



LSD: 01-02-038-03 W5M Date: September 25, 2014 SAP Equipment ID:

Plant Sy			VESSEL	STATIC DATA		
	lvan Lake C	as Plant		ylvan Lake	System Flare	
Prov Insp. #	Ivan Bake C	ous i iuiit	CRN	yrvan Bake	Equip Tag # (Barcode) 43357	7
Equipment Descrip	otion Flar	e Knockou			Serial #	
Manufacturer		nown			Vessel Class Non-code Ve	essel
Internal Access	YES		Description:	Manway	Year Built	
MAWP 14.9		psi	(a)	0	MDMT 0	
Code None		RT:	4		PWHT NO	
Diameter 84"	Length	(T/T) 132	." O <i>i</i>	AL	Horizontal	
Shell Mat'l			Thickness		Corr. Allowance	
Head Mat'l			Thickness		Corr. Allowance	
Nozzle Mat'l			Thickness		Corr. Allowance	
Internal Coating	NO		Internal Clad:	NO	Capacity	m ³
Manway:	YES		Inspection Port	NO	Saddle	
Nozzle Rating	150 1	b ANSI	Painted:	YES	Insulated NO	
			PROC	ESS DATA		
Product Description			T -		Sweet	
Operating Pressure	14.9 ps	i	Operation	ng Temperature	59 ° F	
There were missing	anchor bolts	S.				
Ensure that the miss			stalled and that th		grounded.	
Ensure that the missi Monitor the depth ar The vessel was not a The vessel was not a	anchored.	gouges at	stalled and that th next scheduled in	e vessel is properly		
The vessel was not a The vessel was not g	anchored.	gouges at	stalled and that the next scheduled in CONFORMANCES	e vessel is properly ternal inspection.	CIENCIES	
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The vessel was not a The vessel was not g	anchored.	gouges at	stalled and that the next scheduled in CONFORMANCES	e vessel is properly ternal inspection. / INSPECTION DEFICATION PLANNING	CIENCIES	
The vessel was not a The signatures below c	anchored. grounded.	NONG A Decitions/tes	INSPECT	e vessel is properly ternal inspection. / INSPECTION DEFICATION ted in accordance with	Inspection Interval	I that the
The vessel was not a The vessel was not a The vessel was not g Inspection Strategy Inspection Date The signatures below c specified equipment is	anchored. grounded.	NONG A Dections/tes for service	INSPECTATION AND LAST LAST LAST LAST LAST LAST LAST LAST	e vessel is properly ternal inspection. / INSPECTION DEFICATION ted in accordance with	Inspection Interval Date of Next Inspect h the identified inspection strategy and	
The vessel was not a The signatures below c specified equipment is Inspected by	anchored. grounded. ertify that insp	NONG A Dections/tes for service	INSPECT	e vessel is properly ternal inspection. / INSPECTION DEFICATION ted in accordance with	Inspection Interval Date of Next Inspect h the identified inspection strategy and Date Septembe	I that the r 25, 2014
The vessel was not a The signatures below c specified equipment is Inspected by Reviewed and Approve	ertify that insponsible considered fit	NONG A Dections/tes for service	INSPECTATION AND LAST LAST LAST LAST LAST LAST LAST LAST	ION PLANNING CERTIFICATION ted in accordance with inspection.	Inspection Interval Date of Next Inspect h the identified inspection strategy and Date Septembe	
The vessel was not a The signatures below c specified equipment is Inspected by	ertify that insponsible considered fit	NONG A Dections/tes for service	INSPECTATION AND LAST LAST LAST LAST LAST LAST LAST LAST	e vessel is properly ternal inspection. / INSPECTION DEFICATION ted in accordance with	Inspection Interval Date of Next Inspect h the identified inspection strategy and Date Septembe	

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External Inspection Comments

ID	General	Condition
V1	Other (please explain)	☐ Good ☐ Fair ☐ Poor ☐ N/A
This i	is a non-code vessel.	
V2	General Corrosion	Good Fair Poor N/A
V3	General Leaks	Good Fair Poor N/A
V4	Vibration	Good Fair Poor N/A
V5	Dissimilar Flange Rating	Good Fair Poor N/A
	· · · · · · · · · · · · · · · · · · ·	
V6	Ladder/Stairway	Good Fair Poor N/A
	-	
V7	Heads	Good Fair Poor N/A
V8	Guy Wires	☐ Good ☐ Fair ☐ Poor ☒ N/A
V9	Electrical Ground	Good Fair Poor N/A
Vesse		electrical ground cable found at the time of inspection.
V10	Painted Inactive Corrosion	☐ Good ☐ Fair ☐ Poor ☒ N/A
V11	Coating/Painting	☐ Good ☐ Fair ☐ Poor ☐ N/A
V12	Expansion Joint or Bellows	Good Fair Poor N/A
	,	
V13	Gauge/Site Glass	Good Fair Poor N/A
V14	Shell	⊠ Good ☐ Fair ☐ Poor ☐ N/A
V15	Jacket	Good Fair Poor N/A
	Supports	Condition
V21	Other (please explain)	Good Fair Poor N/A
V22	Foundation	⊠ Good ☐ Fair ☐ Poor ☐ N/A
T 10.0		
V23	Anchor Bolts	Good Fair Poor N/A
	ing anchor bolts.	
V24	Saddle Skirt	Good Fair Poor N/A
1/05	D ''	
V25	Davit	Good Fair Poor N/A
VIOC	E	Cood Frin Door N/A
V26	Fireproofing	Good Fair Poor N/A
	Connections	Condition
V31	Other (please explain)	Good Fair Poor N/A
V 31	Other (picase explain)	
V32	Small Branches	Good Fair Poor N/A
V 34	Sman Di anches	

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V33	Nozzles	☐ Good ☐ Fair ☐ Poor ☐ N/A
V34	Manways	Good Fair Poor N/A
V35	Reinforcing Pads	Good Fair Poor N/A
T 70 6		
V36	Inadequate Thread Engagement	Good Fair Poor N/A
	were short-bolted studs on the inlet fl	
V37	Bolting	Good Fair Poor N/A
V38	Flanges	Good Fair Poor N/A
V 30	Flanges	Good Fall Fool N/A
V39	Leak Clamps	Good Fair Poor N/A
10)	Leax Clamps	Good Tun Tool NIVI
	Insulation	Condition
V41	Other (please explain)	Good Fair Poor N/A
V42	Damage	Good Fair Poor N/A
V43	Penetrations	Good Fair Poor N/A
V44	Jacket	Good Fair Poor N/A
X74F	D II	
V45	Banding	Good Fair Poor N/A
V46	Seals/Joints	Good Fair Poor N/A
V 40	Scals/30IIIts	Good Fall Tool NA
	Relief Device	Condition
V51	Other (please explain)	Good Fair Poor N/A
-	, , , , , , , , , , , , , , , , , , ,	
V52	Corrosion	Good Fair Poor N/A
V53	Leaks	Good Fair Poor N/A
V54	Restricted Inlet/Outlet	Good Fair Poor N/A
¥755	N 10 " 1	
V55	Manual Operation Lever	Good Fair Poor N/A

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Internal Inspection Comments

ID	General	Condition
V1	Other (Please Explain)	☐ Good ☐ Fair ☐ Poor ☐ N/A
There	e were numerous areas where broken ta	ck welds were left in place, as well as mechanical gouges and plate
defec	ts found throughout the vessel. Please	see the table below for further details.
V2	Corrosion (Depth, Length, Width)	Good Fair Poor N/A
		vessel, estimated to be approximately 0.010"-0.020" deep, with
isolat	ed areas of minor pitting.	
V3	Erosion	Yes No
V4	Distortion	Yes No
V5	Blisters	Yes No
V6	Deposits	∑ Yes □ No
	was minor residue and debris present	
V7	Heads	Good Fair Poor N/A
Areas	s of mechanical gouges	
V8	Welds	☐ Good ☐ Fair ☐ Poor ☐ N/A
There	were backing plates used on the welds	s. The backing plates appeared to be in good condition.
V9	Nozzles	Good Fair Poor N/A
Debri	is was present in several of the nozzles	
V10	Shell	Good Fair Poor N/A
Areas	s of mechanical gouges	
V11	Gasket Surfaces	☐ Good ☐ Fair ☐ Poor ☐ N/A
	Internals	Condition
V21	Other (please explain)	☐ Good ☐ Fair ☐ Poor ☐ N/A
The i	nternal inlet piping and defleftor plate	appeared to be secure and in good condition.
V22	Demister	Good Fair Poor N/A
V23	Baffle / Weir	Good Fair Poor N/A
V24	Sparger	Good Fair Poor N/A
V25	Thermowells	☐ Good ☐ Fair ☐ Poor ☒ N/A
V26	Metallic Linings	Good Fair Poor N/A
V27	Non-Metallic Linings	☐ Good ☐ Fair ☐ Poor ☒ N/A
V28	Trays	☐ Good ☐ Fair ☐ Poor ☒ N/A
V29	Tray Rings	☐ Good ☐ Fair ☐ Poor ☒ N/A
V30	Other Welded Attachments	☐ Good ☐ Fair ☐ Poor ☒ N/A

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Issues Found During Inspection

Type of Issue	Depth	Location
Pit	0.060"	Bottom of East Shell
Plate Defect	0.155"	North Side of West End of Shell
Plate Defect	0.065"	Bottom of West End of Shell
Plate Defect	0.125"	Bottom of West End of Shell
Plate Defect	0.135"	Bottom of West End of Shell
Broken Tack Weld	1" Long	Top of West End of Shell
Broken Tack Weld	-	Bottom of West End of Shell
Broken Tack Weld	2" Long - 0.095"	Bottom of West End of Shell
Broken Tack Weld	-	Top of West Head
Gouge	0.110"	East Head (Bottom)
Gouge	3" Long (Shallow)	East Head (Bottom)
Gouge	3" Long - 0.050"	East End of Shell (North)
Gouge	7" Long (Shallow)	Bottom of East End of Shell
Gouge	6" Long (Shallow)	Bottom of East End of Shell
Gouge	2" Long – 0.095"	Bottom of East End of Shell
Gouge	4" Long – 0.090"	Bottom of East End of Shell
Gouge	0.040"	Bottom of West End of Shell

Magnetic Particle Inspection Comments:

Wet Visible Magnetic Particle Inspection (WVMPI) and Wet Fluorescent Magnetic Particle Inspection (WFMPI) were performed on two, 2" cut outs prior to a new liquid level bridle being installed. No cracks or other indications were found at the time of inspection.

Wet Visible Magnetic Particle Inspection (WVMPI) was also performed on all of the new liquid level bridle attachment welds. No indications were found.

Post Welding:

Wet Visible Magnetic Particle Inspection (WVMPI) and Wet Fluorescent Magnetic Particle Inspection (WFMPI) were performed on the completed welds, 24 hours after the completion of the welding, to ensure no cracks or other welding defects were present in the weld and heat affected zones. No rejectable indications were found at the time of inspection.

Chief Inspector Certification #	Assigned Interval	
Chief Inspector Signature	<u>Date</u>	

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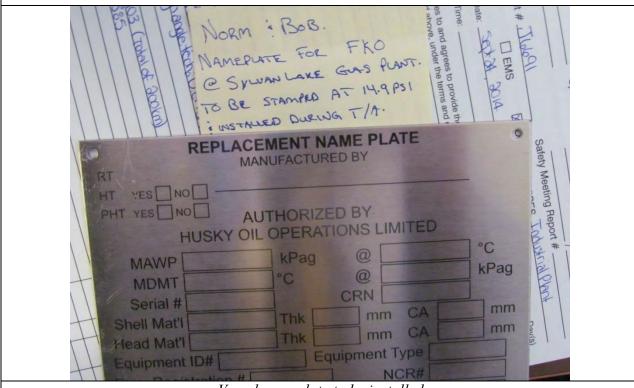


LSD: 01-02-038-03 W5M Date: September 25, 2014 SAP Equipment ID:

Pictures



General view of LSD sign



Vessel nameplate to be installed

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SAP Equipment ID:



PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 01-02-038-03 W5M Date: September 25, 2014



General view of vessel



Vessel head (east)

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Missing anchor bolts and concrete foundation

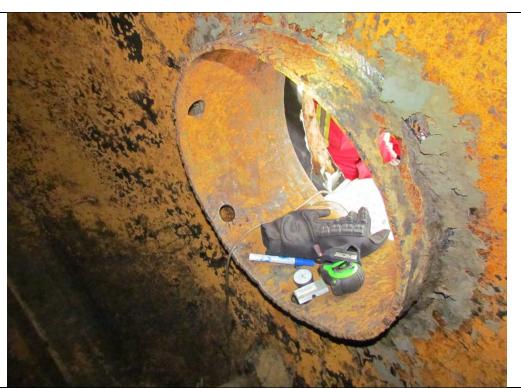


Vessel manway (west head)

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General view of vessel manway



Short bolting on inlet flange

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Vessel inlet piping and deflector plate assembly



Backing plates for weld seams

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Bottom nozzles were obstructed with debris



Nozzle has been removed in east head

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Discharge pipe in manway cover



Non full penetration weld for new nozzle

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New nozzle weld (1)



New nozzle weld (2)

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0.065"/0.125"/0.135" plate defects in bottom of west end of shell



Broken tack weld in top of west head

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0.110" Depth gouge in east head (bottom)



Internal vessel pipe and backing plate at west head

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General view of 2" cut out



Liquid level bridle attachment welds

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General view of completed weld (1)



General view of completed weld (2)

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Cover Page – Static Equipment Inspection Report						
Client:	Husky Energy				on Date:	September 25, 2014
Facility:	Sylvan Lake	Gas Plant		LSD:		01-21-038-03 W5M
Requested By:	Bob Marchal	ζ		Equipm	ent#:	
Equipment:	Flare Knocko	out Drum				
Equipment Status						
☐ In Service	☐ Standby			veet Service		Insulated
Not In Service	Unknow			ur Service		Not Insulated Not Insulated
Procedure						
SISL-1 MT Inspection		5 UT Lamination		: 16 Automa	ted LIT	SISL-24 VE/VI Inspection
SISL-2 PT Inspection		10 Hardness Testin		-20 Corrosio		SISL-28 Piping Inspection
☐ SISL-3 UT Inspection of		13 Holiday Testing	SISI	-21 Comp. (Cracking Survey	Other
SISL-4 UT Thickness	☐ SISL-1	14 Coating Repair		23 Installat	ion Inspection	
Technicians/Insp	ectors			Certi	fications	
Nyssa Moore	ISI# (000759	API-510	# 48773		
Scott Anderson	CGSI	B# I-UT# 17077	CGSB II	-MT# 1707	'7	
		Т	echniqu	e		
UT Thickness	MPI (Dry Powe		Visual (Exte		LPI (Visi	ble Aqueous)
UT Shearwave	MPI (Wet Fluo		Visual (Inte			ble Solvent Removable)
UT (C-scan) Phased Array			Hardness (N Hardness (T			rescent Water Washable) rescent Solvent Removable)
Automated UT	Holiday Detect		Chemical E		☐ Li i (i luo	rescent Solvent Removable)
	Equipment				Cons	umables
Ultrasonic	Magneti	a Dandiala				
		c Particle	M	agnetic Par	ticle	Liquid Penetrant
☐ DMS-2 S/N:	⊠ AC Y	/oke		agnetic Par Magnaflux	7HF (black)	Liquid Penetrant SKL-WP Penetrant
☐ DMS-2 S/N: ☐ USN-52L	⊠ AC Y □ DC Y	Yoke Yoke] Magnaflux] Magnaflux	7HF (black) WCP-2 Contrast	Paint SKL-WP Penetrant SKD-S2 Developer
☐ DMS-2 S/N: ☐ USN-52L ☐ USN-58L		Yoke Yoke anent Yoke		Magnaflux Magnaflux Magnaflux	7HF (black) WCP-2 Contrast 14AM Fluoresce	Paint SKL-WP Penetrant SKD-S2 Developer SKC-S Cleaner
☐ DMS-2 S/N: ☐ USN-52L ☐ USN-58L ☐ USN-Phaser ☐ Westdyne Intraspec 4	□ AC Y □ DC Y □ Perm □ Black Other	Yoke Yoke anent Yoke klight		Magnaflux Magnaflux Magnaflux Red Oxide Grey Oxide	7HF (black) WCP-2 Contrast 14AM Fluoresce Powder	Paint SKL-WP Penetrant SKD-S2 Developer
☐ DMS-2 S/N: ☐ USN-52L ☐ USN-58L ☐ USN-Phaser ☐ Westdyne Intraspec 4 Other	☐ AC Y ☐ DC Y ☐ Perm ☐ Black Other ☐ RVT	Yoke Yoke anent Yoke clight XLG-3		Magnaflux Magnaflux Magnaflux Magnaflux Red Oxide Grey Oxide Chogel II	7HF (black) WCP-2 Contrast 14AM Fluoresce Powder	Paint SKL-WP Penetrant SKD-S2 Developer SKC-S Cleaner DP-51 Penetrant
☐ DMS-2 S/N: ☐ USN-52L ☐ USN-58L ☐ USN-Phaser ☐ Westdyne Intraspec 4	AC Y DC Y Perm Black Other RVT RVT	Yoke Yoke anent Yoke clight XLG-3 Non-articulating		Magnaflux Magnaflux Magnaflux Red Oxide Grey Oxide	7HF (black) WCP-2 Contrast 14AM Fluoresce Powder e Powder	Paint SKL-WP Penetrant SKD-S2 Developer SKC-S Cleaner DP-51 Penetrant DR-62 Developer
☐ DMS-2 S/N: ☐ USN-52L ☐ USN-58L ☐ USN-Phaser ☐ Westdyne Intraspec 4 Other ☐ Tinker Rasor Holiday D	AC Y DC Y Perm Black Other RVT Petector RVT Magnetic Part	Voke Voke anent Yoke dight XLG-3 Non-articulating		Magnaflux Magnaflux Magnaflux Red Oxide Grey Oxide Echogel II Sono 1100	7HF (black) WCP-2 Contrast 14AM Fluoresce Powder e Powder	Paint SKL-WP Penetrant SKD-S2 Developer SKC-S Cleaner DP-51 Penetrant DR-62 Developer
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