

GENERAL NDE REPORT				No. 001			
Date		Feb 20 2020	Page	1	of	4	
RTD Job #:		4016382					_

APPLUS RTD QUALITY SERVICES INC. #104, 11302 - 98 AVENUE ALBERTA, CANADA T8V 8H4 TEL: (780) 814-7227 FAX: (780) 402-3030  Client: Canadian Natural Resources Limited Address: 6744 airport road Fort St. John V1J-4M6 P.O.#: Client Rep.: Mandy Nelson  Description: Magnetic Particle/ Ultrasonic thickness inspection Surface Condition: Weldment Machined Painted Ground Sandblasted Other											
_		C PARTICLI	E INSPECTI Bench		Asset No · 1	2112 (	Calibration D	ue Date:	07/05/2020		
Equipment Type:											
⊠ U	LTRASON	NIC THICK	NESS MEAS	UREMENT							
Method: P/E Dual T/T Other Instrumentation: Manufacturer; Olympus RTD Ass Cal. Block(s): Type; IIW RTD Ass Couplant: Manufacturer; Magnaflux											
Probe Type	Angle	Frequency	Size	Reference Level (dB)	Scanning Level (dB)	Range	Skip Value	Beam Travel	Transfer Value (dB)		
Olympus	0°	5mhz	1/2"	80%		25mm					
				INSPECT	ION DETAI	LS					
Scope: Carry out Magnetic Particle on firetubes for free water knock out A0068932 Carry out Ultrasonic thickness inspection on firetubes for free water knock out A0068932  Ref: A0068932 Results: Ultrasonic thickness inspection Carried out found minium thickness of 11.4/11.7mm on firetube number 1 Ultrasonic thickness inspection Carried out found minium thickness of 12.7/12.9mm on firetube number 2 Magnetic Particle inspection carried out on firetube number 1 found 2 cracks.  9inch crack on circ weld 1.5inch crack on support anchor 1 inch crack on 6:00 support anchor Magnetic Particle inspection carried out on firetube number 2 no cracking found at time of inspection Magnetic Particle inspection carried out on spare firetube no cracking found at time of inspection											
Technician:	Chris Bet	thel	_	TC1A Level: 2	Start Time:	Stop T		ST	OT		
Signature:		. 5-	Method:: ]		Unit:		Km:	Travel Time:			
Assistant: Client Signa	Assistant: CGSB/SNT TC1A Level: Subsistence required OT Meal Client Signature: Consumables:										

\*Results are an interpretation of the inspection method, not a guarantee. Client signature indicates acceptance of report, results and applicable charges.

Photo Table Page 2









Data Plate



Overview of vessel

Firetube number 1



