musky Energy		•	Tank Inspection Re	po
Location: 102/9-11-47-5 w4	Tank Type:	Tank2	Date: May 28 - 2019	
Mfg: Universal	Year blt: 2013	s/N: 29085-1	CAP: 1000 bbl	

Wildmere

Floor Thk: 1/4" Shell Thk: 1/4" 3/16" Roof Thk: 3/16"

Requisitioned by: Randy Chiurka Approver: Jay Sinclair Approver: SAP #: 66: Approver Code: 2Z- 8000441 SAP #: 66221239

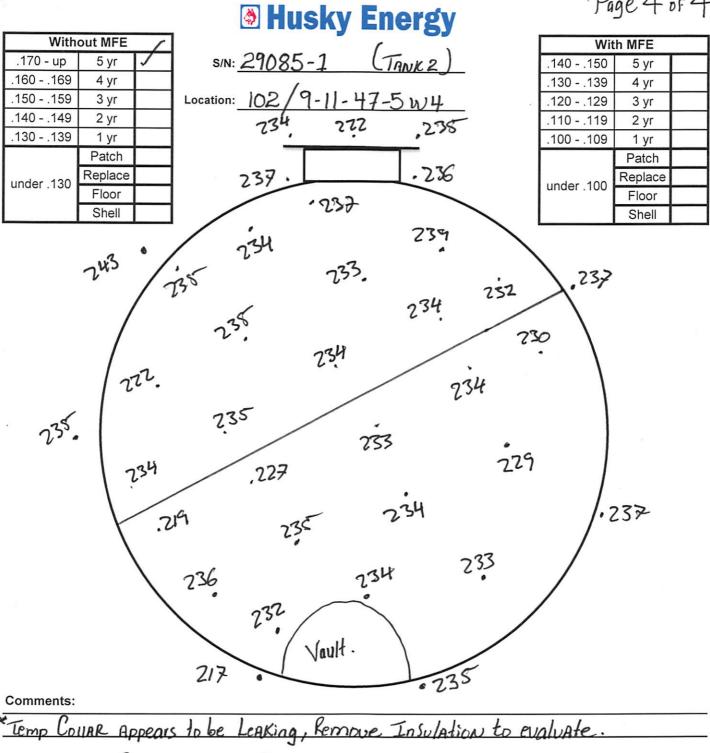
ID	Item	Yes	Good	N/A	See
	GENERAL				Notes
T1	Other (Please Explain)				
T2	Corrosion	1		1	
T3	Leaks	1/	_	V	1.
T4	Vibration	V			1.
T5	Dissimilar Flange Rating			./	
T6	Ladder/Stairway	1	/	V	
T7	Platform	17	/		
T8	Electrical Ground	1/	/		
T9	Cathodic Protection	V	V	1	
T10	Painted Inactive Corrosion			/	
T11	Coating/Painting	+		/	
T12	Level Gauge	/	/	~	
T13	Bottom	1	1		2
T14	Secondary Containment	1	/		d
T15	Shell	\ <u>\</u>	1		
T16	Roof	1	/		
T17	Agitator/ Mixer	<u> </u>	/	1	ĭ
	SUPPORTS			/	
T31	Other (Please Explain)				
T32	Foundation	-		/	
T33	Anchor Bolts	-		/	
T34	Windgirders	-		1	
134	CONNECTIONS			/	
T41	Other (Please explain)				
T42	Small Branches	-		/	
T43	Nozzles	/	/	~	
	W. S.	-	/	1	
T44	Pipe Manifolds	-		/	
T45	Swing Lines	- /	/	/	
T46	Manways/Hatches	/	/	/	
T47	Reinforcing Pads	-		1/	
T48	Inadequate Thread Engagement	-		V/	
T49	Bolting	-	/	/	
T50	Flanges	/	/	_	
T51	Leak Clamps			/	
TOA	INSULATION				
T61	Other (Please explain)	-		1	
T62	Damage	-		/	
T63	Penetrations	1	/	1	
T64	Jacket			V/	
T65	Banding	_		1	
T66	Seals/Joints		·	/	
T-71	RELIEF DEVICE				
T7t	Other (Please explain)			/	
T72	Corrosion			/	
T73	Leaks			1	
T74	Restricted InleUOutlet			1/	
T75	Manual Operation Lever	1		V	

INTERNAL INSPECTION:

ID	Item	Yes	Good	N/A	See Notes
	GENERAL				
T1	Other (Please Explain)				
T2	Corrosion				3
T3	Erosion			1	
T4	Distortion			1	
T5	Blisters	Τ,		/	
T6	Deposits		-		4
T7	Welds	1	✓.		
T8	Nozzles		1.		
T9	Shell		1,		
T10	Roof	1/	1		
T11	Floor	1/			
	GENERAL	, ·			
T21	Other - Firetube		/		
T21	Other - Anodes			/	
T22	Annular Ring			/.	
T23	Sump			/,	
T24	Roof Supports				
T25	Thermowells	1	/		
T26	Metallic Linings			/	
T27	Non Metallic Linings			/.	
T28	Internal Steam Coil / other Piping	Τ,	/		
T29	Level Gauge		1,		
T30	Other Welded Attachements			/	
Bacl	kwelding Req'd				

ID	Notes
1.	1" temp Collar appears to be leaking. Remove Insulation to Inspect.
	Insulation to Inspect.
2.	Took Set on Planks
3	Surface Corression (Rusty FLEOR AND Shell)
4.	DIL/shale Deposits on the Shell a Filing.
	7 . 10 . 7
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-	

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Inspected by: Stephen Bryan
Husky Inspector:

Terry Neufeld

DUPRAIL

Date: May 28.2019

Date: July 30, 2019

5 YR TURNOVUND.

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NONDESTRUCTIVE INSPECTION REPORT

CA1098-NDT-597

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Type of Inspection: VT

3.0

Client: HUSKY OIL OPERATIONS IRISNDT #: LYN1900860

Date: 2019-May-28 WO#: 81391484

Test Technique: UT thickness(4.2) Equipment: DMS2 / flashlight / grinder

Location: 102/ 9-11-47-5 W4M

PO#: 8401358779

Code/Standard: client information

Item Inspected: 1000 bbl tank 2 S/N# 29085-1

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

1000bbl tank 2 S/N# 29085-1: Temp collar was leaking, insulation stained. the insulation was removed and appeared to be leaking from the fitting the fitting. L&L removed the fitting and repaired the threads, monitor to ensure leak has stopped. no additional repairs required, the tank is in good overall condition for a 5yr turnaround.



DMS 2 S/N# 31074 CAL DATE: JAN9 2019.

F2HE PROBE S/N# SCA2097

APPROVER: Jay Sinclair 2Z-8000441

Requested by Randy Chiurka

Inspection Limitation(s): oil /shale deposits on the shell and piping.							
Unit#: Out: In: Out: In: Out:	Kilometers: 0 Hrs:	Consumables: MIN	Interpretation by: Stephen Bryan (Print) (Sign)	SNT-TC-1A:			
STEPHEN BRYAN / NIGEL GEAF	RIN		Client Representative: I am in full agreement with report contents (Sign) Terry Neu (Print) (Sign)	ufeld			

5311 - 86 Street NW, Edmonton, Alberta T6E 5T8 Phone (780) 437-4747 Fax (780) 436-4873 Calgary (403) 279-6121 Cold Lake

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(780) 826-6105 Fort McMurray (780) 743-1536 Red Deer (403) 347-1742 www.irisndt.com

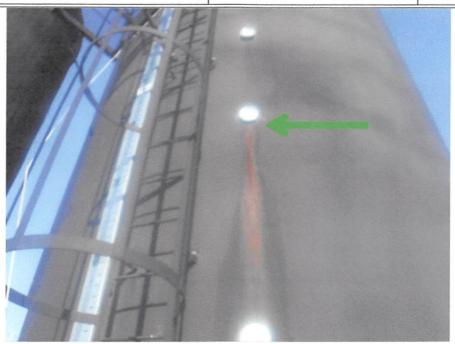
Engineering, Calgary Engineering, Edmonton Rope Access Services

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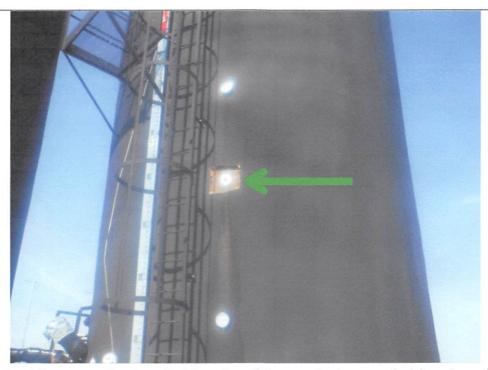


NONDESTRUCTIVE INSPECTION REPORT

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stained insulation, leak at the temp collar.



Insulation removed and repaired threads on fitting. monitor to ensure leak has stopped

IRISNDT #: LYN1900860

Client: HUSKY OIL OPERATIONS

Date: 2019-May-28

Stephen Bryan

(Print)

(Sign)

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