

# PRESSURE VESSEL & COLUMN INSPECTION REPORT

**LSD:** 12-06-050-19W5      **Date:** 2014-01-15      **SAP Equipment ID** 66182387

VESSEL STATIC DATA											
<b>Plant:</b> MINEHEAD				<b>OP Unit:</b> FH01				<b>System:</b>			
<b>Prov. Insp . #:</b> 0611192				<b>CRN:</b> P7217.231				<b>Equip Tag#:</b> 66182387			
<b>Equipment Description:</b> 3 PHASE SEPARATOR								<b>Serial #:</b> 12283			
<b>Manufacturer:</b> RJV Gas Field Services								<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> 600 lb ANSI				<b>Painted:</b> No				<b>Insulated:</b> No			
PROCESS DATA											
<b>Production Description:</b>				<b>Sweet</b> Yes <b>Sour:</b>							
<b>Operating Pressure</b> kpa				<b>Operating Temp:</b> C							
PSV STATIC DATA											
Tag #	Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial (SCFM)	Manufacturer	Model	Last Service	Service Company	
			Inlet	Outlet							
1206-1	012382-157	Shell	25.40	25.40	9929	5180	TAYLOR	T-8200-1	2012/02/01		
PSV DETAILS											
		<b>Type(Thread/Flange)</b>		<b>ANSI Rating</b>			<b>Size(In/mm)</b>				
<b>PRD Inlet</b>							25.40				
<b>PRD Outlet</b>							25.40				
NDE Equipment Records											
Procedure #	Description	Manufacturer	Model#	Serial#	Due Date						
**** See Associated NDE Report											

## INSPECTION SUMMARY

VESSEL IS FIT FOR SERVICE.

## RECOMMENDATIONS

VESSEL IS FIT FOR SERVICE.

## NONCONFORMANCES/INSPECTION DEFICIENCIES



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### INSPECTION PLANNING

Inspection Strategy	_____	Availability	_____	Inspection Interval	_____
Inspection Date	2014/01/15	Date of Last Inspect	_____	Date of Next Insp	2018/01/15

### 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	Jamey Tanasichuk		Cert #	000411	Date	2014/01/15
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)	Accept		No	OVERALL GOOD CONDITION. NO DAMAGE OR EXTERNAL CORROSION. PAINT IN GOOD CONDITION.
V2	General Corrosion	Accept		No	NO EXTERNAL CORROSION.
V3	General Leaks	Accept		No	NO VISIBLE LEAKAGES NOTED AT TIME OF INSPECTION.
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	N/A		No	
V10	Painted Inactive Corrosion	N/A		No	
V11	Coating/Painting	Accept		No	PAINT IN GOOD CONDITION. NO PAINT PEELING.
V12	Expansion Joint or Bellows	N/A		No	
V13	Gauge/Site Glass	Accept		No	GAUGES ARE VISIBLE AND IN GOOD WORKING CONDITION. NO LEAKAGES OR CONTAMINATION.
V14	Shell	Accept		No	GOOD CONDITION.
V15	Jacket	N/A		No	
V21	Support Other (Please explain)	Accept			SKIRT IN GOOD CONDITION. WELDED TO FLOOR. VESSEL IS SECURE.
V22	Foundation	N/A		No	
V23	Anchor Bolts	N/A		No	WELDED TO FLOOR.
V24	Saddle/Skirt	Accept		No	SKIRT IN GOOD CONDITION. WELDED TO FLOOR. VESSEL IS SECURE.
V25	Davit	N/A		No	
V26	Fireproofing	N/A		No	
V31	Connections Other (Please explain)	N/A		No	
V32	Small Branches	Accept		No	THREADING FULLY ENGAGED. NO WEEPS.
V33	Nozzles	Accept		No	NO WEEPS.
V34	Manways	N/A		No	
V35	Reinforcing Pads	N/A		No	
V36	Inadequate Thread Engagement	N/A		No	
V37	Bolting	Accept		No	FLANGES PROPERLY BOLTED. NO SHORT BOLTING.
V38	Flanges	Accept		No	PROPERLY BOLTED, GOOD CONDITION. PAINT IN GOOD CONDITION.
V39	Leak Clamps	N/A		No	
V41	Insulation Other (Please explain)	N/A		No	
V42	Damage	Accept		No	NO DAMAGE.
V43	Penetrations	N/A		No	
V44	Insulation Jacket	N/A		No	
V45	Banding	N/A		No	
V46	Seals/Joints	Accept		No	NO VISIBLE LEAKAGES.
V51	Relief Devices Other (Please explain)	N/A		No	
V52	Corrosion	Accept		No	NO EXTERNAL CORROSION.
V53	Leaks	Accept		No	NO VISIBLE LEAKAGES.

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V54	Restricted Inlet/Outlet	N/A		No	
V55	Manual Operation Lever	N/A		No	

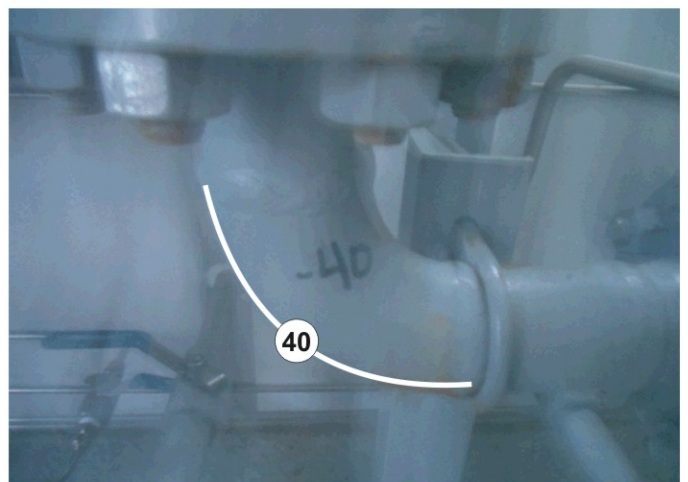
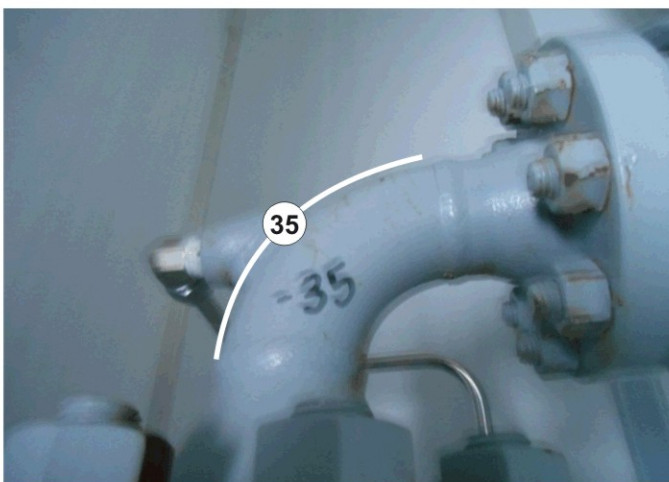
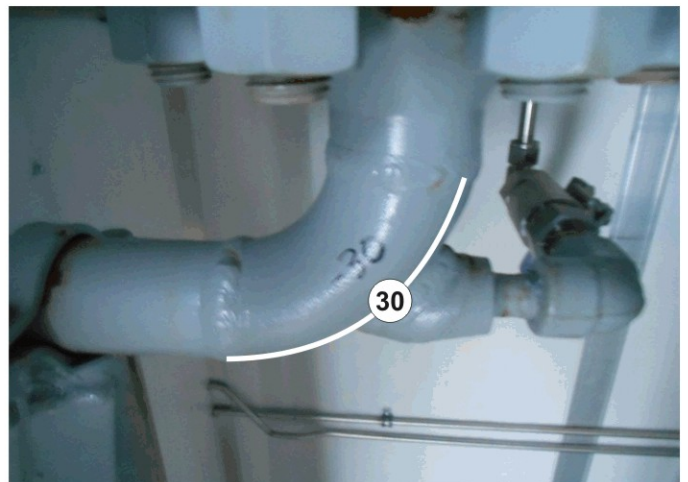
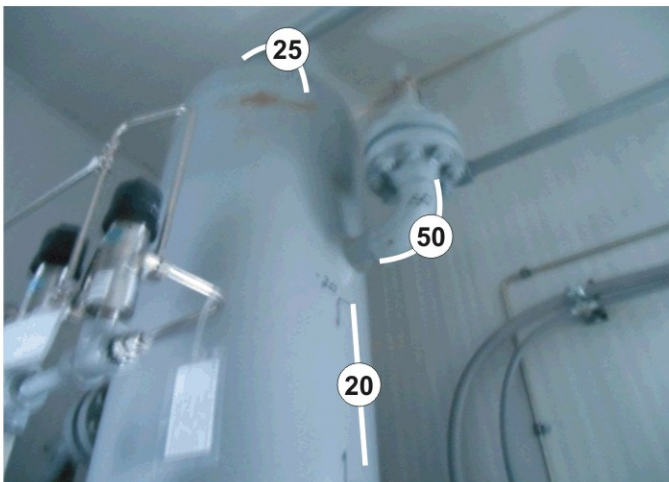
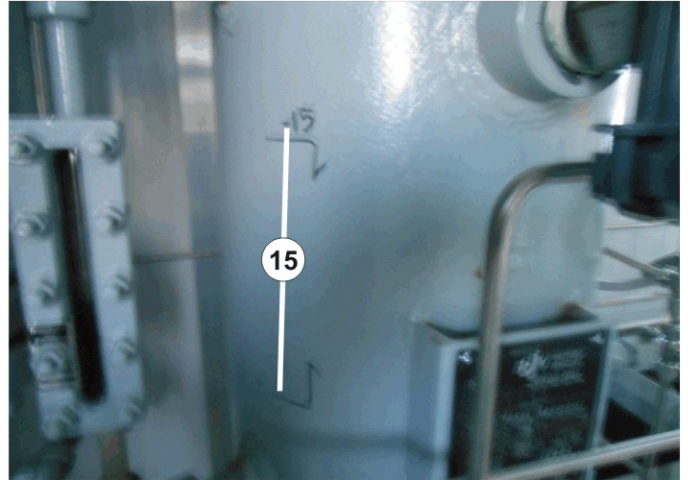
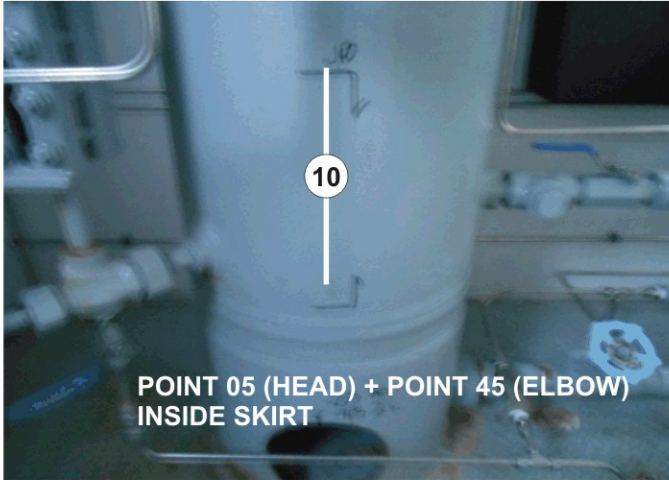
### DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

### DETAILED INSPECTION UT THICKNESS

CML	Nom. Thickness	CURRENT READINGS	short term corr rate	long term corr rate	remaining life	Survey Date	Comments
05 (HEAD)	20.62	22.15	0.0000	0.0000	198.0	2014/01/15	
(HEAD)	20.62	21.95				2013/01/29	
10 (SHELL)	21.44	22.38	0.0000	0.0000	198.0	2014/01/15	
(SHELL)	21.44	21.77				2013/01/29	
15 (SHELL)	21.44	21.62	0.0000	0.0000	198.0	2014/01/15	
(SHELL)	21.44	21.54				2013/01/29	
20 (SHELL)	21.44	21.74	0.0030	0.0030	62.3	2014/01/15	
(SHELL)	21.44	21.82				2013/01/29	
25 (HEAD)	20.62	21.51	0.0000	0.0000	198.0	2014/01/15	
(HEAD)	20.62	21.26				2013/01/29	
30 (90L 2 160)	8.74	8.38	0.0000	0.0000	198.0	2014/01/15	
(90L 2 160)	8.74	8.03				2013/01/29	
35 (90L 3 XS)	7.62	5.87	0.0000	0.0000	198.0	2014/01/15	
(90L 3 XS)	7.62	5.66				2013/01/29	
40 (90L 3 XS)	7.62	5.28	0.0000	0.0000	198.0	2014/01/15	
(90L 3 XS)	7.62	5.18				2013/01/29	
45 (90L 2 160)	8.74	8.28	0.0000	0.0000	198.0	2014/01/15	
(90L 2 160)	8.74	8.08				2013/01/29	
50 (90L 2 160)	8.74	8.20	0.0000	0.0000	198.0	2014/01/15	
(90L 2 160)	8.74	8.08				2013/01/29	

Inspected By	Signature	CGSB Level	CGSB	Survey Date	UT Equip	Due Date OF Calibration
Jamey Tanasichuk		1	11444	01/15/2014	109_81583903_EPOCH 4	06/17/2014



**OWNER:** HUSKY  
**EQUIPMENT NAME:** SEPARATOR  
**REGISTRATION #** 0611192  
**EQUIPMENT #** 66182387

**SERIAL #** 12283  
**NB#**  
**OWNER ID**

NOTES

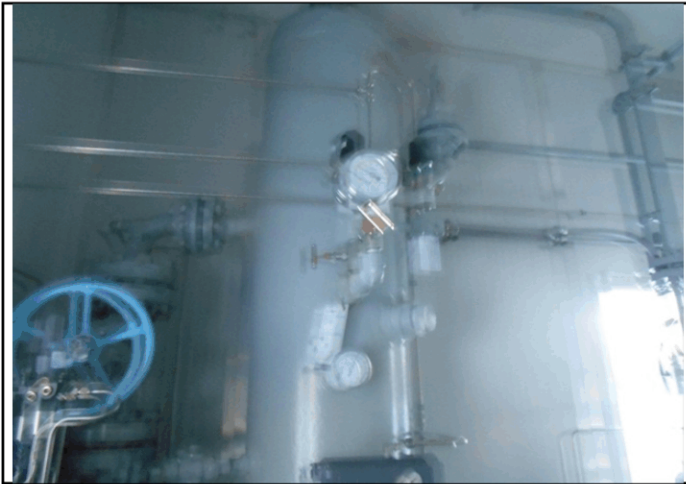




NAMEPLATE



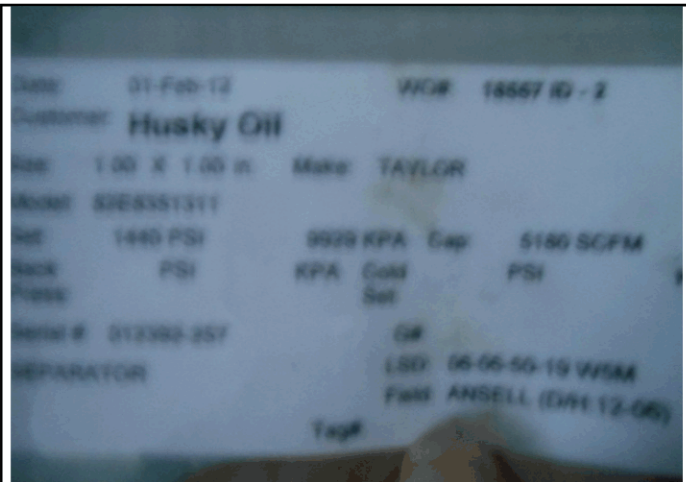
OVERALL



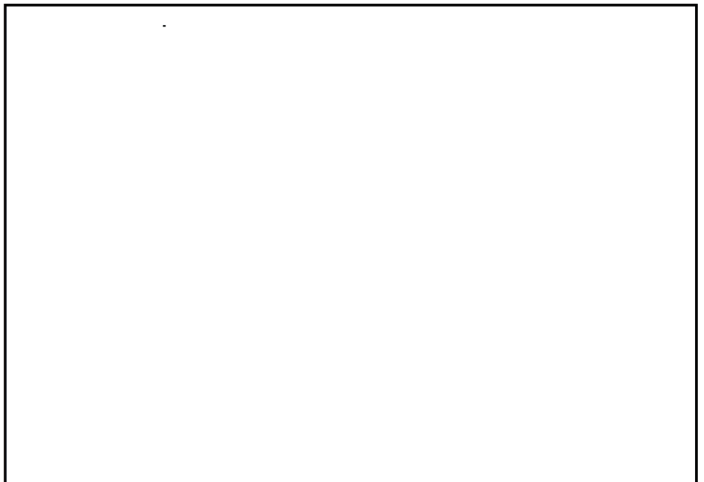
OVERALL



PSV



PSV TAG



OWNER: HUSKY	SERIAL # 12283	NOTES
EQUIPMENT NAME: SEPARATOR	NB#	
REGISTRATION # 0611192	OWNER ID	
EQUIPMENT # 66182387	ONCOR ID	