



Tank Inspection Report

Location: A4-19-50-20W3

Tank Type: TANK 3

Date: June 26, 2018

Mfg: Universal

Year blt: 2013

S/N: 027497-2

CAP: 1000 bbl

Floor Thk: $\frac{1}{4}$ "

Shell Thk: $\frac{1}{4}"$ $\frac{3}{16}"$

Roof Thk: 3/16"

Requisitioned by: Steve Hughes

Approver: Angela Lowe

Approver Code: 27-2013152

WO #: 81305305

PO#: 8401273069

CC:

SAP #: 66205223

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			✓	
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)				
T2	Corrosion	✓			2
T3	Erosion			✓	
T4	Distortion			✓	
T5	Blisters			✓	
T6	Deposits	✓			3
T7	Welds	✓	✓		
T8	Nozzles	✓	✓		
T9	Shell	✓	✓		
T10	Roof	✓	✓		
T11	Floor	✓	✓		4
	GENERAL				
T21	Other - Firetube	✓	✓		
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			✓	
T29	Level Gauge	✓	✓		5
T30	Other Welded Attachements	✓	✓		
	Backwelding Req'd			✓	

[illegible]

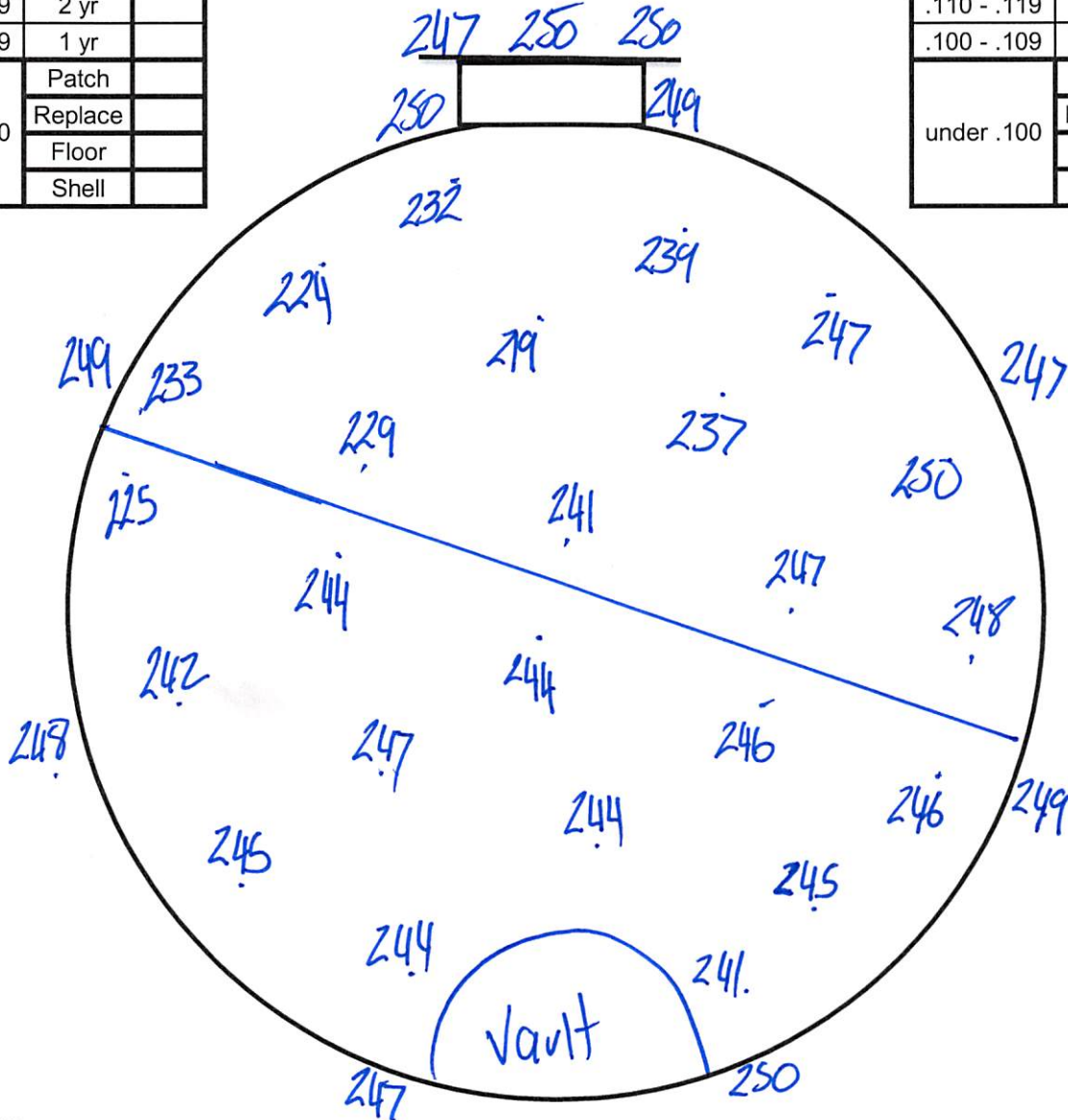


Without MFE		
.170 - up	5 yr	✓
.160 - .169	4 yr	
.150 - .159	3 yr	
.140 - .149	2 yr	
.130 - .139	1 yr	
under .130	Patch	
	Replace	
	Floor	
	Shell	

R.L. S/N: 027497-2 (TK3)

Location: A4-19-50-20W3

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:

Cut out Broken and Tangled Guide Wires.
Heavy Scale Buildup on the Floor, Lowest Reading of 0.219" on the
Floor. 5YR Turnaround.

Inspected by: Stephen Bryan.

Date: June 26, 2018

Husky Inspector: _____

Date: _____

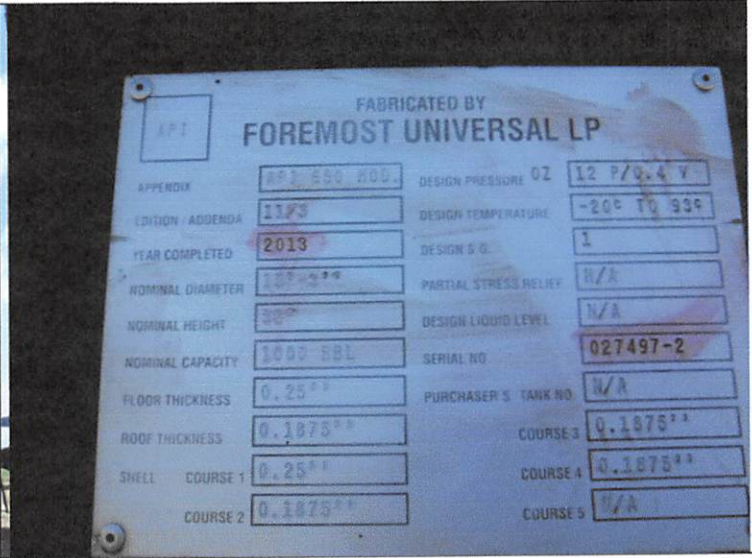
Type of Inspection: VT Rev: 3.0
Test Technique: UT thickness(4.2)
Equipment: DMS2 / FLASHLIGHT GRINDER
Code / Standard: client information

Client: HUSKY OIL OPERATIONS
IRISNDT #: LYN1800931
Location: A4-19-50-20 W3M
Item Inspected: 1000 bbl tank 3 s/n# 027497-2

Date: 26-Jun-18
WO #: 81305305
PO #: 8401273069

a UT and visual inspection was carried out as requested on 1000bbl tank, refer to attached pages for results:

1000bbl tank 3 S/n 027497-2: cut out tangled guide wires, tank in good overall condition for a5yr turnaround.



DMS 2 S/N# 31074 CAL DATE : JAN3 2018.

F2HE PROBE S/N# SCA0690

APPROVER: ANGELA LOWE ZZ-2013152

Inspection Limitation(s): oil/ shale on the shell and piping. heavy scale buildup on the floor.

Unit#: 767 Kilometers: 0 In: _____ Out: _____ Hrs: _____ In: _____ Out: _____ Hrs: _____ Personnel: STEPHEN BRYAN / BRAYDEN MCGINNIS	Consumables: MIN	Interpretation by: Stephen Bryan (Print) _____ (Sign) _____ Client Representative: (Print) Karen Hawryluk I am in full agreement with report contents (Sign) _____	SNT-TC-1A: _____ C.G.S.B.: _____ (Level) C.G.S.B #: 12459
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5311 - 86 Street NW, Edmonton, Alberta T6E 5T8 Phone (780) 437-4747 Fax (780) 436-4873
 Calgary (403) 279-6121 Cold Lake (780) 826-6105
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Engineering, Calgary (403) 217-9684
 Engineering, Edmonton (780) 437-2022
 Rope Access Services (780) 437-2022
 Offices also located in USA and UK



DAILY LEM TIME-TICKET

IRISNDT DAILY TICKET#

CA1098-DT-213

Page 1 of 1

Customer: HUSKY OIL OPERATIONS

IRISNDT DISPATCH #: LYN1800931

Location: Various Isd's SK

Date: 26-Jun-18

Technician 1: Stephen bryan Position: Senior Tech Technician 2: brayden mcginnis Position: Assistant Primary Activity: Other

Technician 3: Position: Technician 4: Position: Report Prefix: CA1098

Time Start	Time Finish	Activity	Report #s	LOC	Total Hours	Total KMs	Description	PO / Cost Code / AFE		Job # / Work Order # / Other	
07:00	08:00	Travel	CA1098-NDT-175		1	90	Travel to location	P.O.#:	8401273069	W.O.#:	81307519
08:00	09:30	Other (See Description)	CA1098-NDT-175		1.5	0	Inspect tank UT/ visual	P.O.#:	8401273069	W.O.#:	81307519
09:30	10:00	Travel	CA1098-NDT-176		0.5	60	Travel	P.O.#:	8401273069	W.O.#:	81304618
10:00	11:00	Other (See Description)	CA1098-NDT-176		1	0	Inspect tank UT/ visual	P.O.#:	8401273069	W.O.#:	81304618
11:00	12:30	Other (See Description)	CA1098-NDT-177		1.5	0	Inspect tank UT/ visual	P.O.#:	8401273069	W.O.#:	81304617
12:30	13:00	MT - Magnetic Particle	CA1098-MT-168		0.5	0	MT lifting lugs	P.O.#:	8401273069	W.O.#:	81304613
13:00	13:30	Other (See Description)	CA1098-NDT-178		0.5	0	Inspect tank visual	P.O.#:	8401273069	W.O.#:	81304613
13:30	15:00	Other (See Description)	CA1098-NDT-179		1.5	0	Inspect tank UT/ visual	P.O.#:	8401273069	W.O.#:	81304614
15:00	16:00	Other (See Description)	CA1098-NDT-180		1	0	Inspect tank UT/ visual	P.O.#:	8401273069	W.O.#:	81305305
16:00	17:00	Travel	CA1098-NDT-180		1	80	Travel to lloyd	P.O.#:	8401273069	W.O.#:	81305305

(Totals for this page only)

Totals:

10

230

Unit: 767

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

approver: ANGELA LOWE 2Z-2013152

Additional Site, Daily, and other relevant job notes

TECHNICIAN NAME: Stephen Bryan

(Print)

CLIENT NAME: Karen Hawryluk

(Print)

TECHNICIAN SIGNATURE:

(Sign)

Date:

CLIENT SIGNATURE:

(Sign)

Date: