

# PRESSURE VESSEL & COLUMN INSPECTION REPORT

**LSD:** 02-08-050-19W5      **Date:** 2013-03-06      **SAP Equipment ID** 66182397

VESSEL STATIC DATA									
<b>Plant:</b> MINEHEAD				<b>OP Unit:</b> FH01				<b>System:</b>	
<b>Prov. Insp . #:</b> 0611145				<b>CRN:</b> P7217.231				<b>Equip Tag#:</b> 66182397	
<b>Equipment Description:</b> 3 PHASE SEPARATOR				<b>Serial #:</b> 12235					
<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>MDMT:</b> 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>Corr Allowance:</b> 2 mm			
<b>HEAD</b>		<b>Mat'l:</b> SA-516 70		<b>Thickness:</b> 1 mm		<b>Corr Allowance:</b> 2 mm			
<b>Nozzle</b>		<b>Mat'l:</b>		<b>Thickness:</b>		<b>Corr Allowance:</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    Yes    Sour:
<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					
012392-260	Shell	25.40	25.40	9929	5180 SCFM	TAYLOR	T-8200-1	2012/02/01

## INSPECTION SUMMARY

FIT FOR SERVICE
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## RECOMMENDATIONS

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## NONCONFORMANCES/INSPECTION DEFICIENCIES

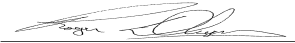
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## INSPECTION PLANNING

Inspection Strategy	Availability	Inspection Interval
Inspection Date	Date of Last Insp	Date of Next Insp
2013/01/21		

## 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						
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			NO VIBRATION
V5	Dissimilar Flange Rating	N/A			
V6	Ladder/Stairway	N/A			
V7	Heads	Accept			NO DAMAGE
V8	Guy Wires	N/A			
V9	Electrical Ground	N/A			
V10	Painted Inactive Corrosion	N/A			
V11	Coating/Painting	Accept			NEW PAINT 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			NEW PAINT CONDITION, NO DAMAGE
V25	Davit	N/A			
V26	Fireproofing	N/A			
V31	Connections Other (Please explain)	N/A			
V32	Small Branches	Accept			FULLY ENGAGED, NO DAMAGE
V33	Nozzles	Accept			FLANGED AND THREADED CONNECTIONS, NO DAMAGE, FULLY ENGAGED, NO SHORT BOLTING
V34	Manways	N/A			
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	N/A			
V37	Bolting	Accept			FULLY ENGAGED
V38	Flanges	Accept			GOOD CONDITION
V39	Leak Clamps	N/A			
V41	Insulation Other (Please explain)	N/A			
V42	Damage	N/A			
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 EXTERNAL 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

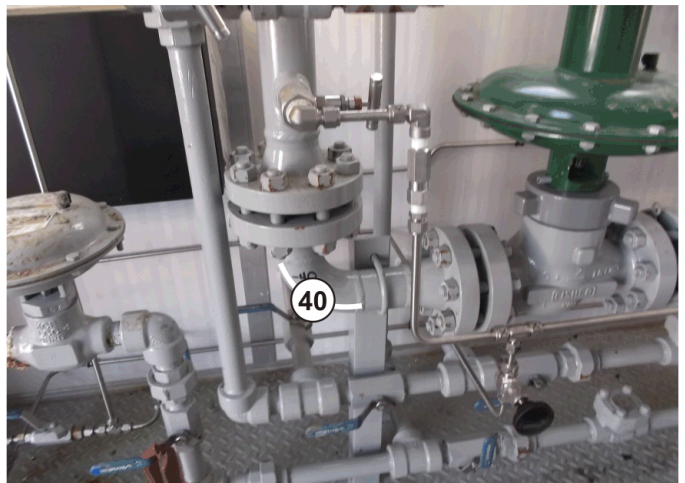
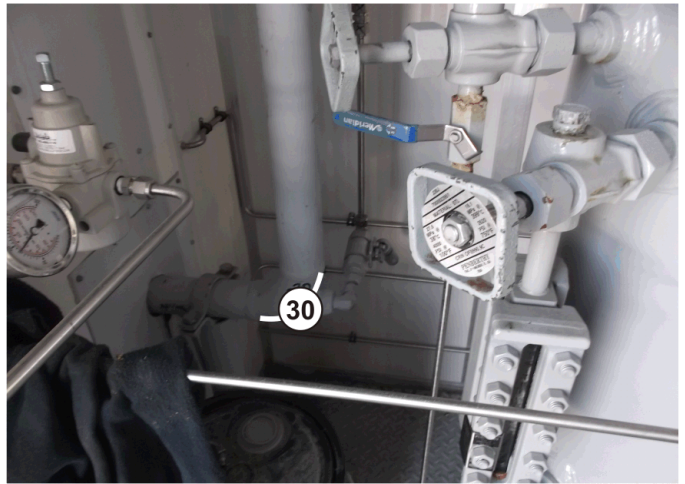
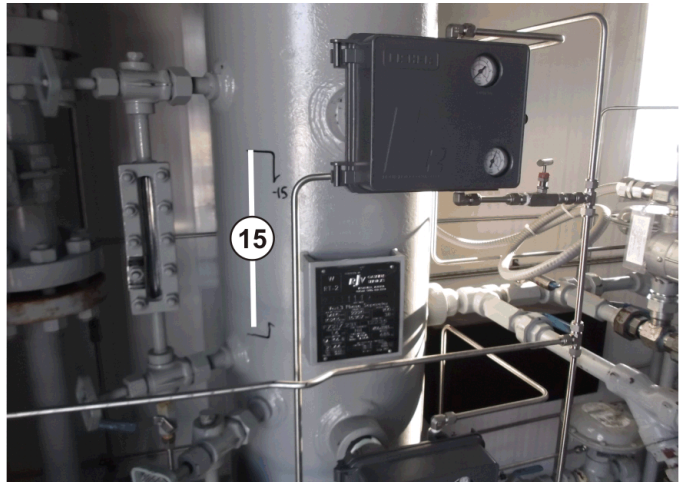
ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

## 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	21.29	0.0000	0.0000	99.0	2013/01/21	
10 (Shell)	21.44	21.77	0.0000	0.0000	99.0	2013/01/21	
15 (Shell)	21.44	21.97	0.0000	0.0000	99.0	2013/01/21	
20 (Shell)	21.44	22.05	0.0000	0.0000	99.0	2013/01/21	
25 (Head)	20.62	21.77	0.0000	0.0000	99.0	2013/01/21	
30 (90L 2 160)	8.74	7.95	0.0155	0.0155	7.3	2013/01/21	
35 (90L 2 XS)	5.54	5.05	0.0095	0.0095	5.8	2013/01/21	
40 (90L 2 XS)	5.54	5.46	0.0015	0.0015	42.4	2013/01/21	
45 (90L 2 160)	8.74	7.87	0.0170	0.0170	6.5	2013/01/21	
50 (90L 2 160)	8.74	8.08	0.0130	0.0130	8.9	2013/01/21	



POINT 05 (HEAD) + POINT 45 (ELBOW)  
INSIDE SKIRT



OWNER: HUSKY  
EQUIPMENT NAME: SEPARATOR  
REGISTRATION # 0611145  
EQUIPMENT # 66182397

SERIAL # 12235  
NB#  
OWNER ID

NOTES





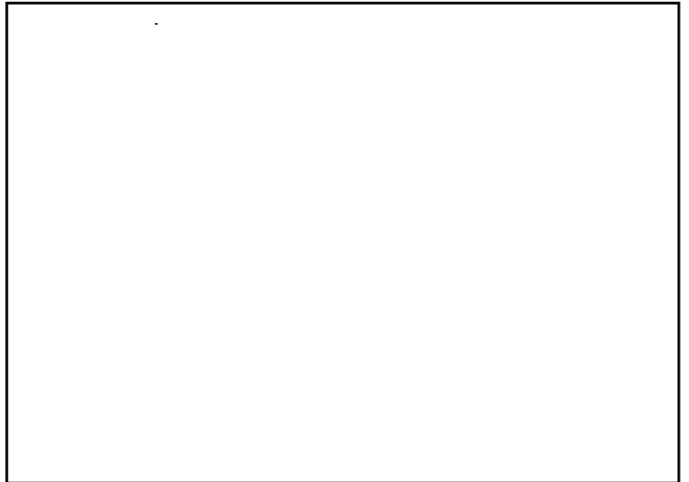
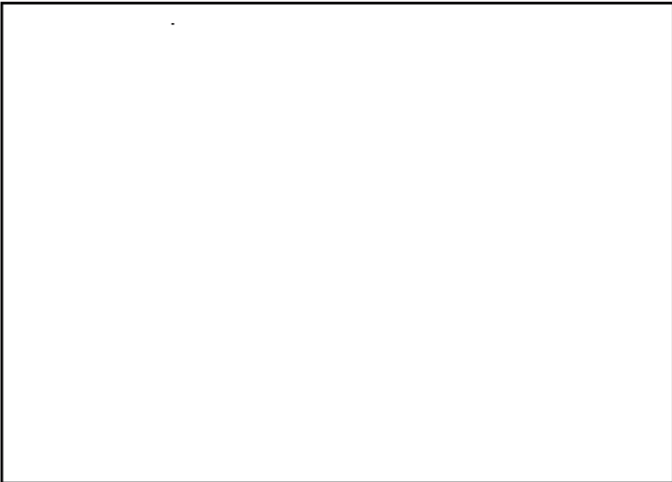
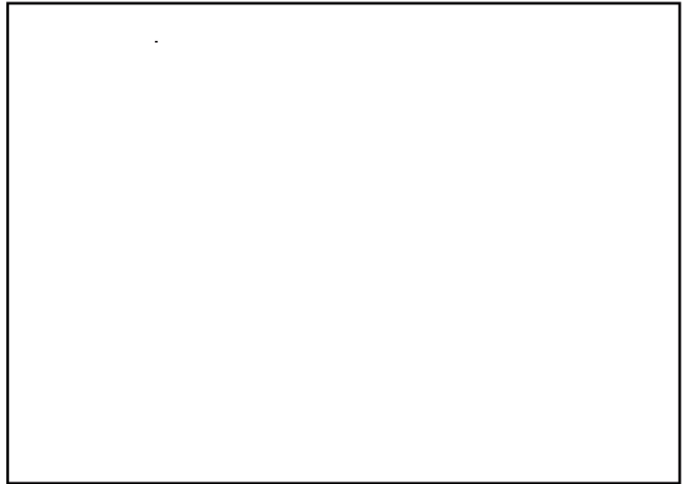
NAMEPLATE



OVERALL



OVERALL



<b>OWNER: HUSKY</b>	<b>SERIAL # 12235</b>	<b>NOTES</b>
<b>EQUIPMENT NAME: SEPARATOR</b>	<b>NB#</b>	
<b>REGISTRATION # 0611145</b>	<b>OWNER ID</b>	
<b>EQUIPMENT # 66182397</b>		