



# ULTRASONIC CORROSION SURVEY

Survey Name: **SIGNALTA RESOURCES**

Report Number: 191

Survey Date: 2/11/13

LSD: 13-14-042-16W4	Dwg: 49	Vessel Number: 209963	Manufacturer: AIR COOLED EXCHANGERS	Inspector: F. ORELLANA
District Unit: FORESTBURG		Vessel Name: 2ND STAGE COOLER	Serial Number: 6532-2	Process:
Location: PLANT		Year Built: 1984	Shell MAWP PSI: 350 MAWT F: 300	
Skid:		Tag Number:	Tube MAWP PSI: 0 MAWT F: 0	
		CRN: E 9829.2	Vessel CA: 0.0625	

Band	Description	Ref	Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss	LT Loss	Recommended
						Material	CA		MPY	MPY	Retirement
											Date
00	- Shell	Ref	2013	0.5190	2013	0.5190	2014				
Shape	Flat	Min		0.5100		0.5100	SA 285 - C	0.0000			
	OD	Avg		0.5150		0.5150					
Spec.	VIII Div 1										Comments:
05	- Shell	Ref	2013	0.5010	2013	0.5010	2014				
Shape	Flat	Min		0.4990		0.4990	SA 285 - C	0.0000			
	OD	Avg		0.5060		0.5060					
Spec.	VIII Div 1										Comments:
10	- Piping	Ref	2013	0.1410	2013	0.1410	2014	0.1540	0.0235		
Shape	45° Elbow	Min		0.1290		0.1290	A 234 - WPB	0.0192			
	OD 2.375	Avg		0.1440		0.1440		<b>Caution</b>			
Spec.	B31.3										Comments:
15	- Piping	Ref	2013	0.1500	2013	0.1500	2014	0.1540	0.0235		
Shape	90° Elbow	Min		0.1500		0.1500	A 234 - WPB	0.0192			
	OD 2.375	Avg		0.1510		0.1510					
Spec.	B31.3										Comments:



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Band	Description		Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss	LT Loss	Recommended
						Material	CA		MPY	MPY	Retirement
											Date
20	- Nozzle	Ref	2013	0.4090	2013	0.4090	2014	0.3430	0.0200		
Shape	360° Circ	Min		0.3560		0.3560	SA 106 - B	0.1054			
OD	2.375	Avg		0.3940		0.3940					
Spec.	VIII Div 1										Comments:
25	- Nozzle	Ref	2013	0.4230	2013	0.4230	2014	0.3430	0.0200		
Shape	360° Circ	Min		0.3570		0.3570	SA 106 - B	0.1054			
OD	2.375	Avg		0.3840		0.3840					
Spec.	VIII Div 1										Comments:
30	- Piping	Ref	2013	0.1530	2013	0.1530	2014	0.1540	0.0235		
Shape	90° Elbow	Min		0.1370		0.1370	A 234 - WPB	0.0192			
OD	2.375	Avg		0.1540		0.1540					
Spec.	B31.3										Comments: