Storage Tank External Visual Inspection Report



Organization:	Husky	Inspection Date:	03/05/2011 12:00:00AM
Plant:	Heavy Oil & Gas	Equipment ID:	66143442
		Asset No:	66143442
		System:	00365 100/08-27-048-02W4/00 SWB
		Operating Unit:	L7-02-001 Blackfoot/Lloyd

Background

scription:	TANK, UNIVERSAL 160M3
	,

Inspection

Inspector:	IRIS NDT	Company:	Insulated:	Υ	
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External Location Categories

Barrier Penetrations:	Damaged Insulation:	Shell to Floor Joint Insulated:	Insulation Rings:	

Inspection Comments

ID	Description	Condition	Location	NCR	Comments
T6	Ladder/Stairway	Fair			Acceptable
T7	Platform	Fair			Acceptable
T15	Shell	Fair			Acceptable
T16	Roof	Fair			Acceptable
T32	Foundation	Fair			Pad has settled.
T41	Connections Other (Please explain)	N/A			Associated Piping - Disconnected
T61	Insulation Other (Please explain)	Fair			Acceptable

Inspection Summary

This tank was inspected by IRIS NDT of Lloydminster. Recommendations and Inspection Intervals are the results of interpreting the data IRIS collected (UT readings) and comments made.

Generally the tank is considered to be in fair condition and suitable for continued service.

The tanks external surfaces were visually inspected and found to be in fair condition.

The tank base is in fair condition although there is evidence to the pad settling.

The tank's associated piping was disconnected at time of inspection.

See attached Internal Visual Inspection report for additional details and recommendations.

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Storage Tank External Visual Inspection Report

Inspection Planning							
Date of Inspection:	Date of last Inspection:	Date of Next Ir	espection:				
The signature below certify that the above is a true report of the inspection / test of the equipment specified and consider fit for service until the date of next inspection.							
Competent Inspector:		Report Generation Date:					
Reviewed and Accept	Reviewed and Accepted by:						
Next Inspection Date:	2018-05-03						
Approved by:							
Signature:	Tay Truckuk	Date:	2011-05-08				
Signature:	,	Date:					

Print date/time: 05/08/2011 10:36:29AM Equipme

EquipmentID: 66143442

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Storage Tank Internal Visual Inspection Report



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		System:	00365 100/08-27-048-02W4/00 SWB
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Background

Description: TANK, UNIVERSAL 160M3	

Inspection

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Inspector:	IRIS NOT	Company:	Internal Lining/Coating:	N	ı

Inspection Comments

ID	Description	Condition	Location	NCR	Comments
V7	Welds	Poor			To be repaired.
V8	Nozzles	Fair			Acceptable
V9	Shell	Fair			Acceptable
V10	Roof	Fair			Acceptable
V21	Internals Other (Please explain)	Poor		:	Firetube to be repaired.
T11	Floor	Fair			Severe bulges observed.

Inspection Summary

Generally the internal surfaces and components of the tank appeared to be in fair condition however visual inspection of the tanks internal surfaces revealed some severe bulges in the tank floor. Mag Particle inspection revealed cracking in the floor to shell weld. An area 18" x 84" was marked out to be patched. in addition the firetube was found to be in need of repair.

Random locations of the tank's floor and lower shell were UT thickness tested with some metal loss identified. The lowest thickness reading was found to be 0.240 inch. See attached IRIS NDT field report for thicknesses found and approximate locations of tests.

Recommendations:

Patchg the tank shell as marked out and discussed.

Repair the firetube as required.

The inspection interval can be set at seven years (84 months) provided all requirements of Directive 55/S-01 are met and maintained.

Print date/time: 08/05/2011 10:46:54AM Page 1 of 2

Storage Tank Internal Visual Inspection Report

Inspection Planning							
Date of Inspection:	Date of last Inspection:	Date of Next I	nspection:				
The signature below certify that the above is a true report of the inspection / test of the equipment specified and consider fit for service until the date of next inspection.							
Competent Inspector:		Report Generation Date:					
Reviewed and Accepted by:							
Next Inspection Date: 20	18-05-03						
Approved by:							
Signature:	May Machan	A Date:	2011-05-08				
Signature:	/	Date:					

L7-02-001-00438 TANK INSPECTION REPORT SR. Operator: Approver Code: Requisitioned by: Work Order: LOCATION 8-27-48-2004 DATE May. 3. 11 TANK TYPE MFG()niversa YEAR 2008 S/N /5628-ACAP 1000 BBL AFE/CC FLOOR THK. SHELL THK. 1/4 -ROOF THK. SAP# **EXTERNAL SURFACE** GOOD INSULATION: FAIR **POOR** CLADDING: GOOD POOR **FAIR** BASE/LAND SCAPING: GOOD EAIR> **POOR** OES) LINER/CONTAINMENT: NO GROUND CABLE: 200 YES LADDER/STAIRS: GOOD FAIR POOR **PLATFORM** 460D FAIR POOR PIPING ALIGNMENT: POOR - unhooked GOOD **FAIR** GOOD SHELL: **FAIR POOR ENVIROVAULT:** NO CONDITION: ROOF: **FAIR** POOR PAINT: 8000 FAIR **POOR** FIRETUBE: BOWED OVALLED INTERNAL CONDITIO GOOD FLANGE (LEAKING) Yes REGULATOR: Yes RATING: **INTERNAL SURFACE:** FLOOR CONDITION: GOOD **FAIR** POOR SHELL CONDTION: GOOD FAIR **POOR** ROOF CONDITION: GOOD FAIR **POOR** FIRETUBE: GOOD **POOR FAIR** PIPING/NOZZLE CONDITION: GOOD FAIR **POOR** BACKWELDING REQ: YES WHERE Yes No ANODES: **BLOCK** CYLINDRICAL CONSUMED Total Yes GOOD___FAIR TYPE: COATING: **POOR** 348 247 .249 246 . 245 250 151 248 244 240 252 .249 247 248 250 249 249 250 1251 251 CONTACT: 248 250

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MAGNETIC PARTICLE INSPECTION REPORT

MT-149293-01 Page 1 of 1

Procedures: MT 2V IRISNDT 5.15.2	Job / P.O. #: wo#406764	5 IRISN	DT #: 149293	Date: 03-May-11	
Code: API -650 sec.8.2.4	Client: Husky Operations	i			
	Location: 8-27-48-2W4				
	Item Inspected: Tank It	ems as listed			
Surface Condition: Painted Sandblasted] Machined ☐ As Cas	t As Forged \ \	Weldment 🛛 Other		
Material: P-1		Thickness: N/A	Heat Tr	reatment: As Welded	
Magnetizing Equipment: Yoke ⊠ Coil ☐ IRISNDT #: 40105	Prod Bench: Mfg: Co		l Conductor ☐ Coil Calibration Da	— .	
Blacklight: IRISNDT #: N/A Verification per ASME V	Mfg: / Art 7 T.777.2		Calibration Date	e:10	
Whitelight: Battery Powered Min. 3V 110V Power Min. 60W B	7	Held within 30 cm (provides minimum	12in) of the inspection 1000 Lx (100fc)	surface	
Method of Magnetization: AC ⊠ DC □ 0	Continuous 🛛 Residual 🕻	X			
Magnetic Particles: Dry ☐ Wet ☑ Batch #: 907	Red ☐ Mfg: Ma	•	Fluorescent Type: 7C		
Background: ⊠ Batch #: 1080	Mfg: Arc	drox	Type: 8901W		
A magnetic particle inspection was carried out on the following items On 1- 1000BBL tank @ 8-27-48-2W4 Tank sn# 15628-22 1 – 1" Collar fillet welds in vault (in&out) 2 – Tailing lug Re-Pad fillet welds 4 – Gas line Re-Pad fillet welds 1 – 4" Nozzle/Re-Pad fillet welds (in&out) 1 – 3" Nozzle fillet weld (in&out) 1 – Shell patch fillet weld (in&out) Results: All items inspected ACCEPTABLE TO CODE. ATT: Ken Pope 2Z-0713560 PO#8400315694 wo#4067645 Req. Derek @ L&L Oilfield					
Inspection Limitation(s):					
Critter. 500 Palotteles, 40 I	onsumables: MIN	(Print) (Signature) Circuit Represented Lagrament with report contents	(Sign)	SNT-TC-1A 2 C.G.S.B. 2 (Level) C.G.S.B.# 11405	
5311 – 86 Street Edmonton, Alberta, T6E 5T8 Phone: (780) 437-2022 Fax: (780) Calgary (403) 279-6121 Lloydminster (780) 875-8455 Barrhead (780) 674-3018 Nisku (780) 955-7616	Cold Lake (780 Fort McMurray (780 High Level (780 Red Deer (403	0) 594-1114 0) 743-1536 0) 956-4094 3) 347-1742	Corpus Christi, Deer Park, TX Matrix, Houston, Texas City, TX	(281) 476-4444	

IRISNDT E-2003F