



ULTRASONIC CORROSION SURVEY

Survey Name: **BARRICK ENERGY INC.**

Survey Date: 2/27/2010

LSD: 10-29-071-23W5 Dwg: 427 Vessel Number: A0146071 Manufacturer: KAPS MFG. Inspector: MWS
 District Unit: FIELD Vessel Name: PRODUCTION SEPARATOR Serial Number: 78.287.01.V1 Process: SOUR
 Location: STURGEON LAKE NORTH Year Built: 1978 Shell MAWP PSI: 150 MAWT F: 100
 Skid: PKG54771 Tag Number: V-4909 Tube MAWP PSI: 0 MAWT F: 0
 CRN: C9940.2 Vessel CA: 0.1250

Band	Description		Baseline	Previous			Current			Next Inspection	Nominal	TMIN	ST Loss	LT Loss	Recommended		
										Material	CA	MPY	MPY	Retirement	Date		
#Name?	Head		Baseline	0.501	0.504	0.504	0.503	0.503	0.506	2010	0.504	0.501	0.4375	0.1250	0.2279	2011	2030
Shape	Ellipsoidal	Shell Side	Previous	Comments-->													
OD	54		Current	0.501	0.504	0.504	0.503	0.503	0.506	2010	0.504	0.501					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY 0.000													
				OK													
#Name?	Shell		Baseline	0.392	0.395	0.384	0.397	0.394	0.395	2010	0.393	0.384	0.3750	0.1250	0.2294	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	54		Current	0.392	0.395	0.384	0.397	0.394	0.395	2010	0.393	0.384					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY 0.000													
				OK													
#Name?	Shell		Baseline	0.402	0.402	0.401	0.399	0.389	0.399	2010	0.399	0.389	0.3750	0.1250	0.2294	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	54		Current	0.402	0.402	0.401	0.399	0.389	0.399	2010	0.399	0.389					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY 0.000													
				OK													
#Name?	Shell		Baseline	0.405	0.406	0.406	0.405	0.403	0.406	2010	0.405	0.403	0.3750	0.1250	0.2294	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	54		Current	0.405	0.406	0.406	0.405	0.403	0.406	2010	0.405	0.403					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY 0.000													
				OK													



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 CRN: C9940.2 Vessel CA: 0.1250

Band	Description	Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss	LT Loss	Recommended							
					Material	CA	MPY	MPY	Retirement	Date							
#Name?	Shell	Baseline	0.383	0.385	0.389	0.390	0.390	0.389	2010	0.388	0.383	0.3750	0.1250	0.2294	2011	2030	
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	54	Current	0.383	0.385	0.389	0.390	0.390	0.389	2010	0.388	0.383						
Spec.	VIII Div 1							ST Loss MPY	OK								
Material	SA 516 - 70							LT Loss MPY	0.000								
#Name?	Shell	Baseline	0.384	0.386	0.381	0.388	0.390	0.390	2010	0.387	0.381	0.3750	0.1250	0.2294	2011	2030	
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	54	Current	0.384	0.386	0.381	0.388	0.390	0.390	2010	0.387	0.381						
Spec.	VIII Div 1							ST Loss MPY	OK								
Material	SA 516 - 70							LT Loss MPY	0.000								
#Name?	Head	Baseline	0.506	0.502	0.504	0.510	0.509	0.519	2010	0.508	0.502	0.4375	0.1250	0.2279	2011	2030	
Shape	Ellipsoidal	Shell Side	Previous	Comments-->													
OD	54	Current	0.506	0.502	0.504	0.510	0.509	0.519	2010	0.508	0.502						
Spec.	VIII Div 1							ST Loss MPY	OK								
Material	SA 516 - 70							LT Loss MPY	0.000								
#Name?	Head	Baseline	0.509	0.509	0.503	0.504	0.504	0.501	2010	0.505	0.501	0.4375	0.1250	0.2279	2011	2030	
Shape	Ellipsoidal	Shell Side	Previous	Comments-->													
OD	54	Current	0.509	0.509	0.503	0.504	0.504	0.501	2010	0.505	0.501						
Spec.	VIII Div 1							ST Loss MPY	OK								
Material	SA 516 - 70							LT Loss MPY	0.000								



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 CRN: C9940.2 Vessel CA: 0.1250

Band	Description		Baseline	Previous			Current			Next Inspection	Nominal	TMIN	ST Loss	LT Loss	Recommended		
									Material	CA		MPY	MPY	Retirement	Date		
#Name?	Nozzle		Baseline	0.498	0.491	0.489	0.491	0.492	0.499	2010	0.493	0.489	0.5000	0.1250	0.0385	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->													
OD	8.625		Current	0.498	0.491	0.489	0.491	0.492	0.499	2010	0.493	0.489					
Spec.	VIII Div 1									ST Loss MPY		OK					
Material	SA 234 - WPB									LT Loss MPY	0.000						
#Name?	Piping		Baseline	0.336	0.337	0.331	0.337	0.353	0.349	2010	0.341	0.331	0.3220	0.0402	0.0322	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->													
OD	8.625		Current	0.336	0.337	0.331	0.337	0.353	0.349	2010	0.341	0.331					
Spec.	B31.3									ST Loss MPY		OK					
Material	A 234 - WPB									LT Loss MPY	0.000						
#Name?	Piping		Baseline	0.371	0.330	0.339	0.362	0.367	0.348	2010	0.353	0.330	0.3220	0.0402	0.0322	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->													
OD	8.625		Current	0.371	0.330	0.339	0.362	0.367	0.348	2010	0.353	0.330					
Spec.	B31.3									ST Loss MPY		OK					
Material	A 234 - WPB									LT Loss MPY	0.000						
#Name?	Piping		Baseline	0.291	0.283	0.280	0.280	0.283	0.282	2010	0.283	0.280	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->													
OD	6.625		Current	0.291	0.283	0.280	0.280	0.283	0.282	2010	0.283	0.280					
Spec.	B31.3									ST Loss MPY		OK					
Material	A 234 - WPB									LT Loss MPY	0.000						



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 District Unit: FIELD Vessel Name: PRODUCTION SEPARATOR Serial Number: 78.287.01.V1 Process: SOUR
 Location: STURGEON LAKE NORTH Year Built: 1978 Shell MAWP PSI: 150 MAWT F: 100
 Skid: PKG54771 Tag Number: V-4909 Tube MAWP PSI: 0 MAWT F: 0
 CRN: C9940.2 Vessel CA: 0.1250

Band	Description	Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss MPY	LT Loss MPY	Recommended Retirement Date						
#Name?	Piping	Baseline	0.288	0.294	0.290	0.289	0.289	0.288	2010	0.290	0.288	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.288	0.294	0.290	0.289	0.289	0.288	2010	0.290	0.288					
Spec.	B31.3						ST Loss MPY				OK					
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.226	0.225	0.217	0.216	0.225	0.220	2010	0.222	0.216	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.226	0.225	0.217	0.216	0.225	0.220	2010	0.222	0.216					
Spec.	B31.3						ST Loss MPY				OK					
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.295	0.296	0.293	0.293	0.273	0.266	2010	0.286	0.266	0.2800	0.0350	0.0248	2011	2030
Shape	45° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.295	0.296	0.293	0.293	0.273	0.266	2010	0.286	0.266					
Spec.	B31.3						ST Loss MPY				OK					
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.257	0.260	0.264	0.262	0.258	0.266	2010	0.261	0.257	0.2800	0.0350	0.0248	2011	2030
Shape	45° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.257	0.260	0.264	0.262	0.258	0.266	2010	0.261	0.257					
Spec.	B31.3						ST Loss MPY				OK					
Material	A 234 - WPB						LT Loss MPY	0.000								



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 Skid: PKG54771 Tag Number: V-4909 Tube MAWP PSI: 0 MAWT F: 0
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Band	Description	Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss MPY	LT Loss MPY	Recommended Retirement Date						
#Name?	Piping	Baseline	0.287	0.292	0.295	0.298	0.295	0.292	2010	0.293	0.287	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.287	0.292	0.295	0.298	0.295	0.292	2010	0.293	0.287					
Spec.	B31.3							ST Loss MPY		OK						
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.270	0.276	0.277	0.282	0.285	0.288	2010	0.280	0.270	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.270	0.276	0.277	0.282	0.285	0.288	2010	0.280	0.270					
Spec.	B31.3							ST Loss MPY		OK						
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.288	0.285	0.289	0.290	0.285	0.286	2010	0.287	0.285	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.288	0.285	0.289	0.290	0.285	0.286	2010	0.287	0.285					
Spec.	B31.3							ST Loss MPY		OK						
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.220	0.220	0.229	0.223	0.226	0.217	2010	0.223	0.217	0.2370	0.0296	0.0168	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	4.5	Current	0.220	0.220	0.229	0.223	0.226	0.217	2010	0.223	0.217					
Spec.	B31.3							ST Loss MPY		OK						
Material	A 234 - WPB							LT Loss MPY		0.000						



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Band	Description	Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss MPY	LT Loss MPY	Recommended Retirement Date						
#Name?	Piping	Baseline	0.282	0.283	0.270	0.276	0.271	0.271	2010	0.276	0.270	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.282	0.283	0.270	0.276	0.271	0.271	2010	0.276	0.270					
Spec.	B31.3						ST Loss MPY					OK				
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.279	0.282	0.278	0.276	0.276	0.281	2010	0.279	0.276	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.279	0.282	0.278	0.276	0.276	0.281	2010	0.279	0.276					
Spec.	B31.3						ST Loss MPY					OK				
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.277	0.274	0.274	0.276	0.279	0.277	2010	0.276	0.274	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.277	0.274	0.274	0.276	0.279	0.277	2010	0.276	0.274					
Spec.	B31.3						ST Loss MPY					OK				
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.245	0.239	0.226	0.223	0.232	0.230	2010	0.233	0.223	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.245	0.239	0.226	0.223	0.232	0.230	2010	0.233	0.223					
Spec.	B31.3						ST Loss MPY					OK				
Material	A 234 - WPB						LT Loss MPY	0.000								



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Band	Description	Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss MPY	LT Loss MPY	Recommended Retirement Date						
#Name?	Piping	Baseline	0.285	0.279	0.280	0.282	0.286	0.276	2010	0.281	0.276	0.2800	0.0350	0.0248	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	6.625	Current	0.285	0.279	0.280	0.282	0.286	0.276	2010	0.281	0.276					
Spec.	B31.3						ST Loss MPY					OK				
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.147	0.148	0.146	0.148	0.144	0.147	2010	0.147	0.144	0.1540	0.0192	0.0089	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	2.375	Current	0.147	0.148	0.146	0.148	0.144	0.147	2010	0.147	0.144					
Spec.	B31.3						ST Loss MPY					OK				
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.186	0.186	0.186	0.187	0.190	0.198	2010	0.189	0.186	0.2180	0.0272	0.0089	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	2.375	Current	0.186	0.186	0.186	0.187	0.190	0.198	2010	0.189	0.186					
Spec.	B31.3						ST Loss MPY					Caution				
Material	A 234 - WPB						LT Loss MPY	0.000								
#Name?	Piping	Baseline	0.191	0.187	0.186	0.184	0.185	0.184	2010	0.186	0.184	0.2180	0.0272	0.0089	2011	2030
Shape	45° Elbow	Shell Side	Previous	Comments-->												
OD	2.375	Current	0.191	0.187	0.186	0.184	0.185	0.184	2010	0.186	0.184					
Spec.	B31.3						ST Loss MPY					Caution				
Material	A 234 - WPB						LT Loss MPY	0.000								