

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 10-19-050-27W3 **Date:** 2016-01-25 **SAP Equipment ID** 66102897

VESSEL STATIC DATA					
Plant: Aberfeldy/Northminster			OP Unit:		System:
Prov. Insp . #: 0465646		NB#:		CRN: P6749.23	Equip Tag#: 66102897
Equipment Description: DRYER			Serial #: 42586-55		
Manufacturer: Natco			Vessel Class: vessel		
Internal Access: No		Description:		Year Built: 2001	
MAWP: 1965 kpa		At Temp 38 C		MDMT: C	
Code: N/S		RT: RT2		PWHT: No	
Diameter: 0 mm	Length: 1829 mm	(T/T): mm		OAL: mm	Orientation: Vertical
SHELL	Mat'l: Unknown	Thickness: 0.00 mm		Corr Allowance: 0.00 mm	
HEAD	Mat'l: Unknown	Thickness: 0.00 mm		Corr Allowance: 0.00 mm	
Nozzle		Mat'l:		Thickness:	
Internal Coating:		Internal Clad:		Capacity: m3	
Manway: No		Inspection Port:		Skirt Legs Saddle	
Nozzle Rating: lb ANSI		Painted:		Insulated:	

PROCESS DATA			
Production Description:		Sweet Yes Sour:	
Operating Pressure kpa		Operating Temp: C Status: Operating	

PSV STATIC DATA										
Tag #	Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial (SCFM)	Manufacturer	Model	Last Service	Service Company
			Inlet	Outlet						
24264	15365-16	Piping	25.40	25.40	689	400	TAYLOR	T-8200-1	2010/06/29	

PSV DETAILS			
	Type(Thread/Flange)	ANSI Rating	Size(In/mm)
PRD Inlet	Threaded	150	25.40
PRD Outlet	Threaded		25.40

NDE Equipment Records					
Procedure #	Description	Manufacturer	Model#	Serial#	Due Date
**** See Associated NDE Report					

INSPECTION SUMMARY

PSV SERVICED 06/29/2010

RECOMMENDATIONS

RECOMMEND TO SERVICE PSV

As per operations site is not in service, service PSV before putting back into service. See bottom of report for correspondence with ops.

NONCONFORMANCES/INSPECTION DEFICIENCIES

PSV SERVICE PAST DUE



PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 10-19-050-27W3 **Date:** 2016-01-25 **SAP Equipment ID** 66102897

INSPECTION PLANNING

Inspection Strategy	_____	Availability	_____	Inspection Interval	<u>5 year</u>
Inspection Date	<u>2016/01/25</u>	Date of Last Inspect	_____	Date of Next Insp	<u>2020/01/25</u>

REPORT CERTIFICATION

The SignatureS below certify that inspections/tests have been completed in accordance with the identified inspection strategy and that the specified equipment is considered fit for service until the date of next inspection.

Inspected by Justin Orichowski  AB Cert # 758 SK PEI # 214 Date 2016/01/25

Reviewed and Approved by _____ Date _____

Criticality Assessment Rerun _____ Inspection Planning Rerun _____

Assessed Next Inspection Date 2021/01 _____

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 10-19-050-27W3 **Date:** 2016-01-25 **SAP Equipment ID** 66102897

DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Accept		No	GOOD CONDITION
V2	General Corrosion	Accept		No	GOOD CONDITION
V3	General Leaks	Accept		No	GOOD CONDITION
V4	Vibration	N/A		No	
V5	Dissimilar Flange Rating	N/A		No	
V6	Ladder/Stairway	N/A		No	
V7	Heads	Accept		No	GOOD CONDITION
V8	Guy Wires	N/A		No	
V9	Electrical Ground	Accept		No	BUILDING GROUNDED
V10	Painted Inactive Corrosion	N/A		No	
V11	Coating/Painting	Accept		No	PAINTED
V12	Expansion Joint or Bellows	N/A		No	
V13	Gauge/Site Glass	Accept		No	GOOD CONDITION
V14	Shell	Accept		No	GOOD CONDITION
V15	Jacket	N/A		No	
V21	Support Other (Please explain)	N/A		No	
V22	Foundation	Accept		No	METAL
V23	Anchor Bolts	N/A		No	
V24	Saddle/Skirt	Accept		No	SKIRT
V25	Davit	Accept		No	GOOD CONDITION
V26	Fireproofing	N/A		No	
V31	Connections Other (Please explain)	N/A		No	
V32	Small Branches	Accept		No	GOOD CONDITION
V33	Nozzles	Accept		No	GOOD CONDITION
V34	Manways	N/A		No	
V35	Reinforcing Pads	N/A		No	
V36	Inadequate Thread Engagement	N/A		No	
V37	Bolting	Accept		No	THREADS FULLY ENGAGED
V38	Flanges	Accept		No	GOOD CONDITION
V39	Leak Clamps	N/A		No	
V41	Insulation Other (Please explain)	N/A		No	
V42	Damage	N/A		Yes	
V43	Penetrations	N/A		No	
V44	Insulation Jacket	N/A		No	
V45	Banding	N/A		No	
V46	Seals/Joints	N/A		No	
V51	Relief Devices Other (Please explain)	Reject		Yes	SERVICED 06/29/2010
V52	Corrosion	N/A		No	
V53	Leaks	N/A		No	
V54	Restricted Inlet/Outlet	N/A		No	

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 10-19-050-27W3 **Date:** 2016-01-25 **SAP Equipment ID** 66102897

V55	Manual Operation Lever	N/A		No	
-----	------------------------	-----	--	----	--

DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

DETAILED INSPECTION UT THICKNESS

CML	Nom. Thickness (mm)	CURRENT READINGS (mm)	short term corr rate (mm/y)	long term corr rate (mm/y)	remaining life (year)	Survey Date	Comments
05 (HEAD)	0.00	5.2mm	9.12	0.0000	0.0000	2016/01/25	NO COMMENTS
10 (SHELL)	0.00	9.5mm	8.79	0.0000	0.0000	2016/01/25	NO COMMENTS Within C.A.
15 (SHELL)	0.00	9.5mm	8.69	0.0000	0.0000	2016/01/25	NO COMMENTS Within C.A.
20 (SHELL)	0.00	9.5mm	8.69	0.0000	0.0000	2016/01/25	NO COMMENTS Within C.A.
25 (HEAD)	0.00	11.12mm	12.83	0.0000	0.0000	2016/01/25	LOW RDG IS MORE THAN 10% BELOW AVG RDG
30 (90L 2 STD)	3.91	3.45	0.0301	0.0301	100.3	2016/01/25	NO COMMENTS Within mill tolerances
35 (90L 2 STD)	3.91	3.78	0.0084	0.0084	400.6	2016/01/25	NO COMMENTS Within mill tolerances
40 (90L 2 160)	8.74	7.72	0.0670	0.0670	108.9	2016/01/25	NO COMMENTS Within mill tolerances

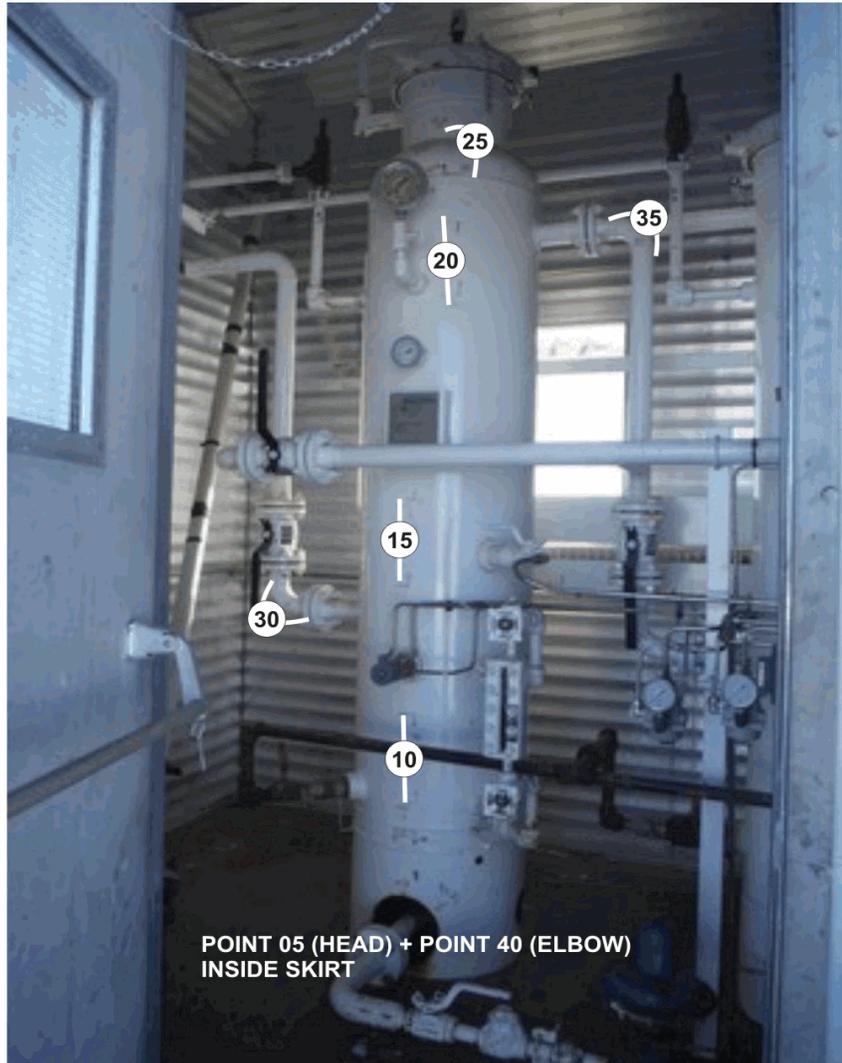
Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equip	Due Date OF Calibration	NDE Procedure No.
Justin Orichowski		1	16325	01/25/2016	104_91638503_EPOCH4	06/27/2016	WQS UT-001



Client:
HUSKY ENERGY

EXAMINATION ILLUSTRATION

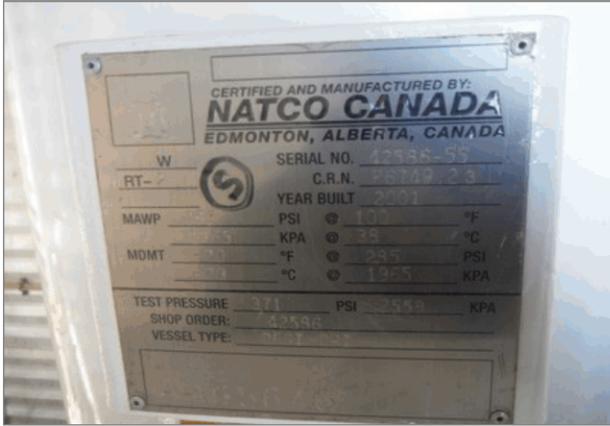
DISTRICT:	SASK WEST	FACILITY:	ABERFELDY/NORTHMINSTER	LOCATION/LSD:	10-19-050-27W3
EQUIP NAME:	DRYER			PROV REG No.:	0465646
SERIAL No.:	42586-55	Equip No.:	66102897	National Board No.:	



NOTES: SK# S00212

PHOTOGRAPHS

EQUIP NAME:	DRYER	PROV REG No.:	0465646
SERIAL No.:	42586-55	Equip No.:	66102897
		National Board No.:	



NAMEPLATE



OVERALL



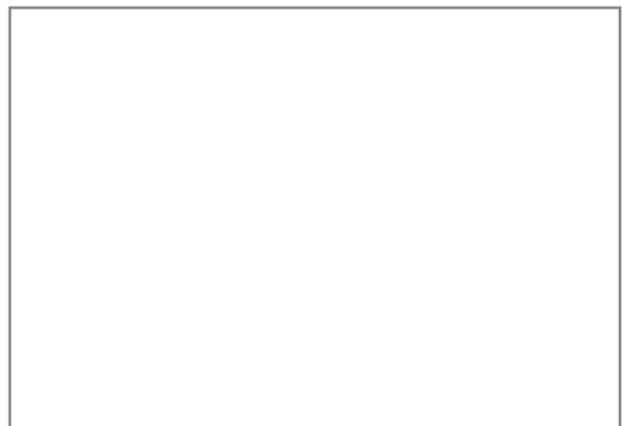
PSV



PSV TAG



SK#



NOTES: **SK# S00212**

Luke Newport

From: David Nelson
Sent: Wednesday, 24 February, 2016 11:11 AM
To: Luke Newport
Cc: Conrad Hann; Martin Code; Benjamin King
Subject: RE: 10-19-050-27w3 Vessels in Service

Yes the two vessels are still on location but lease is not in service and is partially stripped.

Dave Nelson
Landrose Field Operator
HUSKY ENERGY INC
Ph: 780-205-3044
david.nelson@huskyenergy.com

From: Luke Newport
Sent: Tuesday, February 23, 2016 1:43 PM
To: David Nelson; David Sissons
Subject: 10-19-050-27w3 Vessels in Service

Good afternoon,

Can you confirm for me if the two Natco vessels are in service at 10-19-050-27w3.

The Natco serial numbers are 42586-55 and 42586-56.

If they are in service the PSV will need serviced and if there not the PSV's will need to be serviced before the vessels are put back into service.

Thanks for your help with this.

Luke Newport



Asset Integrity Inspector
Lloydminster HOG
Cell; (780)-872-8104
Office; (306)-820-4346
E-mail: luke.newport@huskyenergy.com