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QUALIT	Y SE	RVICE	s

RTD QUALITY SERVICES **GRANDE PRAIRIE OPERATIONS** 

PH: 1-780-814-7227 FAX: 1-780-402-3030

## GENERAL NDE REPORT Chinchaga 2011-29

Sept 30-2011 Page Date

RTD Job #: 10.110763

Product

Minutes Manufacturer:

RTD Dep. #:

Client:	Canadian Natural Resources Ltd.	Lot #:	Chinchaga Gas Plant
Address:	Grande Prairie, AB	Location:	LSD 01-24-96-05 W6M
P.O.#:		Procedure:	(RTD) MT-001
Client Rep.:	Craig Liba / Deston Reber	Code:	ASME VIII Div 1

Description: The Heater coil was removed and several areas were found in need of repair. Weldment Machined Painted

MAGNETIC PARTICLE INSPECTION	
Equipment Type:  Yoke Bench	011
Blacklight: Intensity Check: $\mu W/cm^2$ Asset No.: Calibration Date:	
Method:  ☐ A/C ☐ D/C Type: ☐ Continuous ☐ Residual Power Supply: ☐ 120 V ☐ Battery ☐ Nature	ral
Type: Dry Powder: Colour; Wet: Black and White Fluorescent	
Product Manufacturer: Magnaflux Product Identification Code: WCP-2/7-HF	
THOUGH DENEMBER AND INCORPORTION	
LIQUID PENETRANT INSPECTION	
Type: I-Fluorescent II-Visible Dye Method: A (Water Wash) B (P.E. Lipophilic) C (Solvent Removable) D (P.E. Hyd	rophilic
Blacklight: Asset No.; Calibration Date; Blacklight Intensity; µW	/cm <sup>2</sup>

ULTRASONIC THICKNESS MEASUREMENT								
Method: P/E D	Oual T/T Other		Type: [	Longitudinal Shear Wave				
Instrumentation: Manufa	acturer;	_ RTD Asset No.;		Calibration Due Date;				
Cal. Block(s):	Type;	RTD Asset No.;		Serial No:				
Couplant: Manufa	acturer:	Type:		-				

Developer;

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Probe Type	Angle	Frequency	Size	Reference Level (dB)	Scanning Level (dB)	Range	Skip Value	Beam Travel	Transfer Value (dB)

## INSPECTION DETAILS

To do a Magnetic Particle Inspection on 21 weld prep. areas before tacking the coil to the baffles, following the outlined Scope:

repair procedure

Heater Coil Ref: A170474

Dwell Times: Penetrant;

Results: Magnetic Particle inspection was performed on 21 tack weld locations before welding and on the same weld locations 12

hours after the welds were completed, no cracking was found at the time of the inspection.

Technician:	Dwight Carson		Start Time:	Stop Time:	ST	OT
Signature:		Method:: CGSB MT 2	Unit:	Km:	Travel Time:	
Assistant:	Chris Betthel	CGSB /ASNT/SNT Level: 2	Subsistence requi	ired	OT Meal	
Client Signat	ture:		Consumables:			

## Photo Table





21 Locations were inspected with MPI 12 hours after welding