



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

ESR Not updated - not an
internal inspection

Report No: CS000744

Client	Apache Canada Ltd.	Inspection Date	Mar 20, 2012		
Prov. Reg. #	AB 0497263	Inspection Type	VE / UT		
Equipment Type	Horizontal Inlet Separator	Location	Zama		
Tag/Equip.	V-100	LSD	AB 16-15-118-07W6		
Status	In Service	Downhole LSD			
Manufacturer	Orban Industries Ltd	Area	Shekilie		
Serial Number	03.070HS	Year Built	2003		
CRN #	R2234.2	Service	Sour		
Comp/Unit Id	Horizontal Separator Building	Manway	None		
Nat.Board #		Coating			
Interim Insp'n		Interim Type			
Next Inspection	2015	Next Insp Type	VE / UT		
Length		Height			
Volume		Client Reference			
Owner	Apache Canada Ltd.	RT	1	HT	YES
Foreman	Kelly Franke	RAE Job No.	2673		
ABSA	Plant: H Vessel: K Process: W Special: B	ASME	Sec. VIII div. 1		
History Log					

Component	SHELL 1				
MAWP	740.0 PSI @ 100 °F		MDMT	-20 °F @ 740.0 PSI	
Material	SA-516-70N		Material Thickness	1.25 in	
Diameter			Length		
Corrosion Allowance					



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Valve Tag No	C0-27669-A10	Relief Type	Pressure Safety Valve
Manufacturer	Farris	Set Pressure	740 PSI
Serial Number	C0-27669-A10	Capacity	11378 SCFM
Model	26HA12-120/SSM	Last Service	Jun 9, 2011
CRN		Next Service	2014
Service Co.	Apex	Service Interval	36 Months
Service Co. Tag		Inlet Size	2 in
ASME Stamp	UV	Outlet Size	3 in
NB Stamp	YES	Connection	Threaded
Relief Dest.	To Atmosphere	Valve Loc.	On Piping
Comments			

Comments

NCR - Block valves on PSV piping need to be carsealed in the open position.

Figure: 1



Vessel Location

Building Observations

The building is generally in good condition and well supported. The floor was clean and was checker plate steel. The building is well lit and the door functions well. There was generally good access to the equipment in the building.

Figure: 2



Building Overview

Piping Observations

The associated piping is flanged and threaded. The piping appears in generally good condition. There is no damage, distortion or stress evident on piping. The piping is adequately supported. The piping is fully painted and in good condition with minor paint chipping. The pipe flanges and bolting appear in good condition. The flange connections are fully bolted. The threaded piping is in the same condition as the flanged.

Figure: 3



Piping1

Figure: 4



Piping2



Figure: 5



Piping3

Figure: 6



Piping4

PSV Observations

The PSV is located on the vessel inside the building. The PSV nameplate is secure to PSV. The PSV service tag is attached. The seal wire is intact. The PSV is set to the correct set pressure. The vent size is adequate. The PSV is vented safely. The PSV service reports have not been reviewed, but there are no concerns that would require the service interval to be reduced.

Figure: 7



PSV Overview

Figure: 8



PSV Service Tag



Figure: 9



PSV Nameplate

External Observations

The vessel nameplate is legible and securely attached to the vessel. The vessel was identified via the A-number and the serial number stamped on nameplate of the vessel. The heads, shell and nozzles and bolting appear in good condition. There is no damage or distortion evident on the vessel surface. There is no stress on piping or nozzle connections. The vessel is adequately supported. The vessel is fully painted inside the building; the paint is in good condition with minor paint chipping.

Figure: 10



Vessel Overview

Figure: 11



Vessel Nameplate2



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Figure: 12



Vessel Nameplate1

Internal Observations

No internal inspections were performed at time of inspection.

UT1 Observations

All thickness readings are in thousandth's of an inch.

Thickness readings were taken in multiple locations on the equipment.

Each location was scanned to obtain the range of thickness reported.

Corrosion Allowance:				NA	UT Readings (inches)						Nominal Thk:	Shell	
: NA	Head:NA								Location		1	2	3
4	5	6											
05	Elbow 6" XH			0.426	0.410	0.409	0.416	0.420	0.417				
10	Elbow 4" Std.			0.247	0.245	0.243	0.240	0.244	0.248				
15	Elbow 3" Std.			0.235	0.226	0.226	0.223	0.227	0.228				
20	East Head			1.287	1.279	1.291	1.282	1.287	1.293				
25	East Shell			1.279	1.283	1.276	1.278	1.287	1.283				
30	Mid Shell			1.295	1.289	1.295	1.292	1.289	1.286				
35	West Shell			1.317	1.315	1.326	1.327	1.325	1.318				
40	West Head			1.282	1.285	1.289	1.297	1.307	1.305				
45	East Elbow 2" Std.				0.204	0.206	0.203	0.201	0.203	0.201			
50	West Elbow 3" Std.				0.236	0.228	0.226	0.224	0.226	55	West Elbow 3" XH		
0.335	0.322	0.317	0.321	0.324	0.325								

General Observations

Equipment was in operation at time of inspection. There are no leaks evident on piping connections and/or controls. No vibration induced damage is evident. The gauge(s) and associate equipment all appear in good condition and operational.

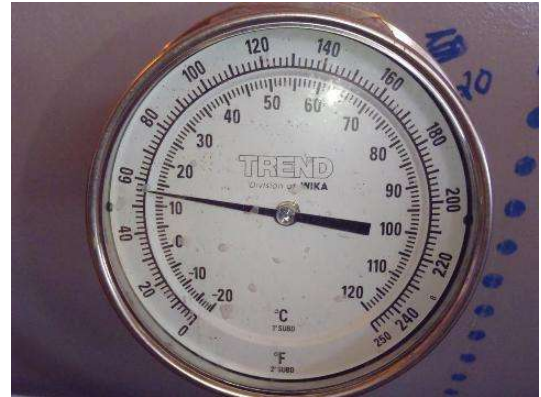


Figure: 13



Pressure Gauge

Figure: 14



Temperature Gauge

Recommendations

- Block valve on PSV piping is not carsealed in the open position. Lock valve in the open position.
- Vessel is fit for continued service.

Inspector: Carter Shields

Reviewed By: Trevor Paananen