



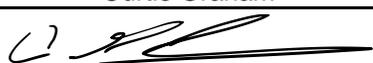
Pressure Equipment Static Data

General Information									
Date:	July 11, 2021			Location:	Surface:	B-17-I/94-H-1			
Client/Owner:	CNRL			UWI/DH:	B-17-I/94-H-1				
District/Region:	Fort St John			Location Access:	All Year				
Area:	Ladyfern			Inspection Type:	<input type="checkbox"/> Inventory <input type="checkbox"/> Internal <input checked="" type="checkbox"/> External <input checked="" type="checkbox"/> UT <input type="checkbox"/> MT				
Facility:	Compressor								
Pressure Equipment Information									
Equip Name:	Glycol Reboiler				CA (in):	N/A	mm:		
Manufacturer:	N/A				MDMT:	N/A			
Provincial #:	N/A	Unit /Skid #:	Dehy #6 Skid		PWHT:	N/A			
S/N:	N/A	Equip #:	C73746		RT:	Unknown			
CRN:	N/A	Year Built:	N/A		Manway:	Yes	Size (in):	Firetube Opening	
NB #:	N/A	Orientation:	Horizontal						
Zones									
	MAWP (PSI)	MAWT (F)	MAWP (KPA)	MAWT (C)	Comment				
Shell Side	15				Atmospheric pressure				
Tube Side									
Components									
	Dia (OD) in.	Type	Material	Nominal (in)	Nominal (mm)	Comment			
Shell	36	Plate	SA-516-70	0.375		Material and nominal assumed			
Head	36	Flat	SA-516-70	0.375		Material and nominal assumed			
Head 2	36	Flat	SA-516-70	0.500		Material and nominal assumed			
Head 3	36	Flat	SA-516-70	0.750		Material and nominal assumed			
Shell 2	14	Pipe	SA-106-B	0.250		Material and nominal assumed			
Pressure Safety Valve(s)									
Zone:	Shell Side								
Equip #	N/A								
Location	Vessel - Threaded								
Set Press (PSI)	10								
Capacity	1083	PPHR							
Set Press (KPA)									
Manufacturer	Kunkle								
S/N	28213-1								
Model	6030HGM01-PM0								
CRN	0G787.5401236789T								
Inlet Size (in)	1.5	Locked Open?							
Outlet Size (in)	2								
Inlet I/V	No								
Outlet I/V	No								
Service Co.	Unified								
Serv. Date	Jun-2018								
Service Status and Conditions									
Status:	In Service			Service:	Sweet		Primary Contents - Shell:	Glycol	
				Concentration:			Primary Contents - Tube:		
Comments									



Pressure Vessel External Inspection

Date:		July 11, 2021		Equip Name:		Glycol Reboiler	
Inspector:		Curtis Graham		Prov #:		N/A	
Client/Owner:		CNRL		S/N:		N/A	
District/Region:		Fort St John		Unit /Skid #:		Dehy #6 Skid	
Area:		Ladyfern		Equip #		C73746	
Facility:		Compressor		Location:		Surface:	
						B-17-I/94-H-1	
						UWI/DH:	
						B-17-I/94-H-1	
Component	Condition	Comment					
Nameplate	N/A	No Nameplate.					
Grounding	Acceptable	Vessel is grounded through skid.					
Foundation/Supports	Acceptable	Vessel is well supported, no concerns noted.					
Ladder/Platform	N/A						
Insulation/Cladding	Acceptable	Vessel is 50% insulated and cladded. Insulation is in good overall condition.					
Shell	Acceptable	Shell is in good condition, no concerns noted.					
Heads	Acceptable	Heads are in good condition, no concerns noted.					
Nozzles/Threadolets	Acceptable	All nozzles are in good condition. No deflection, short bolting or other concerns noted.					
Piping/Valves	Acceptable	All associated piping is in good condition. All bolting is properly installed and secure. No leaks or other concerns noted.					
Appurtenances & Instrumentation	Acceptable	Instrumentation is in good condition, no leaks noted.					
Sight Glass/Level Gauges	Acceptable	All sight glasses are in good condition. Rated for current vessel service with no concerns noted.					
Other	N/A						
PSV	Acceptable	PSV is in good condition. Service seal is intact, no piping restrictions or other concerns noted. PSV has CRN and applicable code stamping present.					
NDE Methods	Acceptable	UT survey performed by Avalanche. No concerns at this time.					
Inspection Summary	No concerns noted at time of inspection.						
Recommendations						NCR #	

Fit for Service:		Yes		Signature of Inspector:			
* Fit for Service is only a recommendation based on the results of the current inspection.				Cert #		API 510:	
						51479	
						785	
Recommended Intervals:				Technical Manager or Delegate:		Curtis Graham	
							
VE		yrs		Cert #		API 510:	
UT		yrs				51479	
PSV		yrs				785	

External Inspection Pictures

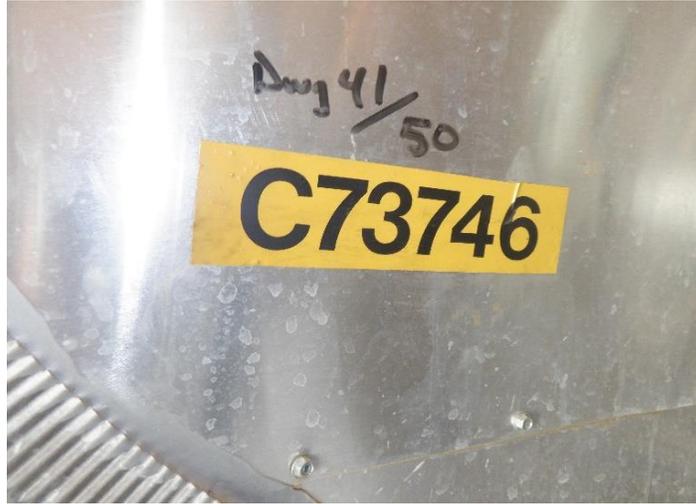
PHOTOS



LSD Sign



Site Overview



C#



Overview

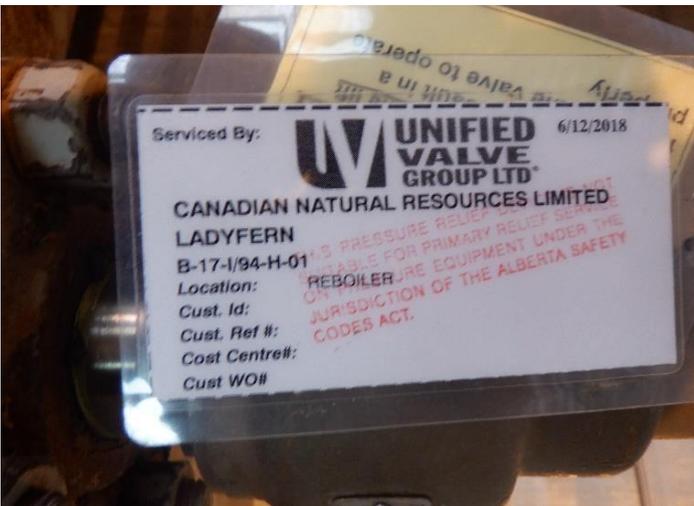
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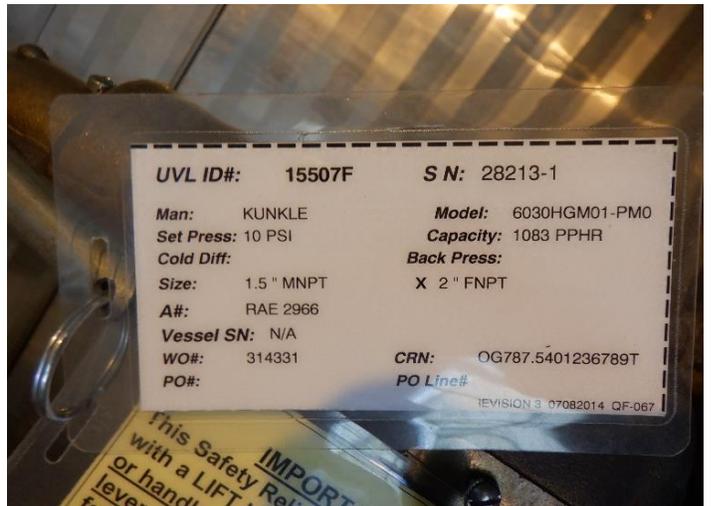
PSV Nameplate



PSV Overview

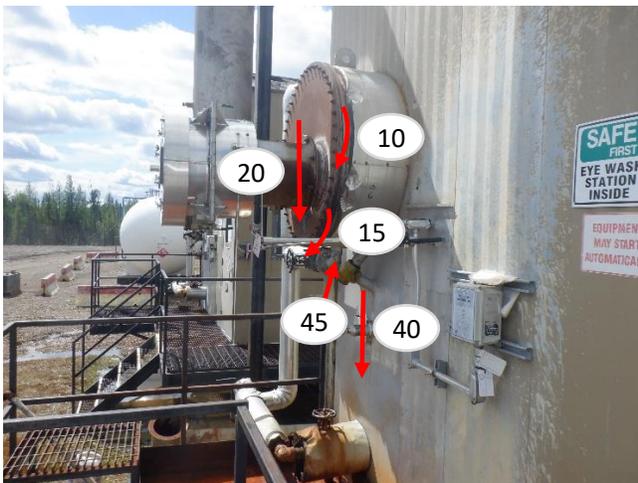
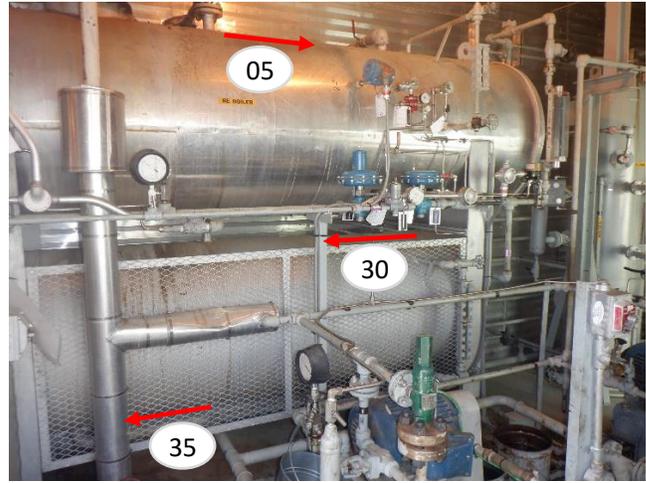


PSV Service Tag



UT CORROSION SURVEY REPORT

STATIC DATA				
Date:	July 11, 2021		Equip. Name:	Glycol Reboiler
Client/Owner:	CNRL		Provincial #:	N/A
District:	Fort St John		Manufacturer:	N/A
Area:	Ladyfern		Year Built:	N/A
Facility:	Compressor		RT (Joint Eff):	Unknown
Location/LSD:	SF:	B-17-I/94-H-1	UWI/DH:	B-17-I/94-H-1
Notes:				





UT CORROSION SURVEY REPORT READINGS

AIR-104

Date:	July 11, 2021	Area:	Ladyfern	Equip Name:	Glycol Reboiler	Equip #:	C73746
Client:	CNRL	LSD:	B-17-I/94-H-1	Prov #:	N/A	S/N:	N/A

VESSEL TMLS																
TML ID	Baseline		Previous		Current											
	LOW	AVG	LOW	AVG	LOW	AVG	SIZE (OD)	NOM	STCR (/YR)	LTCR (/YR)	Tmin	RL (YRS)	% Loss	Zone	Component / Type	
05	0.375	0.375	0.375	0.375	0.397	0.399	36.000	0.375	N/A	N/A	0.019	N/A	0.00%	Shell Side	Shell	Plate
10	0.375	0.375	0.375	0.375	0.391	0.395	36.000	0.375	N/A	N/A	0.019	N/A	0.00%	Shell Side	Shell	Plate
15	0.375	0.375	0.375	0.375	0.407	0.409	36.000	0.375	N/A	N/A	0.019	N/A	0.00%	Shell Side	Shell	Plate
20	0.750	0.750	0.750	0.750	0.777	0.782	36.000	0.750	N/A	N/A	0.118	N/A	0.00%	Shell Side	Head 3	Flat
25	0.500	0.500	0.500	0.500	0.527	0.532	36.000	0.500	N/A	N/A	0.118	N/A	0.00%	Shell Side	Head 2	Flat
30	0.375	0.375	0.375	0.375	0.400	0.403	36.000	0.375	N/A	N/A	0.019	N/A	0.00%	Shell Side	Shell	Plate
35	0.375	0.375	0.375	0.375	0.400	0.405	36.000	0.375	N/A	N/A	0.019	N/A	0.00%	Shell Side	Shell	Plate
40	0.500	0.500	0.500	0.500	0.524	0.526	36.000	0.500	N/A	N/A	0.118	N/A	0.00%	Shell Side	Head 2	Flat
50	0.250	0.250	0.250	0.250	0.243	0.248	14.000	0.250	N/A	N/A	0.008	N/A	2.80%	Shell Side	Shell 2	Pipe

ATTACHMENT / PIPING / NOZZLE TMLS																	
TML ID	Baseline		Previous		Current												
	LOW	AVG	LOW	AVG	LOW	AVG	SIZE (OD)	NOM	STCR (/YR)	LTCR (/YR)	Tmin	RL (YRS)	% Loss	SCH	Zone	Shape	Type
45	0.218	0.218	0.218	0.218	0.181	0.190	2.375	0.218	N/A	N/A	0.001	N/A	16.97%	XS	Shell Side	90°	Nozzle

Comments:	- Erosion noted in TML 45.
	- No year built or previous inspection data to calculate RL.



UT CORROSION SURVEY REPORT READINGS

Notes:

- *All readings are in: inches
- *RL maximum is 50 years.
- *% Wall loss is based on current low vs nominal.
- *Baseline is based off nominal if no previous readings available and started in year equipment was fabricated, unless other information is available to prove in-service date.
- *Previous readings taken from baseline if no past readings/survey data are available.
- * If no corrosion comments are made on piping, general low thickness was noted.

UT EQUIPMENT & PROCEDURES					
Probe	Wave	Freq.	Size	Manuf.	Serial #
Dual	Long - 0°	5 Mhz	1/4"	Dakota	A341N
UT Set		Serial #		Cal Date	Cal Block
DMS GO+		GOPLS19090049		04-Jan-2021	1" C/S Step
Procedure(s):		UT-01		AI-CR-01	

TECHNICIAN SIGN-OFF		
Inspector:	Darrin Robak	CGSB Certifications:
Signature:		19641 UT I / MT II