

# PRESSURE VESSEL & COLUMN INSPECTION REPORT

**LSD:** 12-08-050-19W5

**Date:** 2013-03-06

**SAP Equipment ID**

66182452

## VESSEL STATIC DATA

<b>Plant:</b>	MINEHEAD	<b>OP Unit:</b>	FH01	<b>System:</b>	
<b>Prov. Insp . #:</b>	0611191	<b>CRN:</b>	P7217.231	<b>Equip Tag#:</b>	66182452
<b>Equipment Description:</b>	3 PHASE SEPARATOR			<b>Serial #:</b>	12279
<b>Manufacturer:</b>	RJV			<b>Vessel Class:</b>	vessel
<b>Internal Access:</b>	No	<b>Description:</b>		<b>Year Built:</b>	2011
<b>MAWP:</b>	10204	kpa	<b>At Temp</b>	38	C
<b>Code:</b>		<b>RT:</b>	RT2	<b>PWHT:</b>	No
<b>Diameter:</b>	406	mm	<b>Length:</b>	2286	mm
<b>(T/T):</b>	mm	<b>OAL:</b>	mm	<b>Orientation:</b>	Vertical
<b>SHELL</b>	<b>Mat'l:</b>	SA-106 B	<b>Thickness:</b>	1	mm
<b>HEAD</b>	<b>Mat'l:</b>	SA-516 70	<b>Thickness:</b>	1	mm
<b>Nozzle</b>	<b>Mat'l:</b>		<b>Thickness:</b>		
<b>Internal Coating:</b>	No	<b>Internal Clad:</b>	No	<b>Capacity:</b>	m3
<b>Manway:</b>	No	<b>Inspection Port:</b>	No	<b>Skirt</b>	<b>Legs</b> <b>Saddle</b>
<b>Nozzle Rating:</b>	lb ANSI	<b>Painted:</b>	No	<b>Insulated:</b>	No

## PROCESS DATA

<b>Production Description:</b>	Sweet	<b>Sour:</b>	
<b>Operating Pressure</b>	kpa	<b>Operating Temp:</b>	C

## PSV STATIC DATA

Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial SCFM	Manufacturer	Model	Last Service
		Inlet	Outlet					
012392-133	Shell	25.40	25.40	9929	5180 SCFM	TAYLOR	T-8200-1	2012/02/09

## INSPECTION SUMMARY

FIT FOR SERVICE

## RECOMMENDATIONS

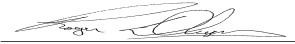
## NONCONFORMANCES/INSPECTION DEFICIENCIES

## INSPECTION PLANNING

<b>Inspection Strategy</b>		<b>Availability</b>		<b>Inspection Interval</b>	
<b>Inspection Date</b>	2013/01/21	<b>Date of Last Inspect</b>		<b>Date of Next Insp</b>	

## 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	Roger Diugosz		Cert #	000566	Date	2013/01/21
Reviewed and Approved by					Date	
Criticality Assessment Rerun			Inspection Planning Rerun			
Assessed Next Inspection Date						

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## DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	N/A			
V2	General Corrosion	Accept			NO EXT CORROSION
V3	General Leaks	Accept			NO LEAKS/WEEPS
V4	Vibration	N/A			
V5	Dissimilar Flange Rating	N/A			
V6	Ladder/Stairway	N/A			
V7	Heads	Accept			PAINT IN GOOD CONDITION, NO DAMAGE
V8	Guy Wires	N/A			
V9	Electrical Ground	N/A			
V10	Painted Inactive Corrosion	N/A			
V11	Coating/Painting	Accept			VERY GOOD CONDITION
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	Accept			CLEAN, NEW CONDITION
V14	Shell	Accept			PAINT GOOD, NO DAMAGE
V15	Jacket	N/A			
V21	Support Other (Please explain)	N/A			
V22	Foundation	N/A			
V23	Anchor Bolts	N/A			WELDED TO SKID
V24	Saddle/Skirt	Accept			NO DAMAGE, PAINT IN GOOD CONDITION
V25	Davit	N/A			
V26	Fireproofing	N/A			
V31	Connections Other (Please explain)	N/A			
V32	Small Branches	Accept			THREADED CONNECTIONS FULLY ENGAGED, NO DAMAGE
V33	Nozzles	Accept			BOTH THREADED AND FLANGED CONNECTIONS, NO DAMAGE, FULLY ENGAGED, NO SHORT BOLTING
V34	Manways	N/A			
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	N/A			FULLY ENGAGED
V37	Bolting	Accept			NO SHORT BOLTING
V38	Flanges	Accept			NO DAMAGE
V39	Leak Clamps	N/A			
V41	Insulation Other (Please explain)	N/A			
V42	Damage	Accept			NO EXTENERAL DAMAGE
V43	Penetrations	N/A			
V44	Insulation Jacket	N/A			
V45	Banding	N/A			
V46	Seals/Joints	Accept			FULLY ENGAGED
V51	Relief Devices Other (Please explain)	N/A			
V52	Corrosion	Accept			NO EXT CORROSION
V53	Leaks	Accept			NO LEAKS/WEEPS
V54	Restricted Inlet/Outlet	N/A			

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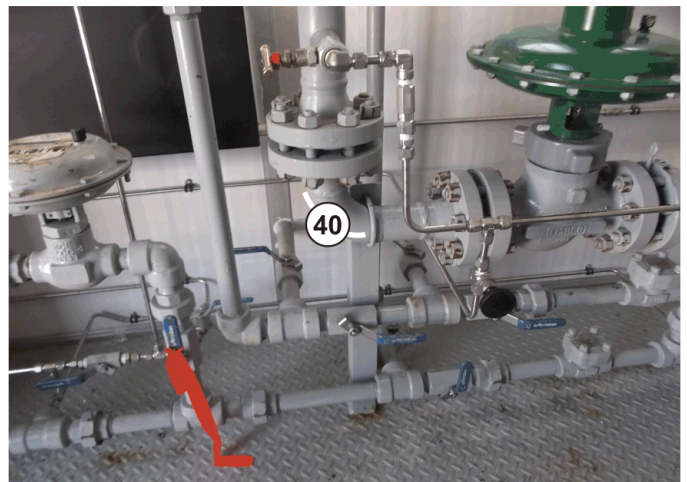
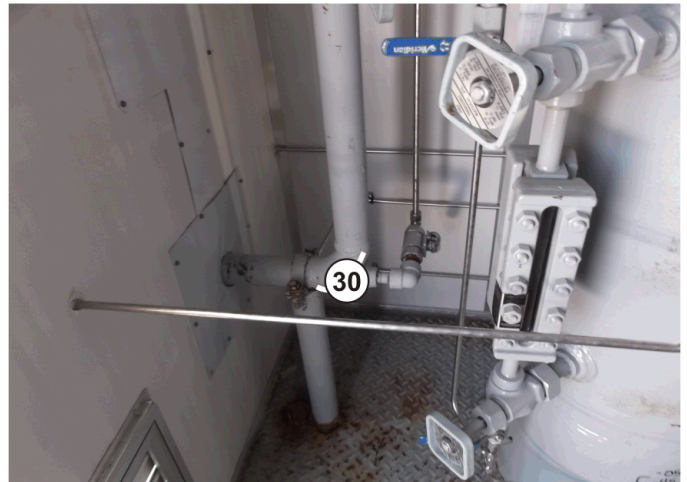
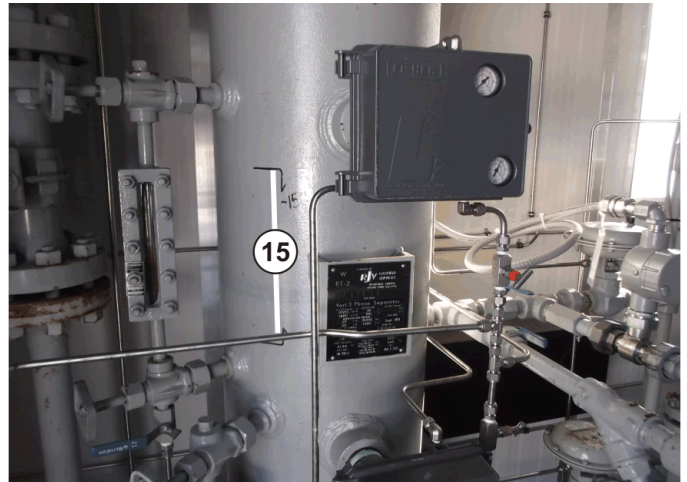
V55	Manual Operation Lever	N/A			
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## DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

## DETAILED INSPECTION UT THICKNESS

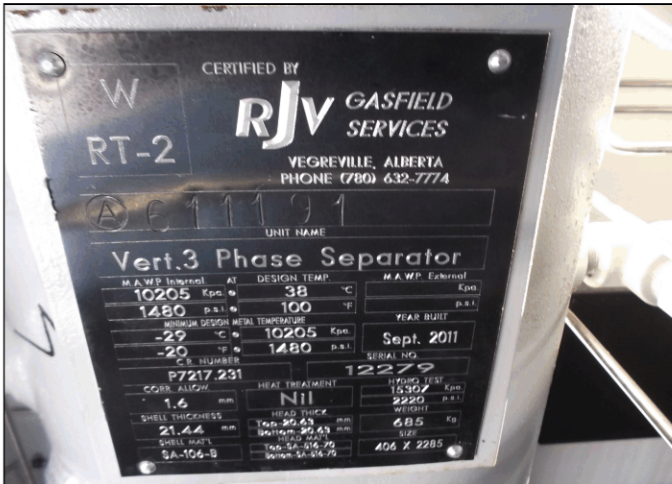
CML	Nom. Thickness	CURRENT READINGS	short term corr rate	long term corr rate	remaining half life	Survey Date	Comments
05 (Head)	20.62	21.56	0.0000	0.0000	99.0	2013/01/21	
10 (Shell)	21.44	21.92	0.0000	0.0000	99.0	2013/01/21	
15 (Shell)	21.44	21.87	0.0000	0.0000	99.0	2013/01/21	
20 (Shell)	21.44	22.35	0.0000	0.0000	99.0	2013/01/21	
25 (Head)	20.62	21.59	0.0000	0.0000	99.0	2013/01/21	
30 (90L 2 160)	8.74	8.00	0.0145	0.0145	7.8	2013/01/21	
35 (90L 2 XS)	5.54	5.77	0.0000	0.0000	99.0	2013/01/21	
40 (90L 2 XS)	5.54	5.03	0.0100	0.0100	5.5	2013/01/21	
45 (90L 2 160)	8.74	7.98	0.0150	0.0150	7.5	2013/01/21	
50 (90L 2 160)	8.74	8.00	0.0145	0.0145	7.8	2013/01/21	



**OWNER: HUSKY**  
**EQUIPMENT NAME: SEPARATOR**  
**REGISTRATION # 0611191**  
**EQUIPMENT # 66182452**

**SERIAL # 12279**  
**NB#**  
**OWNER ID**

NOTES



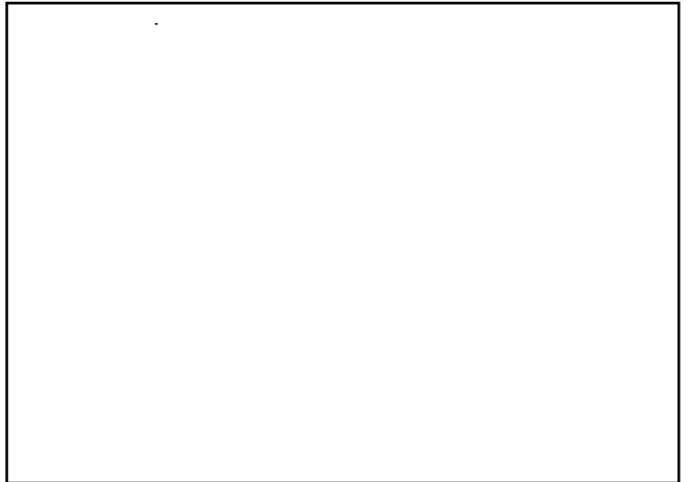
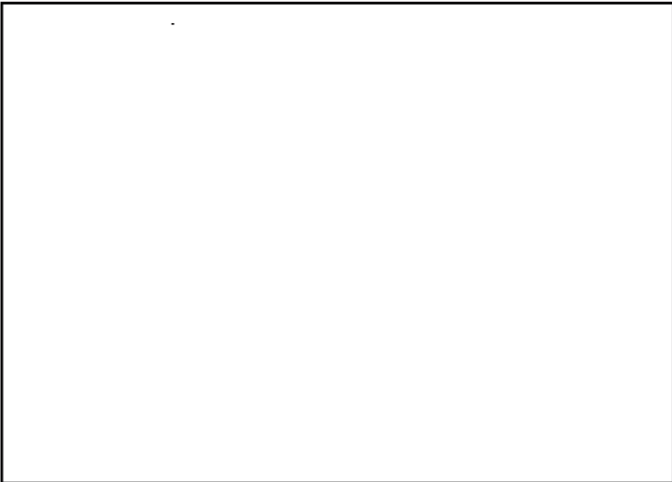
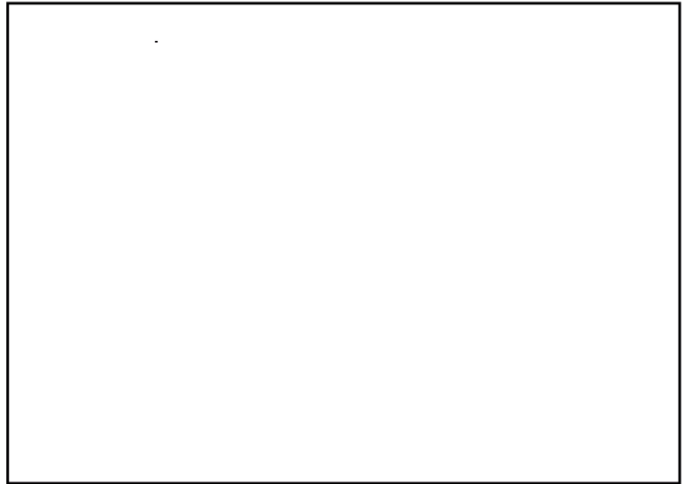
NAMEPLATE



OVERALL



OVERALL



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