



Pigging Separator

Reg. No. : (A) 2664161
 S/N : 2059.90
 CRN : K-1666.23
 Built : June 1990
 MWP : 259 PSI @ 140°F
 Dia. : 36" OD
 C.A. : 0.059"
 J.E. : 100%
 Shell :
 Head :
 Built By : Sureweld Industries

Imperial Oil Resources Redcliff South Compressor Station 08-23-012-07 W4	SUMMIT Inspection Services Ltd.	Sketched: MS	Date: 04/2009
		AutoCad: DD/RR	Revised:
		Dwg: 3	Items: 300 - 385

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (a)	V-101 Vessel		Drawing: 3	Dia: 914 (mm) OD
Band: 300	Top East Head		MfgDate: Jan 1990	CA: 1.50 (mm)
Registration: A 2664161			Material:	Nominal: 9.52 (mm)
CRN: K-1666.23			MWP: 1786 kpa @	Critical: 8.03 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Loss Condition Indicator
Inspection Dates	Oct 2008													
Temperature °C	16													
Top	1 9.60	2 9.42	3 9.52	4 9.17	5 9.40	6 9.37							0.10	0.01
Bottom													0.00	0.00
Scan Minimum (mm)													0.36	0.02
Avg Thickness (mm)													0.13	0.01
Avg Loss													0.15	0.01

Scan Minimum (mm) 9.17

Avg Thickness (mm) 9.41

Avg Loss

Avg Loss Rate

Max Loss Rate

Standard Deviation 0.15

Condition Indicator

Comments:

Oct 2008 Band: Nominal thickness is assumed to be 9.52mm and should be confirmed.

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (a)	V-101 Vessel		Drawing: 3	Dia: 914 (mm) OD
Band: 305	Bottom East Head		MfgDate: Jan 1990	CA: 1.50 (mm)
Registration: A 2664161			Material:	Nominal: 9.52 (mm)
CRN: K-1666.23			MWP: 1786 kpa @ 60 °C	Critical: 8.03 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12
Inspection Dates	Oct 2008											
Temperature °C	16											
Top	1	2	3	4	5	6	7	8	9	10	11	12
	9.42	9.68	9.65	9.65	9.86	9.96						
Bottom												
Scan Minimum (mm)	9.40											
Avg Thickness (mm)	9.70											
Avg Loss												
Avg Loss Rate												
Max Loss Rate												
Standard Deviation	0.19											
Condition Indicator												
Comments:												
Oct 2008	Band: Nominal thickness is assumed to be 9.52mm and should be confirmed.											

Total Loss Rate	0.10
Condition Indicator	0.01



DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (a)	V-101 Vessel		Drawing: 3	Dia: 914 (mm) OD
Band: 310	Top East Shell		MfgDate: Jan 1990	CA: 1.50 (mm)
Registration: A 2664161			Material:	Nominal: 9.52 (mm)
CRN: K-1666.23			MWP: 1786 kpa @ 60 °C	Critical: 8.03 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Condition Indicator
Inspection Dates	Oct 2008													
Temperature °C	16													
East	1 10.21	2 10.08	3 10.11	4 10.49	5 10.36	6 10.13	7 10.19	8 10.24	9 10.21	10 10.16	11 10.19	12 10.16		
West														

Scan Minimum (mm)	10.08
Avg Thickness (mm)	10.21
Avg Loss	
Avg Loss Rate	
Max Loss Rate	
Standard Deviation	0.11
Condition Indicator	

Comments:
Oct 2008 Band: Nominal thickness is assumed to be 9.52mm and should be confirmed.

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (a)	V-101 Vessel		Drawing: 3	Dia: 914 (mm) OD
Band: 315	Lower South Shell (west end)		MfgDate: Jan 1990	CA: 1.50 (mm)
Registration: A 2664161			Material:	Nominal: 9.52 (mm)
CRN: K-1666.23			MWP: 1786 kpa @ 60 °C	Critical: 8.03 (mm)

Inspection Dates	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Condition Indicator
Temperature °C	16													
Top	1	2	3	4	5	6	7	8	9	10	11	12		
	10.39	10.39	10.29	10.36	10.34	10.29	10.26	10.13	10.29	10.34	10.31	10.34		
Bottom	12	10.34												
Scan Minimum (mm)		10.13												
Avg Thickness (mm)		10.31												
Avg Loss														
Avg Loss Rate														
Max Loss Rate														
Standard Deviation														
Condition Indicator														

Comments:

Material correction
 Calibration correction
 Temperature Correction

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (a)	V-101 Vessel		Drawing: 3	Dia: 914 (mm) OD
Band: 320	Bottom East Shell		MfgDate: Jan 1990	CA: 1.50 (mm)
Registration: A 2664161			Material:	Nominal: 9.52 (mm)
CRN: K-1666.23			MWP: 1786 kpa @ 60 °C	Critical: 8.03 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Loss Condition Indicator
Inspection Dates	Oct 2008													
Temperature °C	16													
East	1 10.06	2 10.06	3 10.01	4 10.03	5 9.91	6 9.83	7 9.80	8 9.86	9 9.88	10 9.83	11 9.86	12 9.75		
West														
Scan Minimum (mm)														
Avg Thickness (mm)														
Avg Loss														
Avg Loss Rate														
Max Loss Rate														
Standard Deviation														
Condition Indicator														
Comments:														

Oct 2008

Band: Nominal thickness is assumed to be 9.52mm and should be confirmed.

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (a)	V-101 Vessel		Drawing: 3	Dia: 914 (mm) OD
Band: 325	Bottom West Shell		MfgDate: Jan 1990	CA: 1.50 (mm)
Registration: A 2664161			Material:	Nominal: 9.52 (mm)
CRN: K-1666.23			MWP: 1786 kpa @ 60 °C	Critical: 8.03 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Condition Indicator
Inspection Dates	Oct 2008													
Temperature °C	16													
East	1 10.01	2 10.16	3 10.24	4 10.21	5 10.19	6 10.44	7 10.29	8 10.21	9 10.41	10 10.24				
West														

Scan Minimum (mm)	10.01
Avg Thickness (mm)	10.24
Avg Loss	
Avg Loss Rate	
Max Loss Rate	
Standard Deviation	0.12
Condition Indicator	
Comments:	

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (a)	V-101	Vessel	Drawing: 3	Dia: 914 (mm) OD
Band: 330	Bottom West Head		MfgDate: Jan 1990	CA: 1.50 (mm)
Registration: A 2664161			Material:	Nominal: 9.52 (mm)
CRN: K-1666.23			MWP: 1786 kpa @ 60 °C	Critical: 8.03 (mm)

Inspection Dates	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Condition Indicator
Temperature °C	16													
Top	1 9.09	2 9.09	3 9.17	4 9.17	5 9.19	6 9.25	7 9.32	8 9.17	9 9.35	10 9.25	11 9.02	12 9.70	0.43	0.02
Bottom													0.43	0.02
Scan Minimum (mm)													0.36	0.02
Avg Thickness (mm)													0.36	0.02
Avg Loss													0.33	0.02
Avg Loss Rate													0.28	0.01
Max Loss Rate													0.20	0.01
Standard Deviation													0.36	0.02
Condition Indicator													0.18	0.01
Comments:													0.28	0.01
													0.51	0.03

Loss Rate Term

Data printed in metric units. Critical thickness: 0.00

Material correction

Calibration correction

Temperature Correction

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (b)		Piping	Drawing: 3	Dia: 219 (mm) OD
Band: 340	8" Nozzle		MfgDate: Jan 1990	CA: 1.60 (mm)
Registration:			Material: SA 106 B	Nominal: 12.70 (mm)
CRN:			MWP: 1786 kpa @ 60 °C	Critical: 11.10 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Condition Indicator
Inspection Dates	Oct 2008												0.20	0.01
Temperature °C	16												0.33	0.02
North	1 13.18													
East	2 12.50													
	3 12.37													
South	4 13.08													
	5 13.82													
West	6 14.02													
	7 13.92													
	8 13.64													
Scan Minimum (mm)	12.37													
Avg Thickness (mm)	13.32													

Avg Loss

Avg Loss Rate

Max Loss Rate

Standard Deviation 0.64

Condition Indicator

Comments:

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (b)		Piping	Drawing: 3	Dia: 219 (mm) OD
Band: 350	8" Nozzle		MfgDate: Jan 1990	CA: 1.60 (mm)
Registration:			Material: SA 106 B	Nominal: 12.70 (mm)
CRN:			MWP: 1786 kpa @ 60 °C	Critical: 11.10 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Condition Indicator
Inspection Dates			Oct 2008											
Temperature °C			16											
North	1	13.28												
	2	13.06												
East	3	12.83												
	4	13.41												
South	5	13.51												
	6	13.61												
West	7	13.87												
	8	13.46												
Scan Minimum (mm)														
Avg Thickness (mm)														
Avg Loss														
Avg Loss Rate														
Max Loss Rate														
Standard Deviation														
Condition Indicator														
Comments:														

Scan Minimum (mm)	12.83
Avg Thickness (mm)	13.38
Avg Loss	
Avg Loss Rate	
Max Loss Rate	
Standard Deviation	0.32
Condition Indicator	
Comments:	

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (b)		Piping	Drawing: 3	Dia: 60 (mm) OD
Band: 360	2" Nozzle		MfgDate: Jan 1990	CA: 1.60 (mm)
Registration:			Material: SA 106 B	Nominal: 11.07 (mm)
CRN:			MWP: 1786 kpa @ 60 °C	Critical: 9.47 (mm)

Inspection Dates	1	2	3	4	5	6	7	8	9	10	11	12	Total Loss Rate (mm/yr)	Condition Indicator
Temperature °C			16										0.08	0.00
North	1	11.53												
East	2	11.00												
South	3	12.32												
West	4	12.01												

Scan Minimum (mm)	11.00
Avg Thickness (mm)	11.72
Avg Loss	
Avg Loss Rate	
Max Loss Rate	
Standard Deviation	0.58
Condition Indicator	

Comments:

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (b)		Piping	Drawing: 3	Dia: 60 (mm) OD
Band: 370	2" Nozzle		MfgDate: Jan 1990	CA: 1.60 (mm)
Registration:			Material: SA 106 B	Nominal: 11.07 (mm)
CRN:			MWP: 1786 kpa @ 60 °C	Critical: 9.47 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12
Inspection Dates												
Temperature °C												
North	1	11.86										
East	2	11.94										
South	3	12.17										
West	4	11.48										

Scan Minimum (mm)	11.43
Avg Thickness (mm)	11.86
Avg Loss	
Avg Loss Rate	
Max Loss Rate	
Standard Deviation	0.29
Condition Indicator	

Comments:

Total Loss Rate	
Loss Rate Indicator	
(mm) (mm/yr)	

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (b)		Piping	Drawing: 3	Dia: 60 (mm) OD
Band: 380	2" Nozzle		MfgDate: Jan 1990	CA: 1.60 (mm)
Registration:			Material: SA 106 B	Nominal: 11.07 (mm)
CRN:			MWP: 1786 kpa @ 60 °C	Critical: 9.47 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12
Inspection Dates												
Temperature °C												
North	1	12.40										
East	2	11.68										
South	3	12.17										
West	4	11.61										
Scan Minimum (mm)		11.61										
Avg Thickness (mm)		11.96										
Avg Loss												
Avg Loss Rate												
Max Loss Rate												
Standard Deviation												
Condition Indicator												
Comments:												

Total Loss Rate	
Condition Indicator	
(mm) (mm/yr)	

DATA PAGE

Index: 3	V-101	Pigging Separator	Product:	JE: 100%
Component: (b)	6" Nozzle	Piping	Drawing: 3	Dia: 168 (mm) OD
Band: 385			MfgDate: Jan 1990	CA: 1.60 (mm)
Registration:			Material: SA 106 B	Nominal: 21.95 (mm)
CRN:			MWP: 1786 kpa @ 60 °C	Critical: 20.35 (mm)

	1	2	3	4	5	6	7	8	9	10	11	12
Inspection Dates			Oct 2008									
Temperature °C	16											
North	1 21.74											
	2 22.12											
East	3 21.41											
	4 22.35											
South	5 22.30											
	6 22.12											
West	7 21.77											
	8 22.07											
Scan Minimum (mm)	21.41											
Avg Thickness (mm)	21.99											
Avg Loss												
Avg Loss Rate												
Max Loss Rate												
Standard Deviation	0.32											
Condition Indicator												
Comments:												
Total Loss Rate (mm/yr)	0.20	0.01										
Condition Indicator	0.53	0.03										
Total Loss Rate (mm/yr)	0.18	0.01										

Scan Minimum (mm)	21.41
Avg Thickness (mm)	21.99
Avg Loss	
Avg Loss Rate	
Max Loss Rate	
Standard Deviation	0.32
Condition Indicator	
Comments:	