

PRESSURE VESSEL & COLUMN INSPECTION REPORT

SAP# 66194539	Date: May 13, 2022	LSD 11-29-046-04 w 4	Report # IR220513GENo
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VESSEL STATIC DATA

Plant: WILDMERE	Op Unit: AS	Work Order: 60894910
Prov. Insp.# AB A 528730 NB -	CRN R9332.231	Equip. Tag# V-100
Description: SEPARATOR	Serial #: PV-811	Year Built: 2005
Manufacturer: CORLAC INDUSTRIES LTD.	Vessel Class: SEPARATORS	
MAWP: 4964 Kpa @ 38 °C	MDMT: -29 °C	
Shell Material: SA-106B	Thickness: 9.5 mm	Corr. Allowance: 1.6 mm
Head Material: SA-234WPB	Thickness: 8.3 mm	Corr. Allowance: 1.6 mm
Nozzle Material: SA-105N	Thickness: NPT	Corr. Allowance: - mm
Code: ASME VIII (U)	RT 2	PWHT: No
Internal Access: No	Type: N/A	Internal Coating: No
Painted: Yes	Insulated: No	Location: N/A
Product Description: Natural Gas	Sweet	Operating Pressure: 400 Kpa @ 15 °C

62064165

PSV DATA

SAP# Number: N/A	Bar Code: 238548	Inlet Size mm 33.4	Type: THREADED
Serial Number: 006058-133		Outlet Size mm 33.4	Type: THREADED
Manufacturer: TAYLOR		Service Date: m/d/y 10/23/2020	
Model: T-8200-1		Service Company: GUEST	ID# 40313
Set Pressure Kpa 1965	Capacity SCFM 1068	Location: SIDE OF THE SEPARATOR	

INSPECTION SUMMARY

External:

A visual external inspection performed to the applicable standards did not identify any concerns with the pressure boundary of this equipment, there were no significant deficiencies noted.

This equipment was in service at the time of inspection.

A thorough inspection to verify the equipment's integrity was done by VE Ext and UT.

The nameplate is intact and legible.

There are no recommendations to be made at this time.

No NCR's were issued at this time.

These items of pressure equipment may be considered "Fit for Continued Service".

Internal:

There was no internal inspection or NDE performed at this time, the scope of work was for an external inspection only.

NDE:

UT was performed to confirm remaining thicknesses.

The readings are within acceptable limits.

See the UT results below.

RECOMMENDATIONS

NONCONFORMANCES / INSPECTION DEFICIENCIES

INSPECTION PLANNING

Inspection Strategy	Availability	Inspection Interval	5 yrs
Inspection Date 05/2022	Date of Last Inspection	Date of Next Inspection	05/2027

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.

VE Inspected by / Certification #	Silvertip – Guy Normand – API 510 23041, ISPVI 0084, T-SASK 82419, API 653 25278, UT1, CGSB MT2 13310	Date	May 13, 2022
VI Inspected by / Certification #		Date	
Reviewed and Approved by	Verne Stockal	Date	Nov 03 2022
Criticality Assessment Rerun		Inspection Planning Rerun	
Optional Rule Group Confirmed		Assessed Next Inspection Date	

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DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR / IDR	Comments
V1	General Other (Explain)	Good			This equipment was found to be acceptable for continued service. Any deficiencies are noted below. The nameplate is intact and legible.
V2	General Corrosion	Good			There is no corrosion present in the areas that were visibly accessible.
V3	General Leaks	Good			No leaks were noted.
V4	Vibration	N/A			
V5	Dissimilar Flange Rating	N/A			
V6	Ladder/Stairway	N/A			
V7	Heads	Good			The heads are in good mechanical condition.
V8	Guy Wires	N/A			
V9	Electrical Ground	Good			The equipment is grounded through the skid package.
V10	Painted Inactive Corrosion	N/A			
V11	Coating/Painting	Good			The paint is in fair condition.
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	Good			The gauges are legible and appear to be functioning properly.
V14	Shell	Good			The shell is in good mechanical condition.
V15	Jacket	N/A			
V21	Support Other (Explain)	N/A			
V22	Foundation	N/A			
V23	Anchor Bolts	N/A			
V24	Saddle/Skirt	Good			The skirt is welded to the skid floor and is in good mechanical condition.
V25	Davit	N/A			
V26	Fireproofing	N/A			
V31	Connections Other (Explain)	Good			All piping connections to the vessel are secure.
V32	Small Branches	Good			The instrumentation tubing is acceptable, no signs of leakage noted.
V33	Nozzles	Good			The nozzles are straight with no mechanical deficiencies noted.
V34	Manways	N/A			
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	Good			All threaded piping and instrumentation connections are secure and of adequate depth / engagement.
V37	Bolting	N/A			
V38	Flanges	N/A			
V39	Leak Clamps	N/A			
V41	Insulation Other (Explain)	N/A			
V42	Damage	N/A			
V43	Penetrations	N/A			
V44	Insulation Jacket	N/A			
V45	Banding	N/A			
V46	Seals/Joints	N/A			
V51	Relief Devices Other (Explain)	Good			The PSV is set to the proper pop pressure and has been serviced within an acceptable time frame.
V52	Relief Devices Corrosion	Good			No corrosion noted.
V53	Relief Devices Leaks	Good			No leaks were present.
V54	Restricted Inlet/Outlet	Good			The inlet and outlet are satisfactory to code requirements.
V55	Manual Operation Lever	N/A			

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DETAILED INSPECTION VISUAL INTERNAL

ID	Description	Condition	Location	NCR / IDR	Comments
V1	General Other (Explain)				
V2	Corrosion (depth, length, width)				
V3	Erosion				
V4	Distortion				
V5	Blisters				
V6	Deposits				
V7	Heads				
V8	Welds				
V9	Nozzles				
V10	Shell				
V11	Gasket Surfaces				
V21	Internals Other (Explain)				
V22	Demister				
V23	Baffle/Weir				
V24	Sparger				
V25	Thermowells				
V26	Metallic Linings				
V27	Nonmetallic Linings				
V28	Trays				
V29	Tray Rings				
V30	Other: Welded Attachments				

Magnetic Particle Equipment records

Procedure #	Description			
Manufacturer	Model	Serial #	Current Type	Mag Part Type
Lighting	Material + Grade	Thickness	Cal Block SN	Cal Due Date

Liquid Penetrant Equipment records

Procedure #	Description			
Penetrant	Solvent	Developer	Cleaner	Lighting
				Material Grade + Thickness

DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR / IDR	Comments
1					
2					
3					
4					
5					

Ultrasonic Equipment records

Procedure #	1-001	Description	Corrosion Survey Procedure		
Test Unit	Instrument Mfr	Model #	Serial #	Cal Due Date	
UT - 001	General Electric	DMS 2	010H1N	March 29, 2023	
Probe	Frequency	Probe SN	Probe Diameter	Couplant	
FH2E	7.5 MHz	SCA0390	0.380"	Sonotest	
Cal Block	Cal Block Size	Cal Block SN	Cal Block Material		
Krautkramer	0.100" – 0.500"	V31891	Carbon Steel		

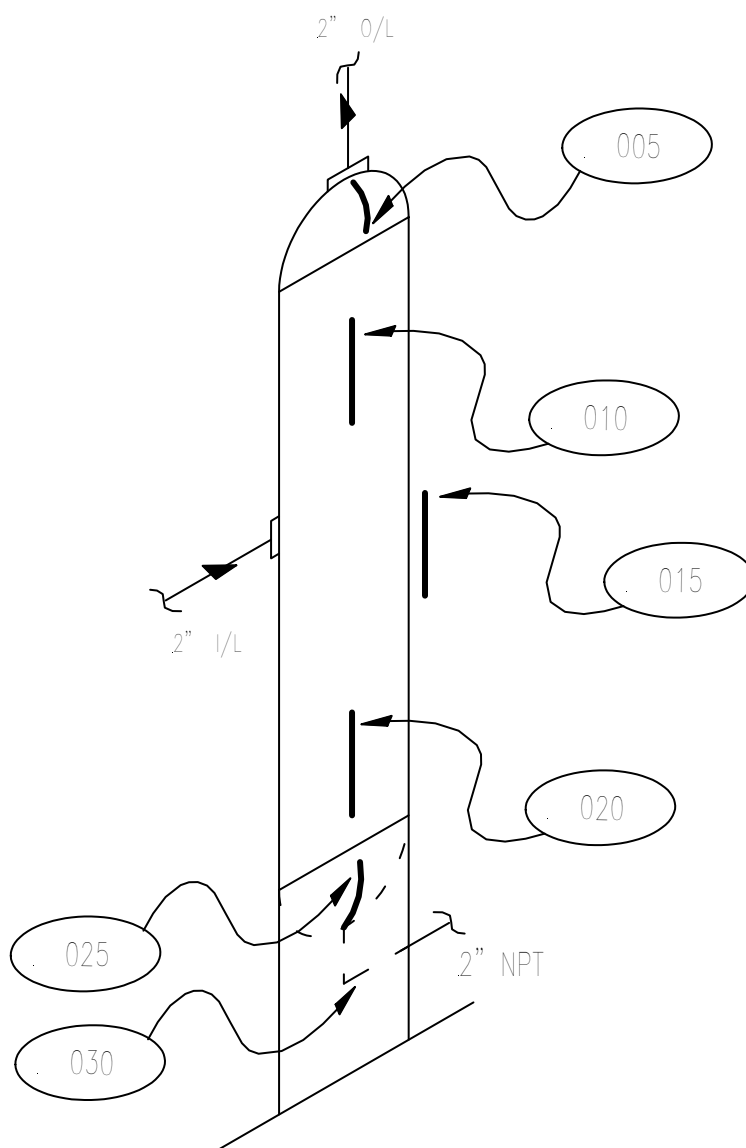
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DETAILED INSPECTION UT THICKNESS

CML	Nom. Thk mm	Current Reading mm	Short Term Corr Rate	Long Term Corr Rate	Remaining Life	Comments
005	8.3	9.7				Top Head
010	9.5	10.0				Upper Shell
015	9.5	10.6				Mid Shell
020	9.5	9.9				Lower shell
025	8.3	9.7				Bottom Head
030	8.7	9.4				2" Drain Nozzle elbow - Piping

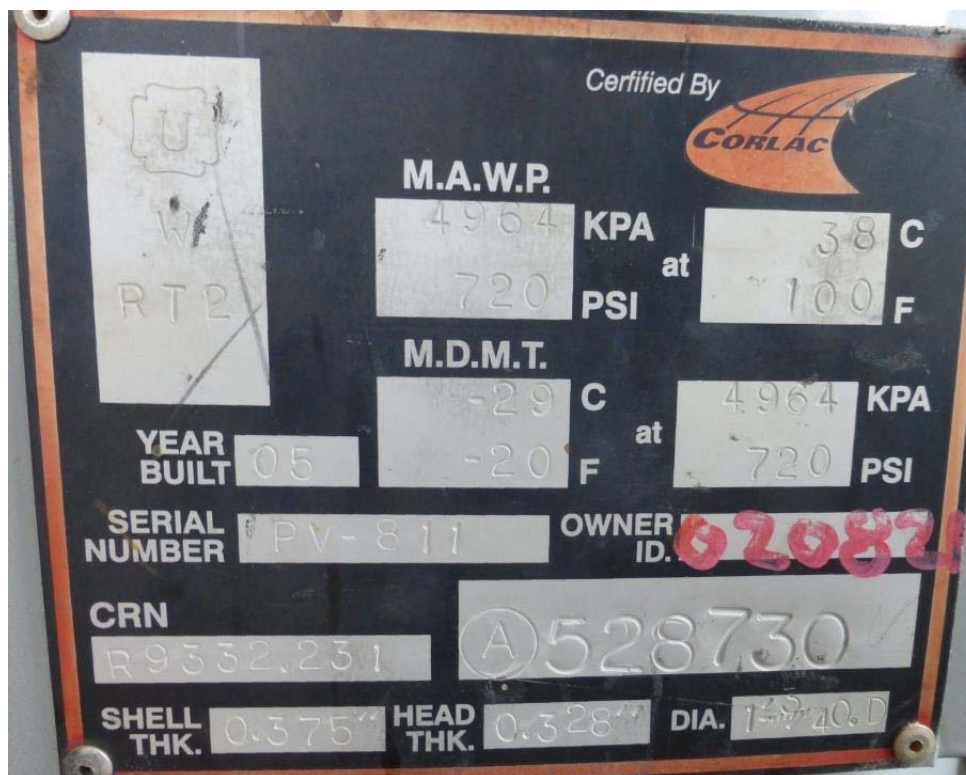
UT DRAWING



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PHOTOS



Nameplate



Overall

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PSV Nameplate

Company Info			
Name:	HUSKY ENERGY		
Area:			
LSD:	100/11-29-046-04 W4		
Valve Loc:	ROUTE 211		
Valve ID#:	SAP-238548		
Item Description			
Make:	TAYLOR		
Model:	82E5351311		
Serial #:	006058-133		
Size:	1	E	1
Set Press:	285	psig	
Capacity:	1068	scfm	
B Press:	0	psig	
CDTP:	285	psig	
Flange Rt:	Threaded	X	Threaded
CRN #:	OG01316.2C		
QC Data			
GCS #:	40313	SV#	15589
Date:	10/23/2020		

PSV Service Tag

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PSV Overall