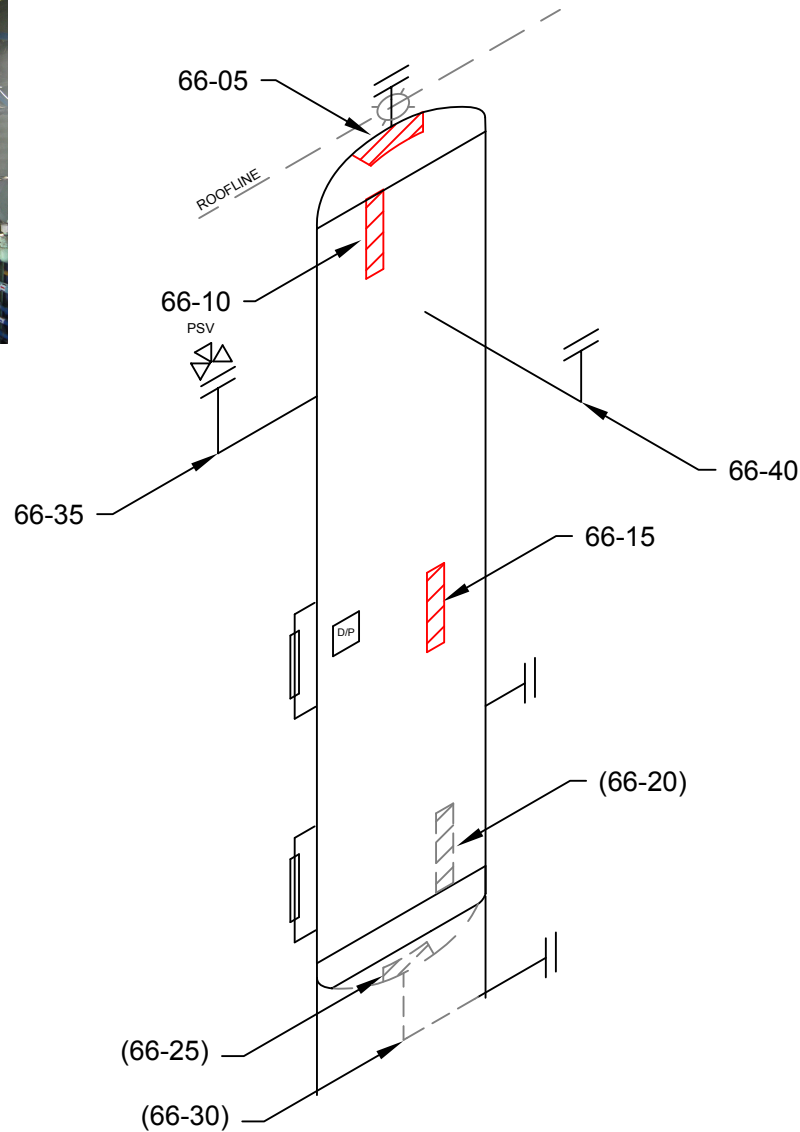
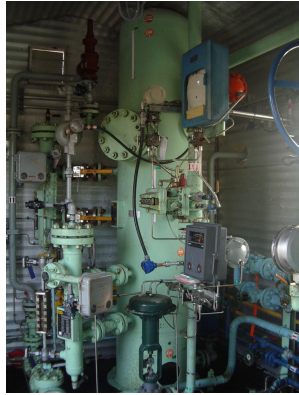


ITEM:

SEPARATOR

A 0194887



STETTLER, AB (403) 742-4868
LACOMBE, AB (403) 782-7855
BROOKS, AB (403) 501-8029
GRANDE PRAIRIE, AB (866) 422-9732

TECHNICIAN:

STEVE GILLINGHAM
SNT LEVEL II
CGSB 48.9712
LEVEL II # 11441

DATE: **01/28/11**DWG # **66**CLIENT: **CNRL**LSD: **11-33-073-09-W6M**

INSPECTOR : RAJ KHAN

LOCATION : VALHALLA

DISTRICT UNIT : WEST COUNTY

BLDG/SKID : SKD 0211

PROCESS : SOUR

CODE : ASME SEC VIII DIV 1

SPECIFICATION : AS PER ASME SE 797

TECHNIQUE : UT 1-1, REV .1

METHOD : UT CONTINUOUS / A SCAN

SURFACE COND : PAINTED

SURFACE TEMP : AMBIENT

VESSEL INFORMATIONVESSEL # : **A 0194887**

CRN # : F6669.2

SERIAL # : 1581-V400B

MANUFACTURER : ABAX ENERGY

DATE BUILT : 1986

CLIENT ID / TAG : -

M.A.W.P. : 1376 PSI

M.A.W.T. : 180 °F

JOINT EFFICIENCY/RT : RT 1

STRESS RELIEVED : YES

INSULATED : NO

MANWAY : NO

VESSEL SPECIFICATIONS

	OD	NOMINAL	MATERIAL	CA
VESSEL HEAD	24"	1.013"	SA-516-70	.125"
VESSEL SHELL	24"	1.125"	SA-516-70	.125"
BOOT HEAD	-	-	-	-
BOOT SHELL	-	-	-	-

COMMENTS:

PROJECT:

C70099

A 0194887

C70099



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 11-33-073-09W6 Dwg: 66 Vessel Number: A0194887 Manufacturer: ABAX ENERGY Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: SEPARATOR Serial Number: 1581-V400B Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1986 Shell MAWP PSI: 1376 MAWT F: 180 Process: SOUR
Skid: SKD0211 Tag Number: - Tube MAWP PSI: 0 MAWT F: 0 Project #: C70099
CRN: F6669.2 Vessel CA: 0.1250

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
66-05	Top	Head	Baseline	1.107	1.108	1.107	1.109	1.109	1.109	2006	1.108	1.107	1.0130	0.1250	0.8707	2012	2031
Shape	Ellipsoidal	Shell Side	Previous	1.107	1.108	1.107	1.109	1.109	1.109	2006	1.108	1.107	Comments-->				
OD	24		Current	1.107	1.108	1.107	1.109	1.109	1.109	2011	1.108	1.107					
Spec.	VIII Div 1									ST Loss MPY	0.000		OK				
Material	SA 516 - 70									LT Loss MPY	0.000						
66-10	Upper	Shell	Baseline	1.157	1.165	1.163	1.161	1.163	1.160	2006	1.162	1.157	1.1250	0.1250	0.8974	2012	2031
Shape	Cylindrical	Shell Side	Previous	1.157	1.165	1.163	1.161	1.163	1.160	2006	1.162	1.157	Comments-->				
OD	24		Current	1.157	1.165	1.163	1.161	1.163	1.160	2011	1.162	1.157					
Spec.	VIII Div 1									ST Loss MPY	0.000		OK				
Material	SA 516 - 70									LT Loss MPY	0.000						
66-15	Mid	Shell	Baseline	1.162	1.161	1.161	1.160	1.154	1.158	2006	1.159	1.154	1.1250	0.1250	0.8974	2012	2031
Shape	Cylindrical	Shell Side	Previous	1.162	1.161	1.161	1.160	1.154	1.158	2006	1.159	1.154	Comments-->				
OD	24		Current	1.162	1.161	1.161	1.160	1.154	1.158	2011	1.159	1.154					
Spec.	VIII Div 1									ST Loss MPY	0.000		OK				
Material	SA 516 - 70									LT Loss MPY	0.000						
66-20	Lower	Shell	Baseline	1.164	1.163	1.161	1.163	1.163	1.143	2006	1.160	1.143	1.1250	0.1250	0.8974	2012	2031
Shape	Cylindrical	Shell Side	Previous	1.164	1.163	1.161	1.163	1.163	1.143	2006	1.160	1.143	Comments-->				
OD	24		Current	1.164	1.163	1.161	1.163	1.163	1.143	2011	1.160	1.143					
Spec.	VIII Div 1									ST Loss MPY	0.000		OK				
Material	SA 516 - 70									LT Loss MPY	0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 11-33-073-09W6 Dwg: 66 Vessel Number: A0194887 Manufacturer: ABAX ENERGY Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: SEPARATOR Serial Number: 1581-V400B Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1986 Shell MAWP PSI: 1376 MAWT F: 180 Process: SOUR
Skid: SKD0211 Tag Number: - Tube MAWP PSI: 0 MAWT F: 0 Project #: C70099
CRN: F6669.2 Vessel CA: 0.1250

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
66-25	Bottom	Head	Baseline	1.102	1.100	1.099	1.100	1.093	1.085	2006	1.097	1.085	1.0130	0.1250	0.8707	2012	2031
Shape	Ellipsoidal	Shell Side	Previous	1.102	1.100	1.099	1.100	1.093	1.085	2006	1.097	1.085	Comments-->				
OD	24		Current	1.102	1.100	1.099	1.100	1.093	1.085	2011	1.097	1.085					
Spec.	VIII Div 1			ST Loss MPY							0.000		OK				
Material	SA 516 - 70			LT Loss MPY							0.000						
66-30		Nozzle	Baseline	0.320	0.307	0.284	0.289	0.298	0.308	2006	0.301	0.284	0.3430	0.1250	0.0822	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.320	0.307	0.284	0.289	0.298	0.308	2006	0.301	0.284	Comments-->				
OD	2.375		Current	0.304	0.297	0.284	0.289	0.296	0.296	2011	0.294	0.284					
Spec.	VIII Div 1			ST Loss MPY							0.000		OK				
Material	SA 234 - WPB			LT Loss MPY							0.000						
66-35		Nozzle	Baseline	0.369	0.367	0.370	0.369	0.375	0.375	2006	0.371	0.367	0.4000	0.1250	0.0535	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.369	0.367	0.370	0.369	0.375	0.375	2006	0.371	0.367	Comments-->				
OD	1.9		Current	0.369	0.367	0.359	0.361	0.362	0.365	2011	0.364	0.359					
Spec.	VIII Div 1			ST Loss MPY							0.002		OK				
Material	SA 234 - WPB			LT Loss MPY							0.002						
66-40		Nozzle	Baseline	0.487	0.481	0.479	0.480	0.477	0.475	2006	0.480	0.475	0.4370	0.1250	0.1278	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.487	0.481	0.479	0.480	0.477	0.475	2006	0.480	0.475	Comments-->				
OD	3.5		Current	0.486	0.481	0.479	0.480	0.477	0.475	2011	0.480	0.475					
Spec.	VIII Div 1			ST Loss MPY							0.000		OK				
Material	SA 234 - WPB			LT Loss MPY							0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 11-33-073-09W6 Dwg: 66 Vessel Number: A0194887 Manufacturer: ABAX ENERGY Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: SEPARATOR Serial Number: 1581-V400B Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1986 Shell MAWP PSI: 1376 MAWT F: 180 Process: SOUR
Skid: SKD0211 Tag Number: - Tube MAWP PSI: 0 MAWT F: 0 Project #: C70099
CRN: F6669.2 Vessel CA: 0.1250

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
66-45	Piping	Baseline		0.286	0.288	0.288	0.291	0.290	0.290	2006	0.289	0.286	0.3000	0.0375	0.1164	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.286	0.288	0.288	0.291	0.290	0.290	2006	0.289	0.286	Comments-->				
OD	3.5		Current	0.286	0.288	0.288	0.291	0.290	0.290	2011	0.289	0.286					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
66-50	Piping	Baseline		0.301	0.290	0.300	0.288	0.283	0.286	2006	0.291	0.283	0.3430	0.0429	0.0790	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.301	0.290	0.300	0.288	0.283	0.286	2006	0.291	0.283	Comments-->				
OD	2.375		Current	0.287	0.288	0.295	0.288	0.283	0.283	2011	0.287	0.283					
Spec.	B31.3			ST Loss MPY							0.000		Caution				
Material	A 234 - WPB			LT Loss MPY							0.000						
66-55	Piping	Baseline		0.299	0.295	0.295	0.305	0.302	0.294	2006	0.298	0.294	0.3430	0.0429	0.0790	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.299	0.295	0.295	0.305	0.302	0.294	2006	0.298	0.294	Comments-->				
OD	2.375		Current	0.299	0.295	0.295	0.305	0.300	0.294	2011	0.298	0.294					
Spec.	B31.3			ST Loss MPY							0.000		Caution				
Material	A 234 - WPB			LT Loss MPY							0.000						
66-60	Piping	Baseline		0.320	0.304	0.298	0.302	0.304	0.307	2006	0.306	0.298	0.3430	0.0429	0.0790	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.320	0.304	0.298	0.302	0.304	0.307	2006	0.306	0.298	Comments-->				
OD	2.375		Current	0.320	0.304	0.298	0.302	0.304	0.307	2011	0.306	0.298					
Spec.	B31.3			ST Loss MPY							0.000		Caution				
Material	A 234 - WPB			LT Loss MPY							0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 11-33-073-09W6 Dwg: 66 Vessel Number: A0194887 Manufacturer: ABAX ENERGY Survey Date: 1/29/11
District Unit: WEST COUNTY Vessel Name: SEPARATOR Serial Number: 1581-V400B Inspector: RAJ KHAN
Location: VALHALLA Year Built: 1986 Shell MAWP PSI: 1376 MAWT F: 180 Process: SOUR
Skid: SKD0211 Tag Number: - Tube MAWP PSI: 0 MAWT F: 0 Project #: C70099
CRN: F6669.2 Vessel CA: 0.1250

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
66-65	Piping	Baseline		0.324	0.310	0.308	0.317	0.318	0.320	2006	0.316	0.308	0.3430	0.0429	0.0790	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.324	0.310	0.308	0.317	0.318	0.320	2006	0.316	0.308	Comments-->				
OD	2.375		Current	0.324	0.310	0.308	0.313	0.316	0.320	2011	0.315	0.308					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
66-70	Piping	Baseline		0.332	0.320	0.313	0.314	0.315	0.321	2006	0.319	0.313	0.3430	0.0429	0.0790	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.332	0.320	0.313	0.314	0.315	0.321	2006	0.319	0.313	Comments-->				
OD	2.375		Current	0.329	0.320	0.313	0.314	0.315	0.321	2011	0.319	0.313					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
66-75	Piping	Baseline		0.319	0.309	0.311	0.305	0.312	0.320	2006	0.313	0.305	0.3430	0.0429	0.0790	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.319	0.309	0.311	0.305	0.312	0.320	2006	0.313	0.305	Comments-->				
OD	2.375		Current	0.317	0.306	0.305	0.305	0.312	0.320	2011	0.311	0.305					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
66-80	Piping	Baseline		0.280	0.281	0.281	0.284	0.289	0.287	2006	0.284	0.280	0.3000	0.0375	0.1164	2012	2031
Shape	90° Elbow	Shell Side	Previous	0.280	0.281	0.281	0.284	0.289	0.287	2006	0.284	0.280	Comments-->				
OD	3.5		Current	0.280	0.280	0.281	0.284	0.289	0.287	2011	0.284	0.280					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						