

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 02-08-050-19W5

Date: Jun 17, 2018

SAP Equipment ID: 66182401

VESSEL STATIC DATA						
Plant Minehead		Op Unit Satellite			System Field	
Prov. Insp. # NA		CRN F6388.231			Equip Tag # NA	
Equipment Description Fuel Gas Scrubber					Serial # 12209	
Manufacturer RJV Gasfield Services					Vessel Class	
Internal Access: Description: NA					Year Built 2011	
MAWP 150		PSI @ 100		°F		MDMT -20 °F
CODE :			RT : N/A		PWHT : No	
Diameter 8"		Length (T/T) 30 in		OAL 36 in		Vertical
Shell Mat'l	SA-106B		Thickness	8.1 mm		Corr Allowance 3.17 mm
Head Mat'l	SA-234-WPB/SA-516-70		Thickness	Top-7.16 mm Bottom-19.05 mm		Corr Allowance 3.17 mm
Nozzle Mat'l	NA		Thickness	NA mm / in		Corr Allowance 3.17 mm
Internal Coating: NO			Internal Clad : NO			Capacity NA m ³
Manway : NO			Inspection Port : NO			
Nozzle Rating	NA lb ANSI		Painted :		Insulated NO	

PROCESS DATA			
Product Description Fuel Gas Scrubber			
Operating Pressure 150		PSI	
Operating Temperature 100		°F	

PSV STATIC DATA						
Serial No.	Location	Set Pressure	Capacity SCFM	Manufacturer	Model / Type	Service Date / Company
012392-98	Fuel Gas Scrubber	150 psi	582	Taylor	82E4351311	20/09/17/Access

PSV DETAILS			
	Type (Thread/Flange)	ANSI Rating	Size (inches)
PRD Inlet	Threaded	N/A	1"
PRD Outlet	Threaded	N/A	1"

NDE Equipment Records					
Procedure#	Description	Manufacturer	Model#	Serial#	Due Date

INSPECTION SUMMARY

Inspection found all welds, connections, pressure gauge and PSV in good operating condition and fit for continued service. PSV set pressure was acceptable in relation to the scrubber MAWP, no fowling or upstream/downstream valves were noted.

RECOMMENDATIONS

None noted

NONCONFORMANCES / INSPECTION DEFICIENCIES

None noted

INSPECTION PLANNING

Inspection Strategy _____	Availability _____	Inspection Interval _____
Inspection Date _____	Date of Last Inspect _____	Date of Next Inspect _____

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	Justin Currie	Date	Jun 16, 2018
Company	Streamline Inspection Ltd	PESL #	000885
Reviewed and Approved by	_____	API #	57452
		Date	_____
		PESL #	_____
		API #	_____

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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)	Acceptable			
V2	General Corrosion	Acceptable			
V3	General Leaks	Acceptable	No evidence located		
V4	Vibration	Acceptable	No vibration		
V5	Dissimilar Flange Rating	N/A			
V6	Ladder/Stairway	N/A			
V7	Heads	Acceptable			
V8	Guy Wires	N/A			
V9	Electrical Ground	Acceptable	Secured/Indirect		
V10	Painted Inactive Corrosion	Acceptable			
V11	Coating/Painting	Acceptable			
V12	Expansion Joint or Bellows	N/A			
V13	Gauge/Site Glass	N/A			
V14	Shell	Acceptable			
V15	Jacket	N/A			
V21	Support Other (Please explain)	Acceptable	Welded Pipe Support		
V22	Foundation	N/A			
V23	Anchor Bolts	N/A			
V24	Saddle/Skirt	N/A			
V25	Davit	N/A			
V26	Fireproofing	N/A			
V31	Connections Other (Please explain)	N/A			
V32	Small Branches	Acceptable			
V33	Nozzles	N/A			
V34	Manways	N/A			
V35	Reinforcing Pads	N/A			
V36	Inadequate Thread Engagement	Acceptable	No Leaks		
V37	Bolting	N/A			
V38	Flanges	N/A			
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	Acceptable			
V51	Relief Devices Other (Please explain)	Acceptable	Good condition		
V52	Corrosion	Acceptable			
V53	Leaks	Acceptable	None located		
V54	Restricted Inlet/Outlet	Acceptable	No restrictions located		
V55	Manual Operation Lever	N/A			

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LSD: 02-08-050-19W5

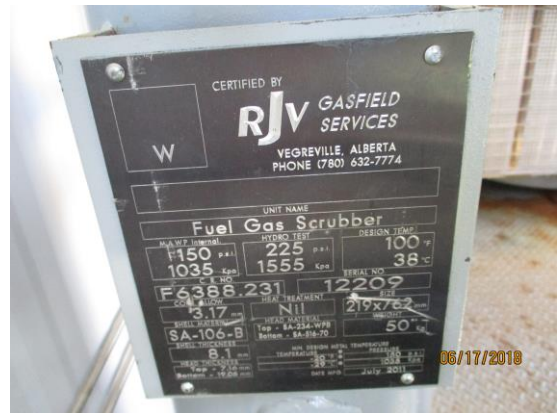
Date: Jun 17, 2018

SAP Equipment ID: 66182401

PHOTOS



LSD



SCRUBBER DATA PLATE



Overview



Pressure indicator



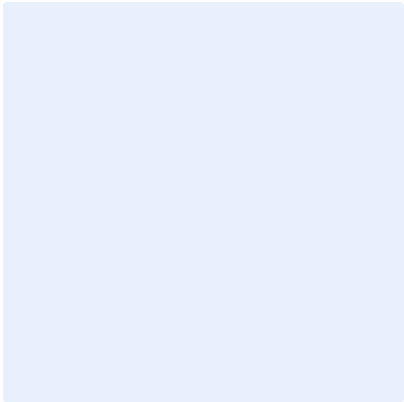
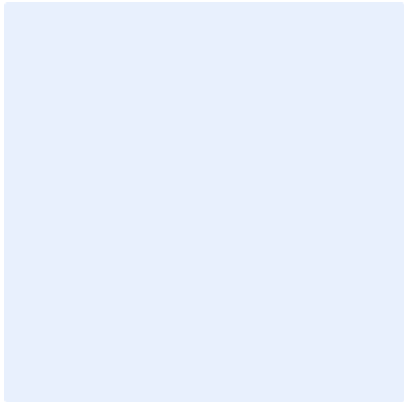
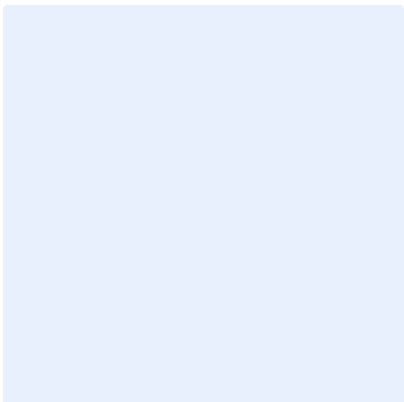
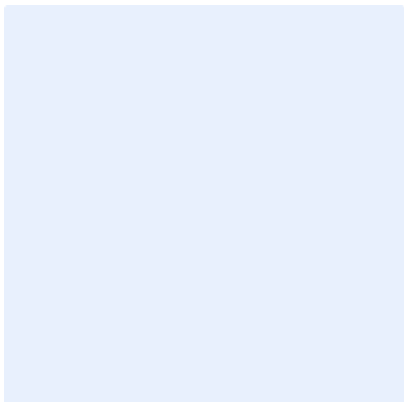
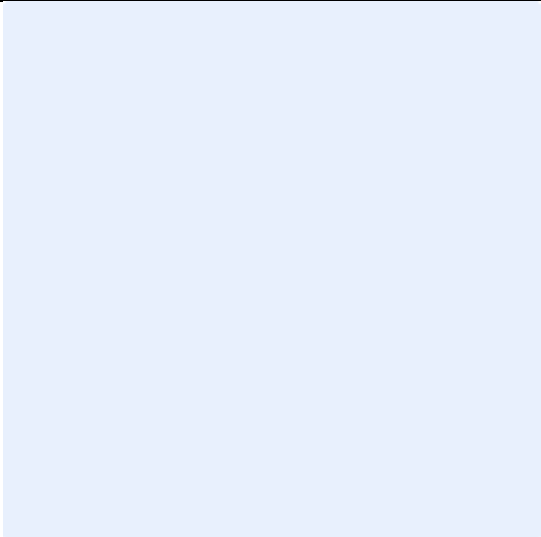
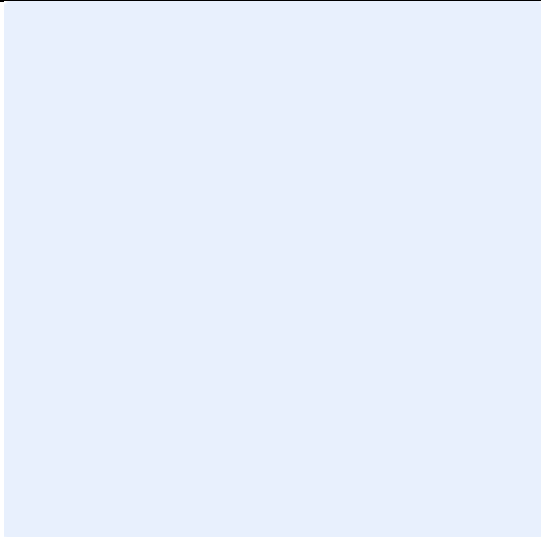
PSV Overview



PSV Service tag

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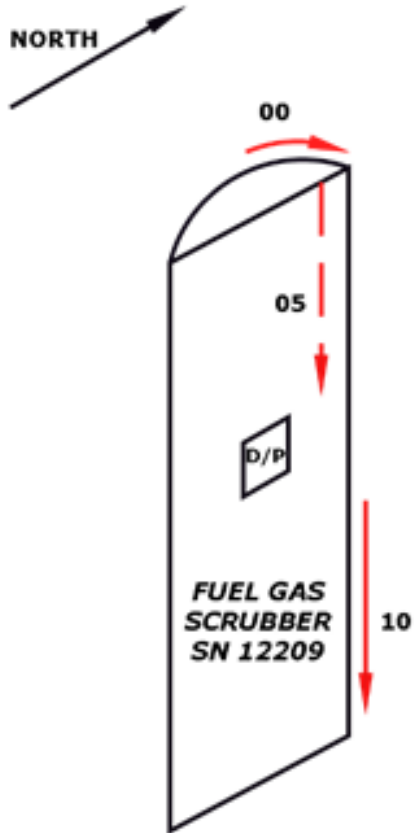
	
	
	



Location Name:	MINEHEAD	LSD:	05-08-50-19W5 (SURF)/02-08-50-19W5 (DH)	
Jur #:		Equipment/Tag No.		
Equipment Description:	FUEL GAS SCRUBBER			
Manufacturer:	RJV GASFIELD SERVICES LTD.			
Serial Number:	12209	CRN:	F6388.231	
Shell MAWP:	1035	KPA Shell Design Temp:	38	°C
Tube MAWP:		KPA Tube Design Temp:		°C
Shell Material:	SA-106-B	Head Material:	SA-234-WPB	
Shell Thickness:	8.10	mm Head Thickness:	7.16	mm
Corrosion Allowance:	3.17	mm Date Built:	2011	
Size:	219	mm Pipe / Rolled Plate:	PIPE	
RT:		Streamline Report #:	STL-18-xxx-DMS 28	

NOTES: SAP# 66182401







Ultrasonic Corrosion Survey

*All values are in millimeters unless otherwise stated.

Survey Name: **Husky Energy**

Date: **Jun 17, 2018**

Streamline Report #: **STL-18-xxx-DMS 28**

Inspector: **E. Legare**

LSD: 05-08-50-19W5 (SURF)/02-08-50-19W5 (DH)	Area: MINEHEAD	Location: FIELD
Jur #:	Tag Number:	Vessel Name: FUEL GAS SCRUBBER
CRN: F6388.231	Year Built: 2011	Serial Number: 12209
RT:	Vessel CA: 3.170 mm	Manufacturer: RJV GASFIELD SERVICES LTD.
	Shell MAWP: 1035 KPA	Tube MAWP: KPA
	MAWT: 38 °C	MAWT: °C
		Pipe/Plate PIPE

CML Description	Baseline	Flange ANSI:	Material: SA-234-WPB
00 HEAD	2018	CA	T Min
Shape: Ellipsoidal	Min 8.64	Flag 3.990	Nominal 7.160
OD: 219.075	Avg 9.30		STCR mm/yr 0.000
Spec: ASME VIII Div.1	Comments:		LTCR mm/yr 0.000
			Remaining Life:
			Retirement Date:

CML Description	Baseline	Flange ANSI:	Material: SA-106-B
05 SHELL	2018	CA	T Min
Shape: Cylindrical	Min 7.77	Flag 4.930	Nominal 8.100
OD: 219.075	Avg 8.08		STCR mm/yr 0.000
Spec: ASME VIII Div.1	Comments:		LTCR mm/yr 0.047
			Remaining Life:
			Retirement Date:

CML Description	Baseline	Flange ANSI:	Material: SA-106-B
10 SHELL	2018	CA	T Min
Shape: Cylindrical	Min 7.67	Flag 4.930	Nominal 8.100
OD: 219.075	Avg 8.18		STCR mm/yr 0.000
Spec: ASME VIII Div.1	Comments:		LTCR mm/yr 0.061
			Remaining Life:
			Retirement Date: