

DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

15-10-43-14 WYM

Company:	Signalta Resources Limited	LSD:	AB	03/11/035/22/W4M
Area/Facility:	Rich	Inspection Date	05-May-08	Interval: 5 yrs
Vessel Name:	Separator	A No:	A-406578	MTL No: VSL1224
Internal Coating Type:		Next External:	Nov, 2010	Next Internal: May, 2013
Vessel Orientation:	Vertical	Internal Coating Lining:	No	
Vessel Type:	Vertical Vessel	Fluid Type	Sweet	
Tag No:		Serial Number:	W01-280	
Separator Type:	Two Phase	Business Unit:	Gas Business Unit	
Direct Fired Vessel:	N/A	Fired Tube:		
Current Status:	In Service	Flame Arrester Date Required:	Date	
Thermal Insulation:	No	Asbestos:	No	

PRESSURE VESSEL NAMEPLATE INFORMATION

MTL Number:	VSL1224	Volume:	9.150 F3	CRN Number:	L9196.23	Registered:	Yes
Serial Number:	W01-280			Size:	16.000 in O.D. x 7 ft 6 in		
Drawing Number:	WP0107-01 REV 2			P & ID Number:			
Shell Material:	SA 106B			Shell Thickness:	0.843 In		
				Shell Thickness:	In		
Head Material:	SA 516 70N			Top	Head Thickness:	0.700 In	
				Bottom	Head Thickness:	0.700 In	
Tube Material:	Tube Size(OD):			In	Tube Thickness:	In	
Tubesheet Material:				Tubesheet Thickness:	In		
Channel Material:	Channel Type:			Channel Thickness:		In	
Design Pressure:	Shell:	1440 psi		Operating Pressure:	Shell:	psi	
	Tube:	psi			Tube:	psi	
Design Temperature:	Shell:	100 F		Operating Temperature:	Shell:	F	
	Tube:	F			Tube:	F	
RT (XRay):	RT2			Heat Treatment:	No		
Code Parameters:				Joint Efficiency:			
Manufacturer:	Wabash Mfg. Inc.			Year Built:	2001		
Corrosion Allowance:	0.063			Manway:	No		

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VESSEL SHELL / HEADS / PIPING

External / Instrumentation Condition

The external surface of this vessel is in good mechanical condition with no evidence of corrosion.
 The pressure retaining welds are intact and reveal no signs of deterioration or visible cracking.
 The external coating is chipped, scratched and dirty.
 A ladder is required to access the vessel's external top head and upper shell.
 The top head and portion of the shell above the roofline is covered by a utilidor frame.
 The well was shut in March 21, 2007.
 The dump flare line dumps into the pop tank.
 The 2" line is insulated outside the skid.
 The associated instrumentation is in good mechanical condition.
 The instrumentation tubing is secured.

Internal Condition

The internal surface was not evaluated at this time.
 Internal access through: 2" inspection nozzle.

Nozzle Condition

The nozzles are in good mechanical condition with no mechanical damage or measurable corrosion noted on the external surfaces.

Flange Condition

The flange and NPT connections are in good mechanical condition with no evidence of measurable corrosion.
 All associated flanges and bolting are intact and show no evidence of mechanical damage, deterioration, visible cracking, or process leaks.
 Flange rating: 600.
 2 x 3" 600 XXS 105N inlet and outlet

Nozzle:

3 - 1" NPT (blank, dump, PSV)
 6 - 3/4" NPT (sight glass, instrumentation)
 3 - 2" floats, inspection
 1 - 1 1/2" drain
 2 - 3" 600 inlet and outlet

Internal Piping

Not applicable.

External Piping

The primary piping is bolted.
 The auxiliary piping is threaded.
 The piping is in good mechanical condition with no signs of damage or deformation.
 The associated pressure welds are intact and show no signs of deterioration or visible cracking.
 The pipe coating is chipped and dirty.
 Some of the dump vent piping is not painted.
 The threaded piping is in place and tight with no evidence of deterioration, visible cracking or process leaks.
 There are no visible leaks.

Pipe Support Condition

The associated pipe support structure is in good mechanical condition with no evidence of any mechanical damage or degradation.
 The associated pipe supports are bolted to the piping system.
 The pipe support clamps are tight.

Bolting Condition

The associated piping flange bolting and gaskets are in place and tight.
 All flange connections are intact with no evidence of deterioration, visible cracking or process leaks.
 The studs are the correct length, diameter, type and grade.

Firetube Condition

Not applicable.

Demister Pad Condition

Not applicable.

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Anode Condition

Not applicable.

Vessel Support

The vessel skirt, baseplate and anchor bolts are in good condition with no evidence of mechanical deterioration.
The vessel baseplate is anchored to the skid.
The ground wire is visibly attached to the skid structure.
The caulking at the wall and roof openings is sealed.
There is skirt access

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VESSEL COATING INSPECTION

Type of Coating

Coating Manufacturer and Type

Location

Coating Condition

VESSEL NONDESTRUCTIVE TESTING

NDE Type

Location of Test

Contractors Name

Qualifications

Last UT Survey Date

Interval

yrs

Next UT Date:

Survey By

Test Results

VESSEL STATUS

Suitable for Further Service?

Yes

Repairs Required?

No

Owners Representative

Repairs Completed?

Owners Date

Repairs Completed By

Repair Date

Details of Repairs


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Inspection Comments	Vessel is idle but still tied in.
Recommendations	Open the vessel for cleaning and video probe inspection at the next scheduled turnaround. Service the PSV. Ensure that the PSV is pre-popped and the service report is forwarded to MTL Inspection Group Inc. Add this vessel and associated piping to the UT Corrosion Survey. Contact MTL Inspection Group Inc. prior to placing the vessel back into service.

Name (Printed)	Signature	Date
Visual Inspector David Gauthier	PESL 206	May 05, 2008
QA Supervisor: (Chief Inspector) David Gauthier	PESL 206 	November 13, 2008
QA Administrator:		
ABSA Inspector:		