



ULTRASONIC CORROSION SURVEY

Survey Name: **BARRICK ENERGY INC.**

Survey Date: 2/22/2010

LSD: 10-29-071-23W5 Dwg: 428 Vessel Number: A2648288 Manufacturer: NATCO CANADA LTD. Inspector: MWS
 District Unit: FIELD Vessel Name: TEST SEPARATOR Serial Number: LS-3939 Process: SOUR
 Location: STURGEON LAKE NORTH Year Built: 1990 Shell MAWP PSI: 150 MAWT F: 100
 Skid: PKG54771 Tag Number: V-4908 Tube MAWP PSI: 0 MAWT F: 0
 CRN: K1236.2 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	0.383	0.387	0.384	0.388	0.383	0.394	2010	0.387	0.383	0.3650	0.1250	0.1513	2011	2030
Shape	Ellipsoidal	Shell Side	Previous	Comments-->													
OD	36		Current	0.383	0.387	0.384	0.388	0.383	0.394	2010	0.387	0.383					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY 0.000													
#Name?	Shell		Baseline	0.393	0.392	0.389	0.390	0.394	0.395	2010	0.392	0.389	0.3750	0.1250	0.1519	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	36		Current	0.393	0.392	0.389	0.390	0.394	0.395	2010	0.392	0.389					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY 0.000													
#Name?	Shell		Baseline	0.422	0.423	0.423	0.419	0.411	0.411	2010	0.418	0.411	0.3750	0.1250	0.1519	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	36		Current	0.422	0.423	0.423	0.419	0.411	0.411	2010	0.418	0.411					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY 0.000													
#Name?	Shell		Baseline	0.411	0.412	0.413	0.413	0.412	0.413	2010	0.412	0.411	0.3750	0.1250	0.1519	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	36		Current	0.411	0.412	0.413	0.413	0.412	0.413	2010	0.412	0.411					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY 0.000													



ULTRASONIC CORROSION SURVEY

Survey Name: **BARRICK ENERGY INC.**

Survey Date: 2/22/2010

LSD: 10-29-071-23W5 Dwg: 428 Vessel Number: A2648288 Manufacturer: NATCO CANADA LTD. Inspector: MWS
 District Unit: FIELD Vessel Name: TEST SEPARATOR Serial Number: LS-3939 Process: SOUR
 Location: STURGEON LAKE NORTH Year Built: 1990 Shell MAWP PSI: 150 MAWT F: 100
 Skid: PKG54771 Tag Number: V-4908 Tube MAWP PSI: 0 MAWT F: 0
 CRN: K1236.2 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	Shell	Baseline	0.401	0.400	0.404	0.406	0.406	0.406	2010	0.404	0.400	0.3750	0.1250	0.1519	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	36		Current	0.401	0.400	0.404	0.406	0.406	0.406	2010	0.404	0.400					
Spec.	VIII Div 1											ST Loss MPY					
Material	SA 516 - 70										0.000	LT Loss MPY					
													OK				
#Name?	Shell	Shell	Baseline	0.410	0.407	0.408	0.411	0.413	0.413	2010	0.410	0.407	0.3750	0.1250	0.1519	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	36		Current	0.410	0.407	0.408	0.411	0.413	0.413	2010	0.410	0.407					
Spec.	VIII Div 1											ST Loss MPY					
Material	SA 516 - 70										0.000	LT Loss MPY					
													OK				
#Name?	Shell	Shell	Baseline	0.394	0.394	0.395	0.397	0.397	0.399	2010	0.396	0.394	0.3750	0.1250	0.1519	2011	2030
Shape	Cylindrical	Shell Side	Previous	Comments-->													
OD	36		Current	0.394	0.394	0.395	0.397	0.397	0.399	2010	0.396	0.394					
Spec.	VIII Div 1											ST Loss MPY					
Material	SA 516 - 70										0.000	LT Loss MPY					
													OK				
#Name?	Head	Head	Baseline	0.408	0.396	0.403	0.402	0.403	0.401	2010	0.402	0.396	0.3650	0.1250	0.1513	2011	2030
Shape	Ellipsoidal	Shell Side	Previous	Comments-->													
OD	36		Current	0.408	0.396	0.403	0.402	0.403	0.401	2010	0.402	0.396					
Spec.	VIII Div 1											ST Loss MPY					
Material	SA 516 - 70										0.000	LT Loss MPY					
													OK				



ULTRASONIC CORROSION SURVEY

Survey Name: **BARRICK ENERGY INC.**

Survey Date: 2/22/2010

LSD: 10-29-071-23W5 Dwg: 428 Vessel Number: A2648288 Manufacturer: NATCO CANADA LTD. Inspector: MWS
 District Unit: FIELD Vessel Name: TEST SEPARATOR Serial Number: LS-3939 Process: SOUR
 Location: STURGEON LAKE NORTH Year Built: 1990 Shell MAWP PSI: 150 MAWT F: 100
 Skid: PKG54771 Tag Number: V-4908 Tube MAWP PSI: 0 MAWT F: 0
 CRN: K1236.2 Vessel CA: 0.1250

Band	Description	Baseline	Previous	Current	Next Inspection	Nominal	TMIN	ST Loss MPY	LT Loss MPY	Recommended Retirement Date						
#Name?	Nozzle	Baseline	0.454	0.449	0.448	0.445	0.444	0.442	2010	0.447	0.442	0.4380	0.1250	0.0132	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.454	0.449	0.448	0.445	0.444	0.442	2010	0.447	0.442					
Spec.	VIII Div 1						ST Loss MPY		OK							
Material	SA 234 - WPB						LT Loss MPY		0.000							
#Name?	Piping	Baseline	0.214	0.212	0.210	0.211	0.210	0.209	2010	0.211	0.209	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.214	0.212	0.210	0.211	0.210	0.209	2010	0.211	0.209					
Spec.	B31.3						ST Loss MPY		OK							
Material	A 234 - WPB						LT Loss MPY		0.000							
#Name?	Piping	Baseline	0.230	0.232	0.234	0.235	0.235	0.237	2010	0.234	0.230	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.230	0.232	0.234	0.235	0.235	0.237	2010	0.234	0.230					
Spec.	B31.3						ST Loss MPY		OK							
Material	A 234 - WPB						LT Loss MPY		0.000							
#Name?	Piping	Baseline	0.217	0.218	0.221	0.222	0.222	0.221	2010	0.220	0.217	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.217	0.218	0.221	0.222	0.222	0.221	2010	0.220	0.217					
Spec.	B31.3						ST Loss MPY		OK							
Material	A 234 - WPB						LT Loss MPY		0.000							



ULTRASONIC CORROSION SURVEY

Survey Name: **BARRICK ENERGY INC.**

Survey Date: 2/22/2010

LSD: 10-29-071-23W5 Dwg: 428 Vessel Number: A2648288 Manufacturer: NATCO CANADA LTD. Inspector: MWS
 District Unit: FIELD Vessel Name: TEST SEPARATOR Serial Number: LS-3939 Process: SOUR
 Location: STURGEON LAKE NORTH Year Built: 1990 Shell MAWP PSI: 150 MAWT F: 100
 Skid: PKG54771 Tag Number: V-4908 Tube MAWP PSI: 0 MAWT F: 0
 CRN: K1236.2 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	0.208	0.208	0.208	0.212	0.212	0.219	2010	0.211	0.208	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.208	0.208	0.208	0.212	0.212	0.219	2010	0.211	0.208					
Spec.	B31.3							ST Loss MPY				OK				
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.211	0.213	0.213	0.209	0.208	0.209	2010	0.211	0.208	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.211	0.213	0.213	0.209	0.208	0.209	2010	0.211	0.208					
Spec.	B31.3							ST Loss MPY				OK				
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.205	0.211	0.209	0.212	0.216	0.219	2010	0.212	0.205	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.205	0.211	0.209	0.212	0.216	0.219	2010	0.212	0.205					
Spec.	B31.3							ST Loss MPY				OK				
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.232	0.231	0.231	0.233	0.234	0.230	2010	0.232	0.230	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.232	0.231	0.231	0.233	0.234	0.230	2010	0.232	0.230					
Spec.	B31.3							ST Loss MPY				OK				
Material	A 234 - WPB							LT Loss MPY		0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: **BARRICK ENERGY INC.**

Survey Date: 2/22/2010

LSD: 10-29-071-23W5 Dwg: 428 Vessel Number: A2648288 Manufacturer: NATCO CANADA LTD. Inspector: MWS
 District Unit: FIELD Vessel Name: TEST SEPARATOR Serial Number: LS-3939 Process: SOUR
 Location: STURGEON LAKE NORTH Year Built: 1990 Shell MAWP PSI: 150 MAWT F: 100
 Skid: PKG54771 Tag Number: V-4908 Tube MAWP PSI: 0 MAWT F: 0
 CRN: K1236.2 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	0.217	0.216	0.215	0.218	0.217	0.219	2010	0.217	0.215	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.217	0.216	0.215	0.218	0.217	0.219	2010	0.217	0.215					
Spec.	B31.3							ST Loss MPY				OK				
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.210	0.210	0.210	0.210	0.217	0.213	2010	0.212	0.210	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.210	0.210	0.210	0.210	0.217	0.213	2010	0.212	0.210					
Spec.	B31.3							ST Loss MPY				OK				
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.208	0.208	0.206	0.208	0.210	0.215	2010	0.209	0.206	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.208	0.208	0.206	0.208	0.210	0.215	2010	0.209	0.206					
Spec.	B31.3							ST Loss MPY				OK				
Material	A 234 - WPB							LT Loss MPY		0.000						
#Name?	Piping	Baseline	0.218	0.219	0.216	0.216	0.216	0.218	2010	0.217	0.216	0.2160	0.0270	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.218	0.219	0.216	0.216	0.216	0.218	2010	0.217	0.216					
Spec.	B31.3							ST Loss MPY				OK				
Material	A 234 - WPB							LT Loss MPY		0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: **BARRICK ENERGY INC.**

Survey Date: 2/22/2010

LSD: 10-29-071-23W5 Dwg: 428 Vessel Number: A2648288 Manufacturer: NATCO CANADA LTD. Inspector: MWS
 District Unit: FIELD Vessel Name: TEST SEPARATOR Serial Number: LS-3939 Process: SOUR
 Location: STURGEON LAKE NORTH Year Built: 1990 Shell MAWP PSI: 150 MAWT F: 100
 Skid: PKG54771 Tag Number: V-4908 Tube MAWP PSI: 0 MAWT F: 0
 CRN: K1236.2 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	0.169	0.164	0.167	0.165	0.172	0.165	2010	0.167	0.164	0.1540	0.0192	0.0089	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	2.375	Current	0.169	0.164	0.167	0.165	0.172	0.165	2010	0.167	0.164					
Spec.	B31.3							ST Loss MPY								
Material	A 234 - WPB							LT Loss MPY	0.000							
#Name?	Piping	Baseline	0.292	0.294	0.294	0.295	0.296	0.301	2010	0.295	0.292	0.3000	0.0375	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.292	0.294	0.294	0.295	0.296	0.301	2010	0.295	0.292					
Spec.	B31.3							ST Loss MPY								
Material	A 234 - WPB							LT Loss MPY	0.000							
#Name?	Piping	Baseline	0.255	0.257	0.250	0.250	0.249	0.242	2010	0.251	0.242	0.3000	0.0375	0.0131	2011	2030
Shape	90° Elbow	Shell Side	Previous	Comments-->												
OD	3.5	Current	0.255	0.257	0.250	0.250	0.249	0.242	2010	0.251	0.242					
Spec.	B31.3							ST Loss MPY								
Material	A 234 - WPB							LT Loss MPY	0.000							