external jacks to allow jacking screws pads installation and secure it with temporary supports.
- Circular jackscrew leveling plate shall be made of 2-inche diameter, 12 mm thick, CSA grade 300 Structural Steel Plate, or equivalent type round stock material. The plate shall be clean and free of all scale and oil will be readjusted.

4. LEVELLING AND FIXING

- Install the jacking bolts in their respective screw location. Use the installed jacking bolts to bring the skid to the designed elevation. Ensure that pump nozzles are in proper orientation on the centerlines.
- Level the skid properly with an accurate leveling instrument using the equipment base machined faces. Align and adjust the pumps inlet and outlet flanges with the relevant pipe centerlines.
- After base plate leveling first alignment shall be performed. Soft-foot tolerance and coupling gaps shall be checked while the alignment is being confirmed. Coupling gap to be confirmed.

5. PUMP AUXILIARIES INSTALLATION

- Lube oil console is brought to design elevation and centerlines by the use of stainless steel shims and external lifting.
- Lube oil piping is loosely installed to verify best position.
- Electrical and instrumentation will be done by those disciplines using the relevant ITP's and procedures.

6. PIPING INSTALLATION

- Piping will be cleaned and installed by the piping discipline.
- Interconnecting lube oil piping, cooling water, suction / discharge and steam piping will be subject to fit up measurements. Pipe strain measurements and adjustment shall be carried out.
- Seal flushing lines to be cleaned and connected.
- Distortion due to piping stress: If distortion exceeds allowances, piping alignment shall be re-worked and re-checked.
- All piping that is attached to the equipment for the purpose of field welding will be electrically isolated from the equipment by use of isolating kits.
- A final pipe strain check will be performed and recorded.

7. PRE-COMMISSIONING, (AEM STD TO APPLY, TO BE DETAILED BY AEM)

- If applicable, vendor presence requirements shall be requested prior to final work.
- Lube oil pipe strain to witnessed
- Lube oil system to be flushed.
- Steam pipe blowing to be done by piping discipline.
- Running oil to be installed in lube oil console and pump bearing sumps.
- Motor bump test (uncoupled) to verify rotation will be performed on electric motor drive units.
- Final alignments with cold offsets to be witnessed.
- Pipe strain checks of steam lines and pump suction / discharge lines to be witnessed.
- All couplings and guards to be in place.
- Touch up painting will be completed.
- Mark in red on isometric drawing copy all final dimensions for as-built drawing preparation.

8. FINAL ACCEPTANCE, (AEM STD TO APPLY, TO BE DETAILED BY AEM)

- All inspection test records along with preservation records will be verified for handover to the turnover coordinator, along with relevant RFI's, NCR's and field trouble reports.
- A final punchlist will be cleared with no outstanding NCR's.
- Upon completion of work, final acceptance shall be obtained from CLIENT.

Appendix A

ALL APPLICABLE ITRs & LOGs

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0034 R: Sub001

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Fuel Tank Installation Procedure

AEM-ME-PRO-002

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-26
Verified by:	Jérémy Duval	**Signature:**		**Date:**	2017-04-26
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-26

CLIENT Approvals

Verified by:		**Signature:**		**Date:**	
Approved by:		**Signature:**		**Date:**	

Table of Contents

1. SCOPE

- This procedure provides inspection steps and requirements pertaining to a fuel tank.
- Each package is composed of a single unit.

2. PREREQUISITE

- Relevant isometric drawings are up-to-date.
- Shop drawings, vendor's manual and technical specs up-to-date.
- Relevant team mobilized and ready.
- Pertaining material and tools are prepared and ready.

3. VISUAL INSPECTION AND PREPARATION

- Check equipment for any sign of damage prior to installation.
- Mark on the foundation center lines and elevation references.
- If required, clean the foundation and skid exposed surfaces using compressed air.

4. LEVELING AND FIXING

- Jack up the equipment skid using external jacks keeping the skid level up to design elevation and center lines.
- Level the skid properly with an accurate leveling instrument. Align and adjust vessels inlet and outlet flanges with the relevant pipe axes (see relevant isometric drawing).
- Leveling shims shall to be installed on both sides of each anchor bolt. Wherever the distance between adjacent anchor bolts exceed 800 mm, additional leveling pads shall be installed midway between the anchor bolts.

5. AUXILIARIES INSTALLATIONS & INSPECTION

- Extemal-Interconnecting pipes to be installed. Promec piping ITP to be followed for piping gaskets, studs and flange bolt-up.
- Internal inspection and cleaning to be performed if required.
- Instrumentation installation and verification to be performed by Promec instrumentation team.
- Complete equipment closing record form.

6. PRE-COMMISSIONING

- Follow vendor's operation manual procedure.

7. TOUCH-UP PAINTING

- Touch up painting shall be carried out on surfaces that have scratches or scrapes or other damages that have occurred during transportation and installation (paint is supplied by equipment vendor).

8. FINAL ACCEPTANCE

- All inspection and test records to be reviewed for completeness and securely filed for hand-over to turnover coordinator.
- Upon completion of works, final acceptance shall be obtained from the client.

Appendix A

ALL APPLICABLE ITRs & LOGs

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0038 R: Sub001

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Welding Control Procedure

AEM-WE-PRO-001

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-26
Verified by:	Jérémy Duval	**Signature:**		**Date:**	2017-04-26
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-26

CLIENT Approvals

Verified by:		**Signature:**		**Date:**	
Approved by:		**Signature:**		**Date:**	

TABLE OF CONTENTS

1. Scope

- This procedure describes the system for maintaining control of all production welding to the requirements of the applicable engineering specifications, codes and standards.

2. References

- ASME, Section IX - Welding and Brazing Qualifications
- ANSI, B-31.3 - Petroleum Refinery Piping
- ANSI, B-31.1 - Power Piping
- AWS, American Welding Society

3. Welding Procedures

- All welding performed on site will comply with applicable qualified welding procedures as specified in the Standard S40 05 13.
- Prime contractor's welders will be qualified to weld procedures in accordance with contract specifications. Prime contractor is responsible for certifying their own welders.
- Copies of the qualified welding procedures approved for that project shall be maintained on site by the Welding Foreman and Site Q/C Representative for reference and permanent retention.

4. Welder Performance Qualification

- It is the responsibility of the Site Q/C Representative to conduct or supervise the Welder Performance Qualification tests. At the discretion of the Corporate Quality Control Manager, a Welding Foreman or other qualified site supervisor may conduct these tests.
- Records attesting to the Welder Performance Qualification tests shall be generated and maintained by the Site Q/C Representative and the Welding Foreman.
- The Site Q/C Representative and the Welding Foreman shall maintain a complete listing of welders and welding operators employed. The form, Welder Qualification Log, is to be updated and reissued on a monthly basis and is to be distributed as required.

5. Welding Material Control

- The Site Q/C Representative and Welding Foreman shall make certain that the welding material used conforms to that of the welding procedure. No substitutions for the specified material will be made without written approval from the client.

6. Fit-Up and Welding

- Visual surveillance shall be performed to establish compliance to welding procedures. The inspection parameters listed below are recommended as guidelines
  - ✓ Inspect end preparation and joint configuration as established by applicable weld procedures and engineering specifications.
  - ✓ Inspect internal alignment and root opening prior to welding.
  - ✓ Check tack welds that are to be incorporated into the final weld, and be assured of proper blend grinding and absence of visual defects.
  - ✓ Check for proper welding materials and other essential variables of applicable weld procedures.
  - ✓ Check visually root pass for cracks, porosity, slag, fusion lines and quality workmanship (if required use LP).
  - ✓ Inspect completed welds for proper reinforcement. All welds should blend smoothly into the base metal and be free of cold lap or fusion at the toe.
  - ✓ Inspect weld for surface discontinuities such as undercut. Surface porosity is to be considered as an injurious defect and shall be repaired.
  - ✓ All repairs are to be made in accordance with approved procedures.
  - ✓ Each welder shall be responsible for stamping his assigned symbol immediately after completion of the weld. A smooth, flat spot shall be ground or filed on the reinforcement cap. The welder shall stamp his/hers identifying mark upon this spot.
- For ferrous material less than 1/4" (1/2" for nonferrous), the welder's symbol shall be recorded on the base metal by use of a halogen-free paint marker, or recorded on isometric drawings by the welding supervisor which shall be available to the Quality Control Inspector.

7. Radiographic Inspection

- The Site Q/C Representative or Welding Foreman will schedule radiographic inspections.
- Radiographic requirements shall be determined by the client standard to assure compliance to contract Codes and specifications.
- Welds requiring radiography will be flagged by a suitable means which will be consistent through contract completion.
- The Site Q/C Representative will complete the Radiographic Inspection Status Record, to indicate status of radio graphically-inspected welds. This form will be forwarded to appropriate supervision for distribution.
- In addition to the records generated under this procedure, marked-up isometric and orthographic drawings will be used as weld maps to indicate completion of radiographic inspection. This will allow a progressive record and give system status.

Appendix A

ALL APPLICABLE ITRs & LOGs

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0039 R: Sub001

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Non-Destructive Examination Procedure

AEM-WE-PRO-002

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-26
Verified by:	Jérémy Duval	**Signature:**		**Date:**	2017-04-26
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-26

CLIENT Approvals

Verified by:		**Signature:**		**Date:**	
Approved by:		**Signature:**		**Date:**	

TABLE OF CONTENTS

The Authorized Company for carrying out NDT and its personnel engaged in non-destructive examinations should be familiar with Promec's examination methods and the methods prescribed by the applicable drawings, specifications, codes and standards. The following list outlines the most commonly used examination methods on a Promec project:

- VT - Visual Testing
- LT - Leak Testing
- PT - Liquid Penetrant Testing
- RT - Radiographic Testing (X-ray)
- MT - Magnetic Particle Testing
- UT - Ultrasonic Testing

These methods as well as other methods may or may not, in whole or in part be sub-contracted to "qualified individuals" or firms to perform. The size and scope of the project dictates these conditions as well as the contract.

1. Qualified Individual

- The term "qualified individual" refers to the assigned person responsible for performing or reviewing the nondestructive examinations. All conflicts between the "qualified individual" and any other party will be resolved through the Project Manager and/or the Site Q/C Representative.

2. Qualified Firm

- The term "qualified firm" refers to a licensed NDE organization that performs NDE testing by subcontract for Promec. The qualified firms' contract must be governed by the contract between Promec and its client.
  - ✓ The selection of the NDE firm will be confirmed by the Corporate Quality Control Manager prior to awarding a contract.
  - ✓ The NDE firm will conduct its work in support of Promec.
  - ✓ All work performed by the NDE firm will meet the codes and specifications, quality and integrity.
  - ✓ The productivity and efficiency of the NDE firm shall be monitored to ensure that GSI and its client are receiving maximum value.

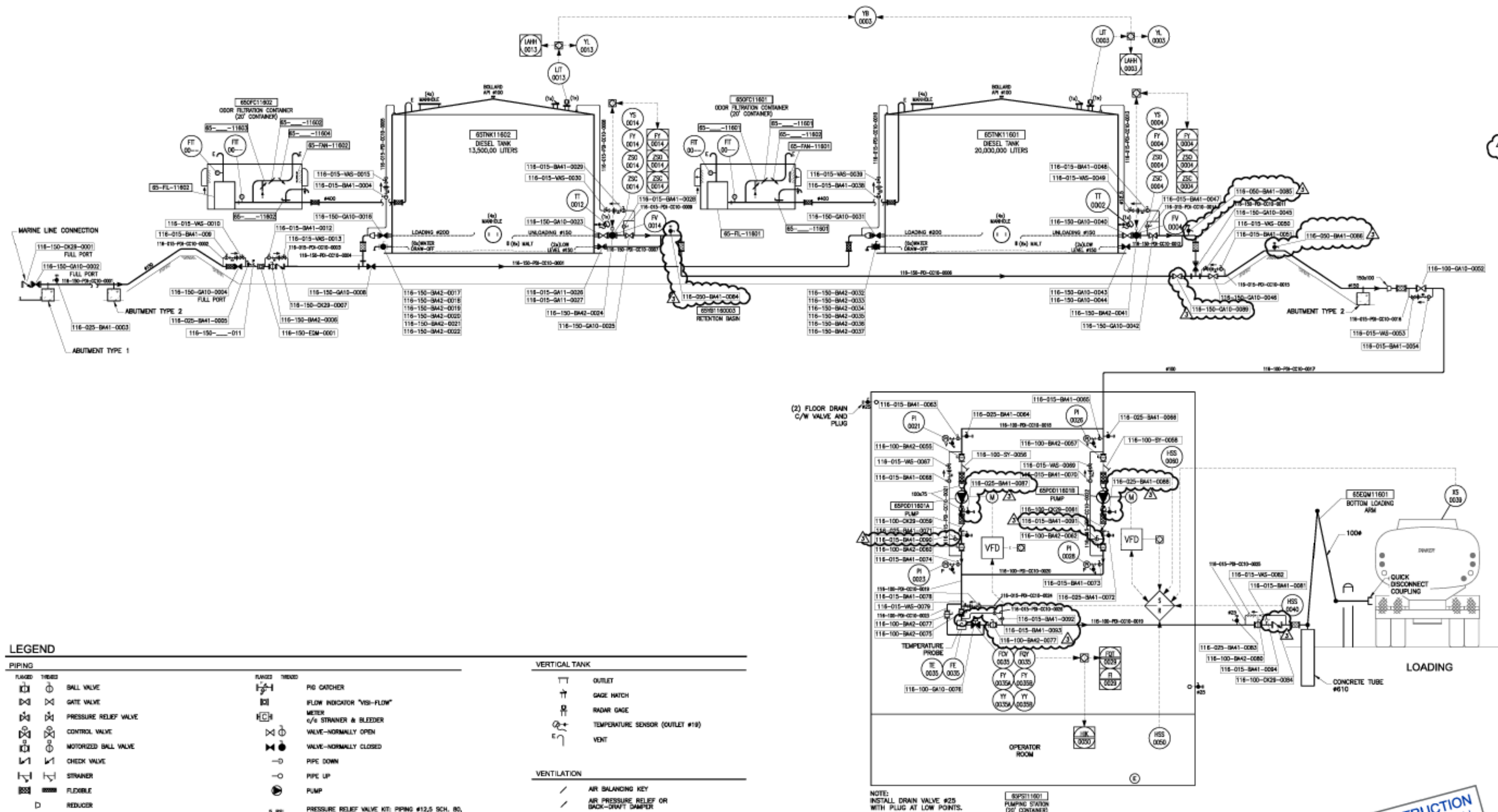
3. NDE Purchasing Language

- The following NDE Language shall be added to all Field PO's or subcontracts issued to a NDE firm. The following notes are to be used as a guide and the particular methods, codes and standards shall be verified prior to insertion into the P.O.

  - ✓ All work will be performed in accordance with ASME Section 5, Article 2 Radiographic Standards or ASME requirements.
  - ✓ All radiographic personnel shall be certified in accordance with CAN/CGSB-48.9712-2005 Latest Adopted Edition.
  - ✓ Prior to commencing any radiographic services, one copy of the following must be submitted to the Promec Quality Control Manager.
    - a) Liability Insurance Certificate. Retain copy and forward the original to the Site Project Manager.
    - b) State, Provincial and Federal Radiation Licenses (If Applicable).
    - c) All anticipated personnel certifications (For methods outlined in the contract).
    - d) Each radiographic technique procedure to be used (within the scope of the project).
  - ✓ Each crew shall have one (1) certified Level II Technician on site when working.
  - ✓ All subcontractor radiography shall be interpreted by the subcontractor for film quality and defects prior to surrendering the film and record sheets to the Promec Representative.
  - ✓ All record sheets shall be filled out completely, listing all weldment defects seen on film, whether the defects are acceptable or rejectable to codes or specifications, and shall be signed by the Subcontractor's Level II Technician.

NO. DESSIN / DRAWING NO. 65-116-205-200_R3.dwg

FORMAT ARCHD



LEGEND

PIPING (FLANGED / THREADED)

- BALL VALVE
- GATE VALVE
- PRESSURE RELIEF VALVE
- CONTROL VALVE
- MOTORIZED BALL VALVE
- CHECK VALVE
- STRAINER
- FLEXIBLE
- REDUCER
- UNION
- FLANGES
- BLANK FLANGE
- CAP
- CONNECTION
- PIG CATCHER
- FLOW INDICATOR "VISI-FLOW"
- METER c/o STRAINER & BLEEDER
- VALVE-NORMALLY OPEN
- VALVE-NORMALLY CLOSED
- PIPE DOWN
- PIPE UP
- PUMP
- PRESSURE RELIEF VALVE KIT: PIPING #12,5 SCH. 80, PRESSURE RELIEF VALVE (AJUSTED TO 5 PSI UNLESS OTHERWISE SPECIFIED), UNION, T WITH PLUG & BALL VALVE
- PRESSURE GAGE TO VACUM OF POMPE (VACUUM)
- PRESSURE GAGE TO DISHARGE OF PUMP (POSITIVE PRESSURE)
- TEMPERATURE PROBE

VERTICAL TANK

- OUTLET
- GAGE HATCH
- RADAR GAGE
- TEMPERATURE SENSOR (OUTLET #18)
- VENT

VENTILATION

- AIR BALANCING KEY
- AIR PRESSURE RELIEF OR BACK-DRAFT DAMPER
- MANUEL FLAP
- AIR FLOW SWITCH

GENERAL

- EXTINGUISHER 20 BC

P&ID

SEE DWG 65-500-205-207

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE
DATE : 2018-04-16

WSP
1075, 3e AVENUE E
VAL-D'OR (QUÉBEC) CANADA J9P 6M1
TÉL. : 1-819-825-4711 | TÉLÉC. : 1-819-825-4715 | WWW.WSPGROUP.COM
Ref. 161-08440-40

NOTES GÉNÉRALES / GENERAL NOTES

1. REPLACE DRAWING : 65-103-205-200
2. EQUIPMENTS NUMBERING AS PER AEM STANDARDS, DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
3. ALL DRAINS TO BE INSTALLED HORIZONTALLY.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT
3	2018-04-16	EQUIPMENTS ADDED	J.M.	D.T.	
2	2017-09-05	NUMBERING OF EQUIPMENTS	J.M.	D.T.	
1	2017-07-20	INSTRUMENTATION ADDED	F.M.G.	L.S.	
0	2017-05-31	ISSUED FOR CONSTRUCTION	J.M.	D.T.	

REVISIONS

TITRE / TITLE
AGNICO EAGLE – MELIADINE DIVISION
116 – FUEL TANK FARM
205 – P&ID
FUEL DISTRIBUTION
FLOW DIAGRAM

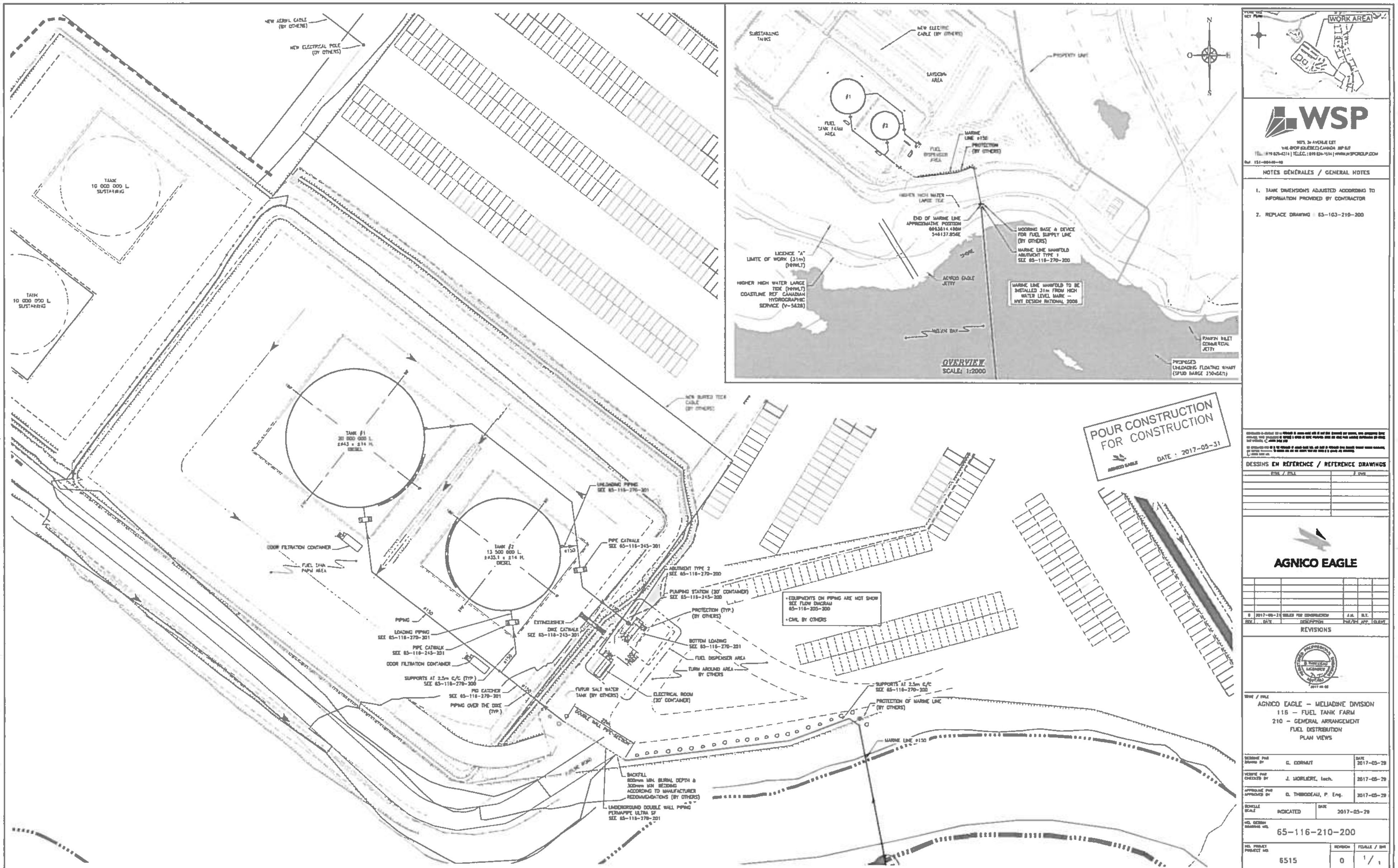
DESSINÉ PAR / DRAWN BY	GHISLAINE CORNUT, tech.	DATE 2017-05-26
VÉRIFIÉ PAR / CHECKED BY	JÖEL MORLIÈRE, tech.	2017-05-26
APPROUVÉ PAR / APPROVED BY	DENIS THIBODEAU, P. Eng.	2017-05-26
ÉCHELLE / SCALE NONE	DATE 2017-05-26	

NO. DESSIN / DRAWING NO. 65-116-205-200

NO. PROJET / PROJECT NO.	RÉVISION	FEUILLE / SHT
6515	3	1 / 1

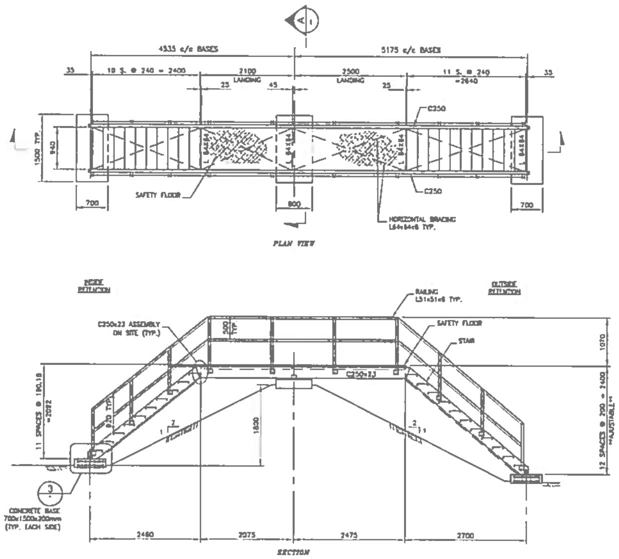
FILE NO. 65-116-205-200_R3.dwg

65-116-210-200

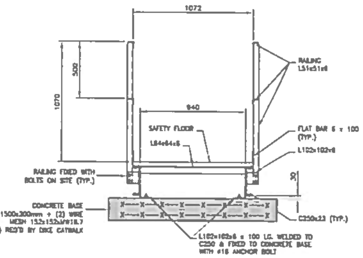


NO. DESSIN / DRAWING NO. 65-116-245-201

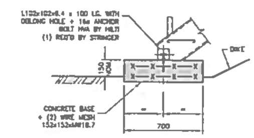
FORMAT ARCH D



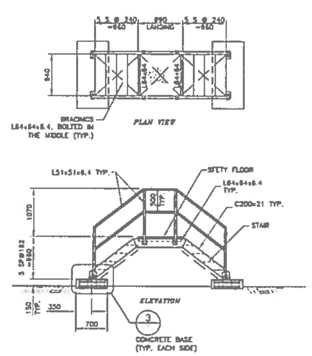
DIKE CATWALK (1)
SCALE: 1:50
QTY: 1



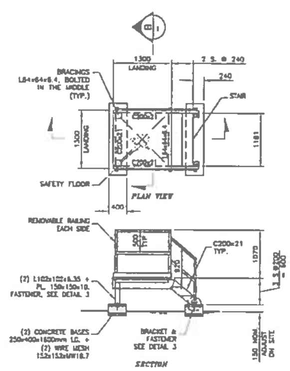
SECTION (A)
SCALE: 1:20



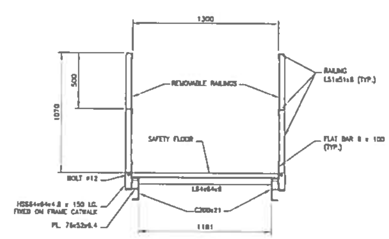
DETAIL (3)
SCALE: 1:20



PIPE CATWALK (2)
SCALE: 1:50
QTY: 3



CONTAINER CATWALK (2)
SCALE: 1:50
(2) PUMPING STATION



SECTION (B)
SCALE: 1:20

NOTES:

CATWALK, RAILINGS AND STAIRS ARE ASSEMBLED AND BOLTED ON SITE.

DEAD LOAD = 0.5 Kpa
LIVE LOAD = 4.8 Kpa
MAXIMUM ARROW = L/300

MATERIAL

GRATING OF LANDING

GRIP SPAN SAFETY GRATING, GALVANIZED STEEL, (D-51215-C, 5 DIAMONDS, Ga 2,7mm, 38.1mm DEEP) BY FISHER LUDLOW OR APPROVED EQUIVALENT, MAX. 300mm WIDTH EXCEPT WHEN INDICATED DIFFERENTLY.

STAIR

GRIP SPAN SAFETY GRATING, GALVANIZED STEEL, (D-41215-C, 4 DIAMONDS, Ga 2,7mm, 38.1mm DEEP) BY FISHER LUDLOW OR APPROVED EQUIVALENT, MAX. 241mm WIDTH EXCEPT WHEN INDICATED DIFFERENTLY.

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE DATE : 2017-05-31

WORK AREA

WSP

NOTES GENERALES / GENERAL NOTES

SEE SPECIFICATIONS
1. REPLACE DRAWING : 65-103-245-201

DESSINS EN REFERENCE / REFERENCE DRAWINGS

AGNICO EAGLE

0	2017-05-31	ISSUED FOR CONSTRUCTION	J.M.	G.T.

REVISIONS

AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM
245 - STRUCTURAL STEEL
FUEL DISTRIBUTION
DIKE, PIPE & CONTAINERS CATWALKS

DESSINE PAR / DRAWN BY	G. CORNUT	DATE 2017-05-29
VERIFIE PAR / CHECKED BY	J. MORLIERE, tech.	2017-05-29
APPROUVE PAR / APPROVED BY	D. THIBODEAU, P. Eng.	2017-05-29
ECHELLE / SCALE: INDICATED	DATE: 2017-05-29	

NO. DESSIN / DRAWING NO. 65-116-245-201

NO. PROJET / PROJECT NO.	REVISION	FEUILLE / SHT
6515	0	1/1

FILE NO. 65-116-245-201_R0.dwg

NO. DESSIN / DRAWING NO. 65-116-260-200

FORMAT ARCHD

NEW TANK #1 - DIESEL

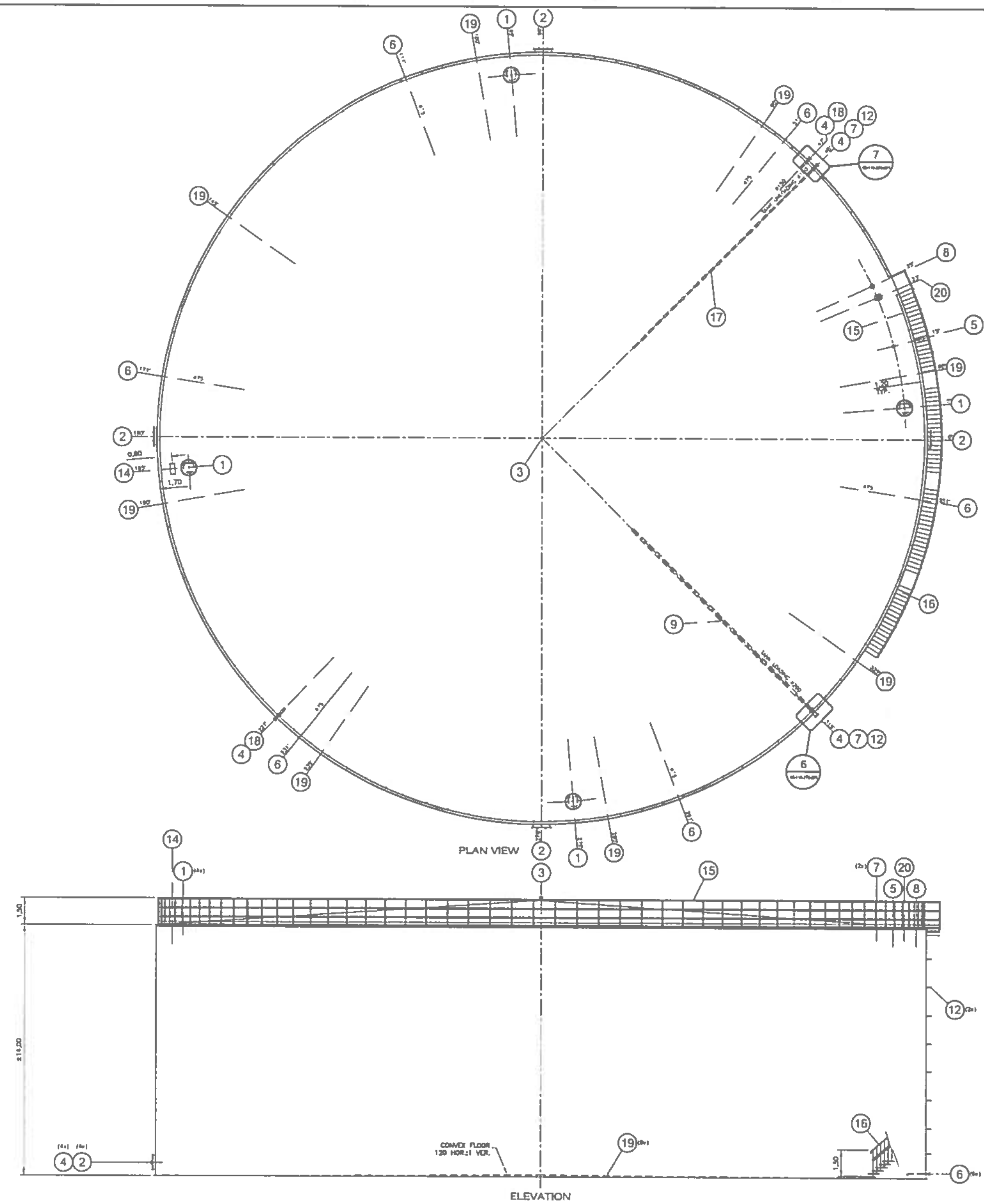
SPECIFICATIONS:

- NOMINAL DIAMETER (METERS) ±43m
- ORIGINAL NOMINALE HEIGHT (METERS): ±14m
- NOMINAL CAPACITY: 20,000,000 liters

No.	QTY	DESCRIPTION	REMARKS
1	4	#600 ROOF MANHOLE	TO API 650 STANDARDS
2	4	#600 SHELL MANHOLE	TO API 650 STANDARDS
3	1	#100 PAINTER SCAFFOLD CABLE SUPPORT	TO API 650 STANDARDS
4	4	SHELL NOZZLE – INLET/OUTLET	TO API 650 STANDARDS
5	–	VENT OPENING	TO API 2000 & 650 STANDARDS, DIAMETER & QTY TO BE DETERMINE BY THE MANUFACTURER, SEE DETAIL
6	6	WATER DRAW-OFF	TO API 650 STANDARDS, SEE DETAIL
7	2	ROOF PRESSURE RELIEF LINE CONNECTION, HALF COUPLING #25 (THREADED)	TO API 650 STANDARDS & NBC
8	1	ROOF #150 GAUGE HATCH	TO API 650 STANDARDS, SEE DETAIL
9	1	FIXED PIPE – TANK LOADING #200 x 14.3m LG.	TO API 650 STANDARDS
10			
11			
12	2	SHELL BRACKET FOR PIPING & CONDUIT	SEE DETAIL
13			
14	1	ROOF INSPECTION FRAME	TO API 650 STANDARDS
15	1	ROOF GUARDRAIL	TO API 650 STANDARDS & NBC
16	1	SPIRAL STAIRWAY, GUARDRAIL & HANDRAIL	TO API 650 STANDARDS & NBC
17	1	FIXED PIPE – TANK UNLOADING #150 x 14.3m LG.	TO API 650 STANDARDS
18	2	PUMPING LOW LEVEL #150	TO API 650 STANDARDS, SEE DETAIL
19	8	GROUNDING LUG	TO API 650 STANDARDS, SEE DETAIL
20	1	ROOF NOZZLE #200 FOR OVERFILL PROTECTION	TO API 650 STANDARDS, SEE DETAIL

NOTE:

1. APPROXIMATIVE STAIRWAY LOCATION: CONTRACTOR HAVE TO ENSURE A MINIMUM CLEARANCE OF 1000mm IN ELEVATION BETWEEN STAIRS AND ANY SHELL CONNECTION



POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE DATE : 2017-05-31

WORK AREA

WSP

Ref. 181-00440-40

NOTES GÉNÉRALES / GENERAL NOTES

1. TANK DIMENSIONS ADJUSTED ACCORDING TO INFORMATION PROVIDED BY CONTRACTOR
2. REPLACE DRAWING : 65-103-260-200

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

AGNICO EAGLE

REV.	DATE	DESCRIPTION			
0	2017-05-31	ISSUED FOR CONSTRUCTION	J.M.	G.T.	

REVISIONS

TITRE / TITLE

AGNICO EAGLE – MELIADINE DIVISION
116 – FUEL TANK FARM
260 – PLATEWORK
TANK #1 – 20,000,000 liters
ø43m x 14m H.
GENERAL ARRANGEMENT

DESSINÉ PAR / DRAWN BY	GHISLAINE CORMUT	DATE 2017-05-29
VÉRIFIÉ PAR / CHECKED BY	JOËL MORLIÈRE, tech.	2017-05-29
APPROUVÉ PAR / APPROVED BY	DENIS THIBODEAU, ing.	2017-05-29
ÉCHELLE / SCALE 1:125	DATE	2017-05-29

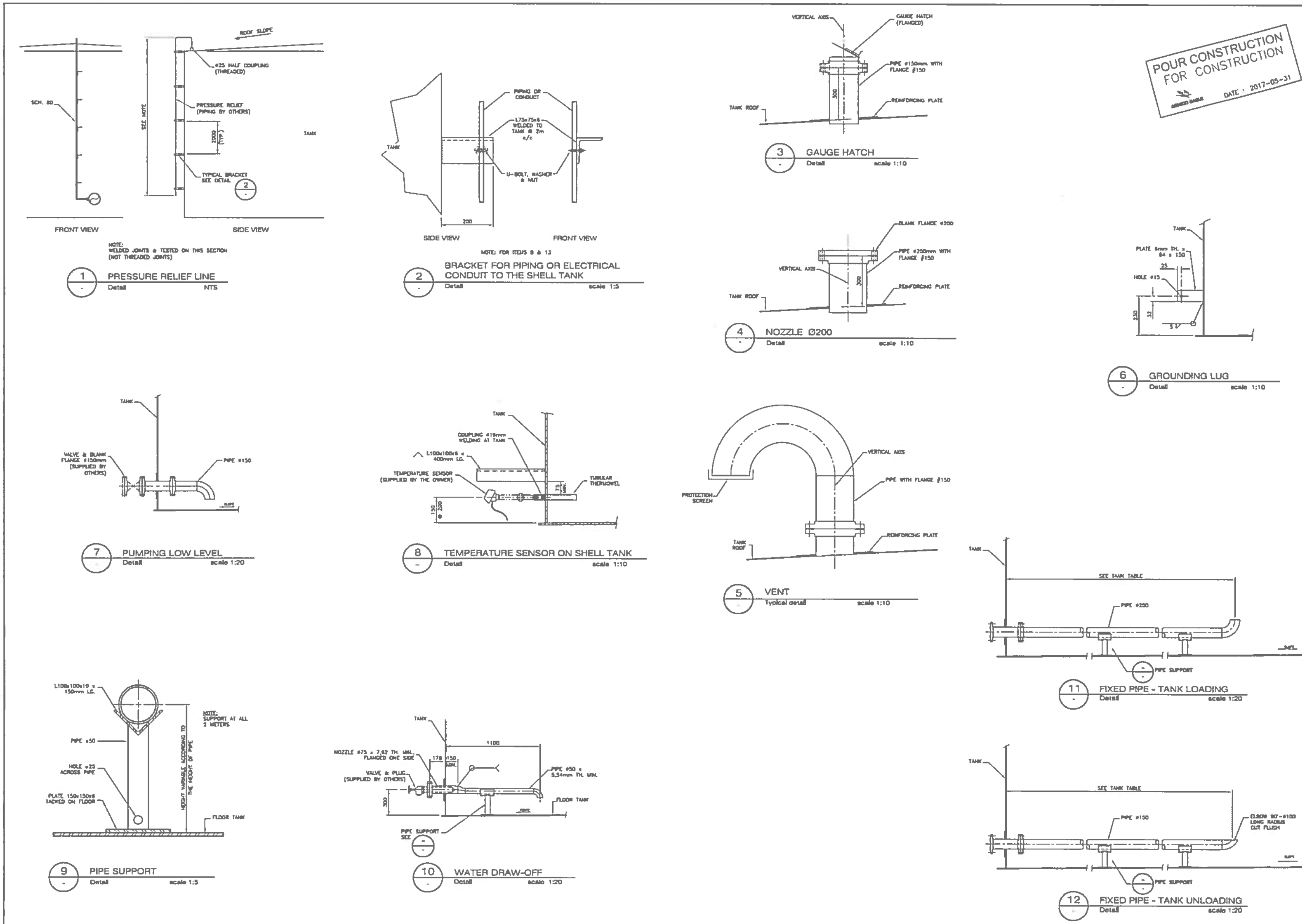
NO. DESSIN / DRAWING NO. 65-116-260-200

NO. PROJET / PROJECT NO.	RÉVISION	FEUILLE / SHT
6515	0	1 / 1

FILE NO. 65-116-260-200-R0.dwg

NO. DESSIN / DRAWING NO. 65-116-260-202

FORMAT ARCHD



WORK AREA

WSP

NOTES GÉNÉRALES / GENERAL NOTES

1. REPLACE DRAWING : 65-103-260-202

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

AGNICO EAGLE

0	2017-05-31	ISSUED FOR CONSTRUCTION	J.M.	B.T.

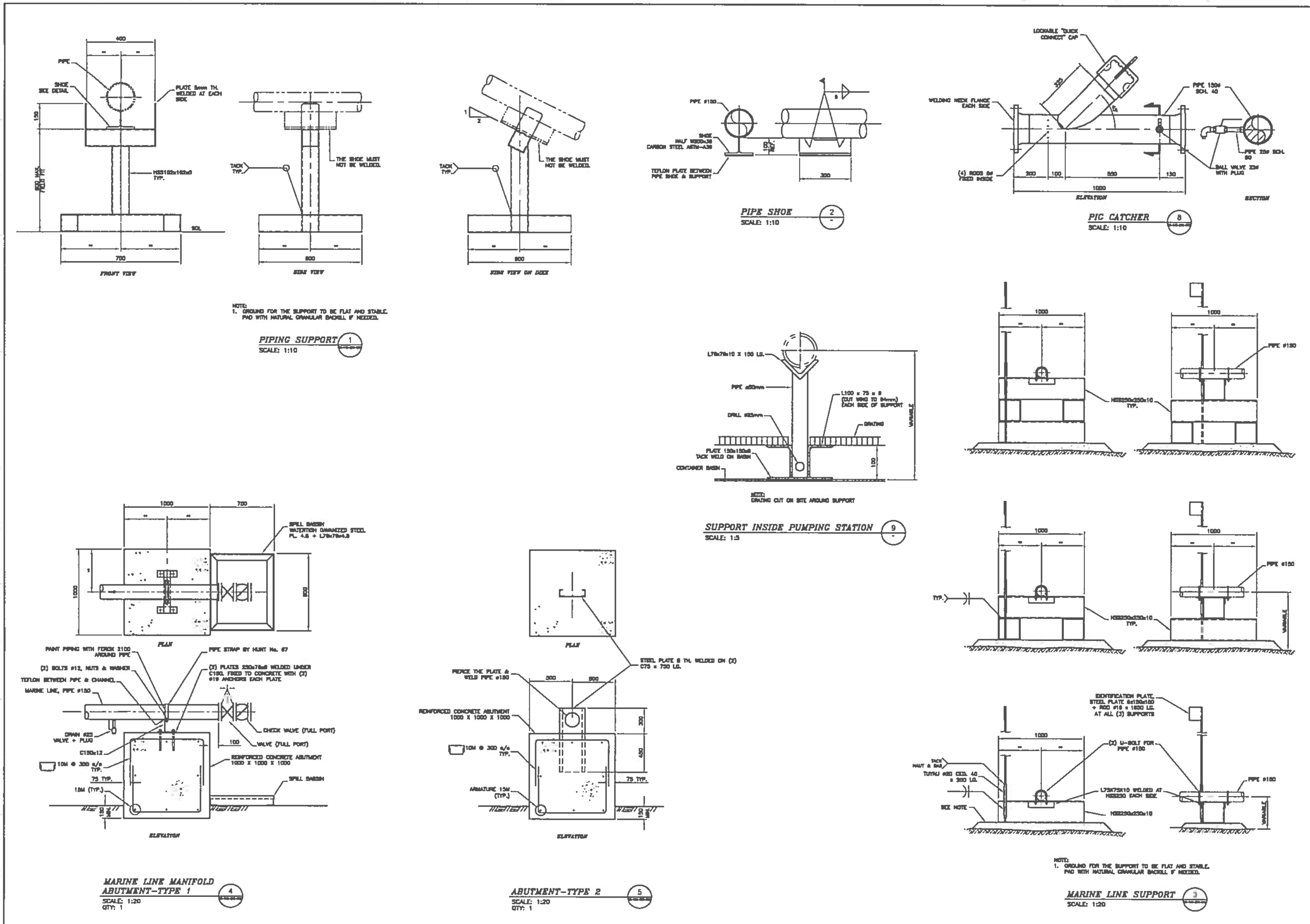
REVISIONS

TITRE / TITLE
AGNICO EAGLE – MELIADINE DIVISION
116 – FUEL TANK FARM
260 – PLATEWORK
TANK #1 @ #6
DETAILS

DESSINÉ PAR / DRAWN BY	GHISLAINE CORMUT	2017-05-29
VÉRIFIÉ PAR / CHECKED BY	JOËL MORLIÈRE, tech.	2017-05-29
APPROUVÉ PAR / APPROVED BY	DENIS THIBODEAU, ing.	2017-05-29
ÉCHELLE / SCALE	INDICATED	2017-05-29
NO. DESSIN / DRAWING NO.	65-116-260-202	
NO. PROJET / PROJECT NO.	6515	REVISION 0 / FEUILLE / SHEET 1/1

FILE NO. 65-116-260-202-R0.dwg

NO. DESSIN DRAWING NO. 65-116-270-200



WORK AREA

WSP

NOTES GENERALES / GENERAL NOTES

1. REPLACE DRAWING : 65-103-270-200

POUR CONSTRUCTION
FOR CONSTRUCTION
DATE : 2017-05-31

DESSINS EN REFERENCE / REFERENCE DRAWINGS

AGNICO EAGLE

REVISIONS

AGNICO EAGLE – MELIADINE DIVISION
116 – FUEL TANK FARM
270 – PIPING
FUEL DISTRIBUTION
DETAILS

DESSINE PAR / DRAWN BY	G. CORNUT	2017-05-29
VERIFIE PAR / CHECKED BY	J. MORLIERE, tech.	2017-05-29
APPROUVE PAR / APPROVED BY	D. THIBODEAU, P. Eng.	2017-05-29
ECHELLE / SCALE	INDICATED	2017-05-29

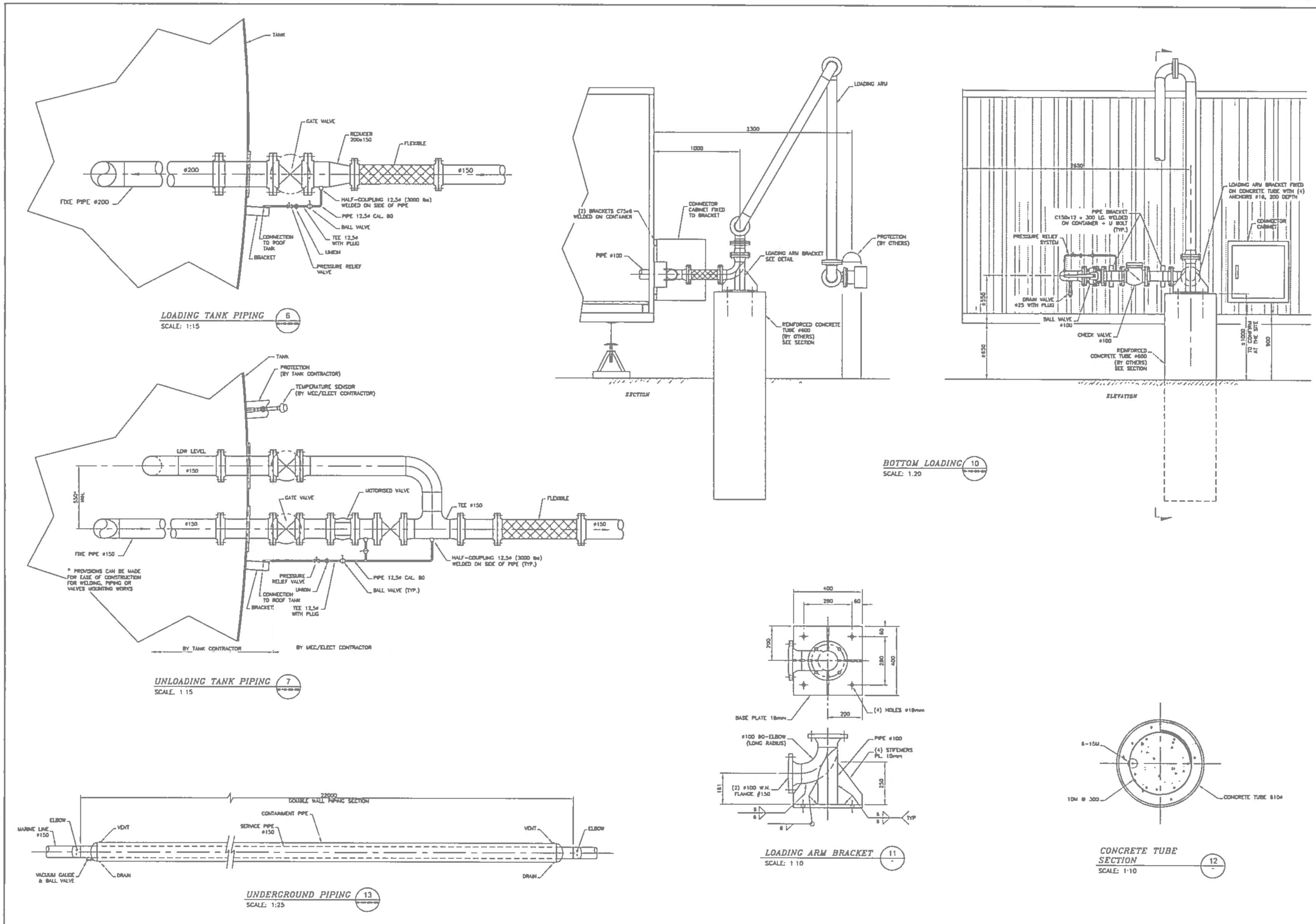
NO. DESSIN / DRAWING NO. 65-116-270-200

NO. PROJET / PROJECT NO.	REVISION	FEUILLE / OF
8515	0	1/1

FILE NO. 65-116-270-200_R0.dwg

NO. DESSIN / DRAWING NO. 65-116-270-201

FORMAT ARCHD



WSP

NOTES GENERALES / GENERAL NOTES

1. REPLACE DRAWING : 65-103-270-201

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE DATE : 2017-05-31

DESSINS EN REFERENCE / REFERENCE DRAWINGS

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT
0	2017-05-31	ISSUED FOR CONSTRUCTION	J.M.	D.T.	

REVISIONS

TITRE / TITLE
AGNICO EAGLE – MELIADINE DIVISION
116 – FUEL TANK FARM
270 – PIPING
FUEL DISTRIBUTION
DETAILS

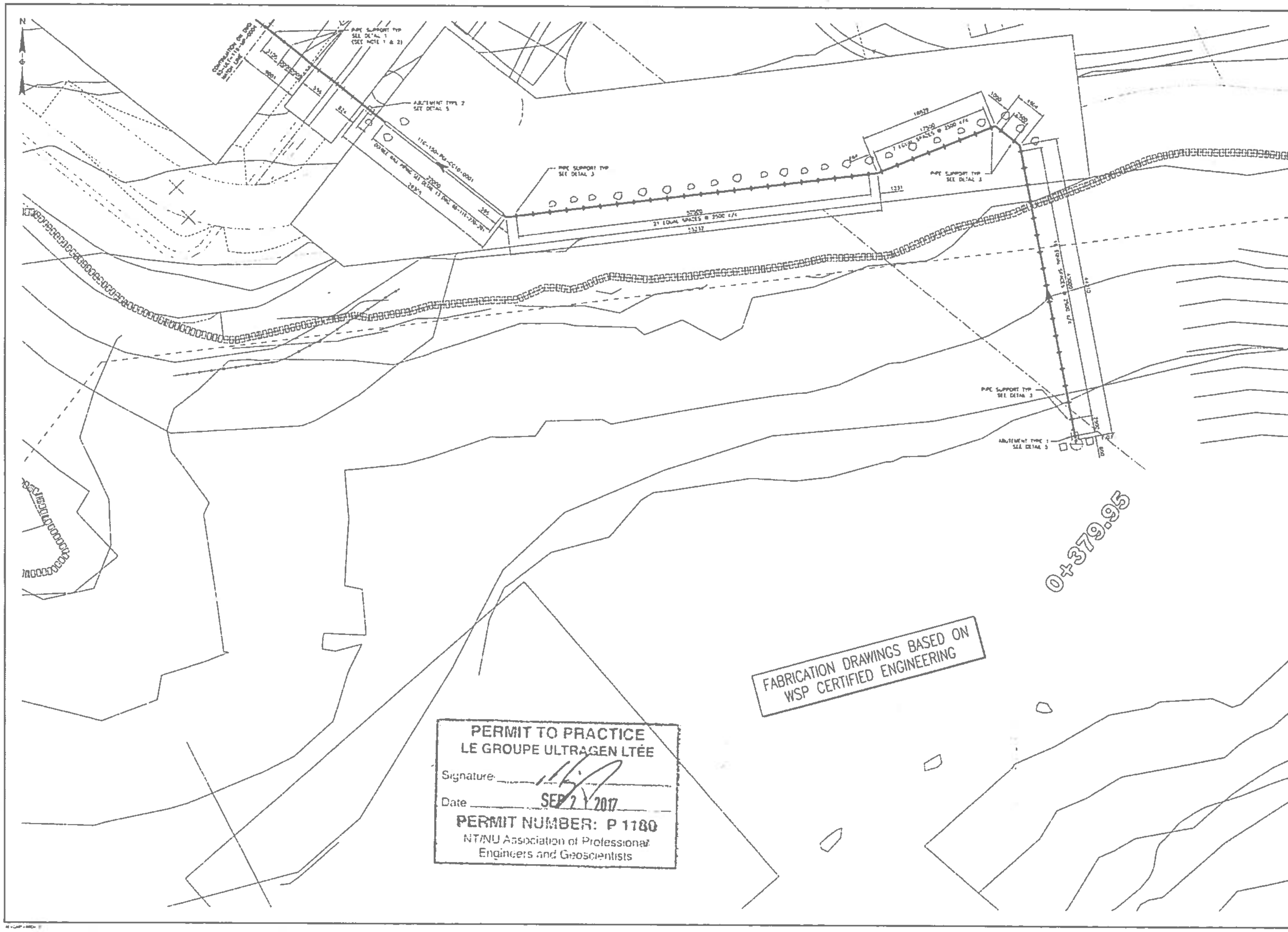
DESSINE PAR / DRAWN BY	G. CORNUT	DATE 2017-05-25
VERIFIE PAR / CHECKED BY	J. MORLIERE, tech.	2017-05-25
APPROUVE PAR / APPROVED BY	D. THIBODEAU, P. Eng.	2017-05-25
ECHELLE / SCALE	INDICATED	DATE 2017-05-25

NO. DESSIN / DRAWING NO. 65-116-270-201

NO. PROJET / PROJECT NO.	REVISION	FEUILLE / SHT
6515	0	1 / 1

FILE NO. 65-116-270-201_R0.dwg

65-ULT-116-MP-001



NOTES GENERALES / GENERAL NOTES

DESSINS EN REFERENCE / REFERENCE DRAWINGS

AGNICO EAGLE

REVISIONS

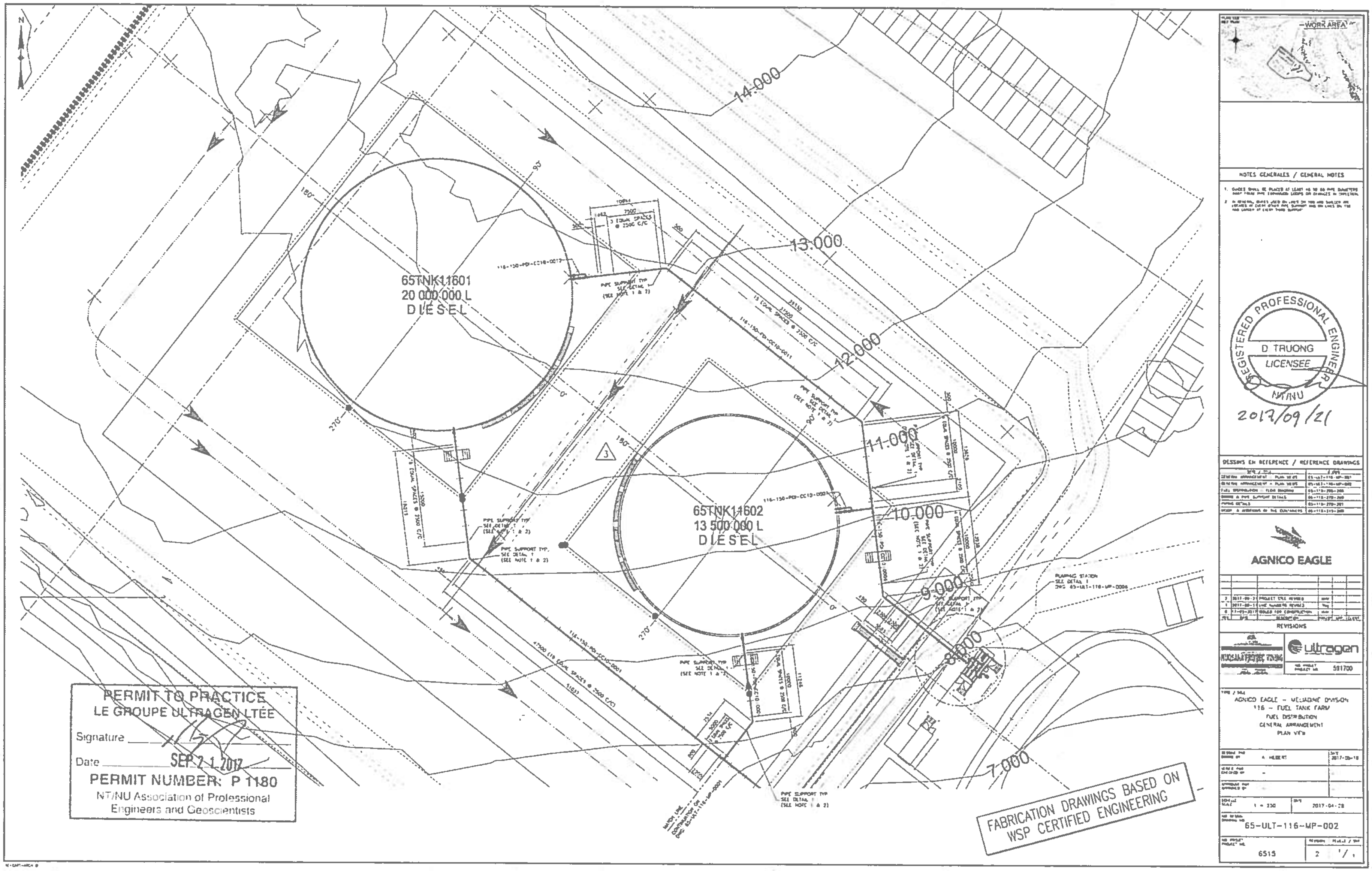
ultragen

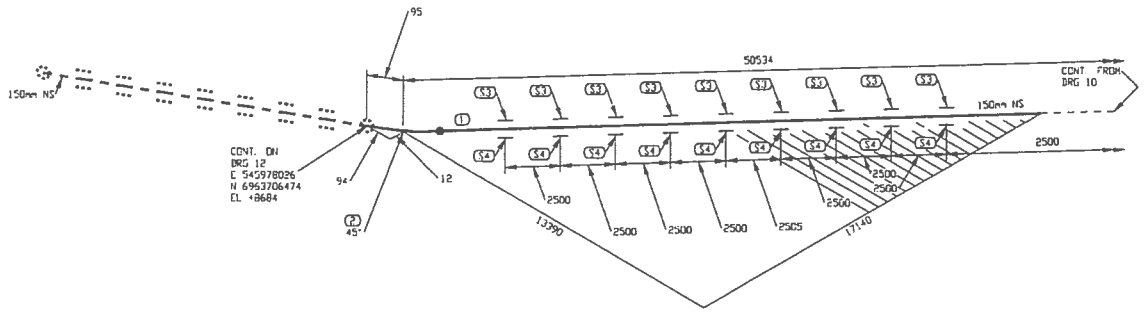
PROJECT No. 591700

AGNICO EAGLE – MELIADINE DIVISION
116 – FUEL TANK FARM
FUEL DISTRIBUTION
GENERAL ARRANGEMENT
PLAN VIEW

DRAWN BY	A. HEBERT	2017-03-10
CHECKED BY	-	-
APPROVED BY	-	-
SCALE	1 : 250	2017-04-28
DRAWING No.	65-ULT-116-MP-001	
PROJECT No.	6515	2 1/1

65-ULT-116-MP-002





PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature SEP 21 2017
Date
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	21655 MM	150	A 333 Gr 6	SCH STD, SMLS PIPE
2	1	150	A 420 Gr WPL6	SCH STD, BW LR 45 DEG ELBOW
3	9	150		PIPE SUPPORT AS PER DETAIL 1, DWG 65-116-270-200
4	9	150		PIPE SHOE AS PER DETAIL 2, DWG 65-116-270-200

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUOSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRAÇAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0001		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
NT/NU
2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VER. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

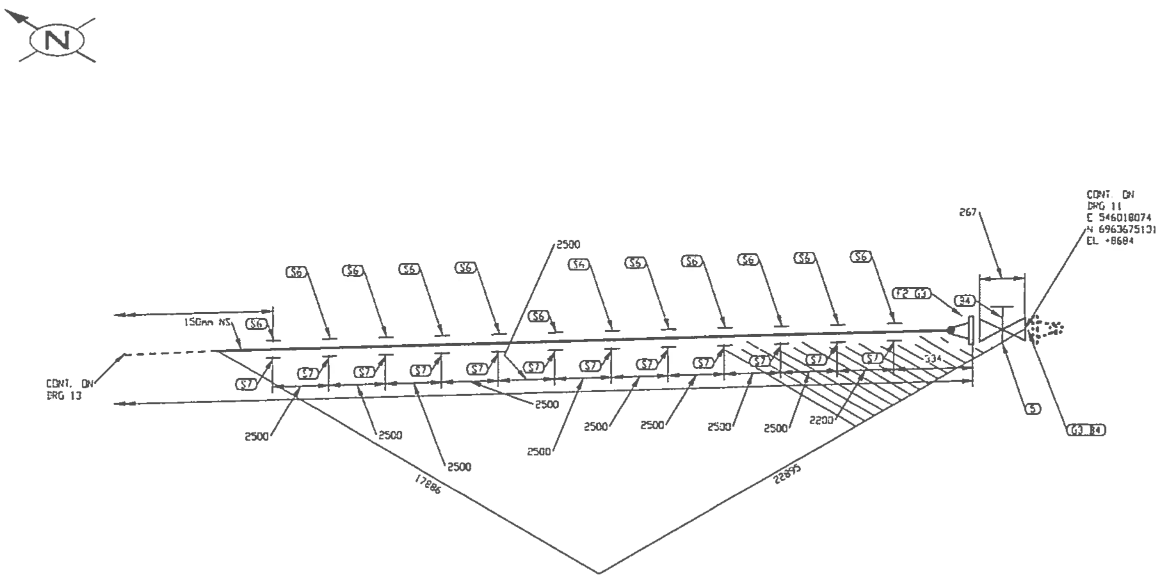
PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
MARINE LINE TO 65TNK11601 & 65TNK11602

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0001	11/13	2

116-MN-01

IMPRIMÉ LE: Sep 20, 2017, 2:44pm



LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	28696 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
3	2	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
4	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
5	1	150	GA-10	CL 150, RF, CS, GATE VALVE
6	12	150		PIPE SUPPORT AS PER DETAIL 1, DWG 65-116-270-200
7	12	150		PIPE SHOE AS PER DETAIL 2, DWG 65-116-270-200

No.	DATE	REVISION	PAR APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
NT/NU
2017/09/21

NO. DE CONDUITE	SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0001	CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200 P&ID
PSIG	°F	PSIG	°F	PSIG			No. DESSIN	DESSINS DE REFERENCE

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VER. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

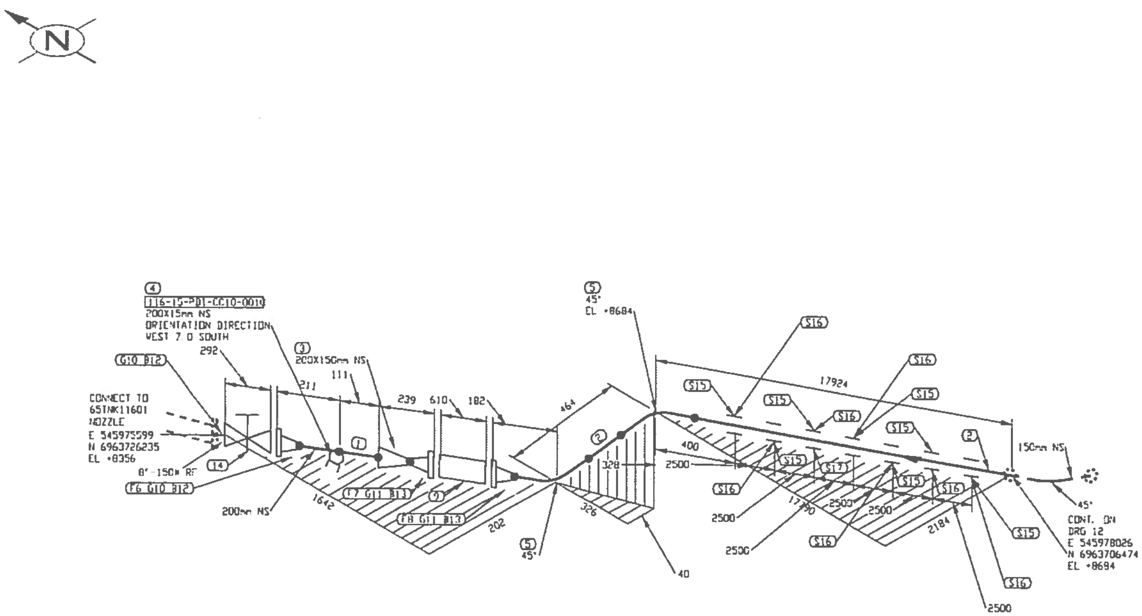
PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
MARINE LINE TO 65TNK11601 & 65TNK11602

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0001	12/13	2

116 MN 01

APPROUVÉ LE Sep 20, 2017 2:44pm



LISTE DE MATERIEL				
No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	222 MM	200	A 333 Gr. 6	SCH STD, SMLS PIPE
2	18103 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
3	1	200X150	A 420 Gr. WPL6	SCH STD, BW CONC RED
4	1	200X15	A 350 Gr. LF2	CL 3000, THREDOLET
5	2	150	A 420 Gr. WPL6	SCH STD, BW LR 45 DEG ELBOW
6	1	200	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
7	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
8	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
9	1	150		CL 150, SINGLE BRAIDED HOSE ASSEMBLY
10	2	200	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
11	2	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
12	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 110 STUD BOLTS c/w TWO HEAVY HEX NUTS
13	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
14	1	200	GA-10	CL 150, RF, CS, FULL PORT GATE VALVE
15	7	150		PIPE SUPPORT AS PER DETAIL 1, DWG: 65-116-270-200
16	7	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200
17	1	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE		SPECIFICATION		PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0001		CC10		PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE		65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG					No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D TRUONG
LICENSEE
NT/NU
2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINE PAR: KVE
DATE: 2017/04/25
VER. PAR: -
DATE: -
APP.: -
DATE: -
ECHELLE: AUCUNE

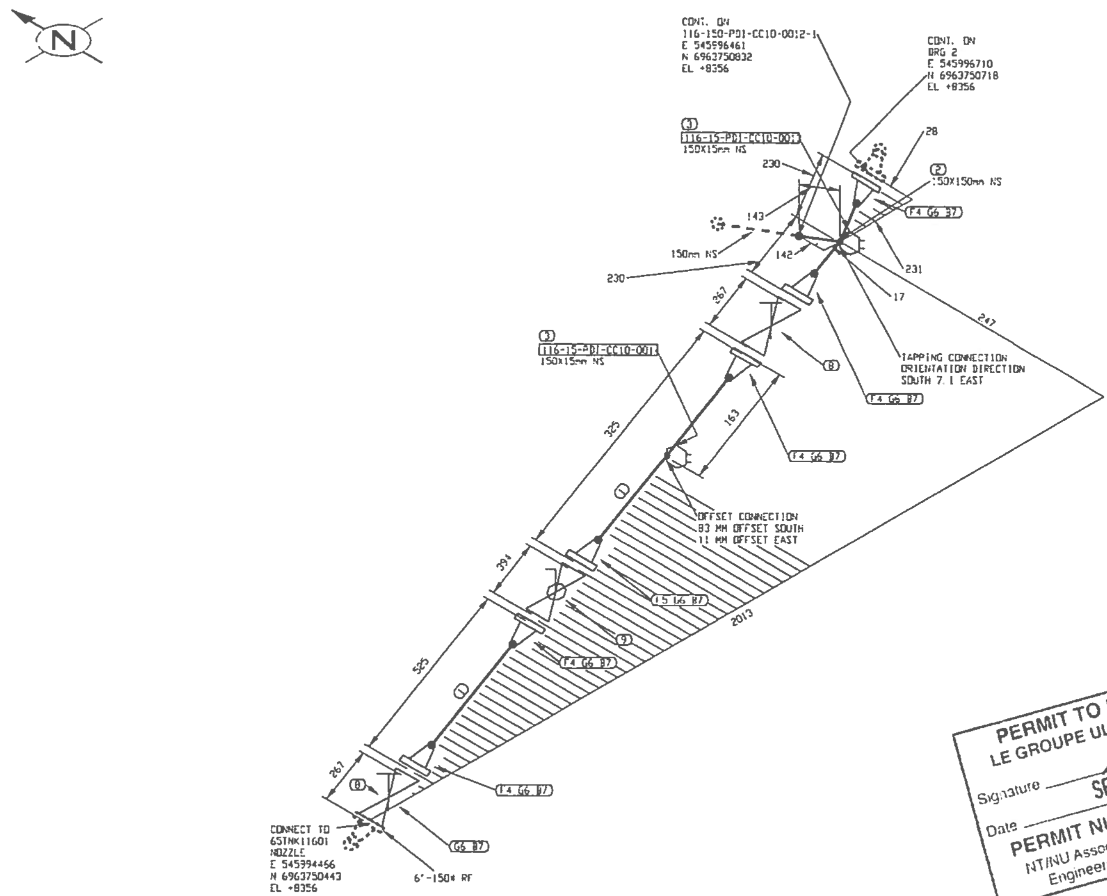
PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
MARINE LINE TO 65TNK11601 & 65TNK11602

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0001	13/13	2

116-MN-01

IMPRIME LE Sep 20, 2017, 2:44pm



PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTEE
Signature
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

LISTE DE MATERIEL

No	QTE	DA	MATERIEL/CATALOGUE	DESCRIPTION
1	502 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150X150	A 420 Gr. WPL6	SCH STD, BW STRAIGHT TEE
3	2	150X15	A 350 Gr. LF2	CL 3000, THREDOLET
4	5	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
5	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
6	7	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
7	56	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
8	2	150	GA-10	CL 150, RF, GATE VALVE
9	1	150	BA-31	CL 150, RF, BALL VALVE

No.	DATE	REVISION	PAR / APP
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

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CONSULTANT PROJECT NO. 591700

SCEAU PROFESSIONNEL: REGISTERED PROFESSIONAL ENGINEER D. TRUONG LICENSEE 2017/09/21

NO. DE CONDUITE	SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION			
116-150-PDI-CC10-0011	CC10	PDI		-				65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

CONC.: KHV DATE: 2017/04/25
DESSINE PAR: KVE DATE: 2017/04/25
VER. PAR: - DATE: -
APP.: - DATE: -
ECHELLE: AUCUNE

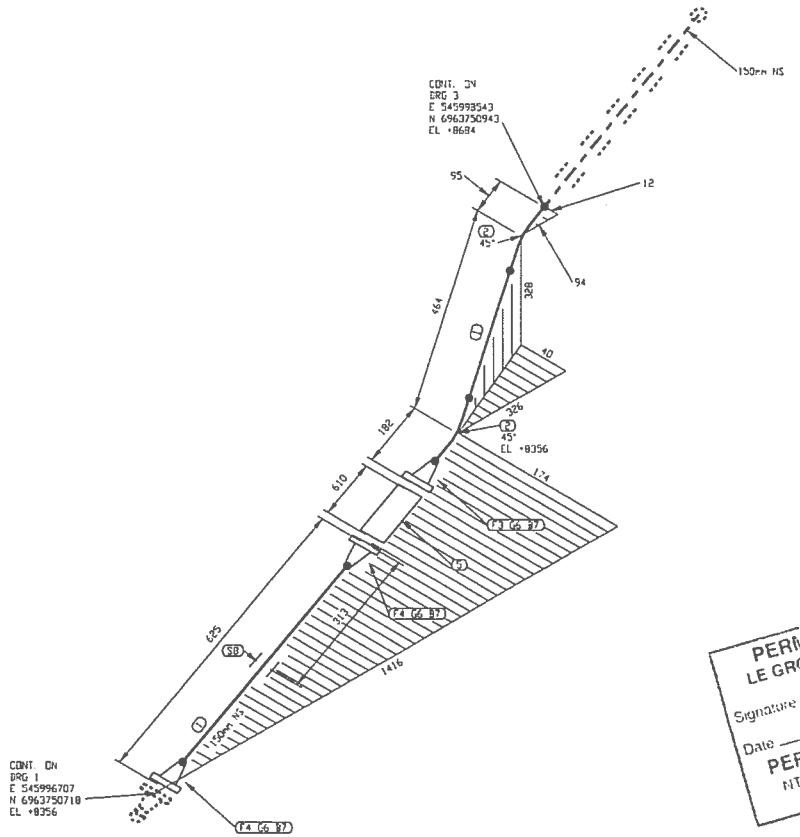
PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	1/5	2

116-MN-01

IMPRIME LE Sep 26, 2017, 2:46pm



PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature _____
Date SEP 2 1 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	725 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	2	150	A 420 Gr. WPL6	SCH STD, BW LR 45 DEG ELBOW
3	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
4	2	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
5	1	150		CL 150, SINGLE BRAIDED HOSE ASSEMBLY
6	3	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
7	24	19	A 193 B7/A 194 2H	CL 150, Ø - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
8	1	150		PIPE SHOE AS PER DETAIL 2, DWG 65-116-270-200

No.	DATE	REVISION	APP
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUOSANA PROMEC MINING

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CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0011		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D TRUONG
LICENSEE
2017/09/21

CONC.: KHV DATE: 2017/04/25
DESSINÉ PAR: KVE DATE: 2017/04/25
VER. PAR: - DATE: -
APP.: - DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	2/5	2

116-MN-01

FICHIER: N:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05. Design\02 Isométriques\01 Pairie Inst\116-150-PDI-CC10-0011-2.DWG

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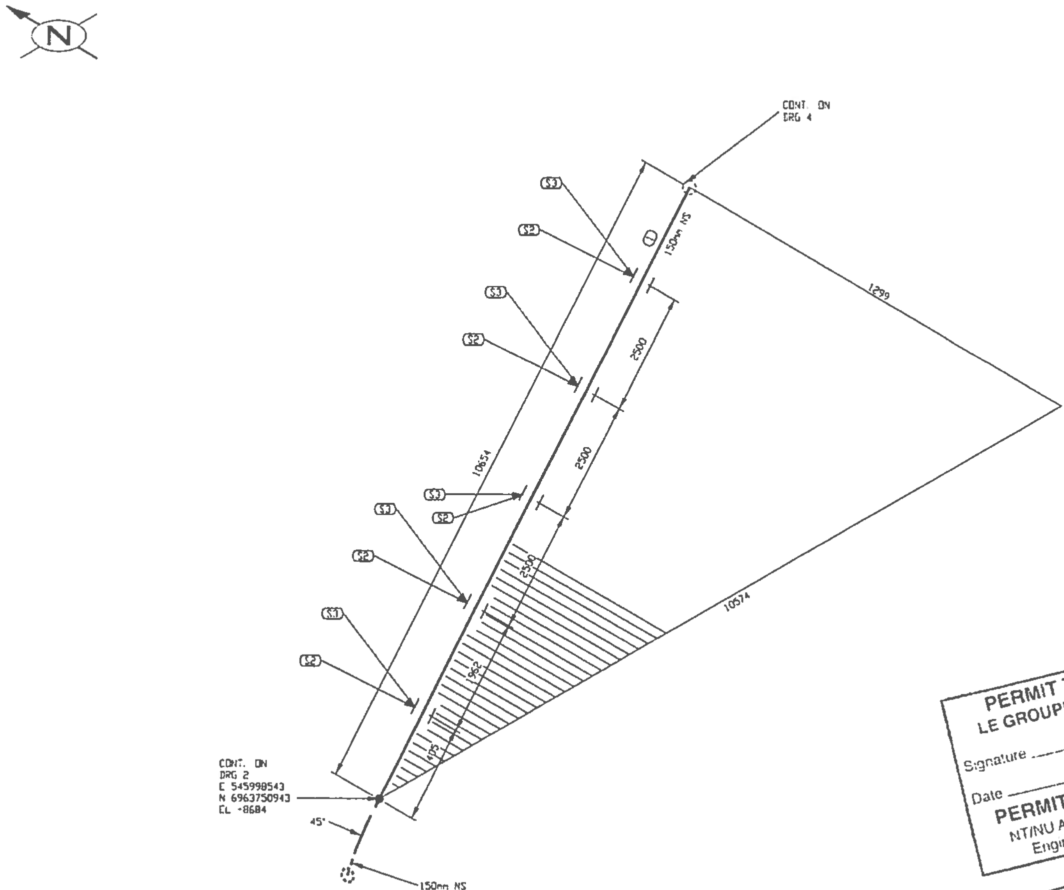

LISTE DE MATERIEL

No	CTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	10654 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	5	150		PIPE SUPPORT AS PER DETAIL 1, DWG 65-116-270-200
3	5	150		PIPE SHOE AS PER DETAIL 2, DWG 65-116-270-200

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROHEC MINING

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CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE	SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0011	CC10	PDI					65-116-270-200	PIPE SUPPORT DETAILS

PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE		
								65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D TRUONG
LICENSEE
2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VER. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

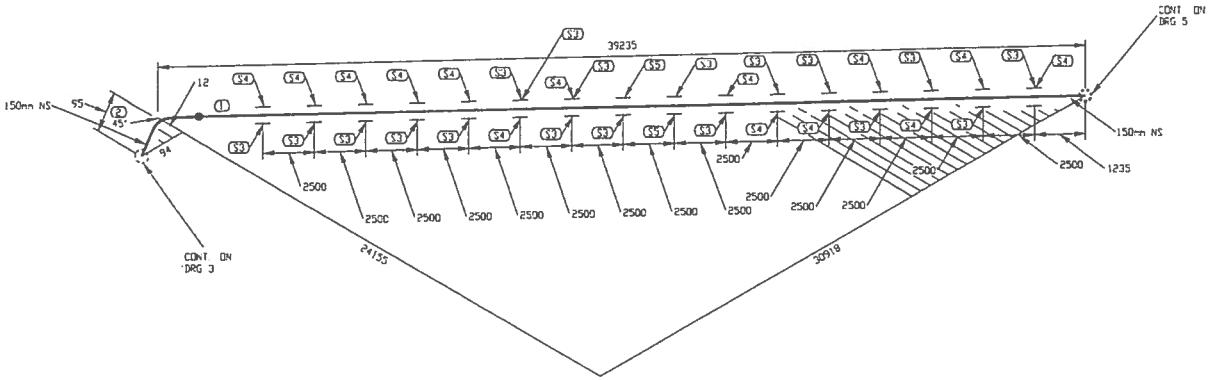
PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	3/5	2

116-MN-01

IMPRIMÉ LE: Sep 20, 2017 2:46pm



LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	39140 MM	150	A 333 Gr 6	SCH STD, SMLS PIPE
2	1	150	A 420 Gr WPL6	SCH STD, BV LR 45 DEG ELBOW
3	18	150		PIPE SHOE AS PER DETAIL 2, DWG 65-116-270-200
4	14	150		PIPE SUPPORT AS PER DETAIL 1, DWG 65-116-270-200
5	2	150		PIPE SUPPORT AS PER DETAIL 3, DWG 65-116-270-200

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 2 1 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

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CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0011		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
NT/NU 21

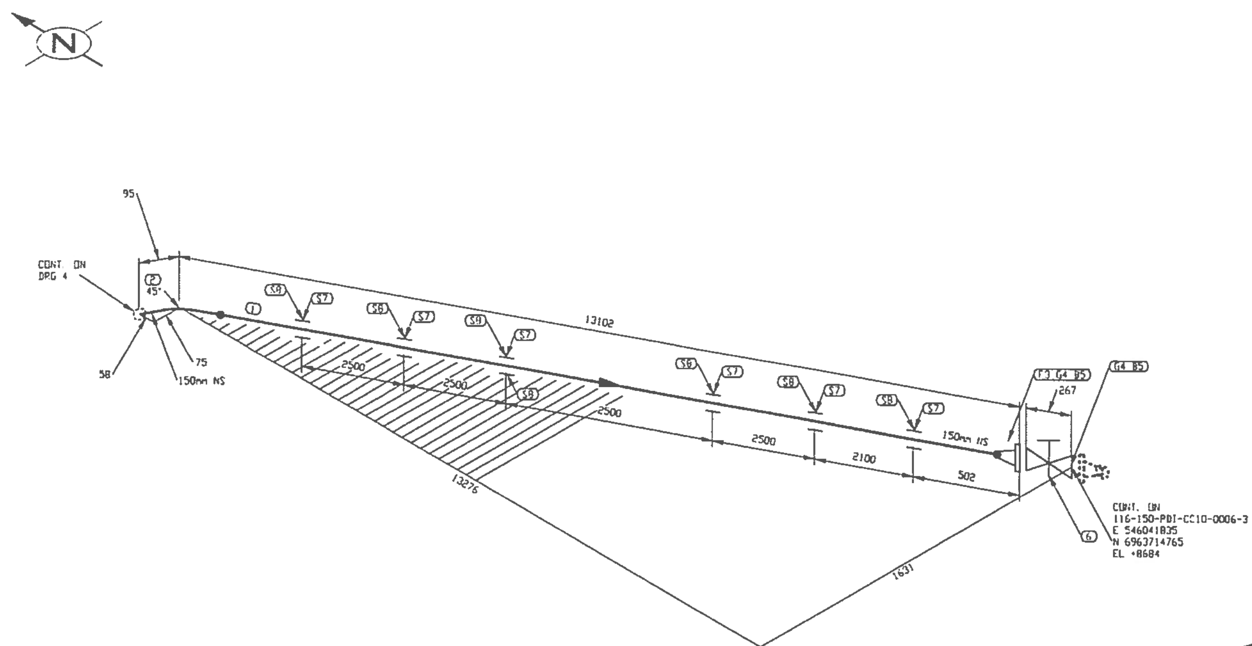
CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VER. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MEL IADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	4/5	2

116-MN-01



LISTE DE MATERIEL

No	QTE	D.A	MATERIEL/CATALOGUE	DESCRIPTION
1	12919 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150	A 420 Gr. WPL6	SCH STD, BW LR 45 DEG ELBOW
3	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
4	2	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
5	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 x 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
6	1	150	GA-10	CL 150, RF, GATE VALVE
7	6	150		PIPE SUPPORT AS PER DETAIL 1, DWG 65-116-270-200
8	7	150		PIPE SHOE AS PER DETAIL 2, DWG 65-116-270-200

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

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CONSULTANT PROJECT NO. 591700

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
2017/09/21

CONC.: KHV	DATE: 2017/04/25
DESSINE PAR: KVE	DATE: 2017/04/25
VER. PAR: -	DATE: -
APP.: -	DATE: -
ECHELLE: AUCUNE	

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	5/5	2

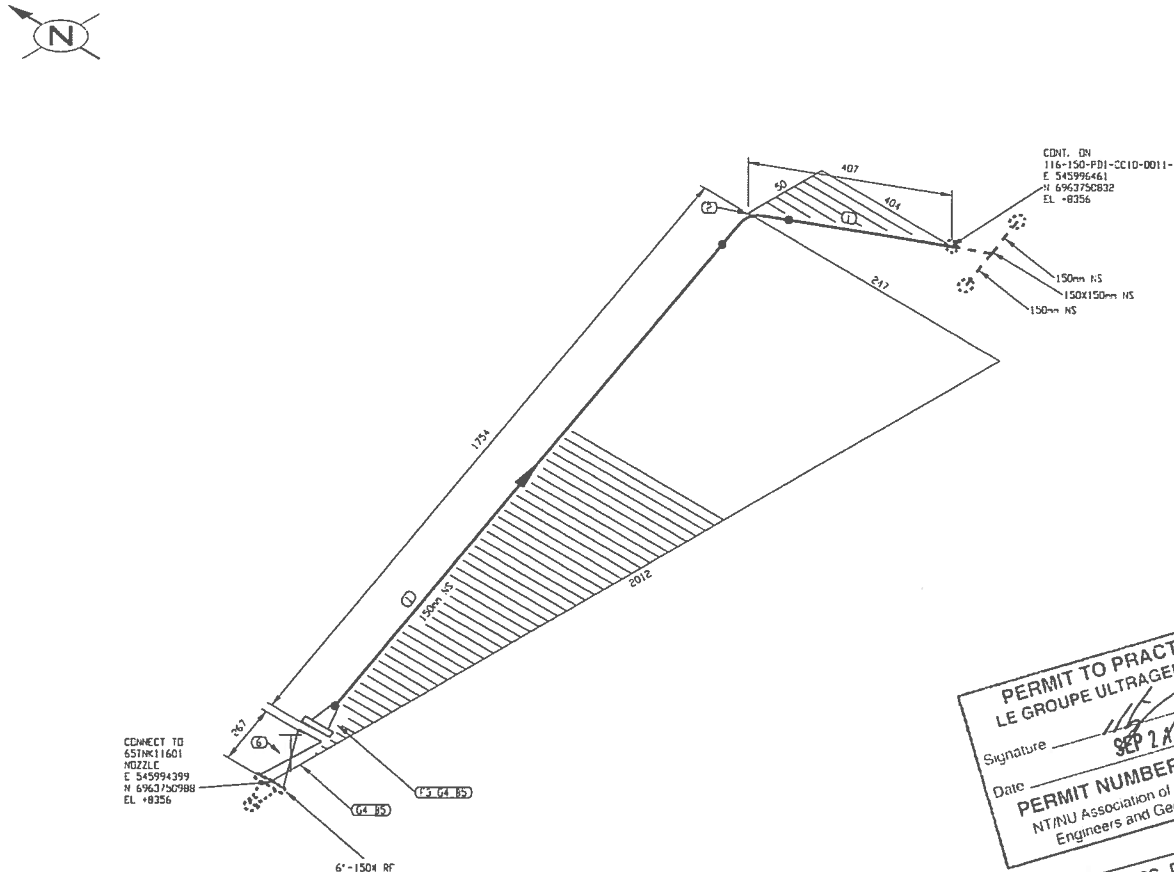
NO. DE CONDUITE	SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION
116-150-PDI-CC10-0011	CC10	PDI		-		

PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE
PSIG	°F	PSIG	°F	PSIG			

No. DESSIN	DESSINS DE REFERENCE
65-116-270-200	PIPE SUPPORT DETAILS
65-116-205-200	P&ID

116-MN-01

IMPRIME LE: Sep 20, 2017, 2:46pm



PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 2 1 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	1616 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150	A 420 Gr. WPL6	SCH STD, BV LR 90 DEG ELBOW
3	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
4	2	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
5	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 x 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
6	1	150	GA-10	CL 150, RF, GATE VALVE

No.	DATE	REVISION	PAR / APP
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA-PROMEC MINING

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CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE	SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0012	CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION / TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION / TEMPERATURE DE CONCEPTION		PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG / °F	PSIG / °F		PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL: REGISTERED PROFESSIONAL ENGINEER — D. TRUONG — LICENSEE — 2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VER. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0012	1/1	2

116-MN-01

IMPRIMÉ LE Sep 20, 2017, 2:46pm

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0014 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

Agnico-Eagle Mines Ltd.
Non-Conformance Report

ITR Number : AEM-GE-ITR-002
Contract no. : C22466T / C22498E

AGNICO EAGLE

PART 1 – To be completed by Originator			
ITR no. :	Supplier/Vendor/Manufacturer/Contractor :	Originator :	Date:
Equipment Identification:		Equipment Tag No.:	
Disposition Requested: ☐ 48 Hours ☐ Other	NCR Classification: ☐ Supplier ☐ Fabrication ☐ Engineering ☐ Construction ☐		
Current Status: ☐ Work Already Done ☐ Partially Done ☐ Other ____	Potential Impact (Check appropriate box and give estimate): ☐ Cost ☐ Schedule ☐ Other		
Detailed Description of Non-Conformance (attach sketch, pictures, etc) :			
Describe Deviation to Drawings, Specifications, Standard, Code or other Reference:			

PART 2 - Disposition		
* CONTRACTOR Proposed Disposition / Resolution: ☐ Use As Is ☐ Repair ☐ Rework ☐ Reject/Scrap	Concession Request No. (if applicable):	Contractors NCR No. (if applicable):
Details of Contractor Corrective Actions Proposed / Concession Request:		
* Disposition: ☐ Use as Is ☐ Repair ☐ Rework ☐ Reject/Scrap	Dispositioning Party:	Signature:
Recommended Resolution / Actions:		

PART 3 - Confirmation	
Corrective Actions Completed By: Name: Date: Signature:	Corrective Actions Accepted by Dispositioning Party: Name: Date: Signature:
Corrective Actions Accepted by Originator: Name: Date: Signature:	NCR Closed Out By (Area QA Coordinator) Name: Date: Signature:

** Note:* Dispositions are not to be construed as a change to any Contracts which may be affected. Prior to initiating any work which will impact the Contract terms, the Contractors must forward to AMEC written notice of all impacts, including but not limited to cost and schedule. Any work completed without a written instruction to proceed, if required, will be at the Contractor's risk.

6515-C-270-007

Fuel Tanks Piping Supply and Installation

Non-Conformance Log

Document Number : AEM-GE-LOG-002
Contract Number : C22466T / C22498E

Number	Company	Description	Initiator	Date Opened	Date Closed	Progress Status
NCR-001						N/A
NCR-002						N/A
NCR-003						N/A
NCR-004						N/A
NCR-005						N/A
NCR-006						N/A
NCR-007						N/A
NCR-008						N/A
NCR-009						N/A
NCR-010						N/A
NCR-011						N/A
NCR-012						N/A
NCR-013						N/A
NCR-014						N/A
NCR-015						N/A
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NCR-032						N/A
NCR-033						N/A
NCR-034						N/A
NCR-035						N/A
NCR-036						N/A
NCR-037						N/A
NCR-038						N/A
NCR-039						N/A
NCR-040						N/A

Vendor Document Status

AGNICO EAGLE

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0019 R: Sub001

DOCUMENT FOR INFORMATION

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-05-02

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0038 R: Sub001

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Welding Control Procedure

AEM-WE-PRO-001

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-26
Verified by:	Jérémy Duval	**Signature:**		**Date:**	2017-04-26
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-26

CLIENT Approvals

Verified by:		**Signature:**		**Date:**	
Approved by:		**Signature:**		**Date:**	

TABLE OF CONTENTS

1. Scope

- This procedure describes the system for maintaining control of all production welding to the requirements of the applicable engineering specifications, codes and standards.

2. References

- ASME, Section IX - Welding and Brazing Qualifications
- ANSI, B-31.3 - Petroleum Refinery Piping
- ANSI, B-31.1 - Power Piping
- AWS, American Welding Society

3. Welding Procedures

- All welding performed on site will comply with applicable qualified welding procedures as specified in the Standard S40 05 13.
- Prime contractor's welders will be qualified to weld procedures in accordance with contract specifications. Prime contractor is responsible for certifying their own welders.
- Copies of the qualified welding procedures approved for that project shall be maintained on site by the Welding Foreman and Site Q/C Representative for reference and permanent retention.

4. Welder Performance Qualification

- It is the responsibility of the Site Q/C Representative to conduct or supervise the Welder Performance Qualification tests. At the discretion of the Corporate Quality Control Manager, a Welding Foreman or other qualified site supervisor may conduct these tests.
- Records attesting to the Welder Performance Qualification tests shall be generated and maintained by the Site Q/C Representative and the Welding Foreman.
- The Site Q/C Representative and the Welding Foreman shall maintain a complete listing of welders and welding operators employed. The form, Welder Qualification Log, is to be updated and reissued on a monthly basis and is to be distributed as required.

5. Welding Material Control

- The Site Q/C Representative and Welding Foreman shall make certain that the welding material used conforms to that of the welding procedure. No substitutions for the specified material will be made without written approval from the client.

6. Fit-Up and Welding

- Visual surveillance shall be performed to establish compliance to welding procedures. The inspection parameters listed below are recommended as guidelines
  - ✓ Inspect end preparation and joint configuration as established by applicable weld procedures and engineering specifications.
  - ✓ Inspect internal alignment and root opening prior to welding.
  - ✓ Check tack welds that are to be incorporated into the final weld, and be assured of proper blend grinding and absence of visual defects.
  - ✓ Check for proper welding materials and other essential variables of applicable weld procedures.
  - ✓ Check visually root pass for cracks, porosity, slag, fusion lines and quality workmanship (if required use LP).
  - ✓ Inspect completed welds for proper reinforcement. All welds should blend smoothly into the base metal and be free of cold lap or fusion at the toe.
  - ✓ Inspect weld for surface discontinuities such as undercut. Surface porosity is to be considered as an injurious defect and shall be repaired.
  - ✓ All repairs are to be made in accordance with approved procedures.
  - ✓ Each welder shall be responsible for stamping his assigned symbol immediately after completion of the weld. A smooth, flat spot shall be ground or filed on the reinforcement cap. The welder shall stamp his/hers identifying mark upon this spot.
- For ferrous material less than 1/4" (1/2" for nonferrous), the welder's symbol shall be recorded on the base metal by use of a halogen-free paint marker, or recorded on isometric drawings by the welding supervisor which shall be available to the Quality Control Inspector.

7. Radiographic Inspection

- The Site Q/C Representative or Welding Foreman will schedule radiographic inspections.
- Radiographic requirements shall be determined by the client standard to assure compliance to contract Codes and specifications.
- Welds requiring radiography will be flagged by a suitable means which will be consistent through contract completion.
- The Site Q/C Representative will complete the Radiographic Inspection Status Record, to indicate status of radio graphically-inspected welds. This form will be forwarded to appropriate supervision for distribution.
- In addition to the records generated under this procedure, marked-up isometric and orthographic drawings will be used as weld maps to indicate completion of radiographic inspection. This will allow a progressive record and give system status.

PREMIÈRE PASSE E-6011 , 3/32
SMAW
REMPLISSAGE E-7018 , 1/8-5/32
SMAW
ACIER AU CARBONE
Procédure : P-1 , PR-1

et de la Protection du consommateur
Inspection des installations de tuyauterie
Division des appareils sous pression

DE SOUDAGE (DMS)
ding Procedure Specification (WPS)

lote: les titres désignent également les hommes et les femmes.

Entreprise/*Company*	
Nom	Construction Promec
Adresse/*Address*	369 rue Murdoch
	Rouyn-Noranda (Québec)
(819) 797-3456	Code postal J 9 X 1 G 4

(2) **Enregistrement provincial** / *Provincial Registration* — MS / WP 8814.6

(3) **Désignation de la méthode/*Procedure Identification***

DMS N° / *WPS No.*	P1 — Révision N° / *Revision No.* 0
RMS N° / *PQR No.*	PR1
Section du code / *Code section*	

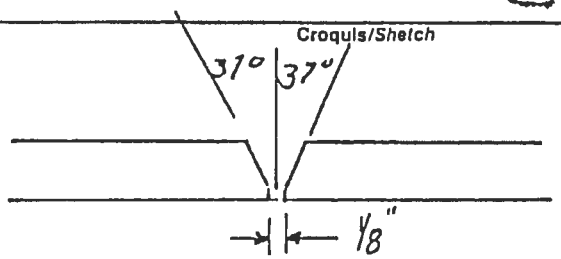
(4) **Procédé(s) de soudage** / *Welding Process(es)*

1	SMAW	Manuel/*Manual* ☒	Semi-auto. ☐	Auto. ☐
2		Manuel/*Manual* ☐	Semi-auto. ☐	Auto. ☐
3		Manuel/*Manual* ☐	Semi-auto. ☐	Auto. ☐

(5) **Joints/*Joints*** (QW-402)

Genre/*Design*	VW Fillet ~~Chan Frein Simple~~ ~~Chan Frein Double~~
Soutien / *Backing*	Oui/*Yes* ☒ Non/*No* ☒
Matériau de soutien / *Backing material*	P1 ou soudure
Autre / *Other*	

Croquis/*Sketch*



(6) **Métaux de base/*Base Metals*** (QW-403)

P N°/*No.* P1 Gr N°/*No.* ____ à/*to* P N°/*No.* P1 Gr N°/*No.* ____

ou Spécifications type et grade / *or Specifications type and grade* à/*to*

Anal. chimique et prop. méc. / *Chemical Analysis and Mech. Prop.* F3 à/*to* F4

Gamme des épaisseurs qualifiées / *Thickness Range Qualified*: Total 3/16" à 1½" 1 ¼" 2 1¼" 3

Autre / *Other*

(7) **Métaux d'apport/*Filler Metals*** (QW-404)

AWS N°/*No.*	E6011	SFA	5.1	*F-No.*	3	*A-No.*	1	Dia. 3/32-1/8-5/32
AWS N°/*No.*	E7018	SFA	5.1	*F-No.*	4	*A-No.*	1	Dia. 3/32-1/8-5/32
AWS N°/*No.*		SFA		*F-No.*		*A-No.*		Dia.

Marque de commerce du flux / *Flux Tradename* — Classification du flux-électrode / *Electrode-Flux Classification*

Pièce insérée consumable / *Consumable Insert* — Autre / *Other*

(8) **Positions/*Positions*** (QW-405)

Position(s) du chanfrein / *Position(s) of Groove*: Toute position

Progression du soudage / *Welding Progression*: Montant/*Up* ☒ Descendant/*Down* ☒

Position(s) de l'angle / *Position(s) of Fillet*: Toute position

Autre / *Other*

(9) **Préchauffage/*Preheat*** (QW-406)

Température de préchauffage / *Preheat Temperature*: Min. 60°F

Température de l'interpasse / *Interpass Temperature*

Maintien du préchauffage / *Preheat Maintenance*

Autre / *Other*

(10) **Traitement thermique postsoudage/ *Postweld Heat Treatment*** (QW-407)

Gamme de températures / *Temperature Range*: Aucun

Gamme de durée / *Time Range*

Autre / *Other*

(11) **Gaz/*Gas*** (QW-408)

Composition du gaz de protection / *Shielding Gas Composition*

Débit du gaz / *Gas Flow Rate*

Composition du gaz de soutien / *Backing Gas Composition*

Débit du gaz / *Gas Flow Rate*

Composition du gaz de protection traînant / *Trailing Shielding Gas Composition*

Caractéristiques électriques et t[illegible]niques/Electrical Characteristics and Tec[illegible]ue (QW-409) + (QW-410)

...ucho(s) de soudure ...ver(s)	Procédé Process	Métal d'apport Filler Metal		Courant Current				Gamme de vitesse Travel Speed Range
		Classification Classification	Diamètre Diameter	Type Type	Polarité Polarity	Gamme d'ampérage Amp Range	Gamme de voltage Volt Range	
è	SHAW	E6011	1/8" à 5/32"	DC	Inversé	75 - 85	26-30	--
tres	SHAW	E7018	1/8" à 5/32"	DC	Inversé	105 -110	26-30	--

...seur et type d'électrode de tungstène
...sten Electrode Size and Type --

...e de transfert du métal pour GMAW
...e of Metal Transfer for GMAW --

...ion droit ou oscillant
...g or Weave Bead Droit et oscillant

...édé de gougeage arrière
...od of Back Gouging Arc Air

...oyage initial et entre les passes (brossage, meulage, etc.)
...l and Interpass Cleaning (Brushing, Grinding, etc.) Brossage ou meulage

...ètre de la tuyère à gaz
...e or Gas Cup Size --

...llation Largeur
...llation Width --
Fréquence
Frequency

...nce entre tuyère & pièce
...ac... to Work Distance --

... ou multiple (par côté)
...pl... Single Pass (per Side) --

...rode unique ou multiple
...ple or Single Electrode --

...me de vitesse d'alimentation de l'électrode
...rode Wire feed speed range --

Pas de martelage

Autres commentaires/Supplementary Comments

...gnature du représentant de l'entreprise
...mpany Representative's Signature Donald Quétil

Date
Date 15 janv. 88

16

QC MINISTÈRE DU TRAVAIL ET DE LA MAIN-D'OEUVRE
APPROUVÉ
SELON LA LOI SUR LES APPAREILS SOUS PRESSION L.R.Q.
VÉRIFIÉ PAR .....
DATE 88.01.25

Réservé au ministère/Department use only

...par
N°
Date: 88/01/20

Gouvernement du Québec
Ministère de l'Habitation
et de la Protection du consommateur
Division des appareils sous pression

RÉSULTAT DE LA MÉTHODE DE SOUDAGE (RMS)
Procedure Qualification Record (PQR)

...lires désignent également les hommes et les femmes.

(Référence: ASME Section IX)

1 Entreprise/Company

Nom/Name: Construction Promec

Adresse/Address: 369 rue Murdoch

Rouyn-Noranda (Québec)

819-797-3456 | Code postal: J 9 X 1 G 4

2 Enregistrement provincial / Provincial Registration: MS WP 8814.6

3 Désignation du résultat/Record Identification

RMS N° / PQR No.: PR-1

DMS N° / WPS No.: P -1

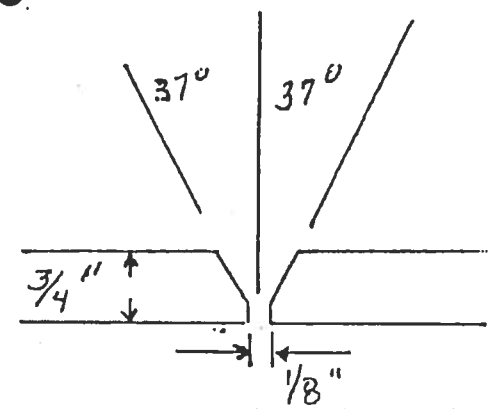
4 Procédé(s) de soudage/Welding Process(es)

SMAW — Type: Manuel

Type:

Type:

5



Croquis du joint utilisé/*Groove Design used*

6 Métaux de base/Base Metals (QW-403)

No. 1 Gr No. à/to P No. 1 Gr No.

Spécification/*Specification* — Tension/*Tensile*

SA - 516 - 70 — 70 000

Épaisseur / *Thickness*: 3/4 "

Diamètre/*Diameter*:

Autre / *Other*:

7 Métaux d'apport/Filler Metals (QW-404)

Classification (AWS)	SFA - No.	F - No.	A - No.
E-6011	5.1	3	1
E-7018	5.1	4	1

Autre / *Other*:

8 Positions/Positions (QW-405)

Position(s) du joint / *Position(s) of Groove*: 1 - G

Progression du soudage / *Welding Progression*: Montant / *Up* ☐ Descendant / *Down* ☐

Autre / *Other*:

9 Préchauffage/Preheat (QW-406)

Température de préchauffage / *Preheat Temperature*: 60 °F

Température de l'interpasse / *Interpass Temperature*:

Autre / *Other*:

10 Traitement thermique postsoudage/ Postweld Heat Treatment (QW-407)

Température / *Temperature*: aucun

Durée / *Time*:

Autre / *Other*:

11 Gaz/Gas (QW-408)

Composition du gaz de protection / *Shielding Gas Composition*: --

Débit du gaz / *Gas Flow Rate*:

Composition du gaz de soutien / *Backing Gas Composition*:

Débit du gaz / *Gas Flow Rate*:

Autre / *Other*:

12 Technique/Technique (QW-410)

Cordon droit ou oscillant / *String or Weave Bead*: droit

Oscillation / *Oscillation*:

Passe unique ou multiple (par côté) / *Multipass or Single Pass (Per Side)*: multiple

Électrode unique ou multiple / *Single or Multiple Electrode*: unique

Autre / *Other*:

13 Caractéristiques électriques et techniques/Electrical Characteristics and Technique (QW-409) + (QW-410)

Couche(s) de ...ure / Net ...r(s)	Procédé / *Process*	Métal d'apport / *Filler Metal* — Classification / *Classification*	Métal d'apport — Diamètre / *Diameter*	Courant / *Current* — Type / *Type*	Courant — Polarité / *Polarity*	Courant — Ampérage / *Amp*	Courant — Voltage / *Volt*	Vitesse / *Travel Speed*
...ère	SMAW	E-6011	1/8	DC	Inversé	85	26-30	-
...utres	SMAW	E-7018	1/8	DC	Inversé	105	26-30	-

⑮ Essais de traction/Tensile Tests

Éprouvette Specimen	Dimensions Largeur Width	Dimensions Épaisseur Thickness	Surface Area	Charge limite Ultimate Total Load	Contrainte limite Ultimate Unit Stress	Nature et endroit de la rupture Character and Location of Failure
G-1	.781	.810	.6326	51800	81,884	matériel
G-6	.785	.829	.6508	54300	83,436	matériel

⑮ Essais de pliage guidé/Guided Bend Tests — Référence:

Éprouvette Specimen	Face Face	Racine Root	Côté Side	Résultat Result	Éprouvette Specimen	Face Face	Racine Root	Côté Side	Résultat Result
(i) G-2		X		Accepté	(i) G-3	X			Accepté
(i) G-4		X		Accepté	(i) G-5	X			Accepté

⑯ Essais de résilience/Toughness Tests — Référence:

Éprouvette Specimen	Endroit de l'entaille Notch Location	Forme de l'entaille Notch Type	Température de l'éprouvette Specimen Temperature	Énergie de rupture Impact Value	Expansion latérale Lateral Expansion: % cisaillement/shear	Expansion latérale Lateral Expansion: Millièmes Mils	Essai en chute libre Drop Weight: Cassé Break	Essai en chute libre Drop Weight: Non cassé No Break

⑰ Essai de soudure d'angle/Fillet Weld Test — Référence:

Résultat satisfaisant Result-Satisfactory: Oui Yes ☐ Non No ☐ — Pénétration dans métal adjacent Penetration into Parent Metal: Oui Yes ☐ Non No ☐

Résultats Macroscopiques Micro-Results

⑱ Autres essais/Other Tests — Référence:

Reviewed and accepted by Construction Provac Inc. QC Manager
Date: March 29, 2007 Signed: Jean-Guy Bisson, eng

⑲ Nom du soudeur Welder's Name: Serge Gagné — Symbole Stamp No.: G

Essais effectués par Tests conducted by: Megualtech — Essai de laboratoire No. Laboratory Test No.: 88-078

Nous certifions que les renseignements concernant ce résultat sont exacts et que les essais de soudage ont été préparés, soudés et exécutés conformément aux exigences de la section IX du Code ASME.

We certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of section IX of the ASME Code.

⑳ Signature du représentant de l'entreprise Company Representative's Signature: [signature] Date Date: 15 janvier 1988

QC MINISTÈRE DU TRAVAIL ET DE LA MAIN-D'OEUVRE
APPROUVÉ
SELON LA LOI SUR LES APPAREILS SOUS PRESSION R.L.R.Q.
VÉRIFIÉ PAR
DATE 07 01 05

Réservé au Ministère/Department Use Only 8814.6

Pièces soudées le Specimen Welded on	14 janvier 88	Inspecteur Inspector	Yvon Viau
Résultats vérifiés le Record Verified on	88/12/5	Inspecteur Inspector	

Caractéristiques électriques et t niques/*Electrical Characteristics and Tec* ue (QW-409) + (QW-410)

...ucho(s) de soudure ...ld Layer(s)	Procédé *Process*	Métal d'apport *Filler Metal*		Courant *Current*				Gamme de vitesse *Travel Speed Range*
		Classification *Classification*	Diamètre *Diameter*	Type *Type*	Polarité *Polarity*	Gamme d'ampérage *Amp Range*	Gamme de voltage *Volt Range*	
.e	SHAW	E6011	1" à 5" / 8 32	DC	Inversé	75 - 85	26-30	--
tres	SHAW	E7018	1" à 5" / 8 32	DC	Inversé	105 -110	26-30	--

sseur et type d'électrode de tungstène *gsten Electrode Size and Type*	--
le de transfert du métal pour GMAW *le of Metal Transfer for GMAW*	--
fon droit ou oscillant *g or Weave Bead*	Droit et oscillant
:édé de gougeage arrière *nod of Back Gouging*	Arc Air
oyage initial et entre les passes (brossage, meulage, etc.) *al and Interpass Cleaning (Brushing, Grinding, etc.)*	Brossage ou meulage
nètre de la tuyère à gaz *ce or Gas Cup Size*	--
illation / *illation* — Largeur *Width*	-- — Fréquence *Frequency*
ance entre tuyère & pièce *ta... to Work Distance*	--
ou multiple (par côté) *tiple ... ingle Pass (per Side)*	--
:trode unique ou multiple *'iple or Single Electrode*	--
nme de vitesse d'alimentation de l'électrode *trode Wire feed speed range*	--
e / *er*	Pas de martelage

Autres commentaires/*Supplementary Comments*

INGÉNIEUR - ENGINEER
Jean-Guy Bisson
111343
QUÉBEC

Reviewed and accepted by Construction Promec Inc. QC Manager
Date: March 29, 2007 Signed: Jean-Guy Bisson
Jean-Guy Bisson, eng

Signature du représentant de l'entreprise *Company Representative's Signature* — Date *Date*: 15 janv. 88

(16)
QC MINISTÈRE DU TRAVAIL ET DE LA MAIN-D'OEUVRE
APPROUVÉ
SELON LA LOI ... APPAREILS SOUS PRESSION L.R.Q.
VÉRIFIÉ PAR .....
DATE 88.01.25

Réservé au ministère/*Department use only*

...é par ... Date: 88/1/22
...ue N°

Appendix A

ALL APPLICABLE ITRs & LOGs

Date de qualification	Qualification
2017-05-06	Soudage sur appareils sous pression Classe A Tuyaux 50 mm, catégorie 160-P1-6G, F3-F4

Emploi
Québec

Certificat de qualification

Nom de famille
MASSICOTTE-ROY

Prenom
ALEXANDRE

Numéro de dossier
0000000176159

Délivré en vertu de la Loi sur la formation et la qualification professionnelles de la main-d'oeuvre (L.R.Q., chapitre F-5).

Délivré le
2017-05-06

Expire le
2019-05-06

X

Signature

Ministère du Travail, de l'Emploi et de la Solidarité sociale

001386104

1-1016 (04-2015)

ıte de qualification	Qualification
2015-11-18	Soudage sur appareils sous pression Classe A Tuyaux 50 mm, catégorie 160-P1-6G, F3-F4

Emploi Québec

Certificat de qualification

Nom de famille
FAUBERT

Prénom
STEVEN

Numéro de dossier
0000000125746

Délivré en vertu de la Loi sur la formation et la qualification professionnelles de la main-d'oeuvre (L.R.Q., chapitre F-5).

Délivré le
2015-11-18

Expire le
2017-11-18

X
Signature

Ministère du Travail, de l'Emploi et de la Solidarité sociale

001139657

034 (07-2009)

Plier ici

Détacher sur le pointillé

Plier ici

Objet : Délivrance de votre certificat de qualification

Date de qualification	Qualification
2015-05-28	Soudage sur appareils sous pression Classe A Tuyaux 50 mm, catégorie 160-P1-6G, F3-F4

Emploi
Québec

Certificat de qualification

Nom de famille
MARTEL

Prénom
SYLVAIN

Numéro de dossier
0000000046942

Délivré en vertu de la Loi sur la formation et la qualification professionnelles de la main-d'oeuvre (L.R.Q., chapitre F-5).

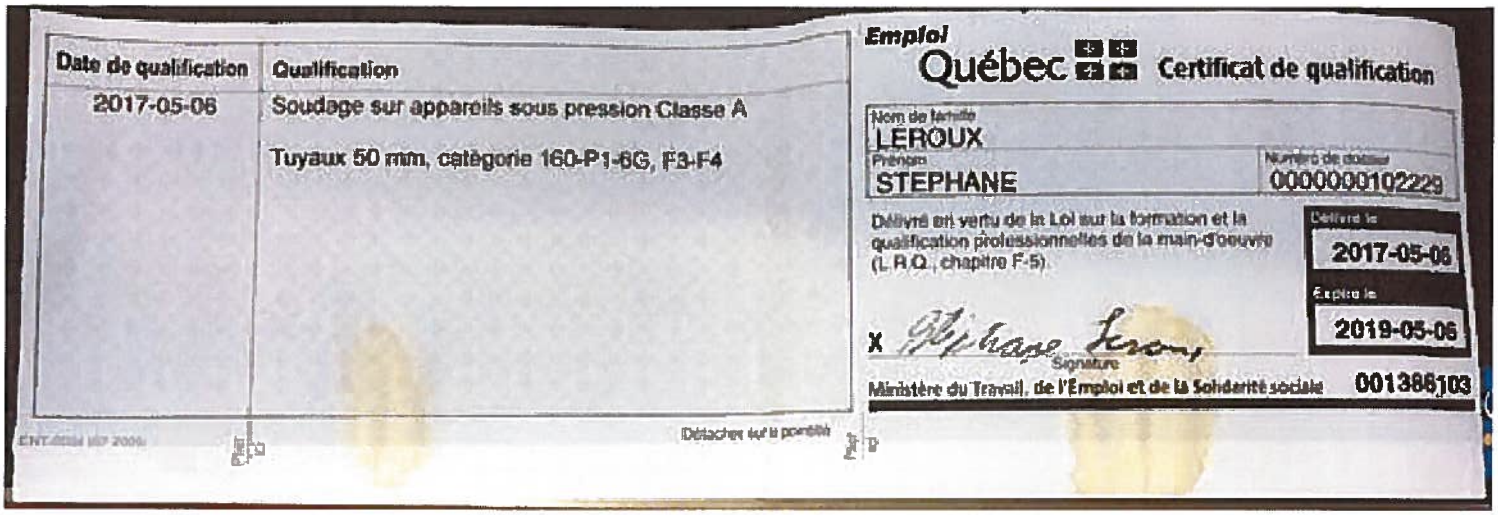
Délivré le
2015-05-28

Expire le
2017-05-28

X Sylvain Martel
Signature

Ministère de l'Emploi et de la Solidarité sociale

001055843



Date de qualification	Qualification
2017-05-06	Soudage sur appareils sous pression Classe A Tuyaux 50 mm, catégorie 160-P1-6G, F3-F4

Détacher sur le pointillé

Emploi Québec

Certificat de qualification

Nom de famille
LEROUX

Prénom
STEPHANE

Numéro de dossier
0000000102229

Délivré en vertu de la Loi sur la formation et la qualification professionnelles de la main-d'oeuvre (L.R.Q., chapitre F-5).

Délivré le
2017-05-06

Expire le
2019-05-06

X Signature

Ministère du Travail, de l'Emploi et de la Solidarité sociale

001386103

Alberta
Municipal Affairs
and Housing

21396

ABSA
the pressure equipment safety authority

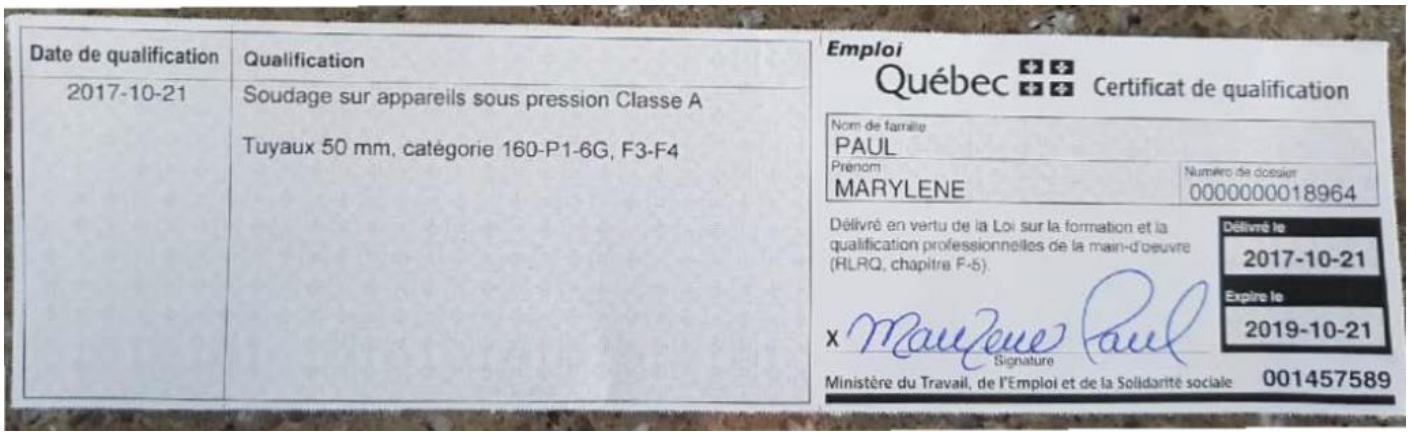
Grade "B" Pressure Welder's Certificate of Competency

This is to certify that **Marylene Paul**
having complied with provisions of the Safety Codes Act, is authorized to engage in pressure welding in accordance with the prescribed Regulations.

Dated at Edmonton
October 04, 2007

W-26448
File no.

Chief Inspector and Administrator



Date de qualification	Qualification
2017-10-21	Soudage sur appareils sous pression Classe A Tuyaux 50 mm, catégorie 160-P1-6G, F3-F4

Emploi Québec — Certificat de qualification

Nom de famille: PAUL

Prénom: MARYLENE

Numéro de dossier: 0000000018964

Délivré en vertu de la Loi sur la formation et la qualification professionnelles de la main-d'oeuvre (RLRQ, chapitre F-5).

Délivré le: 2017-10-21

Expire le: 2019-10-21

x Signature

Ministère du Travail, de l'Emploi et de la Solidarité sociale 001457589

Keyano COLLEGE

Welder Performance Qualification Card

AOQP No. 7121

MARYLENE PAUL — Name

W-26448 — File No.

This card is issued pursuant to the Safety Codes Act and the Pressure Welders Regulation. The performance qualification is in accordance with Section IX of the ASME Code and subject to the limitations on the reverse side.

MARCH 17-2016 — Date of Test

Marylene Paul — Welder's Signature

Louis Boutin — Welding Examiner (Print/type)

CARD No. 8816

Performance Qualification CARD No. 8816

Process(es) SMAW SMAW

Materials (P. No.) [illegible]

Filler Metal (F. No.) F3 F4

Min. Diameter 25mm OD

Max. Deposited Weld Metal 6MM MAX

Position(s) Qualified ALL

Backing OPTIONAL

Backing Gas N/A

Progression UPHILL

[illegible]	[signature]	E[illegible]
PQ Expiry Date	Welding Examiner Signature	File No.

Date de qualification	Qualification
2017-02-11	Soudage sur appareils sous pression Classe A Tuyaux 50 mm, catégorie 160-P1-6G, F3-F4

Emploi Québec **Certificat de qualification**

Nom de famille
GAUTHIER TOURIGNY

Prénom
KEVIN

Numéro de dossier
0000000114581

Délivré en vertu de la Loi sur la formation et la qualification professionnelles de la main-d'oeuvre (L.R.Q., chapitre F-5).

Délivré le
2017-02-11

Expire le
2019-02-11

X
Signature

Ministère du Travail, de l'Emploi et de la Solidarité sociale

001336789

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0017 R: Sub001

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

Agnico-Eagle Mines Ltd.
Inspection Deficiency Report

ITR Number : AEM-GE-ITR-005
Contract no. : C22466T / C22498E

AGNICO EAGLE

Area:	CWP No:
Equipment Tag No:	Inspection Deficiency Report No:
Date:	Page_____ of _____
Reference Drawings:	
Reference Photos:	
Description of Deficiency:	
Suggested Solution:	
Engineering Contact Made: Yes ☐ No ☐ Name:	
Course of Action:	
Engineering Follow-up Required: Yes ☐ No ☐ Date Required:	

Promec's Representative Print Name		Client's Representative Print Name	
Promec's Representative Signature	Date	Client's Representative Signature	Date

6515-C-270-007

Fuel Tanks Piping Supply and Installation

Inspection Deficiency Log

Document Number : AEM-GE-LOG-004
Contract Number : C22466T / C22984E

Number	Description	Initiator	Dept.	Date	Contract No.		Progress Status
Deficiency-001						N/A	
Deficiency-002						N/A	
Deficiency-003						N/A	
Deficiency-004						N/A	
Deficiency-005						N/A	
Deficiency-006						N/A	
Deficiency-007						N/A	
Deficiency-008						N/A	
Deficiency-009						N/A	
Deficiency-010						N/A	
Deficiency-011						N/A	
Deficiency-012						N/A	
Deficiency-013						N/A	
Deficiency-014						N/A	
Deficiency-015						N/A	
Deficiency-016						N/A	
Deficiency-017						N/A	
Deficiency-018						N/A	
Deficiency-019						N/A	
Deficiency-020						N/A	
Deficiency-021						N/A	
Deficiency-022						N/A	
Deficiency-023						N/A	
Deficiency-024						N/A	
Deficiency-025						N/A	
Deficiency-026						N/A	
Deficiency-027						N/A	
Deficiency-028						N/A	
Deficiency-029						N/A	
Deficiency-030						N/A	
Deficiency-031						N/A	
Deficiency-032						N/A	
Deficiency-033						N/A	
Deficiency-034						N/A	
Deficiency-035						N/A	
Deficiency-036						N/A	
Deficiency-037						N/A	
Deficiency-038						N/A	
Deficiency-039						N/A	
Deficiency-040						N/A	

Vendor Document Status

AGNICO EAGLE

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-05-16

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0020 R: Sub001

DOCUMENT FOR INFORMATION

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: JEAN-FRANCOIS TREMBLAY Date: 2017-06-22

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0045 R: Sub002

DOCUMENT FOR INFORMATION

NUQSANA PROMEC MINING

Agnico-Eagle Mines Ltd.
Pressure Test Report

ITR Number : AEM-PI-ITR-001
Contract no. : C22466T

AGNICO EAGLE

Design Code	Design Test Pressure	Test Medium	Medium Temp.	Test Duration

P&ID (Highlight Boundaries)	Rev	Line	Drawing/ISO	Rev	Spool

Pressure Test Specifications

	Contractor	Date (dd-mm-yy)	Client	Date (dd-mm-yy)
Pre-Hydro Inspection				
NDE/PWHT Clearance				
Release for Test				

Test Instruments

	Make/Model	Serial Number	Test Range (psi)	Calibration Date
Upper				
Lower				

Test Data

	Time	Test Pressure	Ambient Temp. (C)	Pipe Temp. (C)	Comments
Start					
Finish					

Comments/Referenced Documents (e.g. applicable field reports):

PRESSURE TEST COMPLETE

Contractor Representative			Client Representative		
Name (Print)	Signature	Date	Name (Print)	Signature	Date

LINE RESTORATION COMPLETE

Contractor Representative			Client Representative		
Name (Print)	Signature	Date	Name (Print)	Signature	Date

ADDITIONAL LINES

P&ID	Rev	Line	Drawing/ISO	Rev	Spool

P&ID	Rev	Line	Drawing/ISO	Rev	Spool

FORM
PRESSURE TEST REPORT

Design Code	Design Test Pressure	Test Medium	Medium Temp.	Test Duration
	100 PSI	Pneumatic	15c	60 min

P&ID (Highlight Boundaries)	Rev	Line	Drawing/ISO	Rev	Spool
See attached			116-150-PDI-CC10-0011	2	Pgs 1-5
			116-150-PDI-CC10-0012	2	1/1

Pressure Test Specifications

	Contractor	Date (dd-mm-yy)	Client	Date (dd-mm-yy)
Pre-Hydro Inspection	Promec	13/07/2018		
NDE/PWHT Clearance				
Release for Test				

Test Instruments

	Make/Model	Serial Number	Test Range (psi)	Calibration Date
Upper	winters	G17-0672	0-300	May 15th 2017
Lower				

Test Data

	Time	Test Pressure	Ambient Temp. (C)	Pipe Temp. (C)	Comments
Start	2h05 P.M.	100PSI	15c	15c	
Finish	3h30 P.M.	100PSI	15c	15c	

Comments/Referenced Documents (e.g. applicable field reports):

PRESSURE TEST COMPLETE

Contractor Representative			Client Representative		
JEAN-SÉBASTIEN LEBLANC FOR Robbie Lamothe	Signature	July 13th 2018	James Cardinal	Signature	July 13th 2018

LINE RESTORATION COMPLETE

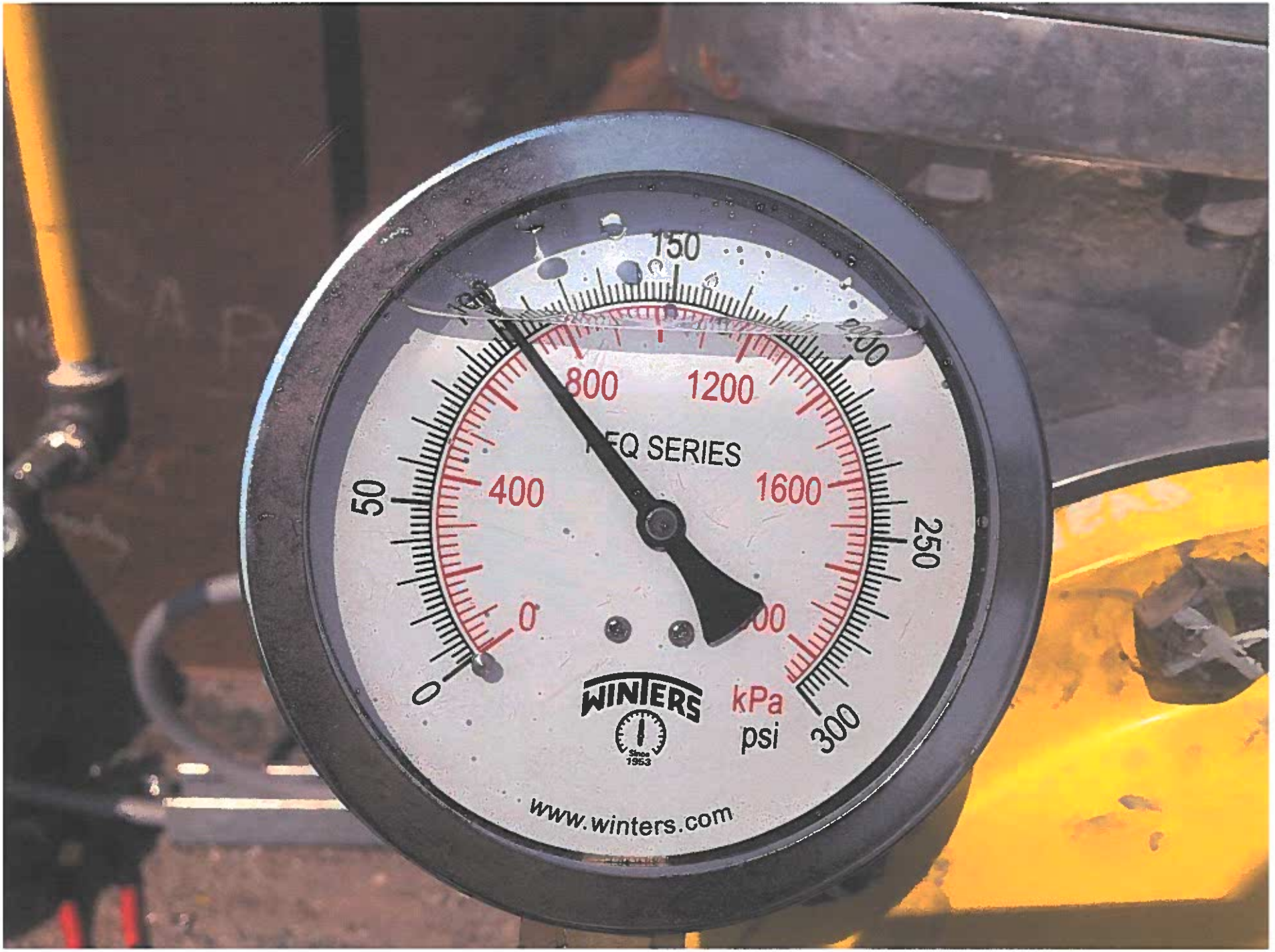
Contractor Representative			Client Representative		
JEAN-SÉBASTIEN LEBLANC, FOR Robert Lamothe	Signature	July 13th 2018	James Cardinal	Signature	July 13th 2018

ADDITIONAL LINES

Prepared by : Stéphane Doré

Approved by : Éric Poulin

Date : 18-04-2018


150
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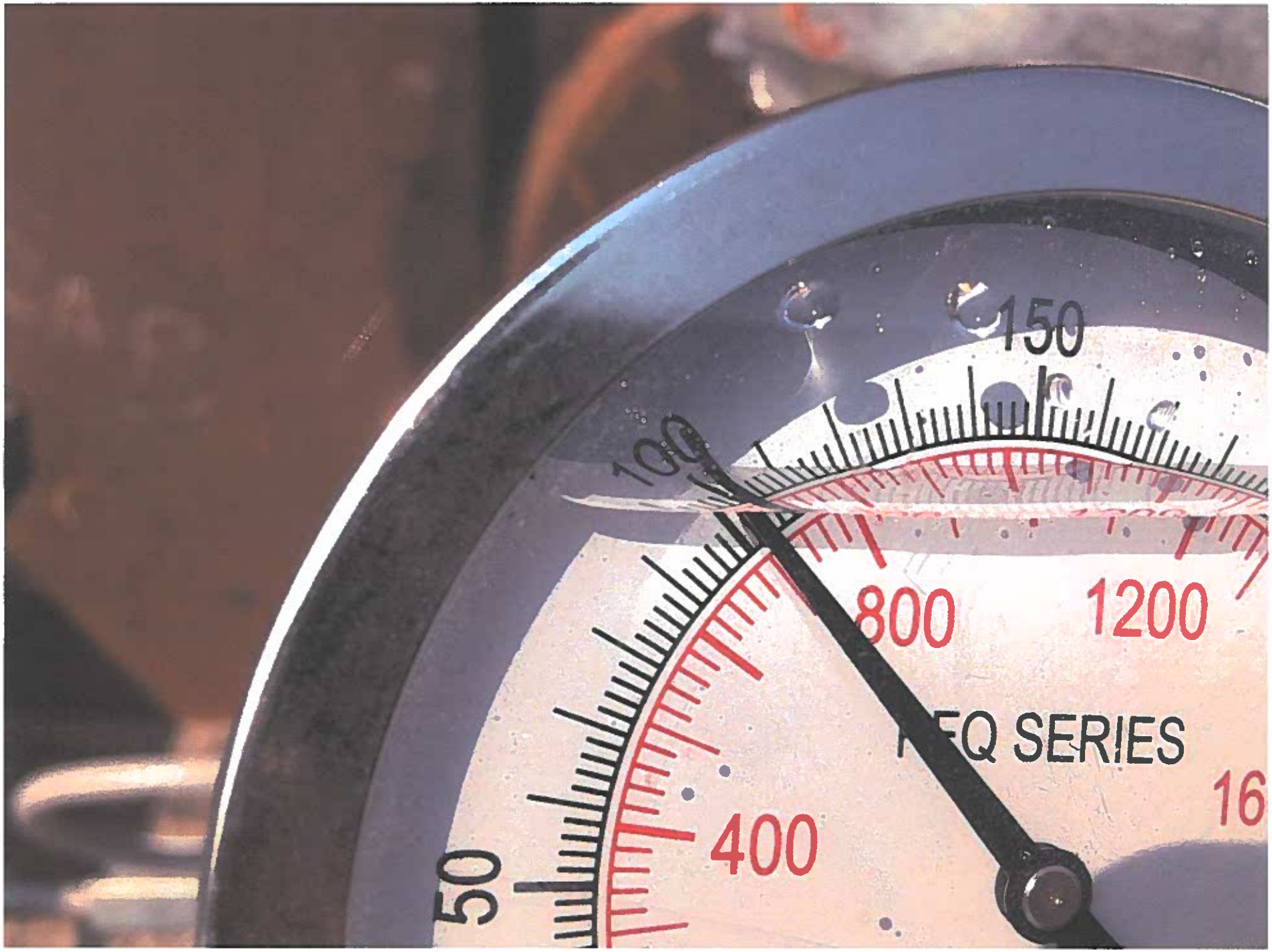
0
300
WINTERS
Since 1953
kPa
psi
www.winters.com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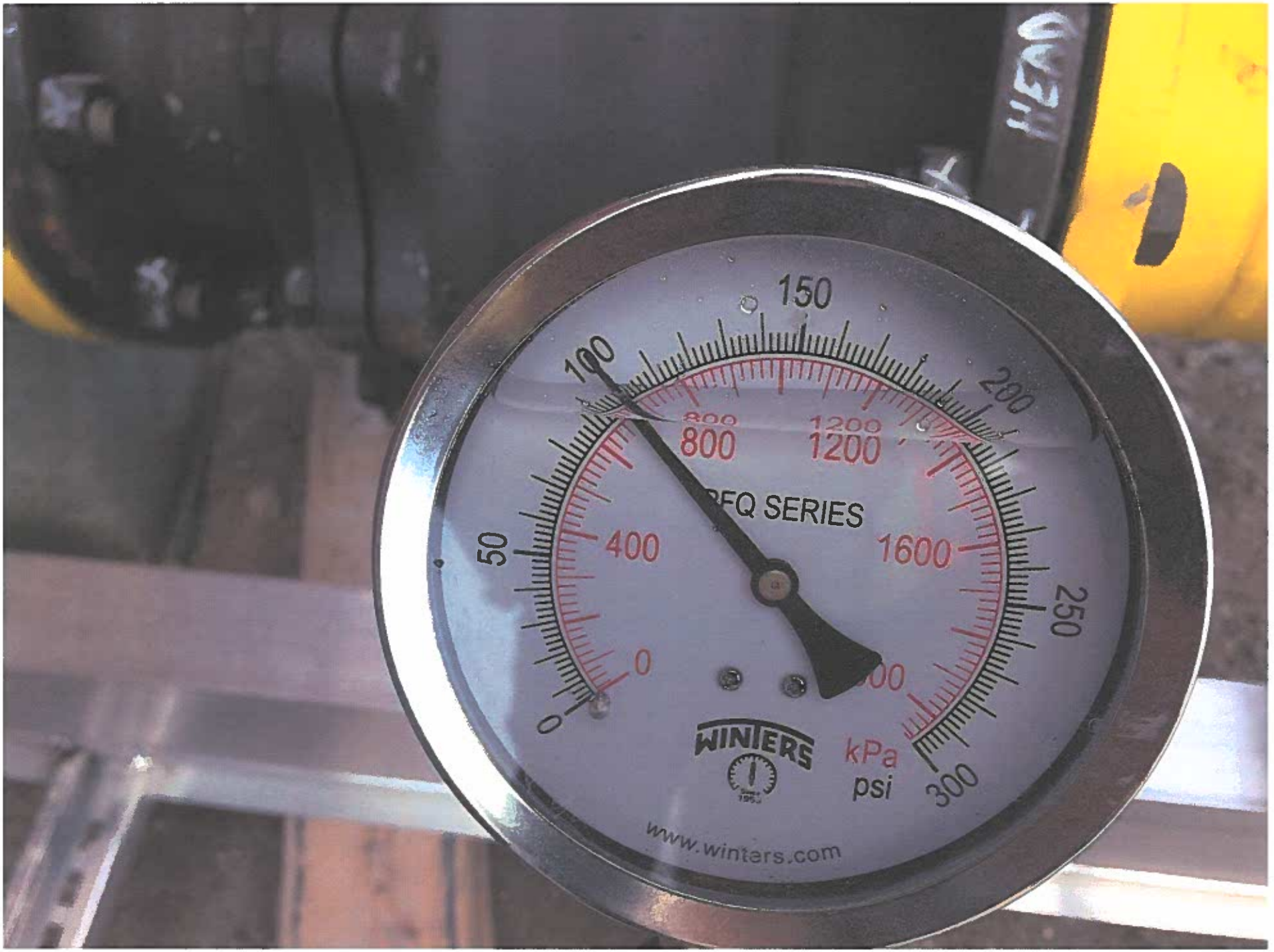
EQ SERIES
16


HEAD
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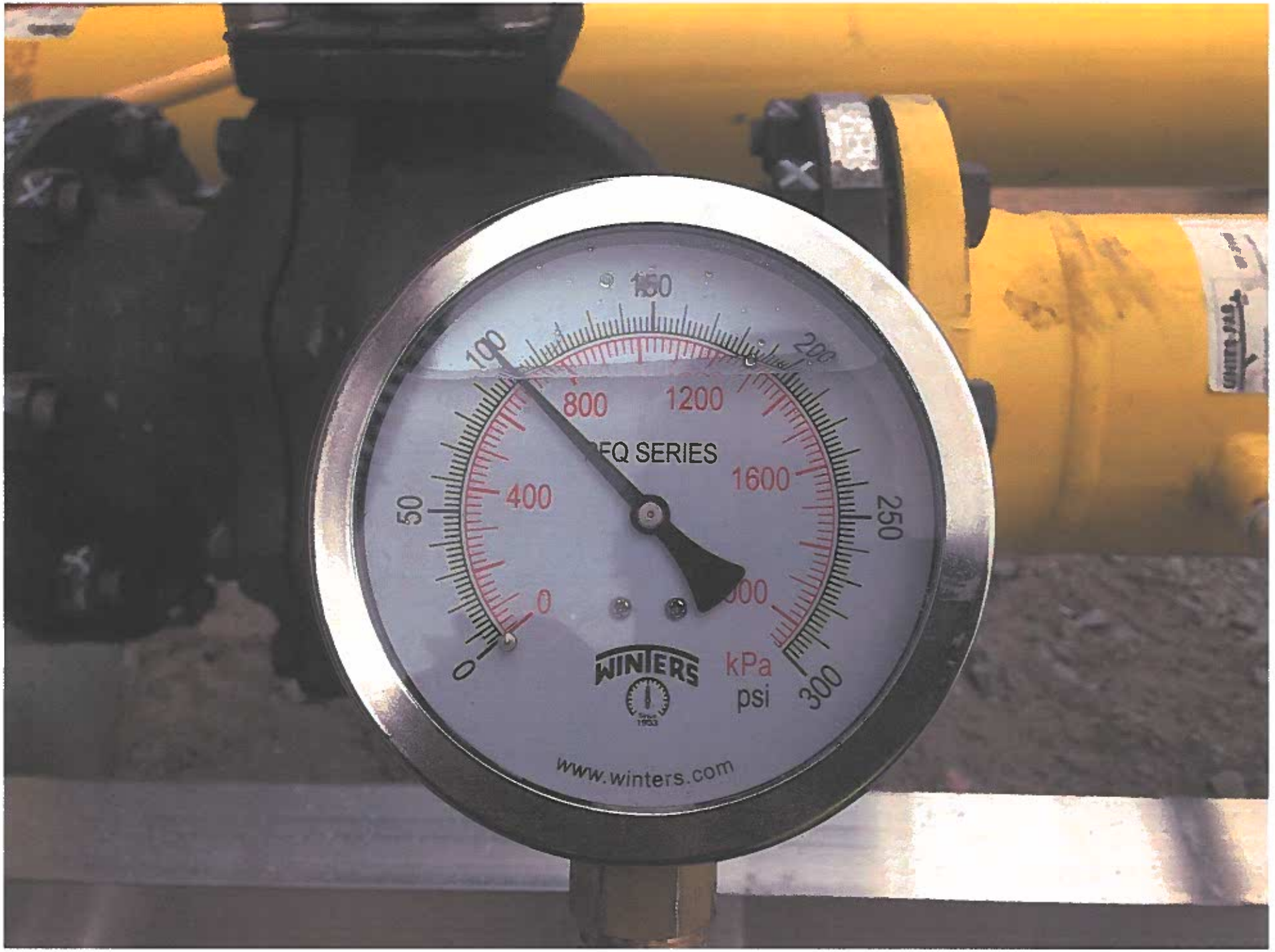
WINTERS
kPa
psi
www.winters.com


150
100
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1200
EQ SERIES
1600
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50
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0
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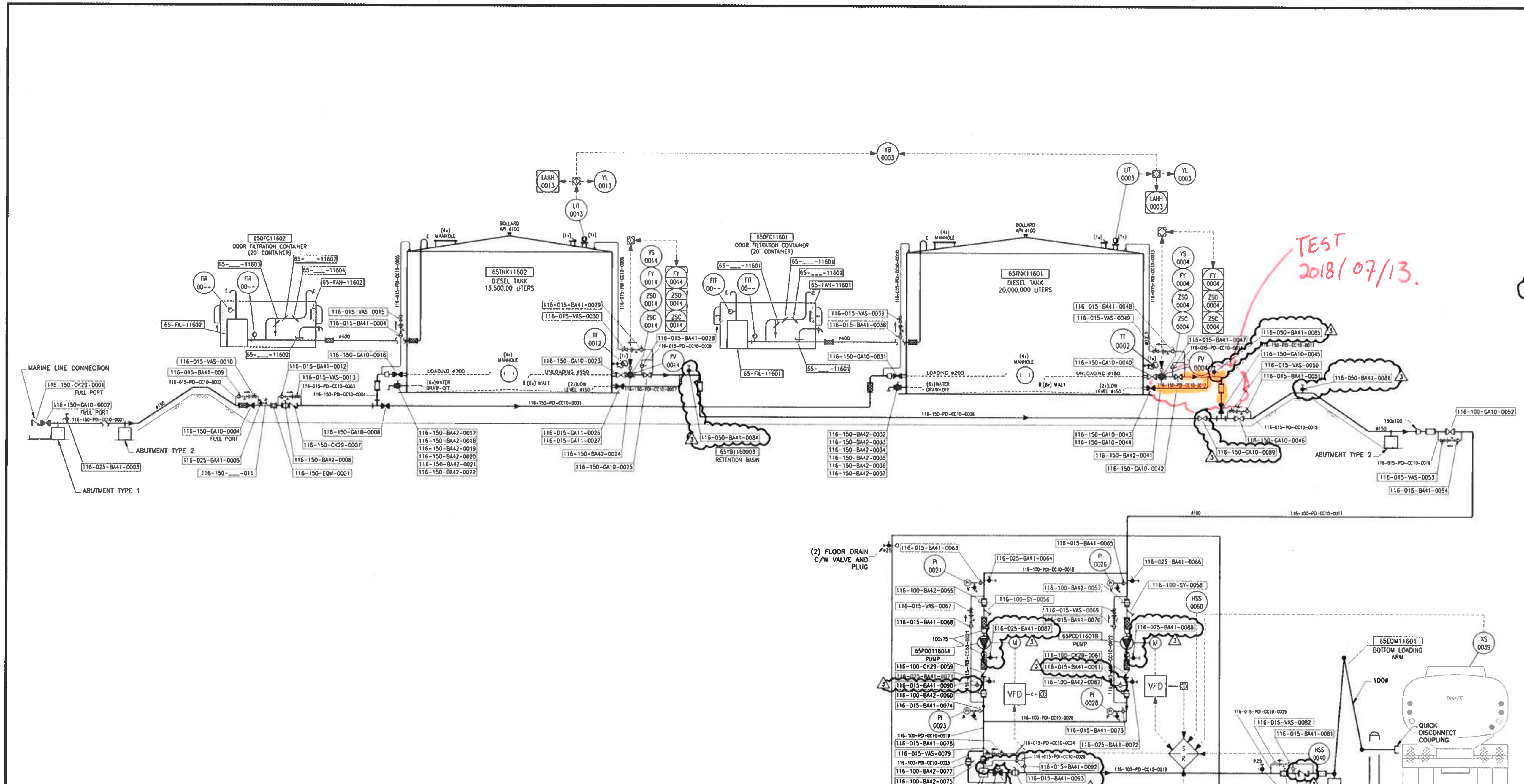
300
WINTERS
kPa
psi
www.winters.com

NO. DESSIN DRAWING NO. 65-116-205-200_R3.dwg

FORMAT ARCHD



LEGEND

PIPING

FLANGED / THREADED	
BALL VALVE	PIG CATCHER
GATE VALVE	FLOW INDICATOR "VISI-FLOW"
PRESSURE RELIEF VALVE	METER c/o STRAINER & BLEEDER
CONTROL VALVE	VALVE-NORMALLY OPEN
MOTORIZED BALL VALVE	VALVE-NORMALLY CLOSED
CHECK VALVE	PIPE DOWN
STRAINER	PIPE UP
FLEXIBLE	PUMP
REDUCER	PRESSURE RELIEF VALVE KIT: PIPING #12.5 SCH 80, PRESSURE RELIEF VALVE (AJUSTED TO 5 PSI UNLESS OTHERWISE SPECIFIED), UNION, T WITH PLUG & BALL VALVE
UNION	
FLANGES	
BLANK FLANGE	PRESSURE GAGE TO VACUM OF POMPE (VACUUM)
CAP	
CONNECTION	PRESSURE GAGE TO DISHARGE OF PUMP (POSITIVE PRESSURE)
	TEMPERATURE PROBE

VERTICAL TANK

- OUTLET
- GAGE HATCH
- RADAR GAGE
- TEMPERATURE SENSOR (OUTLET #19)
- VENT

VENTILATION

- AIR BALANCING KEY
- AIR PRESSURE RELIEF OR BACK-DRAFT DAMPER
- MANUEL FLAP
- AIR FLOW SWITCH

GENERAL

- EXTINGUISHER 20 BC

P&ID

SEE DWG 65-500-205-207

POUR CONSTRUCTION
FOR CONSTRUCTION
AGNICO EAGLE DATE : 2018-04-16

WSP
1075, 3e AVENUE E
VAL-D'OR (QUÉBEC) CANADA J9P 6M1
TÉL. : 1-819-825-4711 | TÉLÉC. : 1-819-825-4715 | WWW.WSPGROUP.COM
Ref. 151-06440-40

NOTES GÉNÉRALES / GENERAL NOTES

1. REPLACE DRAWING : 65-103-205-200
2. EQUIPMENTS NUMBERING AS PER AEM STANDARDS, DOCUMENTS: 0102-000-100-STD-002 & 0102-CDL-02
3. ALL DRAINS TO BE INSTALLED HORIZONTALLY.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT
3	2018-04-16	EQUIPMENTS ADDED	J.M.	D.T.	
2	2017-09-05	NUMBERING OF EQUIPMENTS	J.M.	D.T.	
1	2017-07-20	INSTRUMENTATION ADDED	F.M.G.	L.S.	
0	2017-05-31	ISSUED FOR CONSTRUCTION	J.M.	D.T.	

REVISIONS

REGISTERED PROFESSIONAL ENGINEER D. THIBODEAU LICENCEE 2018-04-19

TITRE / TITLE
AGNICO EAGLE – MELIADINE DIVISION
116 – FUEL TANK FARM
205 – P&ID
FUEL DISTRIBUTION
FLOW DIAGRAM

DESSINÉ PAR DRAWN BY	GHISLAINE CORNUT, tech.	DATE 2017-05-26
VÉRIFIÉ PAR CHECKED BY	JÖEL MORLIÈRE, tech.	2017-05-26
APPROUVÉ PAR APPROVED BY	DENIS THIBODEAU, P. Eng.	2017-05-26
ÉCHELLE SCALE	NONE	DATE 2017-05-26
NO. DESSIN DRAWING NO.	65-116-205-200	
NO. PROJET PROJECT NO. 6515	REVISION 3	FEUILLE / SHT 1 / 1

AE-CART-ARCH D

\\CAMTL1DAT01\projets\2015\1\151-06440-40\Genie Nordique\Dao\65-116-205-200_R3.dwg

FILE NO. 65-116-205-200_R3.dwg

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0015 R: Sub001

DOCUMENT FOR INFORMATION

Fuel Tanks Piping

Supply and Installation

AGNICO EAGLE

Punchlist

Document Number : AEM-GE-ITR-003

Contract Number : C22466T / C22498E

Equipment/System description:

ITEM No	DESCRIPTION	CAT 1	CAT 2	CAT 3	COMMENTS	COMPLETED
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

CAT 1 = Effects commissioning
CAT 2 = Effects operation
CAT 3 = Post operation

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☑ Complete, no further submission required.

By: Jean-Francois Tremblay Date: 2017-05-02

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Agnico Eagle No. 6515-C-270-007-141-TES-0016 R: Sub001

DOCUMENT FOR INFORMATION

Date: _____

To: _____

Project No: _____

Contract No: _____

Contract Title: _____

Contractor: _____

We, _____ (Contractor's Name), the Contractor for the above described contract, hereby certify that we have reviewed the Contract Documents pertaining to:

Contract No.: _____

Contract Name: _____

Partial Completion Certificates: _____

and having physically inspected the Work performed, do hereby file claim for a notice of Final Completion.

I do declare that I am, _____ (Responsible's Name), HAVING AUTHORITY FROM MY COMPANY TO PETITION FOR THE ABOVE REFERRED TO FINAL COMPLETION NOTICE.

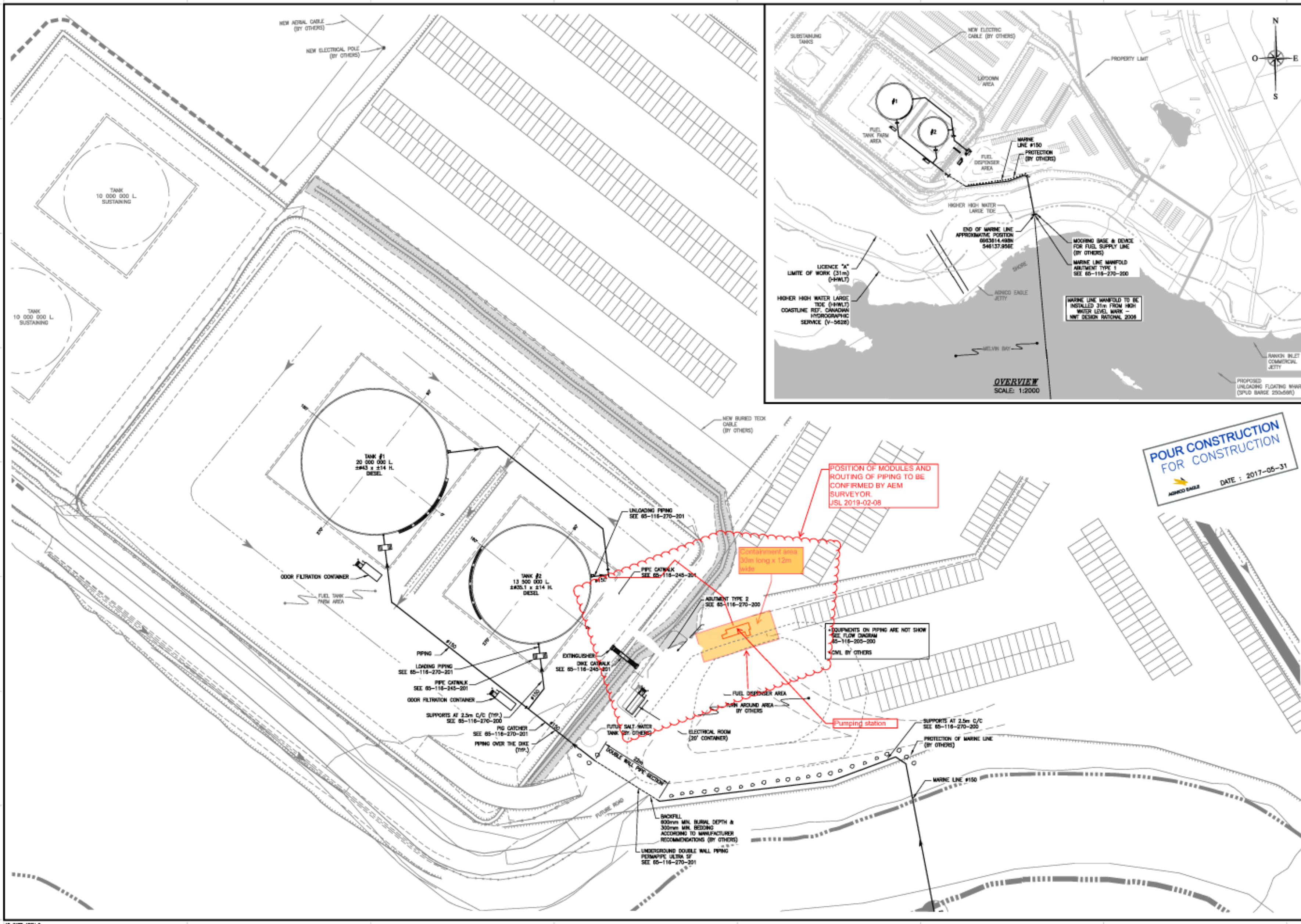
Signature: _____

Name: _____

Title: _____

AS-BUILT DRAWINGS

NO. DESSIN DRAWING NO. 65-116-210-200



WSP

NOTES GÉNÉRALES / GENERAL NOTES

1. TANK DIMENSIONS ADJUSTED ACCORDING TO INFORMATION PROVIDED BY CONTRACTOR
2. REPLACE DRAWING : 65-103-210-200

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

AGNICO EAGLE

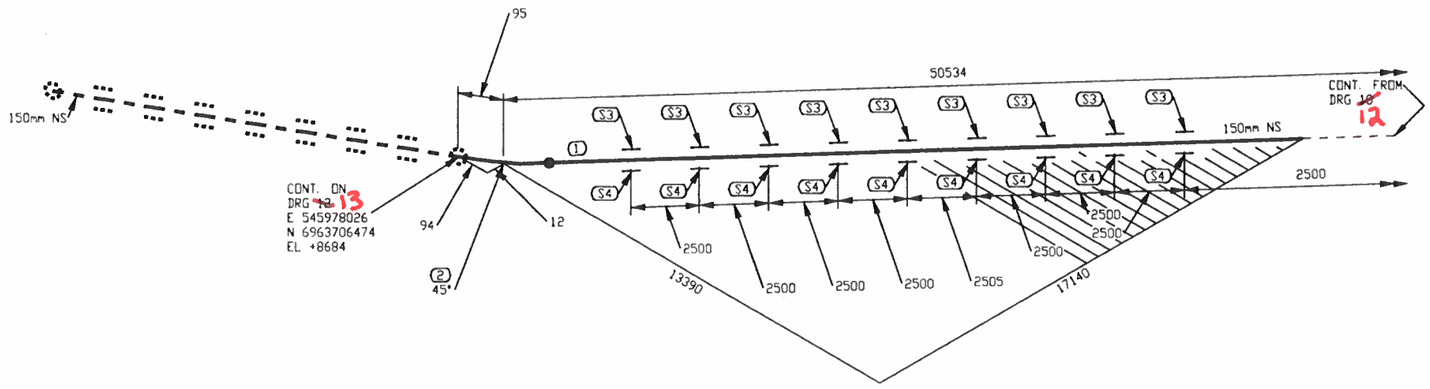
REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT
0	2017-05-31	ISSUED FOR CONSTRUCTION	J.M.	D.T.	

REVISIONS

TITRE / TITLE
AGNICO EAGLE – MELIADINE DIVISION
116 – FUEL TANK FARM
210 – GENERAL ARRANGEMENT
FUEL DISTRIBUTION
PLAN VIEWS

DESSINÉ PAR / DRAWN BY	G. CORNUT	2017-05-29
VÉRIFIÉ PAR / CHECKED BY	J. MORLIÈRE, tech.	2017-05-29
APPROUVÉ PAR / APPROVED BY	D. THIBODEAU, P. Eng.	2017-05-29
ÉCHELLE / SCALE	INDICATED	DATE 2017-05-29
NO. DESSIN / DRAWING NO.	65-116-210-200	
NO. PROJET / PROJECT NO. 6515	RÉVISION 0	FEUILLE / SHT 1/1

FILE NO. 65-116-210-200_R0.dwg



LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	21655 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150	A 420 Gr. WPL6	SCH STD, BW LR 45 DEG ELBOW
3	9	150		PIPE SUPPORT AS PER DETAIL 1, DWG: 65-116-270-200
4	9	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200

PROMEC AS-BUILT
Signature:
Date: 2019/02/08

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
NT/NU
2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VÉR. PAR: –
DATE: –
APP.: –
DATE: –
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
MARINE LINE TO 65TNK11601 & 65TNK11602

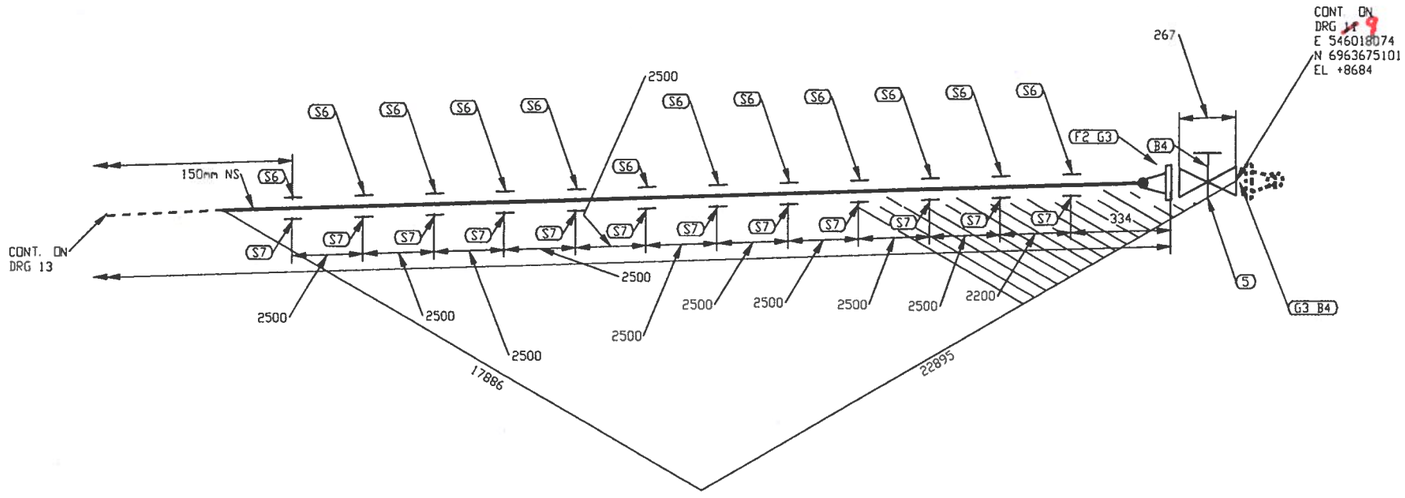
No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0001	11/13	2

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0001		CC10	PDI		–			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

FICHIER: W:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05. Dessins\02. Tuyauterie\02. Isométriques\01. Rankin Inlet\116-150-PDI-CC10-0001-11.DWG

IMPRIMÉ LE: Sep 20, 2017, 2:44pm

116-MN-01



LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	28696 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
3	2	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
4	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
5	1	150	GA-10	CL 150, RF, CS, GATE VALVE
6	12	150		PIPE SUPPORT AS PER DETAIL 1, DWG: 65-116-270-200
7	12	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200

PROMEC AS-BUILT
Signature:
Date: 2019/02/08

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA-PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0001		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
NT/NU
2019/02/2(

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VÉR. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
MARINE LINE TO 65TNK11601 & 65TNK11602

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0001	12/13	2

116-MN-01

FICHIER: W:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05 Dessins\02 Tuyauterie\02 Isométriques\01 Rankin Inlet\116-150-PDI-CC10-0001-12.DWG

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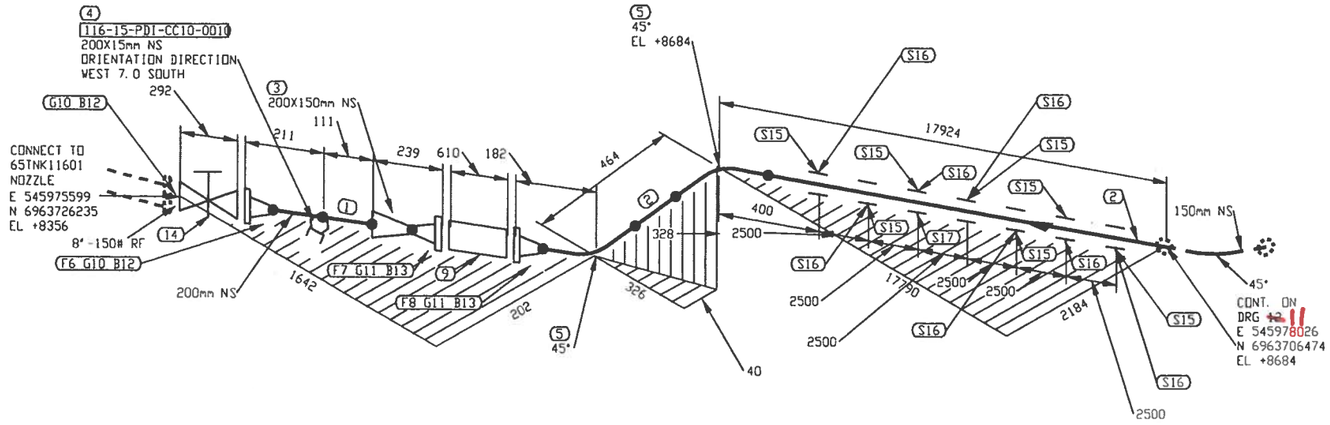


PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	222 MM	200	A 333 Gr. 6	SCH STD, SMLS PIPE
2	18103 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
3	1	200X150	A 420 Gr. WPL6	SCH STD, BW CONC RED
4	1	200X15	A 350 Gr. LF2	CL 3000, THREDOLET
5	2	150	A 420 Gr. WPL6	SCH STD, BW LR 45 DEG ELBOW
6	1	200	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
7	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
8	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
9	1	150		CL 150, SINGLE BRAIDED HOSE ASSEMBLY
10	2	200	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
11	2	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
12	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 110 STUD BOLTS c/w TWO HEAVY HEX NUTS
13	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
14	1	200	GA-10	CL 150, RF, CS, FULL PORT GATE VALVE
15	7	150		PIPE SUPPORT AS PER DETAIL 1, DWG: 65-116-270-200
16	7	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200
17	1	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200

PROMEC
AS-BUILT
Signature:
Date: 2019/02/08

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
NT/NU
2017/04/12

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VÉR. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
MARINE LINE TO 65TNK11601 & 65TNK11602

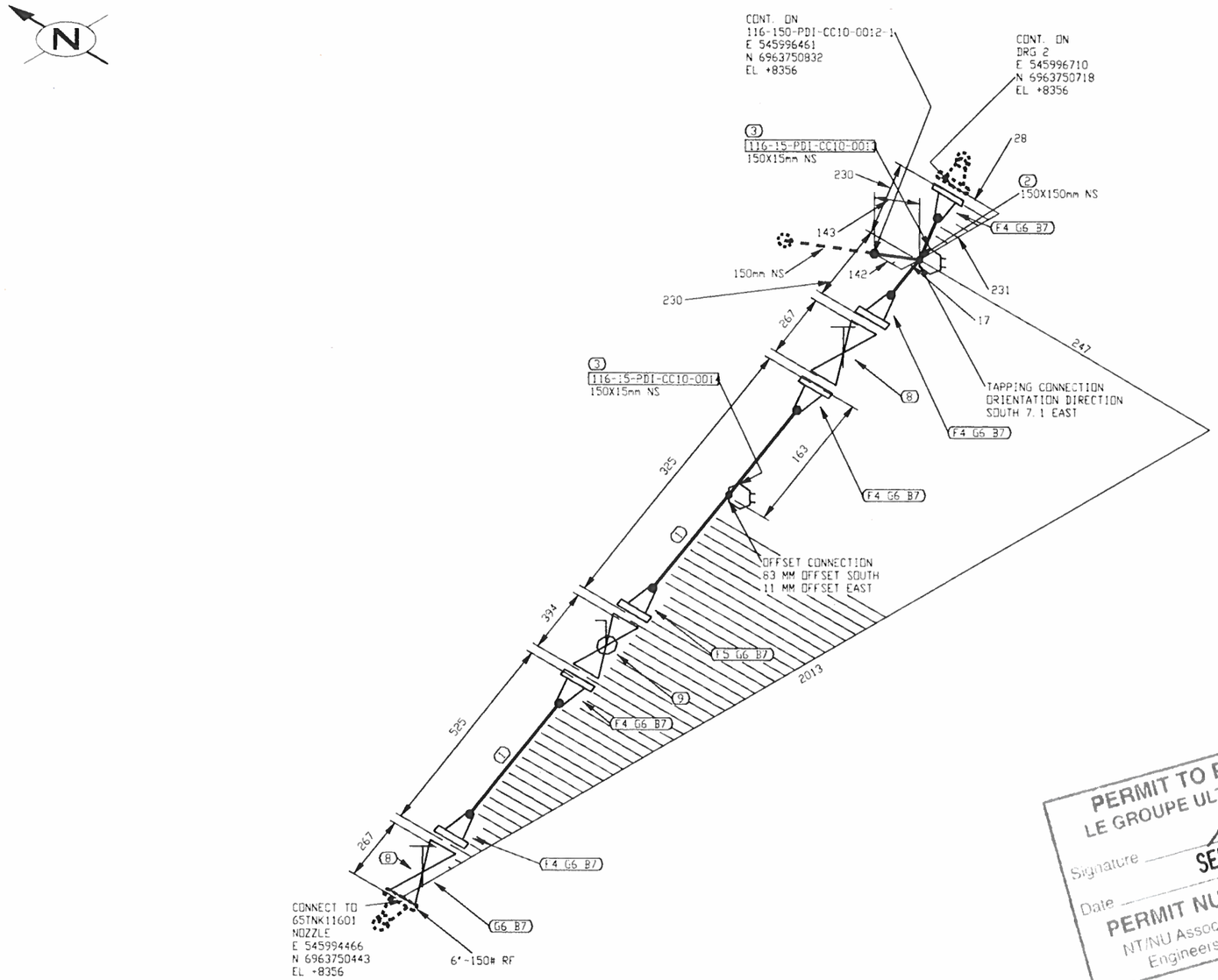
No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0001	13/13	2

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0001		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

FICHIER: W:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05 Dessins\02 Tuyauterie\02 Isométriques\01 Rankin Inlet\116-150-PDI-CC10-0001-13.DWG

IMPRIMÉ LE: Sep 20, 2017, 2:44pm

116-MN-01



PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature _____
Date SEP 21 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	502 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150X150	A 420 Gr. WPL6	SCH STD, BW STRAIGHT TEE
3	2	150X15	A 350 Gr. LF2	CL 3000, THREDOLET
4	5	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
5	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
6	7	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
7	56	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
8	2	150	GA-10	CL 150, RF, GATE VALVE
9	1	150	BA-31	CL 150, RF, BALL VALVE

PROMEC
AS-BUILT
Signature: _____
Date: 2019/02/08

No.	DATE	REVISION	APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0011		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VÉR. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

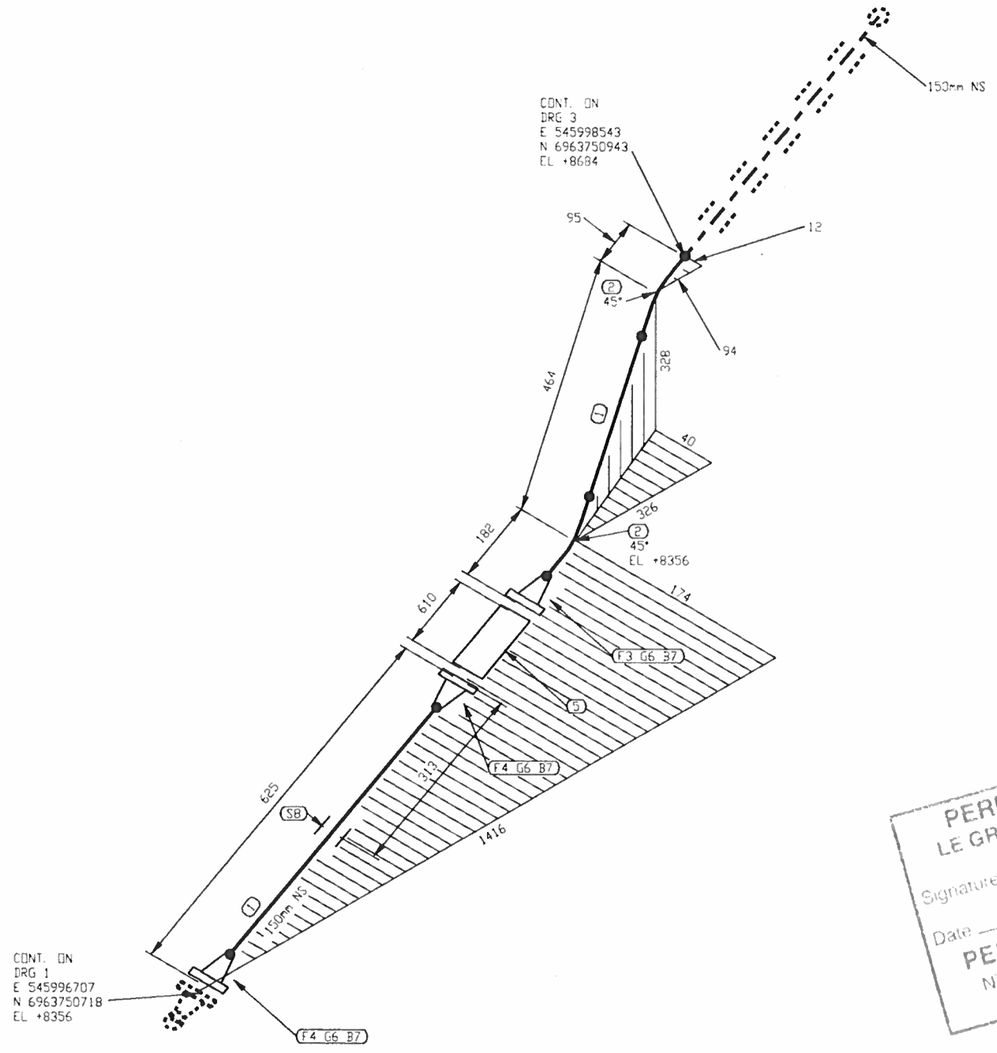
TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	1/5	2

116-MN-01

FICHIER: W:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05- Dessins\02 Tuyauterie\02 Isométriques\01 Rankin Inlet\116-150-PDI-CC10-0011-1.DWG

IMPRIMÉ LE Sep 20, 2017, 2:46pm



LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	725 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	2	150	A 420 Gr. WPL6	SCH STD, BW LR 45 DEG ELBOW
3	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
4	2	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
5	1	150		CL 150, SINGLE BRAIDED HOSE ASSEMBLY
6	3	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
7	24	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
8	1	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200

PROMEC AS-BUILT
Signature:
Date: 2019/02/08

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 2 1 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
(NT/NU)
2017/09/21

CONC.: KHV DATE: 2017/04/25
DESSINÉ PAR: KVE DATE: 2017/04/25
VÉR. PAR: - DATE: -
APP.: - DATE: -
ÉCHELLE: AUCUNE

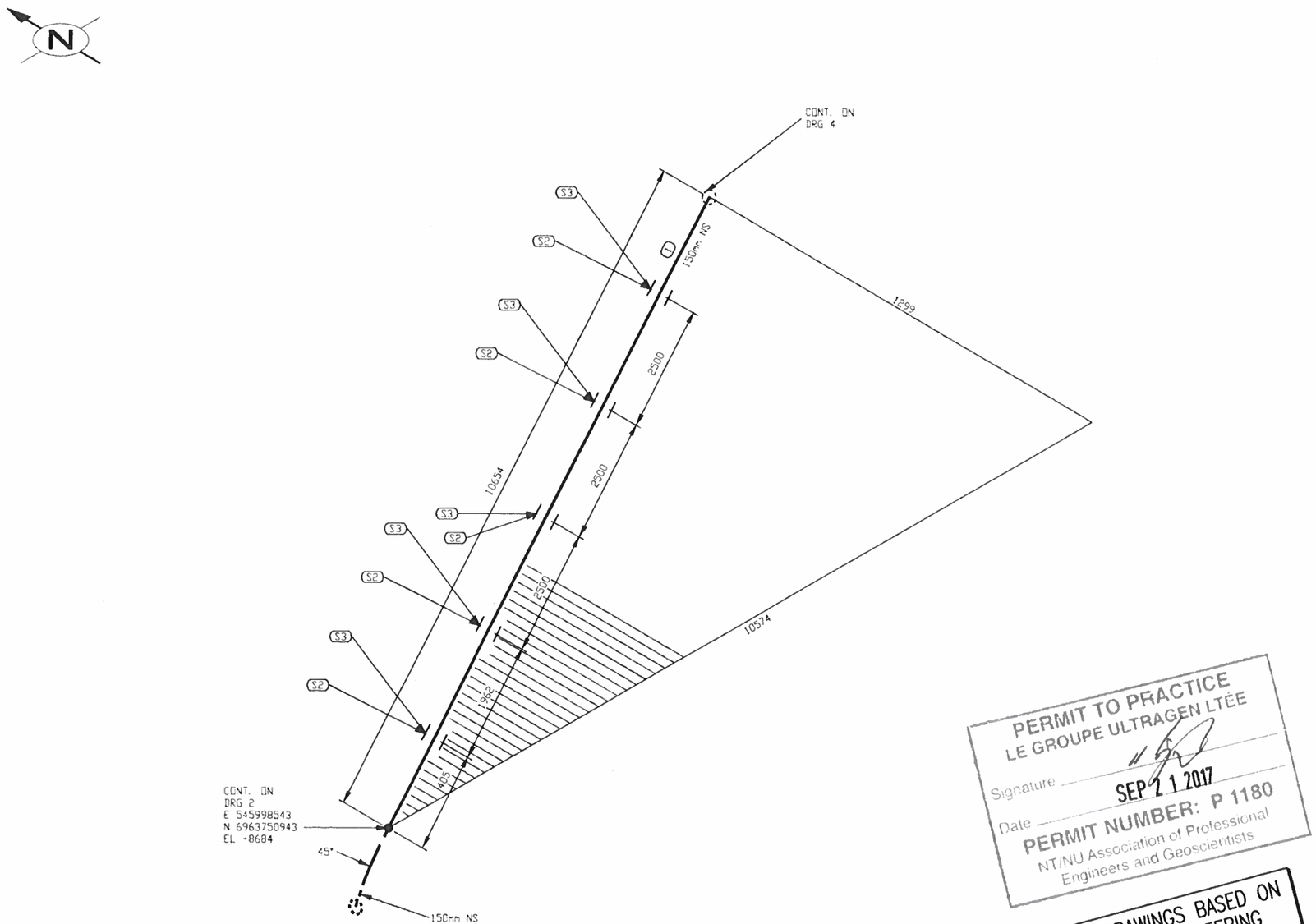
PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	2/5	2

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0011		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

116-MN-01



LISTE DE MATERIEL

No.	QTE.	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	10654 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	5	150		PIPE SUPPORT AS PER DETAIL 1, DWG: 65-116-270-200
3	5	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200

PROMEC AS-BUILT
Signature:
Date: 2019/02/08

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 2 1 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

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CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0011		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
2017/09/21

CONC.: KHV DATE: 2017/04/25
DESSINÉ PAR: KVE DATE: 2017/04/25
VÉR. PAR: - DATE: -
APP.: - DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	3/5	2

116-MN-01

FICHIER: W:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05 Dessins\02 Tuyauterie\02 Isométriques\01 Rankin Inlet\116-150-PDI-CC10-0011-3.DWG

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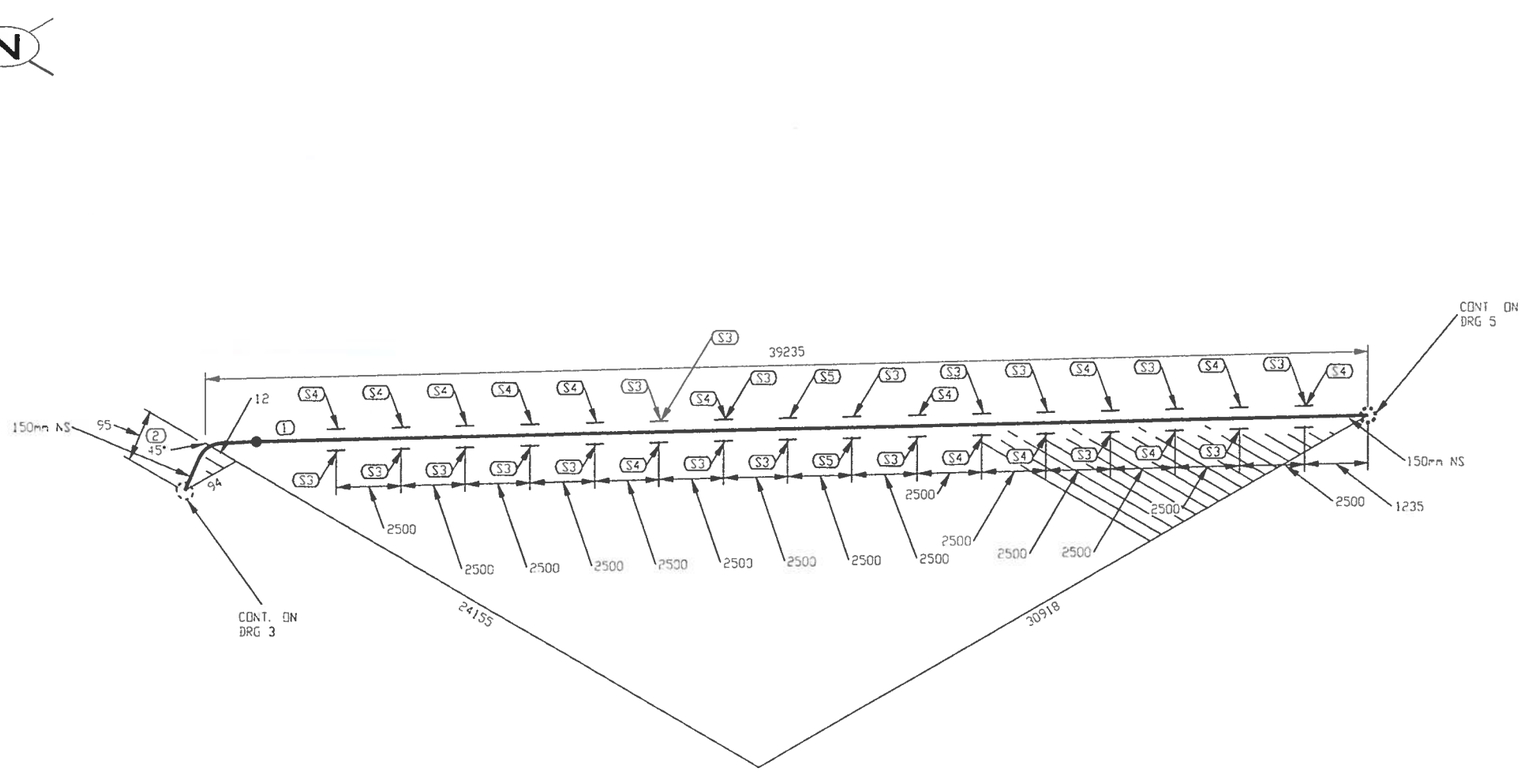


LISTE DE MATERIEL

No.	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	39140 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150	A 420 Gr. WPL6	SCH STD, BW LR 45 DEG ELBOW
3	18	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200
4	14	150		PIPE SUPPORT AS PER DETAIL 1, DWG: 65-116-270-200
5	2	150		PIPE SUPPORT AS PER DETAIL 3, DWG: 65-116-270-200

PROMEC AS-BUILT
Signature:
Date: 2019/02/08

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 2 1 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D TRUONG
LICENSEE
NT/NU
2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VÉR. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

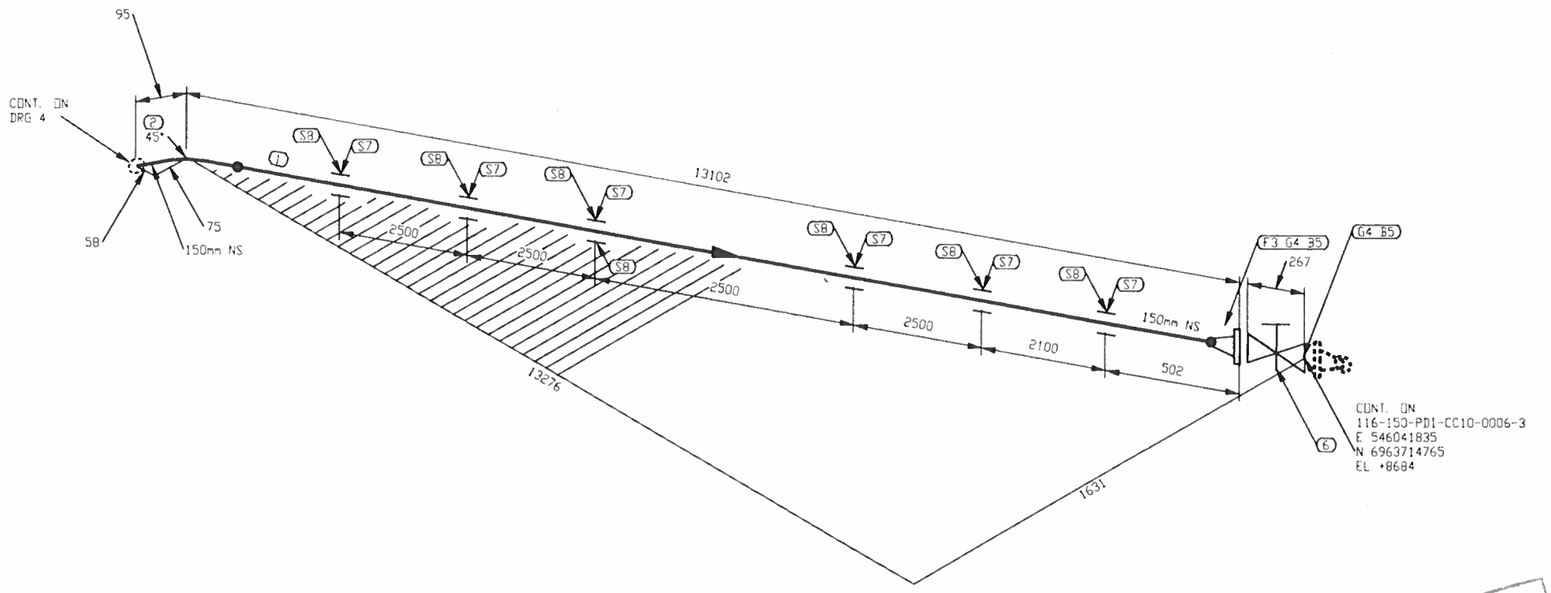
No PROJET	No DESSIN	PAGES	REV.
6515	116-150-PDI-CC10-0011	4/5	2

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0011		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

IMPRIMÉ LE: Sep 20, 2017, 2:46pm

FICHIER: W:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05. Dessins\07 Tuyauterie\02 Isométriques\01. Rankin Inlet\116-150-PDI-CC10-0011-4.DWG

116-MN-01



LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	12919 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150	A 420 Gr. WPL6	SCH STD, BW LR 45 DEG ELBOW
3	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
4	2	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
5	16	19	A 193 B7/A 194 2H	CL 150, B - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
6	1	150	GA-10	CL 150, RF, GATE VALVE
7	6	150		PIPE SUPPORT AS PER DETAIL 1, DWG: 65-116-270-200
8	7	150		PIPE SHOE AS PER DETAIL 2, DWG: 65-116-270-200

PROMEC AS-BUILT
Signature:
Date: 2019/02/08

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 2 1 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VÉR. PAR: -
DATE: -
APP.: -
DATE: -
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

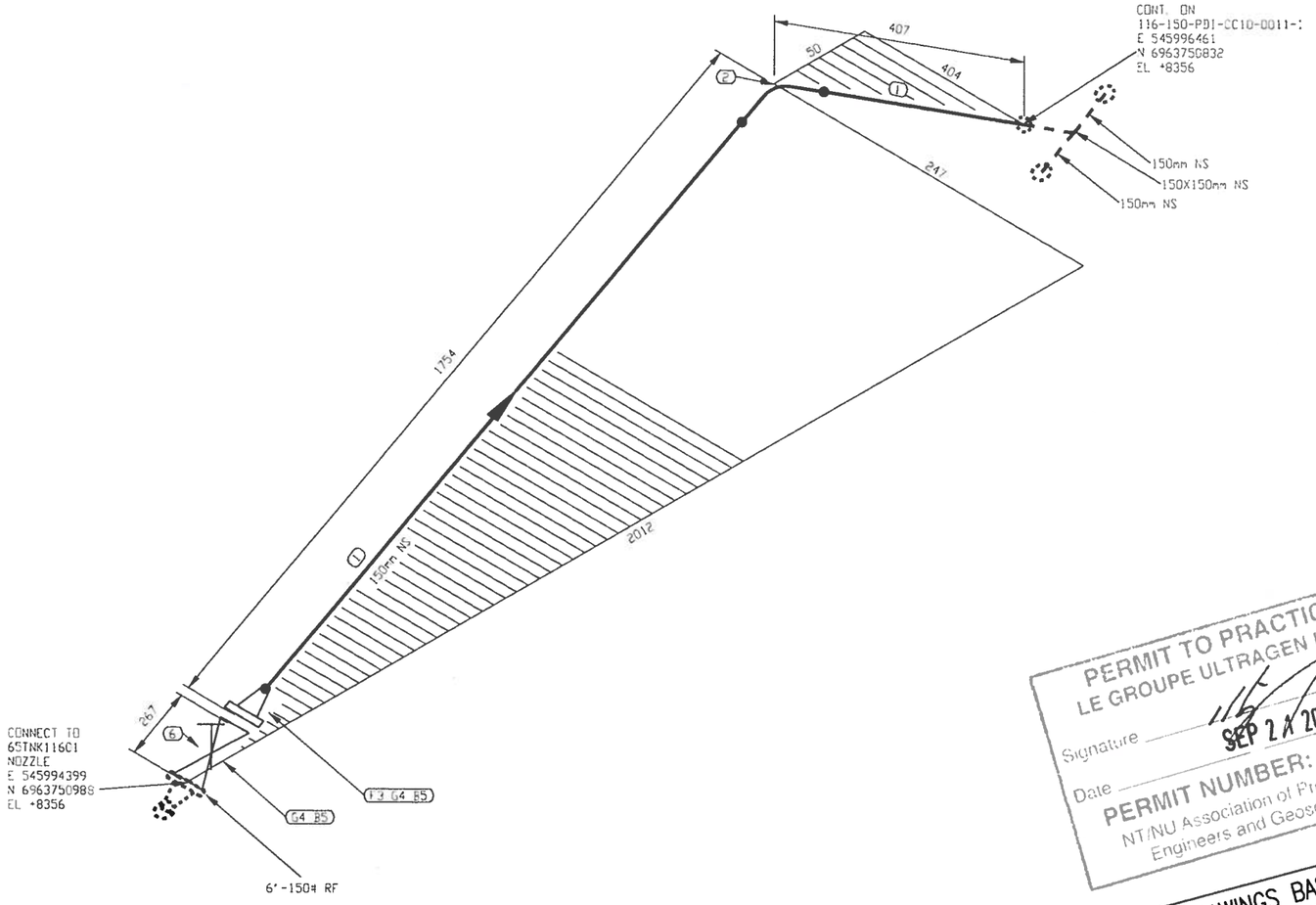
No PROJET	No DESSIN	PAGES	RÉV.
6515	116-150-PDI-CC10-0011	5/5	2

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0011		CC10	PDI		-			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

FICHIER W:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05. Dessins\07 Tuyauterie\02 Isométriques\01 Rankin Inlet\116-150-PDI-CC10-0011-5.DWG

IMPRIMÉ LE: Sep 20, 2017, 2:46pm

116-MN-01



LISTE DE MATERIEL

No	QTE	DIA	MATERIEL/CATALOGUE	DESCRIPTION
1	1616 MM	150	A 333 Gr. 6	SCH STD, SMLS PIPE
2	1	150	A 420 Gr. WPL6	SCH STD, BW LR 90 DEG ELBOW
3	1	150	A 350 Gr. LF2	CL 150, SCH STD, RF, WN FLANGE
4	2	150	ASME B16.20	CL 150, GARLOCK 5500, RING TYPE GASKET 1/8" THK
5	16	19	A 193 B7/A 194 2H	CL 150, 8 - 19.05 X 100 STUD BOLTS c/w TWO HEAVY HEX NUTS
6	1	150	GA-10	CL 150, RF, GATE VALVE

PROMEC AS-BUILT
Signature:
Date: 2019/02/08.

PERMIT TO PRACTICE
LE GROUPE ULTRAGEN LTÉE
Signature
Date SEP 2 1 2017
PERMIT NUMBER: P 1180
NT/NU Association of Professional Engineers and Geoscientists

FABRICATION DRAWINGS BASED ON WSP CERTIFIED ENGINEERING

No.	DATE	REVISION	PAR / APP.
2	2017/09/21	PROJECT TITLE REVISED	KHV
1	2017/09/11	LINE NUMBERS REVISED	KHV
0	2017/05/15	ISSUED FOR CONSTRUCTION	KHV

CLIENT: AGNICO EAGLE

NUQSANA PROMEC MINING

ultragen

CONSULTANT PROJECT NO. 591700

NO. DE CONDUITE		SPECIFICATION	PRODUIT	SYSTEME REVETEMENT	CODE DE COULEUR	ISOLATION ET TRACAGE	EPAISS. D'ISOLATION		
116-150-PDI-CC10-0012		CC10	PDI		–			65-116-270-200	PIPE SUPPORT DETAILS
PRESSION D'OPERATION	TEMPERATURE D'OPERATION	PRESSION DE CONCEPTION	TEMPERATURE DE CONCEPTION	PRESSION D'ESSAI	CLASSE D'INSPECTION	CODE DE SERVICE	TRAITEMENT THERMIQUE	65-116-205-200	P&ID
PSIG	°F	PSIG	°F	PSIG				No. DESSIN	DESSINS DE REFERENCE

SCEAU PROFESSIONNEL
REGISTERED PROFESSIONAL ENGINEER
D. TRUONG
LICENSEE
2017/09/21

CONC.: KHV
DATE: 2017/04/25
DESSINÉ PAR: KVE
DATE: 2017/04/25
VÉR. PAR: –
DATE: –
APP.: –
DATE: –
ÉCHELLE: AUCUNE

PROJET: AGNICO EAGLE - MELIADINE DIVISION
116 - FUEL TANK FARM

TITRE: RANKIN INLET
FABRICATION ISOMETRIC
DIESEL FROM 65TNK11601 TO PUMPING STATION

No PROJET	No DESSIN	PAGES	RÉV.
6515	116-150-PDI-CC10-0012	1/1	2

116-MN-01

F:\CHER\ W:\Agnico Eagle\Meliadine\591700 (Fuel Distribution)\05. Dessins\02. Isométriques\01. Rankin Inlet\116-150-PDI-CC10-0012-1.DWG

IMPRIMÉ LE: Sep 20, 2017, 2:46pm

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ☐ Complete, no further submission required.

By: Date:

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-QCR-0008 R: Sub001

DOCUMENT FOR INFORMATION

AGNICO-EAGLE MINES

Contract No. 6515-C-270-007

22466T / 22498E

Rankin Inlet Tank #1

ELECTRICITY AND INSTRUMENTATION

Quality Control Documents

AGNICO EAGLE

Vendor Document Status

1 ☐ Proceed to next submission and status.

2 ☐ Proceed with exceptions as noted to next submission and status.

3 ☐ Do not proceed.
Revise as noted and resubmit next submission and status.

4 ■ Complete, no further submission required.

By: LUC SÉNÉCAL Date: 2017-07-10

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0007 R: Sub002

DOCUMENT FOR INFORMATION

Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title:	Meliadine Fuel Tanks Piping Supply and Installation	**ITP #**	**AEM-ITP-003**
Contract number:	6515-C-270-007	**Area**	**rankin inlet**
Promec Ref.:	C22498E	**System**	**ALL**
		Discipline	**Electrical Instrumentation**
Approved on :	_____	**Approval Signature**	
Approved by:	_____		

Updated on: 2017-04-26

Legend

H - Hold
W - Witness
I - Inspect
R - Review

Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	Acceptance Criteria (Specifications, Drawings, Industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	Verification Point				Verification Document(s) 1. List ONLY the Form(s) applicable to installation. 2. ▲ Commissioning Required Document
				Contractor		Client		
				H W I R	Initials & Date	H W I R	Initials & Date	
1.0	**GENERAL**							
1.1	Inspection and Test Plan	Promec / CLIENT		H/R				Approved ITP
1.2	Document review (Acquire and review all applicable documentation)	Promec / CLIENT	Quality Plan	H/R				
1.3	Procedures Submitted and Approved (Cable Installation, Testing, etc.)	Promec / CLIENT	Quality Plan	H/R				All Applicable Approved Procedures
1.4	Drawing Index (IFC) to Latest Revision	Promec	Quality Plan	I/R				VDRL
2.0	**ITP SPECIFIC**							
2.1	Non-Conformance Report & Log (Both CLIENT & Contractor Issued)	Promec / CLIENT	Quality Plan	H/R				AEM-GE-ITR-002 (Non-Conformance Report) ▲ AEM-GE-LOG-002 (Non-Conformance Log)
2.2	Inspect Material/Equipment for Damages or Deficiencies	Promec	Quality Plan	I/R				AEM-GE-ITR-005 (Inspection Deficiency Report) ▲ AEM-GE-LOG-004 (Inspection Deficiency Log)

Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title:	Meliadine Fuel Tanks Piping Supply and Installation	**ITP #**	**AEM-ITP-003**
Contract number:	6515-C-270-007	**Area**	**rankin inlet**
Promec Ref.:	C22498E	**System**	**ALL**
		Discipline	**Electrical Instrumentation**
Approved on :	_____	**Approval Signature**	
Approved by:	_____		

Updated on: 2017-04-26

Legend

H - Hold
W - Witness
I - Inspect
R - Review

Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	Acceptance Criteria (Specifications, Drawings, Industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	Verification Point				Verification Document(s) 1. List ONLY the Form(s) applicable to installation. 2. ▲ Commissioning Required Document
				Contractor		Client		
				H W I R	Initials & Date	H W I R	Initials & Date	
3.0	**Electrical & Instrumentation**							
3.1	All Certified Test Records • Fire Alarm Cert's - (Engineer's Stamp; Vendor Test Documents) • CSA Approval Documentation	Promec / CLIENT	AEM-IN-PRO-001 (Instrumentation Installation and Testing Procedure)	I/R				▲Third Party Document
3.2	Electrical Equipment Installation Inspection Record	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	W/R				AEM-EL-ITR-001 (General Report)
3.3	Distribution Panel Inspection & Test Record	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	W/R				AEM-EL-ITR-001 (General Report)
3.4	Distribution Transformer Field Inspection Test Record	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	W/R				AEM-EL-ITR-001 (General Report)
3.5	PCR Installation and Inspection	Promec / CLIENT	AEM-IN-PRO-001 (Instrumentation Installation and Testing Procedure)	W/R				AEM-IN-ITR-005A (PCR Panel Report)
3.6	Heating Device Installation Record	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	I/R				AEM-EL-ITR-002 (Heating Unit Report)
3.7	Cable tray Inspection Record	Promec / CLIENT	AEM-EL-PRO-003 (Cable Tray Installation Procedure)	I/R				AEM-GE-ITR-006 (Miscellaneous Field Report)
3.8	Power/Control Cables Installation Test Record	Promec / CLIENT	AEM-EL-PRO-001 (Cable Installation and Testing Procedure)	W/R				AEM-EL-ITR-003 (Megger Cable Report) AEM-EL-ITR-004 (Continuity Test Report)
3.9	Low Voltage Cable Installation Test Record	Promec / CLIENT	AEM-EL-PRO-001 (Cable Installation and Testing Procedure)	W/R				AEM-EL-ITR-003 (Megger Cable Report)

Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title: Meliadine Fuel Tanks Piping Supply and Installation
Contract number: 6515-C-270-007
Promec Ref.: C22498E

Approved on : _____
Approved by: _____

Approval Signature

ITP # AEM-ITP-003
Area rankin inlet
System ALL
Discipline Electrical Instrumentation

Updated on: 2017-04-26

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Activity No. and CDRL Code	Activity Description (Per Scope of Work)	Responsibility Contractor and/or Sub	Acceptance Criteria (Specifications, Drawings, Industry Code, Regulatory Authority, Manufacturers O&M manual, Controlling Procedure, Quality/Engineering Bulletins, Other/ Site Quality Plan, Contractor Quality Manuals, etc.)	Verification Point				Verification Document(s) 1. List ONLY the Form(s) applicable to installation. 2. ▲ Commissioning Required Document
				Contractor		Client		
				H W I R	Initials & Date	H W I R	Initials & Date	
3.10	Instrument Cable Installation Test Record	Promec / CLIENT	AEM-EL-PRO-001 (Cable Installation and Testing Procedure)	I/R				AEM-EL-ITR-004 (Continuity Test Report)
3.11	Grounding System (Grid & Pile Grounds) Installation Inspection and Test Record	Promec / CLIENT	AEM-EL-PRO-002 (Grounding Installation and Testing Procedure)	H/R				AEM-GE-ITR-006 (Miscellaneous Field Report)
3.12	Branch cct Test Record (Lights, Receptacles, Heaters, etc.)	Promec / CLIENT	(Instrumentation Installation and Testing Procedure)	I/R				AEM-EL-ITR-001 (General Report)
3.13	Fire Alarm Panel and Device Installation Record	Promec / CLIENT	(Instrumentation Installation and Testing Procedure)	I/R				AEM-EL-ITR-001 (General Report)
3.14	Instrumentation Installation Test Record (Powered Instruments)	Promec / CLIENT	(Instrumentation Installation and Testing Procedure)	W/I/R				AEM-IN-ITR-003A (Level Transmitter) AEM-IN-ITR-004C (Pressure Switch) AEM-IN-ITR-006A (On/Off Valve) AEM-IN-ITR-001B (Flow Switch) AEM-IN-ITR-001C (Flow Transmitter) AEM-IN-ITR-002A (Push Button Station) AEM-IN-ITR-007 (Miscellaneous Instruments)
3.15	Instrumentation Installation Test Record (Non-powered instruments)	Promec / CLIENT	AEM-IN-PRO-001 (Instrumentation Installation and Testing Procedure)	I/R				AEM-IN-ITR-004A (Pressure Indicator) AEM-IN-ITR-004B (Pressure Safety Valve)

Inspection and Testing Plan

NUQSANA PROMEC MINING

AGNICO EAGLE

Contract title: Meliadine Fuel Tanks Piping Supply and Installation
Contract number: 6515-C-270-007
Promec Ref.: C22498E

Approved on : _____
Approved by: _____

Approval Signature

ITP # AEM-ITP-003
Area rankin inlet
System ALL
Discipline Electrical Instrumentation

Updated on: 2017-04-26

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				Contractor		Client		
				H W I R	Initials & Date	H W I R	Initials & Date	
3.16	Motor/Install/Megger/Rotation Test and Polarization Records	Promec / CLIENT	AEM-EL-PRO-004 (Electrical Apparatus Equipment and Support Installation Procedure)	W/R				AEM-EL-ITR-005 (Motor Report)
3.17	Instrument Loop Test (Pre-Commissioning / Commissioning Activity	Promec / CLIENT	(Instrumentation Installation and Testing Procedure)	I/R				AEM-GE-ITR-006 (Miscellaneous Field Report)
4.0	**FINAL TURNOVER**							
4.1	Construction Completion (Contractor Punchlist & Joint Walkdown Punchlist)	Promec / CLIENT	Quality Plan	H/R				▲ AEM-GE-ITR-003 (Punchlist)
4.2	Final Acceptance of Turnover Package	Promec / CLIENT	Quality Plan	H/R				Signed ITP History Docket
4.3	Declaration of Completion	Promec	Quality Plan	H/R				AEM-GE-ITR-004 (Notice of Final Completion)
4.4	As-Built Drawings	Promec	Quality Plan	H/R				All Required As-Built Drawings
END								

PROMEC's Representatives			CLIENT's Representative	
QA/QC	Project Manager			
Name	Name		Name	
Signature	Signature	Date	Signature	Date

AGNICO EAGLE

Vendor Document Status

1 ☐	Proceed to next submission and status.
2 ☐	Proceed with exceptions as noted to next submission and status.
3 ☐	Do not proceed. Revise as noted and resubmit next submission and status.
4 ☒	Complete, no further submission required.

By: LUC SÉNÉCAL Date: 2017-07-10

Review and authorization to fabricate are only for general conformance with the design concept of the Project as expressed in the Contract Documents. Sole responsibility for the accuracy and completeness of this document, including but not limited to dimensions and quantities, remains with the Supplier/Contractor. Agnico Eagle does not warrant the accuracy or completeness of any of the information contained herein, nor does Agnico Eagle authorize or approve any construction means, methods, techniques, sequences or any safety precautions or procedures.

Agnico Eagle No. 6515-C-270-007-141-TES-0001 R: Sub002

DOCUMENT FOR INFORMATION

Agnico-Eagle Mines Ltd.

Contract no. 6515-C-270-007

Cable Installation and Testing Procedure

AEM-EL-PRO-001

Area No.: All

System No.: All

PROMEC Approvals

Prepared by:	Stéphane Doré	**Signature:**		**Date:**	2017-04-25
Verified by:	Jonathan Roy	**Signature:**		**Date:**	2017-04-25
Approved by:	Éric Poulin	**Signature:**		**Date:**	2017-04-25.

CLIENT Approvals

Verified by:		**Signature:**		**Date:**	
Approved by:		**Signature:**		**Date:**	

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