



NDT-116 Page 2 of 3
Tank Inspection Report

Location: 102/01-03-49-02 W4MTank Type: Tank 2 SidesDate: July 6, 2018Mfg: GLM IndustriesYear blt: 1999S/N: G-99-242-57CAP: 1000 bblFloor Thk: 1/4"Shell Thk: 1/4" 3/16"Roof Thk: 3/16"Requisitioned by: Randy ChiurkaApprover: Shane GustavsonApprover Code: 2Z-02001456WO #: 81310772PO#: 8401273576

CC: _____

SAP #: 66024621

EXTERNAL INSPECTION:

ID	Item	Yes	Good	N/A	See Notes
GENERAL					
T1	Other (Please Explain)				
T2	Corrosion			✓	
T3	Leaks			✓	
T4	Vibration			✓	
T5	Dissimilar Flange Rating			✓	
T6	Ladder/Stairway	✓	✓		
T7	Platform	✓	✓		
T8	Electrical Ground	✓	✓		
T9	Cathodic Protection			✓	
T10	Painted Inactive Corrosion			✓	
T11	Coating/Painting			✓	
T12	Level Gauge	✓	✓		
T13	Bottom	✓	✓		1
T14	Secondary Containment	✓	✓		
T15	Shell	✓	✓		
T16	Roof	✓	✓		
T17	Agitator/ Mixer			✓	
SUPPORTS					
T31	Other (Please Explain)				
T32	Foundation	✓	✓		1
T33	Anchor Bolts			✓	
T34	Windgirders			✓	
CONNECTIONS					
T41	Other (Please explain)				
T42	Small Branches	✓	✓		
T43	Nozzles	✓	✓		
T44	Pipe Manifolds			✓	
T45	Swing Lines			✓	
T46	Manways/Hatches	✓	✓		
T47	Reinforcing Pads	✓	✓		
T48	Inadequate Thread Engagement			✓	
T49	Bolting	✓	✓		
T50	Flanges	✓	✓		
T51	Leak Clamps			✓	
INSULATION					
T61	Other (Please explain)				
T62	Damage			✓	
T63	Penetrations	✓	✓		
T64	Jacket			✓	
T65	Banding			✓	
T66	Seals/Joints			✓	
RELIEF DEVICE					
T71	Other (Please explain)				
T72	Corrosion				
T73	Leaks				
T74	Restricted Inlet/Outlet				
T75	Manual Operation Lever				

INTERNAL INSPECTION:

ID	Item	Yes	Good	N/A	See Notes
GENERAL					
T1	Other (Please Explain)	✓			3
T2	Corrosion			✓	
T3	Erosion			✓	
T4	Distortion			✓	
T5	Blisters			✓	
T6	Deposits				
T7	Welds	✓	✓		
T8	Nozzles	✓	✓		
T9	Shell	✓	✓		
T10	Roof	✓	✓		
T11	Floor	✓	✓		
GENERAL					
T21	Other - Firetube	✓	✓		2
T21	Other - Anodes			✓	
T22	Annular Ring			✓	
T23	Sump			✓	
T24	Roof Supports			✓	
T25	Thermowells	✓	✓		
T26	Metallic Linings			✓	
T27	Non Metallic Linings			✓	
T28	Internal Steam Coil / other Piping	✓	✓		4
T29	Level Gauge	✓	✓		
T30	Other Welded Attachments	✓	✓		
Backwelding Req'd					

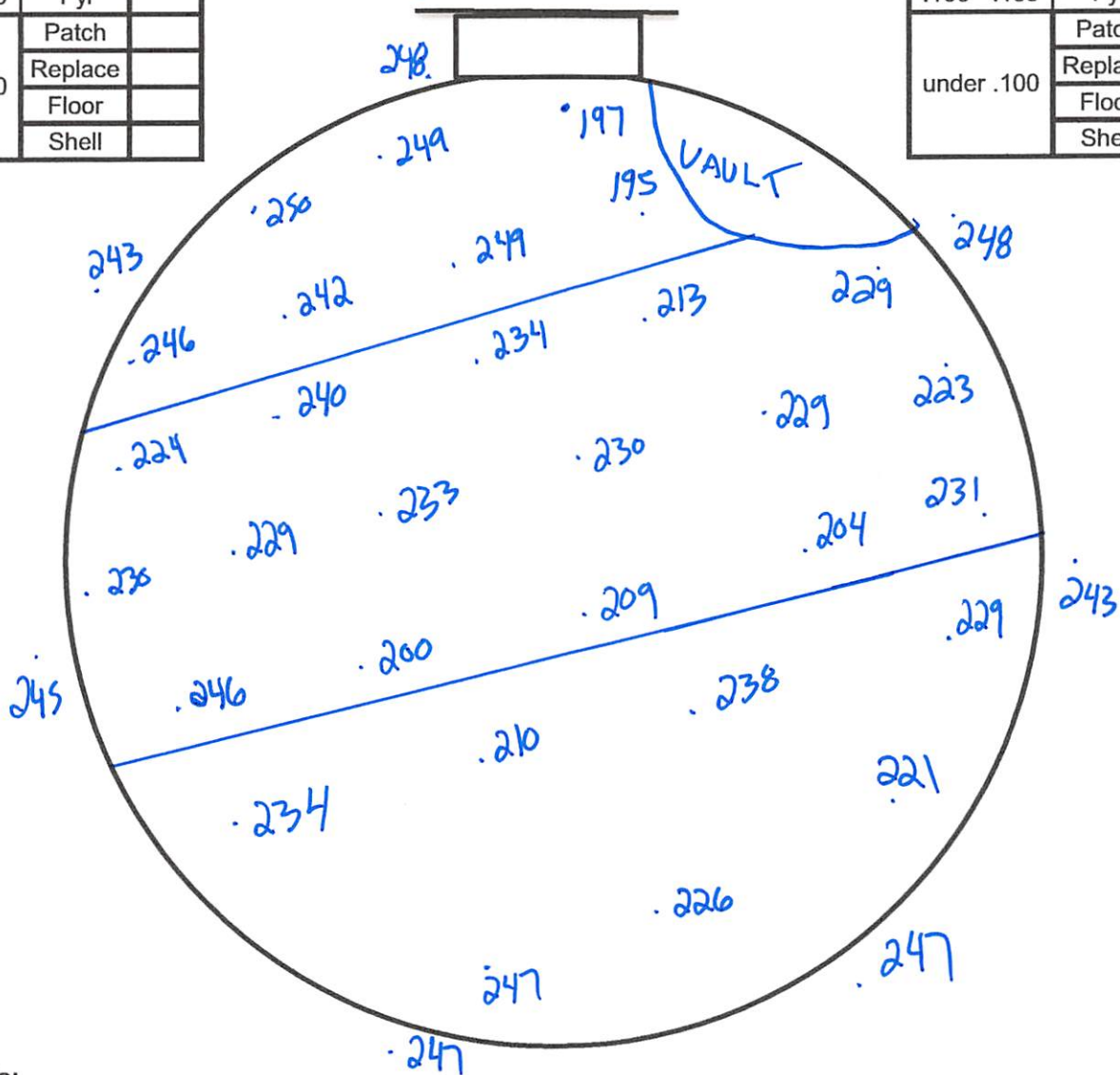
ID	Notes
1	Tank set on planks
2	Moderate hot spot, noted Firetube appears to be straight. Monitor condition.
3	Probe is Bent up.
4	Recommend Bracing the Vault post tap Piping the 9.6" + 11.6".

Without MFE		
.170 - up	5 yr	✓
.160 - .169	4 yr	
.150 - .159	3 yr	
.140 - .149	2 yr	
.130 - .139	1 yr	
under .130	Patch	
	Replace	
	Floor	
	Shell	

R.L. S/N: G-99-242-57

Location: 102/01-03-49-02W41

With MFE		
.140 - .150	5 yr	
.130 - .139	4 yr	
.120 - .129	3 yr	
.110 - .119	2 yr	
.100 - .109	1 yr	
under .100	Patch	
	Replace	
	Floor	
	Shell	



Comments:

Inspected by: Loren Skinner

Date: July 6 2018

Husky Inspector: _____

Date: _____

Type of Inspection: VT/UT/MFE Rev: 3.0
Test Technique: UT thickness
Equipment: DMSGO, FH2E, Flashlight, Grinder
Code / Standard: Client Information

Client: HUSKY OIL OPERATIONS LIMITED
IRISNDT #: LYN1800992
Location: 102/01-03-49-2W4M
Item Inspected: Tank 2 sales SN: 027499-5

Date: 06-Jul-18
WO #: 81310772
PO #: 8401273576

A UT/Vis Inspection was carried out on a 1000BBL Tank @ 102/01-03-49-2W4M

Recommendations / Notes:

- Recommend Bracing the 1" vault test tap risers 9'6" & 11'6"
- Probe is bent see following Picture

G.L.M. TANKS & EQUIPMENT LTD.			
NISKU, ALBERTA			
BATTLEFORD, SASK.			
API	ED.	APP.	
SERIAL No. G-99-242-S7			
YEAR BUILT 1999			
NOM DIA	FE	NOM CAP	BBL
NOM HT	FT	SHELL THK	IN
BTM THK	IN	SHELL MATL	
DECK THK	IN	BTM TYPE	
S.G.		D.P.	OZ
D.M.T.	°F	S.R.	
D.L.L.	FT	EQUIP No	
SERVICE			



Note: Spot UT carried as a representation of overall integrity not 100% coverage.
DMSGO # 31139 cal. date due. June 1 2019 Probe: FH2E SN: 01T4WK

Inspection Limitation(s): Only 1st course cleaned for inspection

Unit#: 313 In: _____ Out: _____ Hrs: _____ In: _____ Out: _____ Hrs: _____ Personnel: Logan Skinner Marshall Lundell	Kilometers: _____ Consumables: Min Req: Randy Chiurka Appr: Shane Gustavson 2Z-02001456	Interpretation by: Logan Skinner (Print) <i>[Signature]</i> (Sign) Client Representative: (Print) Karen Hawryluk (Sign) <i>[Signature]</i> I am in full agreement with report contents	SNT-TC-1A: UT-1 C.G.S.B.: 1 (Level) C.G.S.B #: 17159
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5311 - 86 Street NW, Edmonton, Alberta T6E 5T8 Phone (780) 437-4747 Fax (780) 436-4873
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Offices also located in USA and UK



DAILY LEM TIME-TICKET

IRISNDT DAILY TICKET#

CA1099-DT-235

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Customer: HUSKY OIL OPERATIONS LIMITED

IRISNDT DISPATCH #: LYN1800992

Location: LSD's listed Alberta

Date: 06-Jul-18

Technician 1: Logan Skinner Position: Senior Tech Technician 2: Marshall Lundell Position: Assistant Primary Activity: UT - Thickness

Technician 3: _____ Position: _____ Technician 4: _____ Position: _____ Report Prefix: _____

Time Start	Time Finish	Activity	Report #s	LOC	Total Hours	Total KMs	Description	PO / Cost Code / AFE		Job # / Work Order # / Other	
14:00	15:30	VT - Visual Testing	NDT-111	4	1.5		UT/Vis @ 103/10-9-49-2w4m	P.O.#:	8401273576	W.O.#:	81309442
15:30	16:30	VT - Visual Testing	NDT-112	4	1		UT/Vis @ 104/11-9-49-2w4m tk1	P.O.#:	8401273576	W.O.#:	81309904
16:30	17:30	VT - Visual Testing	NDT-113	4	1		UT/Vis @ 104/11-9-49-2w4m tk2	P.O.#:	8401273576	W.O.#:	81309677
17:30	18:30	VT - Visual Testing	NDT-114	4	1		UT/Vis @ 105/1-3-49-2w4m tk2	P.O.#:	8401273576	W.O.#:	81310773
18:30	19:30	VT - Visual Testing	NDT-115	4	1		UT/Vis @ 103/1-3-49-2w4m tk2	P.O.#:	8401273576	W.O.#:	81310774
19:30	21:00	VT - Visual Testing	NDT-116	4	1.5		UT/Vis @ 102/1-3-49-2w4m tk2	P.O.#:	8401273576	W.O.#:	81310772

(Totals for this page only)

Totals:

7

Unit: 313

Work Location (LOC) Legend: 1) Inside Fab. Shop 2) Yard/Lay-down Area 3) Piping/Modular Fab. Area 4) Other

J.H.A. Carried Out & Documented: ☒ Yes ☐ NoSafety Concerns: ☐ Yes ☒ NoSafety Meeting: ☐ Yes ☒ NoLiving Out Allowance: ☒ N/A ☐ Full ☐ Bkfst ☐ Lunch ☐ Supper ☐ OT Meal ☐ Hotel

Equipment, Supplies, Consumables and Other Costs

Min

Additional Site, Daily, and other relevant job notes

Req: Randy Chiurka

Appr: Shane Gustavson 2Z-02001456

TECHNICIAN NAME: Logan Skinner

(Print)

CLIENT NAME: Karen Hawryluk

(Print)

TECHNICIAN SIGNATURE: _____

(Sign)

Date:

06-Jul-18

CLIENT SIGNATURE: _____

(Sign)

Date: