

GENERAL INSPECTION FORM						
Field:			Skid No. : 6126			
Facility: Goodfare Gas Gathering			Location (LSD) Surface: 06-21-72-11-W6M			
Vessel Name & Equipment Number: 3 Phase Separator			PSV Only-Installed on piping: <input type="checkbox"/>			
Orientation: Horizontal <input type="checkbox"/> or Vertical <input checked="" type="checkbox"/>			Location (LSD) Down hole:			
Status: In Service <input checked="" type="checkbox"/> or Out of Service (blinded / fully isolated) <input type="checkbox"/>			Com. Inspection <input type="checkbox"/> Shop Inspection <input type="checkbox"/> Reg. Inspection <input checked="" type="checkbox"/>			
PRESSURE VESSEL NAMEPLATE DATA						
"A" or "G" or "S" (Sask.) or BC Registration Number.			CRN Number: L 7115.2			
A0455071			Size (diameter x length- estimate if necessary): 20 in x 90 in			
Vessel serial number: C9390.VS			Shell material: SA 106 B			
Shell thickness: 26.2 mm			Head material: SA 516 70 N			
Head thickness: 22.2 mm			Tube material:			
Tube wall thickness:			Tube length:			
Tube diameter:			Channel material:			
Channel thickness:			X-ray: RT 2			
MAWP Design Temp.	Shell: 1440 PSI		Code parameters: ASME VIII, Div 1			
	Tubes:		Heat treatment? yes _____ no <u>X</u>			
	Shell: 130 deg F		Joint efficiency (if on nameplate):			
Tubes:		Manufacturer: Rushton				
Man Way: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N			Year built: 2000			
PRESSURE SAFETY VALVE DATA						
PSV set pressure from P&ID _____ KPA _____ PSI <input type="checkbox"/> N/A			Piping PSV P & ID. # _____ <input type="checkbox"/> N/A			
PSV set pressure as per P&ID : <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA			PSV set pressure is \leq than MAWP of vessel or piping : <input checked="" type="checkbox"/> Y <input type="checkbox"/> N No PSV attached because vessel is vented to atmosphere <input type="checkbox"/> Y			
Tag Number(s)	Set Pressure	Manufacturer/ Model / Serial #	Capacity (ie:SCFM/ GPM,etc)	Size (Inlet x Outlet)	Service Co & Serv Co ID# or WO#	Set Date (mm/dd/yyyy)
G709851	1100 PSI	Mercer / 8117151T5G11 / 331212	3797 scfm	1 in x 1 in	King's - WO# 53769	06/18/2013
SERVICE CONDITIONS-INDICATE ALL THAT APPLY						
Sweet <input checked="" type="checkbox"/>	Sour <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input checked="" type="checkbox"/>	Water <input checked="" type="checkbox"/>		
Amine <input type="checkbox"/>	LPG <input type="checkbox"/>	Condensate <input checked="" type="checkbox"/>	Air <input type="checkbox"/>	Glycol <input type="checkbox"/>		
Other (Describe):						

PV Inspection Interval 120 months ABSA Grade 1 ☐ 2 ☐ 3 ☒ similar service criteria applied to interval: Yes ☐ Generic ITP ☒
 PSV Service Interval as per PCMS months ABSA Grade 1 ☐ 2 ☐ 3 ☐ similar service criteria applied to interval: Yes ☐ Equipment specific ITP ☐

Shop Inspector _____ Date _____
 Print and Initial

Construction/
 VE Inspector : Dallas Wiedman _____ Date: Apr 01, 2015
 Print and Initial


Contractor Superintendant _____ Date _____
 Print and Initial

Inspection reports reviewed/accepted by:
 ConocoPhillips A&OI Specialist Neri Johnson ISPV# 680 _____ Date 7/13/2015

Fill out all forms as completely as possible. All information is important! Use back of sheets to record additional information or sketch if required.

External Inspection Items	G	F	P	N/A	Comments
Insulation Verify sealed around man ways, nozzles, valves, etc., no damage present, and there is no ingress/egress of moisture. Are straps secured?				X	No insulation.
External Condition Assess paint condition, areas peeling, record any corrosion, (check roof interface for corrosion), damage, distortion, etc. (record location, size and depth of corrosion or damage)		X			Paint is in fair condition – oxidized with some surface corrosion to 30% of vessel – no pitting.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.		X			Product is seeping from PSV to vessel connection.
Skirt/ Saddle Assess condition of paint, fire protection, concrete. Look for corrosion, buckling, dents, etc. Look at vessel surface area near supports. Verify no signs of leakage at attachment to vessel and attachment welds are acceptable. Is ground wire attached? Adequate access for UT inspection? Note: For horizontal vessels mounted on saddles ensure anchor bolting loose on one end to allow for expansion/contraction after installation.	X				Skirt: No distortion, no corrosion at skirt to head welds – no leaks. Ground cable attached to skid.
Anchor Bolts Hammer tap to ensure secure. Look for corrosion, cracking in threads or signs of deformation.	X				Firmly bolted to skid deck.
Concrete foundation Check for cracks, spalling, etc.				X	No concrete – skid is mounted on pilings.
Ladder / Platform Describe general condition, ensure support is secure to vessel, describe any hazards.				X	No ladder or platform.
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted? Inspect gussets for cracking.	X				Threaded and flanged fittings – fully engaged. No deflection – no leaks. No gussets.
Gauges Ensure gauges/gauge glass(es) are visible, working, no leakage, and suitable for range of MAWP/ Temp.	X				Pressure gauge: 0 to 1500 PSI. Temp gauge: 0 to 250 deg F.
External Piping Ensure pipe is well supported. All clamps, supports, shoes, etc. in place. Look for evidence of structural overload, deflection, etc., paint condition, external corrosion?	X				Well supported, no deflection, all clamps in place. Piping is painted inside building – no exposed metal.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Well supported – no leaks.
NDE methods Was UT/ MPI done on vessel	X				Ultrasonic thickness survey carried out – no metal thickness detected below nominal minus corrosion allowance.
Piping Installation Items	Y	N	N/A	Comments	
Are all flange connections free from tape/wrap which may have been used for leak testing?	X				
Is the soil-air interface for the piping wrapped properly?	X			Yes	
Is there potential to create future mechanical damage from contact with grating, loose tubing etc.?		X			
Note: refer to piping inspection form for in-service inspection of pressure piping (Form 2113)					
Observations:					

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VE Inspector : Dallas Wiedman

(Please Print)


Date: Apr 01, 2015

PSV Configuration Items	Y	N	N/A	Comments
Is PSV Inlet/Discharge free of obstruction? Check for contaminants (if possible) and verify full pipe diameter from PSV inlet/discharge to point of connection. Not leaking?			X	
Flexible hoses present on inlet/outlet piping?		X		
If yes, flexible hose size > diameter than piping by 1 nominal pipe size (ie: 1" piping, 1 1/2" flexible hose). Flexible hose free of misalignment?			X	If hose same diameter as piping follow up with Engineering to ensure adequate capacity.
Are all block valves in PSV relief path full port and locked/car sealed in the open position?			X	No block valves present.
Is the PSV inlet/discharge braced/supported by piping, brackets etc?	X			
Are threaded PSV's, mounted to prevent turning to the left or right if PSV opened (i.e. if an elbow is used below PSV, PSV should point in line with the inlet piping to the elbow)?	X			
Are the PSV's mounted vertically?	X			
For PSV's vented to atmosphere, do PSV's have a tail pipe that is braced and protected from rain/snow ingress (ie: rain cap)? Low point drain if pointed upwards? Shipping plugs removed?	X			
Does PSV discharge orient away from areas that may be occupied by personnel (minimum 7' above ground/walkway), and away from other units, especially air intakes, non-classified buildings, and burner inlets/exhaust stacks?	X			
Does discharge line have pocketed sections? If yes, are pocketed sections protected from freezing? Are these sections drained periodically?		X		Ensure PM in place for periodic draining if pocketed.
Do pop lines terminate into upper third of pop tank and are lines secured and self draining?			X	
Is there a rupture disc and if so is it at the proper pressure rating?			X	
Does the rupture Disc have a pressure bleed off point?			X	
Are all PSV <u>seal</u> wires intact?	X			
Have all transit wires been removed from lift lever?			X	
If this is a bellows style PSV, is the bonnet vented to a safe location?			X	

Observations:

Product seeping from PSV to vessel connection – requires re sealing.

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(Please Print)

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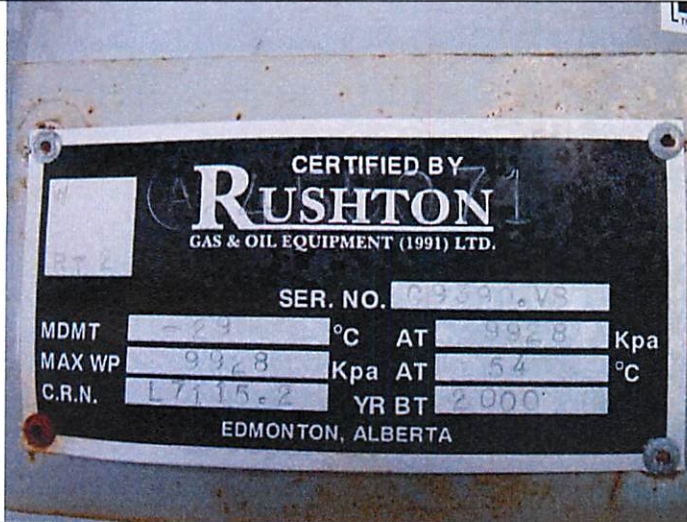
Photo Table



LSD



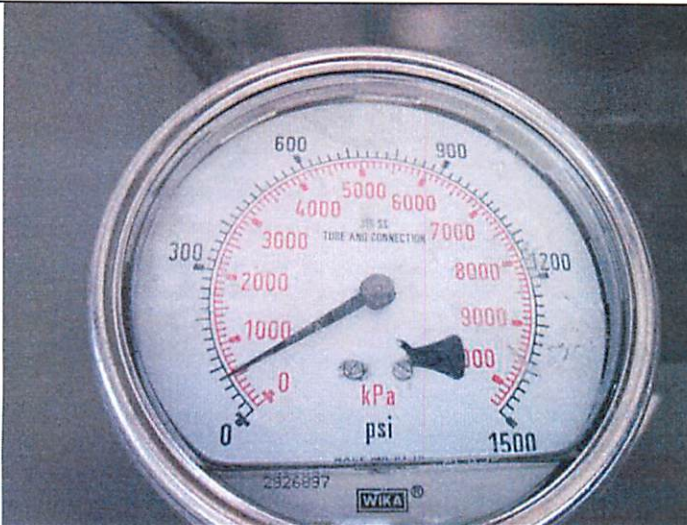
Vessel Overview



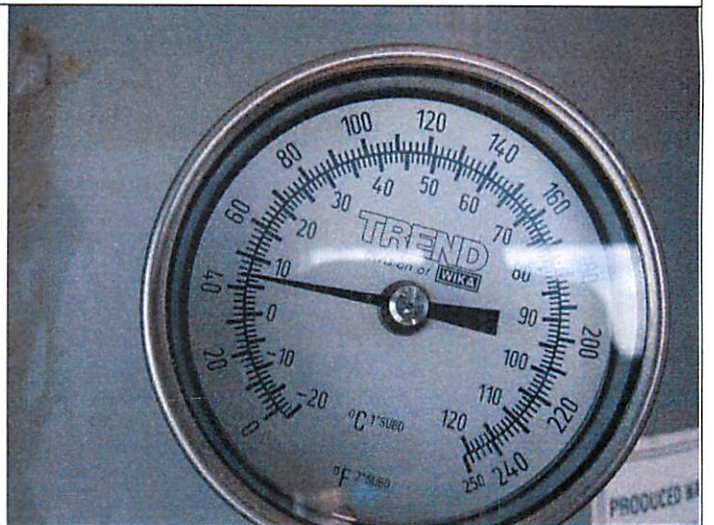
Data Plate



Skirt



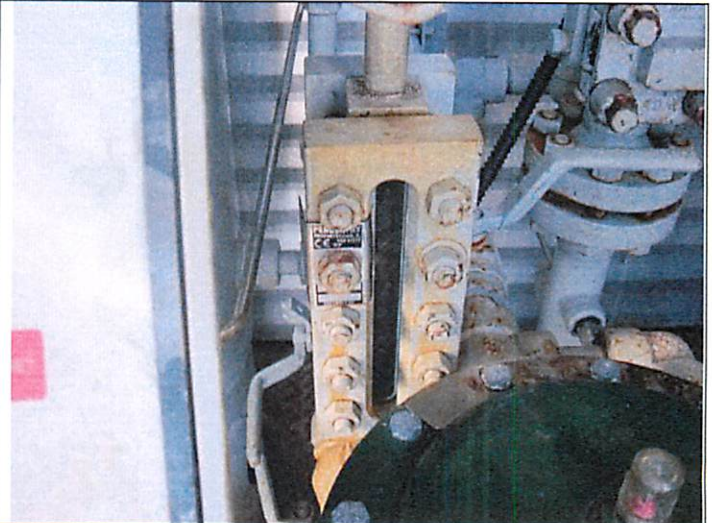
Pressure Gauge



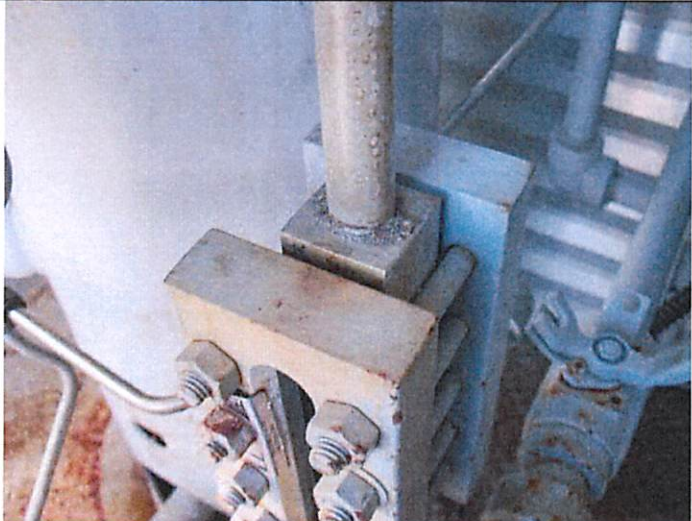
Temperature Gauge



Upper Liquid Level



Lower Liquid Level



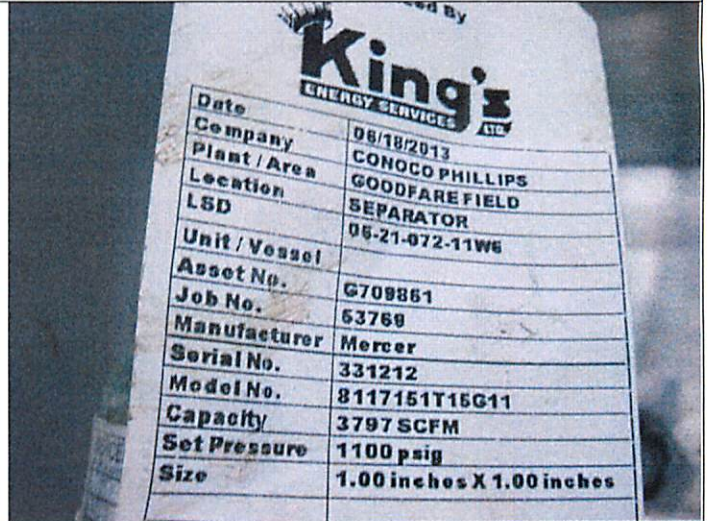
Lower liquid level leaking gas. Audible (loud), Abundant LEL's



PSV Overview



Product weeping from PSV fitting



PSV Service Tag