

Equipment #: 66174963  
 Area: AN-Blackfoot  
 Cost Centre: /LLOYD



**Tank Inspection Report**

Approver: Dylan Bosse Approver #: 22-2025544 WO#: \_\_\_\_\_  
 Requisitioned By: \_\_\_\_\_ Location: 105/5-35-48-2 PO# \_\_\_\_\_  
 Manufacturer: UNIVERSAL Serial #: 021683-3 Tank Type: HEAVY OIL STORAGE  
 Capacity: \_\_\_\_\_ Thickness: Floor 1/4" Shell 1/4" Year Built: 2011

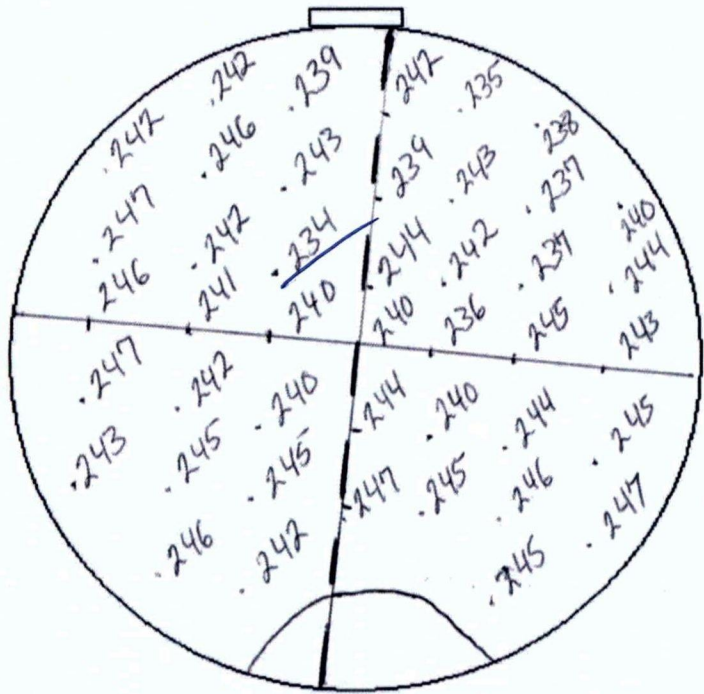
**External Inspection**

T61	Insulation	<u>GOOD</u>	FAIR	POOR	_____
T64	Cladding	<u>GOOD</u>	FAIR	POOR	<u>N/A</u>
T32	Base / Landscaping	<u>GOOD</u>	FAIR	POOR	<u>ON PLANKS</u>
T14	Liner / Containment	<u>GOOD</u>	FAIR	POOR	<u>STEEL PLASTIC</u>
T8	Ground Cable	<u>YES</u>	NO		_____
T6	Ladder/ Stairway	<u>GOOD</u>	FAIR	POOR	_____
T7	Platform	<u>GOOD</u>	FAIR	POOR	_____
T41	Piping Alignment	<u>GOOD</u>	FAIR	POOR	_____
T15	Shell	<u>GOOD</u>	FAIR	POOR	_____
T44	Envirovault	<u>YES</u>	NO		_____
T16	Roof	<u>GOOD</u>	FAIR	POOR	_____
T11	Paint	<u>GOOD</u>	FAIR	POOR	<u>N/A</u>

ENTERED  
APR 2014

**Internal Inspection**

T11	Floor	<u>GOOD</u>	FAIR	POOR	<u>LOW =&gt; 0.234"</u>
V9	Shell	<u>GOOD</u>	FAIR	POOR	<u>LOW =&gt; 0.237</u>
V10	Roof	<u>GOOD</u>	FAIR	POOR	_____
V28	Firetube	<u>GOOD</u>	FAIR	POOR	INTERNAL: <u>GOOD</u> BOWED OVALLED FLANGE LEAKING: YES <u>NO</u>
V8	Nozzles	<u>GOOD</u>	FAIR	POOR	_____
V7	Welds	<u>GOOD</u>	FAIR	POOR	BACKWELDING REQ'D: YES <u>NO</u>
V21	Anodes	<u>GOOD</u>	FAIR	POOR	<u>N/A</u>
V27	Coating	<u>GOOD</u>	FAIR	POOR	TYPE: <u>N/A</u>



**Notes & Summary of Recommendations:**

LOW FLOOR => 0.234  
LOW SHELL => 0.237

UT DONE AS PER HUSKY  
5yr REQUIREMENTS

Inspection Interval: 5 yr

Entered in RBMI:

Approvals  
 Inspector \_\_\_\_\_  
 Husky Inspector \_\_\_\_\_

Name  
Dennis Galliett

Signature  
[Signature]

Date  
15 Apr 14  
2014-04-16



REPORT #

ULTRASONIC TESTING REPORT

UT-67-1140

Client: HUSKY ENERGY	Date: 2014-04-15	Dispatch #: L-5171	Procedure: UT-1	Job Cost #:
Job / WO #:	Location: 13-26-48-2W4 DOWNHOLE 105/5-35-48-2W4	Code: API 653		
PO / AFE #:	Item(s) Inspected: UT TANK FLOOR AND SHELL PRODUCTION TANK	Report Page #: 1 OF 5		

Surface Condition:  Painted  Sandblasted  Machined  As Cast  As Forged  Weldment  Other: Heat Treatment:  Pre  Post  N/A

Ultrasonic Testing Method:  Thickness  Lamination Scan  Shearwave  Volumetric  Other:

Material Type: C/S Equipment: DMS-2 Serial #: 025L9J Cal Date: SEPT.11/13

Calibration Blocks: STEP WEDGE SN: 11-4877 Test Piece:

Transducers	Type	Size	Frequency (Mhz)	Angle (Degree)
	GE HF2E	12.7MM	5 MHZ	0

Dist. Ampl. Calibration: Couplant: SONOTECH Batch #: 92

Transfer Loss Calibration: Transfer Loss: Scan Gain:

Reference Flaw Size: Primary Reference Level: Scan Methods:

Testing Results:

UT THICKNESS READINGS TAKEN ON  
TANK #1: PRODUCTION  
SN: 021083-3

UT THICKNESS READINGS TAKEN IN A 2' GRID PATTERN ACROSS ENTIRE FLOOR, (43) SPOTS AND (10) SPOTS EVENLY DISTRIBUTED AROUND SHELL AT 3" ABOVE FLOOR

FLOOR NOMINAL THICKNESS: 0.250"

SHELL NOMINAL THICKNESS: 0.250"

LOW SHELL READING: 0.237"

LOW FLOOR READING: 0.234"

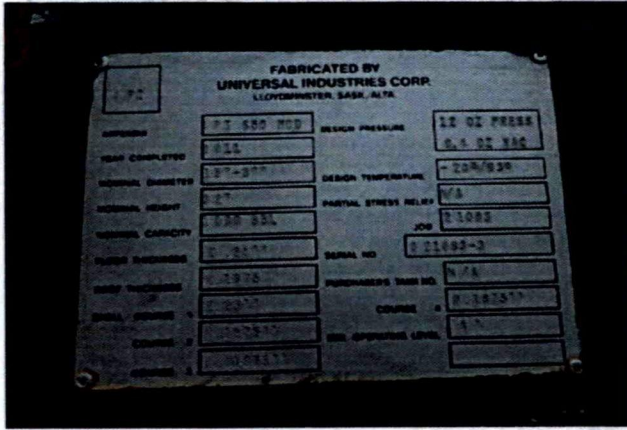
PLEASE REFER TO THE ATTACHED PAGES FOR PHOTOS OF THE INSPECTED AREAS.

AS WELL AS HUSKY'S TANK INSPECTION REPORT

Testing Limitations:  Yes  No If Yes explain:

Continuance Report Attached:  Yes  No Report #: PHOTOS

Unit #: 9	KMs: 40	Consumables:	Interpreter (print): DENNIS GALLIOTT
Reg: 2.5	OT1:	MINIMUM	Interpreter (sign): <i>Dennis Galliot</i>
OT2:	Sub: <input type="checkbox"/> Ye <input type="checkbox"/> N	CGSB Level:	CGSB #: SNT-TC-1A Level: 1
Personnel: DENNIS GALLIOTT	I am in full agreement with the contents and charges applicable to this report		
KESHIA OSMOND	Client (print):		Client (sign):

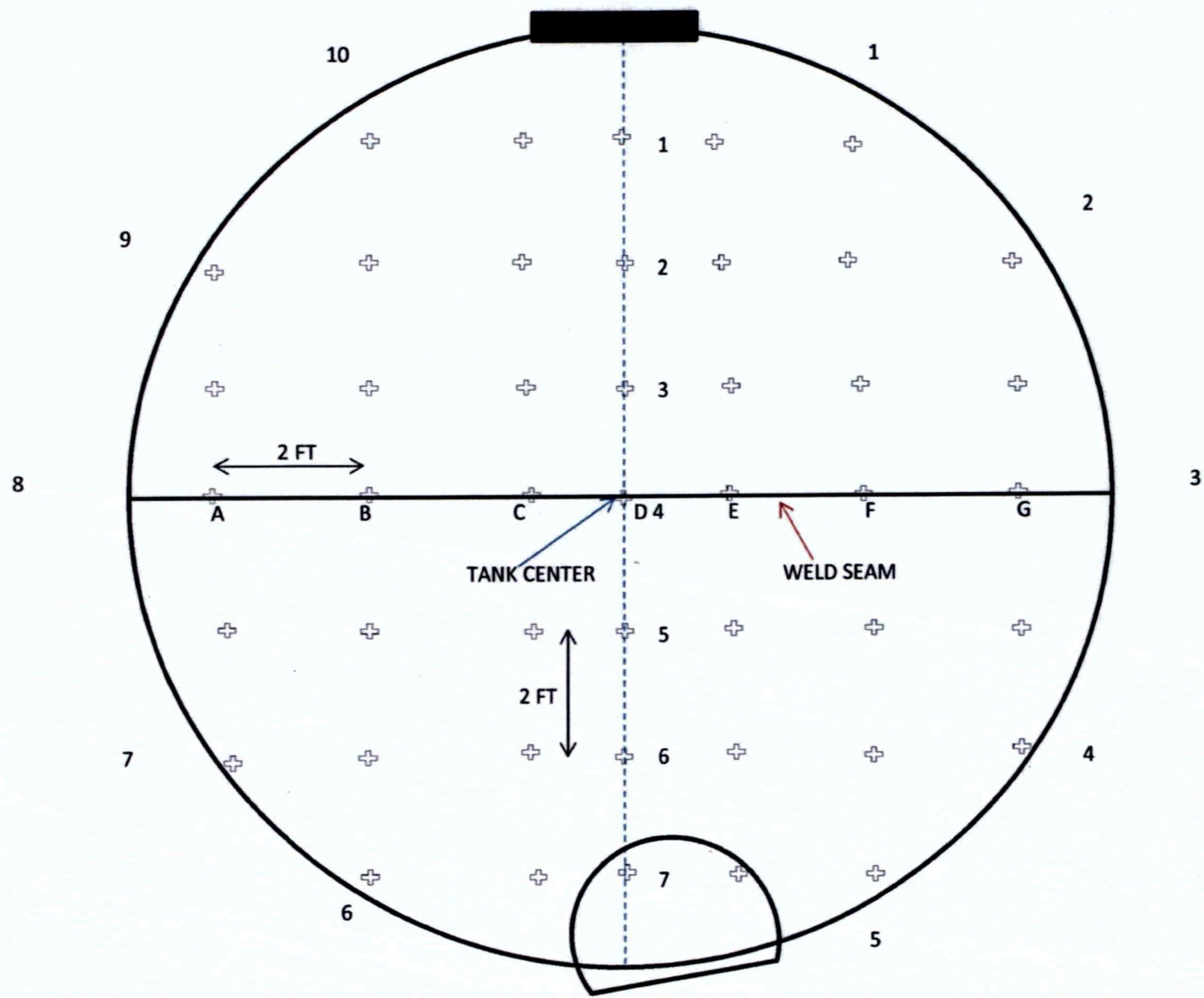


PROD. TANK SN: 021083-3



43 FLOOR READINGS & 10 SHELL READINGS TAKEN  
LOW FLOOR READING: 0.234"  
LOW SHELL READING: 0.237"

# PRODUCTION TANK LAYOUT



PRODUCTION TANK FLOOR

Column1	A	B	C	D	E	F	G
1		0.242"	0.239"	0.242"	0.235"	0.238"	
2	0.242"	0.246"	0.243"	0.239"	0.243"	0.237"	0.240"
3	0.247"	0.242"	0.234"	0.244"	0.242"	0.237"	0.244"
4	0.246"	0.241"	0.240"	0.240"	0.236"	0.245"	0.243"
5	0.247"	0.242"	0.240"	0.244"	0.240"	0.244"	0.24"
6	0.243"	0.245"	0.245"	0.247"	0.245"	0.246"	0.247"
7		0.246"	0.242"	VAULT	VAULT	0.245"	

PRODUCTION TANK SHELL

POSITION										
READING	0.237"	0.238"	0.237"	0.237"	0.240"	0.239"	0.237"	0.237"	0.238"	0.239"



REPORT #

MT-67-1265

MAGNETIC PARTICLE TESTING REPORT

Client: HUSKY	Date: 15-Apr-14	Dispatch #: L-5171	Procedure: MT-2	Job Cost #
Job / WO #:	Location: 13-26-48-2W4 DOWNHOLE 105/5-35-48-2W4	Code: API 653		
PO / AFE #:	Items Inspected: MT CROSSOVERS & DOLLAR PLATE		Report Page #:	1 OF 1

Surface Condition:	<input type="checkbox"/> Painted	<input type="checkbox"/> Sandblasted	<input type="checkbox"/> Machined	<input type="checkbox"/> As Cast	<input checked="" type="checkbox"/> Weldment	<input type="checkbox"/> As Forged	<input type="checkbox"/> Other
Material Type:	C/S	Thickness: VARIOUS	Heat Treatment:		<input type="checkbox"/> Pre	<input type="checkbox"/> Post	<input checked="" type="checkbox"/> N/A
Magnetizing Equipment:	<input checked="" type="checkbox"/> Yoke	<input type="checkbox"/> Coil	Serial#: MF 3256	Mfg: SENTINEL	Cal Date: 08-Jan-14		
Black Light Serial #:	Mfg:	Cal Date:	Verification Per ASME V ART 7 T.777.2				
White Light:	<input type="checkbox"/> Battery Powered Min. 3V <input checked="" type="checkbox"/> 110V 100W Bulb held within 30cm (12in) of the inspection surface providing minimum 1000 Lx (100 fc)						
Method of Magnetization:	<input checked="" type="checkbox"/> AC	<input type="checkbox"/> DC	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Residual			
Magnetic Particles:	<input checked="" type="checkbox"/> Wet	<input type="checkbox"/> Dry	<input type="checkbox"/> Red	<input type="checkbox"/> Grey	<input checked="" type="checkbox"/> Black	<input type="checkbox"/> Fluorescent	<input type="checkbox"/> Other
Background:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Batch#: 95	Mfg: MAGNAFLUX	Type: WCP-2		

Testing Results:												
MT CARRIED OUT ON:												
PRODUCTION TANK												
TANK SN: 021083-3												
MT-1: 8" CROSSOVER/REPAD/BW												
MT-2: 4" CROSSOVER/REPAD/BW												
MT-3: 6" DOLLAR PLATE												
RESULTS:												
ALL WELDS FOUND TO BE FREE FROM DEFECTS AT THE TIME OF INSPECTION												
REFER TO ATTACHED PAGES FOR PHOTOS OF ITEMS INSPECTED												

Testing Limitations:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes Explain:									
Unit #:	9	KMS	0	Consumables:	MINIMUM			Interpreter (Print):	DENNIS GALLIOTT			
Reg:	0.5	OT1:		CGSB Level:	CGSB #:	SNT-TC-1A Level:	2					
OT2:		Sub:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	I am in full agreement with the contents and charges applicable to this report							
Personnel:	DENNIS GALLIOTT			KESHIA OSMOND			Client (Print):	Client (Sign):				

