

# PRESSURE VESSEL & COLUMN INSPECTION REPORT

**LSD:** 03-33-050-19W5      **Date:** 2013-03-06      **SAP Equipment ID** 66117460

VESSEL STATIC DATA									
<b>Plant:</b> MINEHEAD				<b>OP Unit:</b> FH01				<b>System:</b>	
<b>Prov. Insp . #:</b> 0558725				<b>CRN:</b> P7217.2				<b>Equip Tag#:</b> 66117460	
<b>Equipment Description:</b> SEPARATOR				<b>Serial #:</b> 10754					
<b>Manufacturer:</b> RJV Gas Field Services				<b>Vessel Class:</b> vessel					
<b>Internal Access:</b> No				<b>Description:</b>				<b>Year Built:</b> 2006	
<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> X <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					
28451-513	Shell	25.40	25.40	9929	5180 SCFM	TAYLOR	T-8200-1	2011/08/28

## INSPECTION SUMMARY

FIT FOR SERVICE
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## RECOMMENDATIONS

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## NONCONFORMANCES/INSPECTION DEFICIENCIES

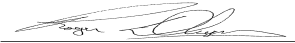
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## INSPECTION PLANNING

Inspection Strategy	Availability	Inspection Interval
Inspection Date	Date of Last Inspect	Date of Next Insp
2013/01/28		

## 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 Dlugosz		Cert #	000566	Date	2013/01/28
Reviewed and Approved by					Date	
Criticality Assessment Rerun						
Assessed Next Inspection Date						

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**LSD:** 03-33-050-19W5

**Date:** 2013-03-06

**SAP Equipment ID**

66117460

## DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Accept			
V2	General Corrosion	Accept			
V3	General Leaks	Accept			
V4	Vibration	N/A			
V5	Dissimilar Flange Rating	N/A			
V6	Ladder/Stairway	N/A			
V7	Heads	Accept			
V8	Guy Wires	N/A			
V9	Electrical Ground	N/A			
V10	Painted Inactive Corrosion	Reject			
V11	Coating/Painting	Accept			
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	Accept			
V14	Shell	Accept			
V15	Jacket	N/A			
V21	Support Other (Please explain)	N/A			
V22	Foundation	N/A			
V23	Anchor Bolts	N/A			WELDED
V24	Saddle/Skirt	Concern			WATER IN SKIRT
V25	Davit	N/A			
V26	Fireproofing	N/A			
V31	Connections Other (Please explain)	Accept			
V32	Small Branches	Accept			
V33	Nozzles	Accept			
V34	Manways	N/A			
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	N/A			
V37	Bolting	Accept			
V38	Flanges	Accept			
V39	Leak Clamps	N/A			
V41	Insulation Other (Please explain)	N/A			
V42	Damage	Accept			
V43	Penetrations	N/A			
V44	Insulation Jacket	N/A			
V45	Banding	N/A			
V46	Seals/Joints	N/A			
V51	Relief Devices Other (Please explain)	N/A			
V52	Corrosion	Accept			
V53	Leaks	Accept			
V54	Restricted Inlet/Outlet	N/A			

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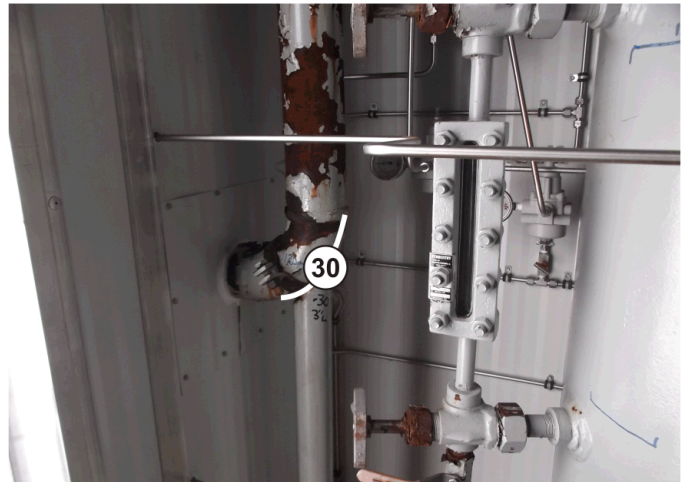
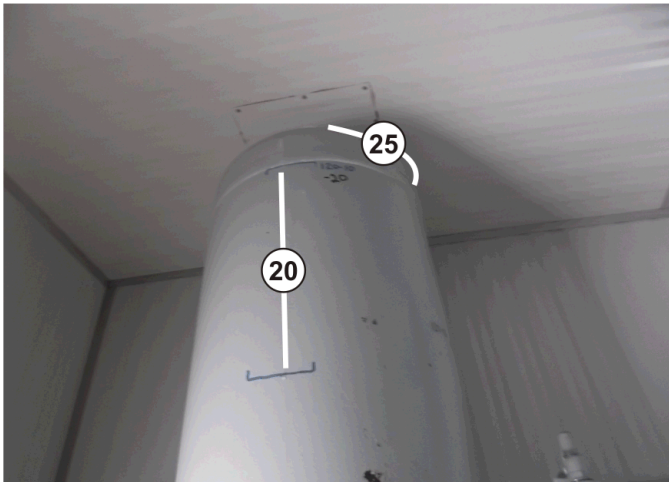
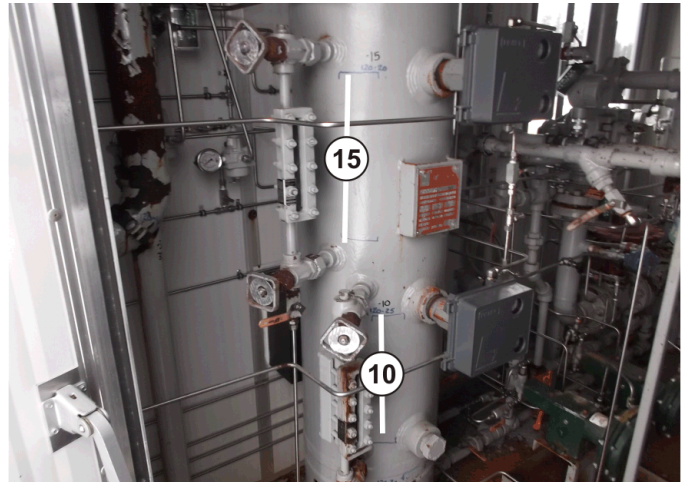
V55	Manual Operation Lever	N/A			
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## DETAILED INSPECTION OTHER TECHNIQUES

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	21.67	0.0000	0.0000	99.0	2013/01/28	
10 (Shell)	21.44	20.29	0.0064	0.0064	10.1	2013/01/28	
15 (Shell)	21.44	21.64	0.0000	0.0000	99.0	2013/01/28	
20 (Shell)	21.44	21.64	0.0000	0.0000	99.0	2013/01/28	
25 (Head)	20.62	21.26	0.0000	0.0000	99.0	2013/01/28	
30 (90L 3 STD)	5.49	5.28	0.0011	0.0011	34.3	2013/01/28	
35 (90L 3 STD)	5.49	5.31	0.0010	0.0010	39.8	2013/01/28	
40 (90L 3 XS)	7.62	7.16	0.0026	0.0026	29.7	2013/01/28	
45 (90L 2 160)	8.74	7.85	0.0050	0.0050	22.1	2013/01/28	



**OWNER: HUSKY**  
**EQUIPMENT NAME: SEPARATOR**  
**REGISTRATION # 0558725**  
**EQUIPMENT #**

**SERIAL # 10754**  
**NB#**  
**OWNER ID**

**NOTES**  
**WATER IN SKIRT. PAINT**  
**DETERIORATION ON**  
**INLET PIPING.**





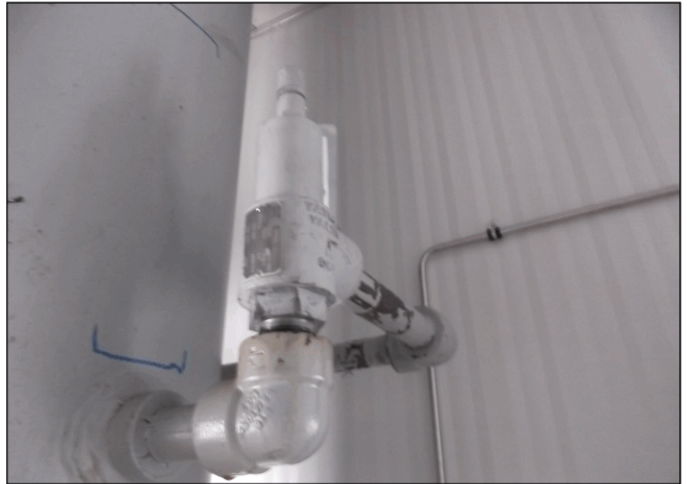
NAMEPLATE



OVERALL



OVERALL



PSV



PAINT FLAKING



WATER IN SKIRT

<b>OWNER:</b> HUSKY	<b>SERIAL #</b> 10754	<b>NOTES</b>
<b>EQUIPMENT NAME:</b> SEPARATOR	<b>NB#</b>	
<b>REGISTRATION #</b> 0558725	<b>OWNER ID</b>	
<b>EQUIPMENT #</b>	<b>ONCOR ID</b>	