

Report No: SF000651

4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422

Client	Apache Canada Ltd.	Inspection Date	Sep 11, 2014			
Prov. Reg. #	AB 0485078	Inspection Type	Type VI			
Equipment Type	Glycol Contactor	Location	Patry			
Tag/Equip.	T-500	LSD	BC c-11-J/94-O-5			
Status	In Service	Downhole LSD				
Manufacturer	Propak Systems Ltd.	Area	Liard			
Serial Number	00190-201	Year Built	2000			
CRN#	P2157.21	Service	Sour			
Comp/Unit Id	Dehy Bldg	Manway	Yes			
Nat.Board #		Coating	No			
Interim Insp'n		Interim Type				
Next Inspection	9999	Next Insp Type	TBD			
Length		Height				
Volume		Client Reference				
Owner	Apache Canada Ltd.	RT	1 HT YES			
Foreman	Tom Jensen	RAE Job No.	4748			
ABSA	Plant: H Vessel: P Process: W	Special: B	ASME			
History Log	Third party inspection report by TEAM Industrial Services Dated October 1, 2012 - entered on February 7, 2013					

Component	Shell						
MAWP	200	0.0 PSI @ 151 °F		MDMT	-20 °F @ 2000.0 PSI		
Material	SA-516-70	N	Material Thickness		2.75 in		
Diameter		Length					
Corrosion Allowance							

Comments

This vessel was inspected to the Apache 4.4PRD-001VS Category 1 Unfired Separator procedure.

Date Printed: Dec 16, 2014



4810-93 Street, Edmonton, Alberta T6E 5M4
Phone: (780) 469-2401 Fax: (780) 468-2422
Report No: SF000651



Date Printed: Dec 16, 2014



4810-93 Street, Edmonton, Alberta T6E 5M4

Phone: (780) 469-2401 Fax: (780) 468-2422 Report No: SF000651

Internal Observations

Access for Inspection

Access for thorough internal inspection was partially limited via top and bottom manways for torso in only access. Areas in between were not accessible.

Components Inspected - Top

- Upper tray
- Bubble caps
- Shell
- Demister
- Glycol inlet and perforated screens
- Manway/cover and neck

Cleanliness

There was some minor product residue; however, the level of cleanliness was adequate for a thorough inspection.

Inspection Observations

The components inspected appeared to be in serviceable condition with no relevant indications of corrosion/erosion or mechanical defects and exhibited no areas of fabrication defects, distortion, or evidence of overheating. There was some minor surface corrosion however there was no pitting.

Components Inspected - Bottom

- Shell
- Bottom head
- Deflector plate for inlet
- Nozzles

Cleanliness

Sludge build-up on bottom head shell allowed for a limited inspection.

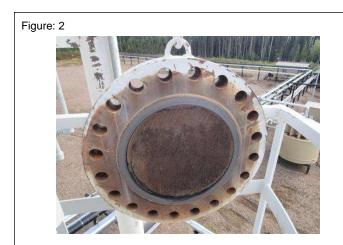
Inspection Observations

The components inspected appeared to be in serviceable condition with no relevant indications of corrosion/erosion or mechanical defects and exhibited no areas of fabrication defects, distortion, or evidence of overheating.

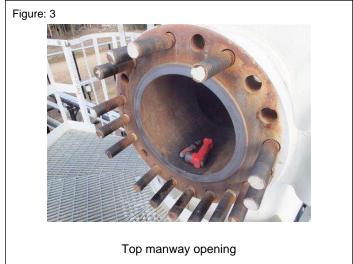
Date Printed: Dec 16, 2014 Page: 3 of 5

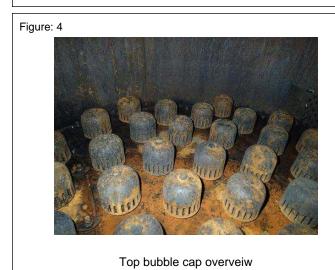
4810-93 Street, Edmonton, Alberta T6E 5M4 Phone: (780) 469-2401 Fax: (780) 468-2422

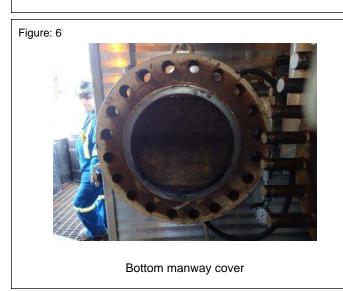
Report No: SF000651

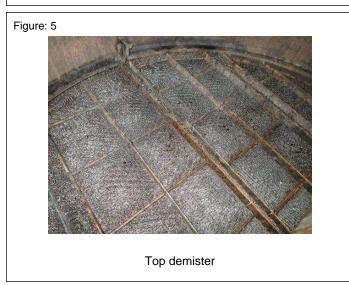


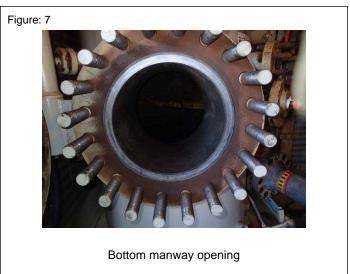
Top manway cover







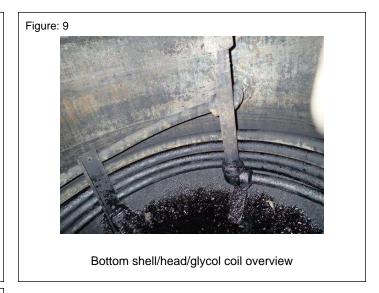




Date Printed: Dec 16, 2014

4810-93 Street, Edmonton, Alberta T6E 5M4
Phone: (780) 469-2401 Fax: (780) 468-2422
Report No: SF000651







Recommendations

Based on the scope of this inspection the vessel appears suitable for continued service.



Ken McNeil
SEN. INSPECTOR
ALBERTA IPV
FILE # A - 75085

Ken mc new

Inspector: Keith Courneyea Reviewed By: Ken McNeil

Date Printed: Dec 16, 2014 Page: 5 of 5



4.4-FRM-002VS Visual Internal Inspection Report

Date:	16-Sep-201	√ W0 #:		Sketch/Notes:
Inspected By			IBPV 246/API 510 - 31740	- TOISD IN accome vice TODY Rother Money
Coordinator:	The state of the s			- Torso in access via Top & Bottom Manways, Areas in between were not accessible.
Ops Forema	n:			of the were not accessible.
Region:	Patry	Area:	FT Nelson	
Facility:	Partry De		11 10 30 1	
Location, LSI		0-5		
Description:			lHeater	
Service Fluid	,			
Unit Name / #				
Equip. Name:				
Jurisdiction #:			P2157.21	
Manufacturer:			1.01	
Year Built:	2000 S/N: 00190-201			
0	ALL DEPOSITS SECRETARISES AND ADMINISTRATION OF THE PARTY	AND DESCRIPTIONS OF THE PARTY O	AND CHARLESTER CARRIED TO STATE OF THE PARTY	ccessible shell and head surfaces, nozzles, welds, etc.
Scope:			portormed on all de	storial and riead surfaces, nozzles, welds, etc.
Manus	gasket surfaces:	Compliant w	rith code	Comment:
Manway:	manway nozzle:	☐no pitting, e		Comment
ACTION AND THE STREET, SALES	coated □	COLD FOR COLOR BURNISH STATE OF THE PROPERTY O	A STATE OF THE PARTY OF THE PAR	Comment:
Shell and	uniform corrosion:	☑insignificant		Comment:
Head	pitting corrosion:	☐none noted		Comment:
Surfaces:	erosion:	☑none noted		Comment:
	mechanical damage			Comment:
The State of the State of Laboratory of the State of the	uniform corrosion:	Dinsignificant	Contract of the contract of th	Comment: none noted
Welds:	pitting corrosion:	☐none noted		Comment:
	welding defects:	☐none noted		Comment:
	□NDT was performe	ed by:	Management of the Section Section 1997 and 1997	Type: □MPI (□WF □B&W □Dry) □LPI □UT □RT □Other:
NDT:	Extent:			Type: Livii 1 (Livvi Libavi Libiy) LEPI Libi Liki Libitiner:
	Results:)/5	ze Beg	wold.	
1.51.000 Tellis Anne Silvania per Calabara ya mana Para ana asilwa	obstructions:	☑none noted	THE PARTY OF THE P	Comment:
Nozzles:	corrosion:	☑none noted		Comment:
	erosion:	☐none noted		comment:
CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	☑vortex breaker	□secure □go	od condition C	comment: pak partially visible
	□impingement plate			omment: Only partially Visible
	□internal piping			omment:
	☐demister(≤)			omment: Top & Bottom Manaxeys
		□secure □go	od condition C	omment:
-		Dsecure Dgo		omment:
		Dsecure Dgo		
	J 110	□secure □go		omment: Hardware tight-nove missing.
		□secure □god		omment:
The state of the s	100000000000000000000000000000000000000	to the test of the complete of the second of	CARA US S NOT PRODUCE A REAL BOOK A CONTRACTOR OF A SHARE REPORTED TO	
otes:				
	P.			
ecom-	Nono.		- A	
ended 2.				
ctions: 3.				
Iditional nates	are attached:□	Item Dis	suitable for se	Inspector's

□is <u>NOT</u>

Inspector's Signature: Heith Coulnage 1 of 1