

**PEYTO EXPLORATION & DEVELOPMENT CORP. PRESSURE VESSEL
ABACUS # 9469**

Provincial Registration #: (AB)0578667

<u>Date Added:</u>	Aug 23 2010	<u>CRN:</u>	L5670.52
<u>Serial Number:</u>	S0700020	<u>Volume (M³):</u>	11356.01
<u>Tag/ID Number:</u>		<u>Compressor/Unit Number:</u>	
<u>Vessel Status:</u>	In Service	<u>Manufacturer:</u>	TRINITY INDUSTRIES INC.
<u>Field:</u>	GALLOWAY	<u>Location:</u>	LSD 09-34-53-20 W5M
<u>Equipment Type:</u>	LPG Storage Bullet	<u>Year Built:</u>	2007
<u>Shell Material:</u>	SA-612	<u>Shell Thickness:(nom)</u>	0.589 Inch
<u>Right Head Material:</u>	SA-612	<u>Right Head Thickness:(min)</u>	0.338 Inch
<u>Left Head Material 2:</u>	SA-612	<u>Left Head Thickness 2:(min)</u>	0.338 Inch
<u>Corrosion Allowance:</u>	0 Inch	<u>Coating:</u>	None
<u>MAWP:</u>	250 psi	<u>@Temperature:</u>	125 F
<u>MDMT:</u>	-20 F	<u>@Pressure:</u>	250 psi
<u>RT:</u>	2	<u>HT:</u>	No
<u>Diameter:</u>	10 Inch	<u>Length:</u>	57 Feet
<u>Height:</u>		<u>Manway Present:</u>	No
<u>Subject to Fees:</u>	Yes	<u>Subject to Act:</u>	Yes
<u>Service:</u>	Sweet		

Comments:

Inspection Schedule	
<u>Grade:</u> 2	<u>Inspection Interval:</u> 5 (Years)
<u>Previous Inspection:</u> Aug 16 2016	<u>Previous Inspection Type:</u> Ultrasonic Corrosion Survey
<u>Next Inspection Due:</u> Aug 16 2021	

PSV FORM ABACUS # 6445

Serial #: 578667-1

Protecting Vessel: (AB)0578667

<u>PSV Number:</u>		<u>CRN Number:</u>	0G0515.9C
<u>PSV Manufacturer:</u>	Squibb-Taylor	<u>Model Number:</u>	SQU A1310A VLV RLF
<u>Capacity:</u>	5795 SCFM	<u>Set Pressure:</u>	250 psi
<u>Inlet size:</u>	1.25" NPT	<u>Outlet size:</u>	1.25" NPT
<u>Tag Number:</u>		<u>Date Added:</u>	Jul 21 2011

Comments:

<u>Last Service:</u> Jan 5 2008	<u>Last Serviced By:</u> Squibb-Taylor
<u>Next Service Due:</u> 1/4/2015	<u>Service Interval:</u> 7 (Years)

PSV FORM ABACUS # 6446

Serial #: 578667-2

Protecting Vessel: (AB)0578667

PSV Number:

CRN Number:

0G0515.9C

PSV Manufacturer: Squibb-Taylor

Model Number:

SQU A1310A VLV RLF

Capacity: 5795 SCFM

Set Pressure:

250 psi

Inlet size: 1.25" NPT

Outlet size:

1.25" NPT

Tag Number:

Date Added:

Jul 21 2011

Comments:

<u>Last Service:</u> Jan 5 2008	<u>Last Serviced By:</u> Squibb-Taylor
<u>Next Service Due:</u> 1/4/2015	<u>Service Interval:</u> 7 (Years)

PSV FORM ABACUS # 6447

Serial #: 578667-3

Protecting Vessel: (AB)0578667

PSV Number:

CRN Number:

0G0515.9C

PSV Manufacturer: Squibb-Taylor

Model Number:

SQU A1310A VLV RLF

Capacity: 5795 SCFM

Set Pressure:

250 psi

Inlet size: 1.25" NPT

Outlet size:

1.25" NPT

Tag Number:

Date Added:

Jul 21 2011

Comments:

<u>Last Service:</u> Jan 5 2008	<u>Last Serviced By:</u> Squibb-Taylor
<u>Next Service Due:</u> 1/4/2015	<u>Service Interval:</u> 7 (Years)

PSV FORM ABACUS # 6448

Serial #: 578667-4

Protecting Vessel: (AB)0578667

PSV Number:

CRN Number:

0G0515.9C

PSV Manufacturer: Squibb-Taylor

Model Number:

SQU A1310A VLV RLF

Capacity: 5795 SCFM

Set Pressure:

250 psi

Inlet size: 1.25" NPT

Outlet size:

1.25" NPT

Tag Number:

Date Added:

Jul 21 2011

Comments:

PSV FORM ABACUS # 6449

Serial #: 578667-5

Protecting Vessel: (AB)0578667

PSV Number:

CRN Number:

0G0515.9C

PSV Manufacturer: Squibb-Taylor

Model Number:

SQU A1310A VLV RLF

Capacity: 5795 SCFM

Set Pressure:

250 psi

Inlet size: 1.25" NPT

Outlet size:

1.25" NPT

Tag Number:

Date Added:

Jul 21 2011

Comments:

<u>Last Service:</u> Jan 5 2008	<u>Last Serviced By:</u> Squibb-Taylor
<u>Next Service Due:</u> 1/4/2015	<u>Service Interval:</u> 7 (Years)

PSV FORM ABACUS # 6450

Serial #: 578667-6

Protecting Vessel: (AB)0578667

PSV Number:

CRN Number:

0G0515.9C

PSV Manufacturer: Squibb-Taylor

Model Number:

SQU A1310A VLV RLF

Capacity: 5795 SCFM

Set Pressure:

250 psi

Inlet size: 1.25" NPT

Outlet size:

1.25" NPT

Tag Number:

Date Added:

Jul 21 2011

Comments:

<u>Last Service:</u> Jan 5 2008	<u>Last Serviced By:</u> Squibb-Taylor
<u>Next Service Due:</u> 1/4/2015	<u>Service Interval:</u> 7 (Years)



Client: Peyto Exploration & Development Corp.
Date: August 16, 2016
LSI Location: 09-34-053-20w5m Galloway Gas Plant
Regulatory #: A0578667
Serial #: S0700020
CRN: L5670.51234
Job #: BMH16040 **Drawing #:** 909

This pressure vessel is acceptable and certified for continued use for 5 years from the date of this inspection under the current service conditions.

Note:
This Hunt Inspection Pressure Equipment NDE Examiner's Report has been altered by Day Consulting Inc. for the purpose of assessment by a company with a Certificate of Authorization Permit in accordance with the requirements of the Alberta Regulator and the Safety Codes Act and Regulations.

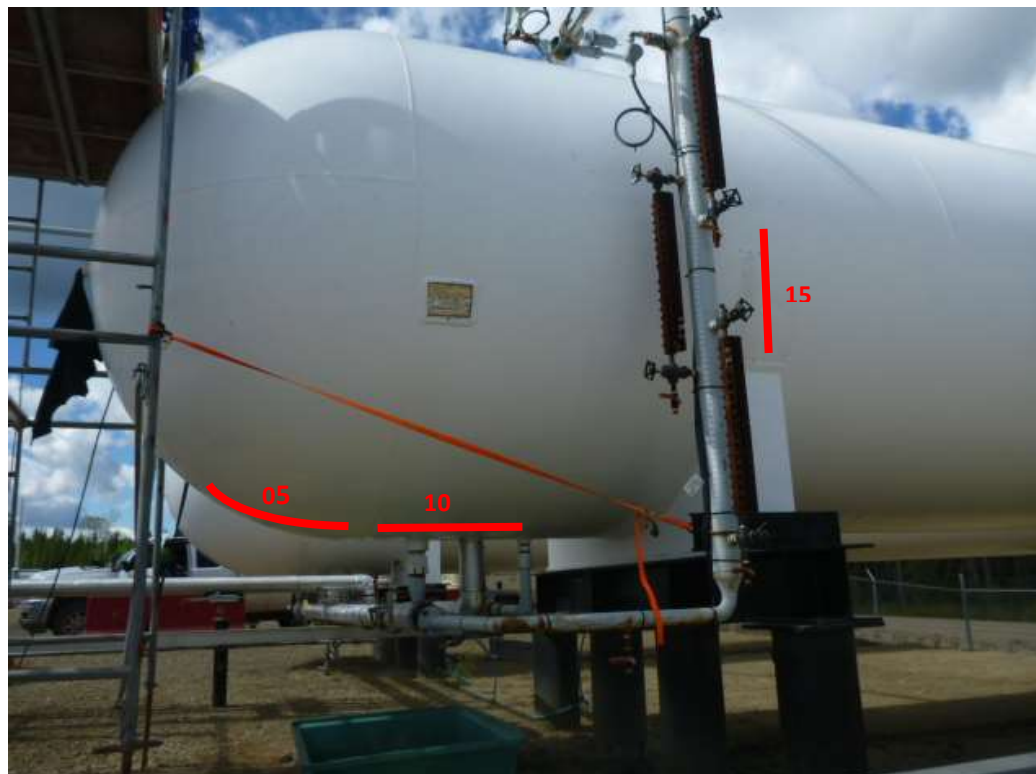
Bill Day, ISI Certification 000232

Benjamin M. Hunter
Reg. No. 12404
RT2 . UT2 . MT2 . PT2
CGSB 48.9712 / SNT Level II

Equipment Used:

Epoch 38DL Plus Serial #120434305
Stresstel 5.0 MHz x .250" Dual Crystal Probe Serial #16C00ZKE
1018 Steel .100" to .500" Step Wedge Serial #2710 11
1018 Steel .250" to 1.000" Step Wedge Serial #14577
304 SS .100" to .500" Step Wedge Serial #1829 12
Sonotech UT-X Couplant

Item: _____ LPG Storage Bullet _____





Client: Peyto Exploration & Development Corp.
Date: August 16, 2016
LSD Location: 09-34-053-20w5m Galloway Gas Plant
Regulatory #: A0578667
Serial #: S0700020
CRN: L5670.51234
Job #: BMH16040 Drawing #: 909

Item: LPG Storage Bullet





Item: LPG Storage Bullet

Client: Peyto Exploration & Development Corp.
 Date: August 16, 2016
 LSD Location: 09-34-053-20w5m Galloway Gas Plant
 Regulatory #: A0578667
 Serial #: S0700020
 CRN: L5670.51234
 Job #: BMH16040 Drawing #: 909





Payto Exploration & Development Corp. - Ultrasonic Corrosion Survey

Static Data

Date:	August 16, 2016	Vessel Name:	LPG Storage Bullet	Vessel Shell Nominal:	0.589 "	Report #:	BMH16040 - 909
Inspector:	Bill Day	Regulatory #:	A0578667	Vessel Head Nominal:	0.338 " Minimum	Job #:	BMH16040
LSD Location:	09-34-053-20w5m	Serial #:	S0700020	Shell Side MAWP:	250 PSI	Drawing #:	909
Sub-Facility:	East LPG Storage Bullet	CRN #:	L5670.51234	Shell Side MAWT:	125 F	Tag #:	-
District:	Galloway Gas Plant	Nat'l Board#:	S0700020	Tube Side MAWP:	-	Radiography:	RT-4
UT Technique:	UT 1-1 Revision 3	Manufacture:	Trinity Containers, LLC	Tube Side MAWT:	-	Code Stamp:	U
Surface Condition:	Smooth, Painted Steel	Year Built:	2007	AB 506 Vessel Type:	Non-Corrosive Storage	Orientation:	Horizontal
Surface Temperature:	60 F	Vessel OD:	109.346"	Manway:	Yes	Insulated:	No
Service Conditions:	Sweet LPG	Vessel CA:	NIL	Status:	Operating	Heat Treated:	No



Inspector Reviewed

CML:	909 - 05	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Left "South" Head	Baseline	0.365	0.363	0.363	0.367	0.372	0.379	August 16, 2016	.338 Min	0.363	0.379	0.368	NIL
Shape:	Hemispherical													
Side:	Shell Side	Current	0.365	0.363	0.363	0.367	0.372	0.379	August 16, 2016	.338 Min	0.363	0.379	0.368	NIL
OD:	109.346"													
Code:	ASME Sec. VIII, Div. 1	Comments:												
Material:	SA 612													



Inspector Reviewed

CML:	909 - 10	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Lower Shell	Baseline	0.602	0.603	0.606	0.605	0.603	0.602	August 16, 2016	0.589	0.602	0.606	0.604	NIL
Shape:	Cylindrical													
Side:	Shell Side	Current	0.602	0.603	0.606	0.605	0.603	0.602	August 16, 2016	0.589	0.602	0.606	0.604	NIL
OD:	109.346"													
Code:	ASME Sec. VIII, Div. 1	Comments:												
Material:	SA 612													



Inspector Reviewed

CML:	909 - 15	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Mid-Shell	Baseline	0.608	0.607	0.606	0.609	0.608	0.609	August 16, 2016	0.589	0.606	0.609	0.608	NIL
Shape:	Cylindrical													
Side:	Shell Side	Current	0.608	0.607	0.606	0.609	0.608	0.609	August 16, 2016	0.589	0.606	0.609	0.608	NIL
OD:	109.346"													
Code:	ASME Sec. VIII, Div. 1	Comments:												
Material:	SA 612													

Static Data

Date:	August 16, 2016	Vessel Name:	LPG Storage Bullet	Vessel Shell Nominal:	0.589 "	Report #:	BMH16040 - 909
Inspector:	Bill Day	Regulatory #:	A0578667	Vessel Head Nominal:	0.338 " Minimum	Job #:	BMH16040
LSD Location:	09-34-053-20w5m	Serial #:	S0700020	Shell Side MAWP:	250 PSI	Drawing #:	909
Sub-Facility:	East LPG Storage Bullet	CRN #:	L5670.51234	Shell Side MAWT:	125 F	Tag #:	-
District:	Galloway Gas Plant	Nat'l Board#:	S0700020	Tube Side MAWP:	-	Radiography:	RT-4
UT Technique:	UT 1-1 Revision 3	Manufacture:	Trinity Containers, LLC	Tube Side MAWT:	-	Code Stamp:	U
Surface Condition:	Smooth, Painted Steel	Year Built:	2007	AB 506 Vessel Type:	Non-Corrosive Storage	Orientation:	Horizontal
Surface Temperature:	60 F	Vessel OD:	109.346"	Manway:	Yes	Insulated:	No
Service Conditions:	Sweet LPG	Vessel CA:	NIL	Status:	Operating	Heat Treated:	No



CML:	909 - 20	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle Elbow	Baseline	0.234	0.220	0.223	0.224	0.225	0.223	August 16, 2016	0.218	0.220	0.234	0.225	
Shape:	90 Elbow													
Side:	Shell Side	Current	0.234	0.220	0.223	0.224	0.225	0.223	August 16, 2016	0.218	0.220	0.234	0.225	
OD:	2.375"													
Code:	ASME B31.3	Comments:												
Material:	SA 234-WPB													



CML:	909 - 25	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle Elbow	Baseline	0.215	0.215	0.221	0.225	0.226	0.228	August 16, 2016	0.218	0.215	0.228	0.222	
Shape:	90 Elbow													
Side:	Shell Side	Current	0.215	0.215	0.221	0.225	0.226	0.228	August 16, 2016	0.218	0.215	0.228	0.222	
OD:	2.375"													
Code:	ASME B31.3	Comments:	The minimum thickness measured in this CML exceeds the Manufacturer's Minimum Required Thickness for new pipe and fittings.											
Material:	SA 234-WPB													



CML:	909 - 30	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle Elbow	Baseline	0.221	0.224	0.226	0.227	0.218	0.221	August 16, 2016	0.218	0.218	0.227	0.223	
Shape:	90 Elbow													
Side:	Shell Side	Current	0.221	0.224	0.226	0.227	0.218	0.221	August 16, 2016	0.218	0.218	0.227	0.223	
OD:	2.375"													
Code:	ASME B31.3	Comments:												
Material:	SA 234-WPB													



Peyto Exploration & Development Corp. - Ultrasonic Corrosion Survey

Static Data

Date:	August 16, 2016	Vessel Name:	LPG Storage Bullet	Vessel Shell Nominal:	0.589 "	Report #:	BMH16040 - 909
Inspector:	Bill Day	Regulatory #:	A0578667	Vessel Head Nominal:	0.338 " Minimum	Job #:	BMH16040
LSD Location:	09-34-053-20w5m	Serial #:	S0700020	Shell Side MAWP:	250 PSI	Drawing #:	909
Sub-Facility:	East LPG Storage Bullet	CRN #:	L5670.51234	Shell Side MAWT:	125 F	Tag #:	-
District:	Galloway Gas Plant	Nat'l Board#:	S0700020	Tube Side MAWP:	-	Radiography:	RT-4
UT Technique:	UT 1-1 Revision 3	Manufacture:	Trinity Containers, LLC	Tube Side MAWT:	-	Code Stamp:	U
Surface Condition:	Smooth, Painted Steel	Year Built:	2007	AB 506 Vessel Type:	Non-Corrosive Storage	Orientation:	Horizontal
Surface Temperature:	60 F	Vessel OD:	109.346"	Manway:	Yes	Insulated:	No
Service Conditions:	Sweet LPG	Vessel CA:	NIL	Status:	Operating	Heat Treated:	No



CML:	909 - 35	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle "Upper" Shell	Baseline	0.255	0.249	0.247	0.247	0.248	0.241	August 16, 2016	0.237	0.241	0.255	0.248	
Shape:	Cylindrical													
Side:	Shell Side	Current	0.255	0.249	0.247	0.247	0.248	0.241	August 16, 2016	0.237	0.241	0.255	0.248	
OD:	4.500"													
Code:	ASME B31.3	Comments:												
Material:	SA 106-B													



CML:	909 - 40	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle "Lower" Shell	Baseline	0.260	0.257	0.244	0.248	0.261	0.260	August 16, 2016	0.237	0.244	0.261	0.255	
Shape:	Cylindrical													
Side:	Shell Side	Current	0.260	0.257	0.244	0.248	0.261	0.260	August 16, 2016	0.237	0.244	0.261	0.255	
OD:	4.500"													
Code:	ASME B31.3	Comments:												
Material:	SA 106-B													