CDN CONTROLS LTD
COMBUSTION & EMISSIONS SERVICES

PREVENTATIVE MAINTENANCE AND COMBUSTION REPORT

Job # :	1803-0270			Date:	March 7, 2018
Company:	NuVista Energy	Contact:	Justin Stover	Phone:	780-814-3877
Email:	justin.stover@nvaenergy.com	Area:	North Wapiti	LSD:	15-17-68-8w6

EQUIPMENT INFORMATION

Make:	Enlyn Corp.	Type:	Line Heater	ID:	15-17 LH
Serial:	1456101	A#	640432	CRN#	W3264.213

Vessel	D	60	Inch	L	26	Feet	Medium: Ucartherm HTF

FIRE TUBE(S)

Number:	1	Diameter:	24	Inch	Length:	24	Feet	Rating: 3,014,400	btu/hr

Configuration:	Horizontal	Condition of Fire Tube:	Good & Safe		
Stack Diameter:	24"	Stack Height:	20'	Stack Condition:	Good
Arrestor Make:	Flameco	Arrestor Style:	Aluminium	Arrestor Size:	36"
Arrestor Condition:	Good	Arrestor Position:	Front		

BURNER INFORMATION

Make:	Maxon	Size:	2"	Type:	Venturi
Orifice:	9/32	Configuration:	Horizontal	Nozzle:	Stick Tite
Condition:	Good	Length Gas Connect to Tip	51"	Airplate	Yes

PILOT INFORMATION

Mixer:	Fixed Air	Size:	1/2"	Nozzle:	RHSB
Orifce:	.054	Condition:	Good		

CONTROLS

BMS:	Profire 2100	Serial#:	1PS21-E0000-L47096	Voltage:	24 VDC

Flame Fail:	Profire 2100	Flame Signal:	100%
Main Regulator:	Fisher 627-R	Pilot Regulator:	Fisher FS-67CFR
Temp Control:	Profire 2100	High Temp Control:	Profire 2100
Temp Cont. Valve:	Kimray SMT 1400	Esd Control Valve:	Asco HV298568002
Low Press. Switch:	CCS 6900GZE12	High Press. Switch	CCS 6900GZE12
Pilot Solenoid:	Asco Red Hat	Main Solenoid:	Asco EF8314G301
Low Level Switch	SOR 1510B		

APPLIANCE ADDITIONAL INFORMATION

PSV Location:	Upstream of Scrubber	Serial #:	038480-21	Setpoint:	150 psi
Pilot Test Fire Valve:	CSA CGA 3.16 Rated Ball Valve	Pilot Shut off valve:	CSA CGA 3.16 Rated Ball Valve		
Main Test Fire Valve:	CSA CGA 3.16 Rated Ball Valve	Main Shut off Valve:	CSA CGA 3.16 Rated Ball Valve		
Calibration Isolation Valves:	Neo CSA Ball Valve	Tagged / Locked Open:	Yes		
Y - Strainer:	Yes	Ignition Coil Location:	Inside Housing		
TC Head Make/Model:	Wika TC10	Thermowell Size	3/4"		
Level Switch Connect Size	2"	Burner Housing Connection	1"		

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Burner Pressure:			Burner Pressure:		12 psi
Pilot Pressure:			Pilot Pressure:		06 psi
Flue Temp. F:			Flue Temp. F:		638.4
O2%:			O2%:		7.6
CO ppm:			CO ppm:		26
CO2%			CO2%		7.5
NOX ppm:			NOX ppm:		48
EX Air %:			EX Air %:		57.1
Draft:			Draft:		0.03
Efficiency%			Efficiency%		70.9

SERVICE COMMENTS:

Upon arrival unit was running.
Operations said the unit has been running good with no issues
Completed a full pm program
Tested all shut downs.
All shut downs work good.
Open housing and removed burner and pilot.
Both burner and pilot are in good condition
Made sure the pilot reads 100% and lights off the burner.
Used the Profire in manual mode to turn on and off the main solenoids and burner lights off everytime no issues
Took combustion readings
Tagged the unit and let unit cycle a few times while I was doing paperwork and reports.
Unit had not 1 issue while I was on location.
Left location with the burner and pilot running

RECOMMENDATIONS:

No Recommendations at this time.

FIELD APPROVAL

Field Inspection Completed:	Yes	Inspection Company:	Enefen
Inspection Date:	8/28/2015	Project / Cert #:	NFN 1503083
Design Code:	301A-P2-NF003		

Combustion Technician	Brandon Peterson	Email	brandon.peterson@cdncontrols.ca



LSD SIGN



HEATER



BURNER



PILOT







