

**PEYTO EXPLORATION & DEVELOPMENT CORP. PRESSURE VESSEL
ABACUS # 9468**

Provincial Registration #: (AB)0578666

<u>Date Added:</u>	Aug 23 2010	<u>CRN:</u>	L5670.52
<u>Serial Number:</u>	S0700021	<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: 2</u>	<u>Inspection Interval: 5 (Years)</u>
<u>Previous Inspection: Aug 16 2016</u>	<u>Previous Inspection Type: Ultrasonic Corrosion Survey</u>
<u>Next Inspection Due: Aug 16 2021</u>	

PSV FORM ABACUS # 6439

Serial #: 578666-1

Protecting Vessel: (AB)0578666

<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: Jan 5 2008</u>	<u>Last Serviced By: Squibb-Taylor</u>
<u>Next Service Due: 1/4/2014</u>	<u>Service Interval: 6 (Years)</u>

PSV FORM ABACUS # 6440

Serial #: 578666-2

Protecting Vessel: (AB)0578666

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 # 6441

Serial #: 578666-3

Protecting Vessel: (AB)0578666

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 # 6442

Serial #: 578666-4

Protecting Vessel: (AB)0578666

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 # 6443

Serial #: 578666-5

Protecting Vessel: (AB)0578666

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 # 6444

Serial #: 578666-6

Protecting Vessel: (AB)0578666

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)



Item: LPG Storage Bullet

Client: Peyto Exploration & Development Corp.
Date: August 16, 2016
LSD Location: 09-34-053-20w5m Galloway Gas Plant
Regulatory #: A0578666
Serial #: S0700021
CRN: L5670.51234
Job #: BMH16040 Drawing #: 894

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 #: A0578666
 Serial #: S0700021
 CRN: L5670.51234
 Job #: BMH16040 Drawing #: 894





Item: LPG Storage Bullet

Client: Peyto Exploration & Development Corp.
Date: August 16, 2016
LSD Location: 09-34-053-20w5m Galloway Gas Plant
Regulatory #: A0578666
Serial #: S0700021
CRN: L5670.51234
Job #: BMH16040 Drawing #: 894





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 - 894
Inspector:	Bill Day	Regulatory #:	A0578666	Vessel Head Nominal:	0.338 " Minimum	Job #:	BMH16040
LSD Location:	09-34-053-20w5m	Serial #:	S0700021	Shell Side MAWP:	250 PSI	Drawing #:	894
Sub-Facility:	East LPG Storage Bullet	CRN #:	L5670.51234	Shell Side MAWT:	125 F	Tag #:	-
District:	Galloway Gas Plant	Nat'l Board#:	S0700021	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:	894	-	05	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Left "South" Head			Baseline	0.379	0.380	0.374	0.373	0.368	0.367	August 16, 2016	.338 Min	0.367	0.380	0.374	NIL
Shape:	Hemispherical															
Side:	Shell Side			Current	0.379	0.380	0.374	0.373	0.368	0.367	August 16, 2016	.338 Min	0.367	0.380	0.374	NIL
OD:	109.346"															
Code:	ASME Sec. VIII, Div. 1			Comments:												
Material:	SA 612															



Inspector Reviewed

CML:	894	-	10	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Lower Shell			Baseline	0.611	0.610	0.611	0.609	0.610	0.607	August 16, 2016	0.589	0.607	0.611	0.610	NIL
Shape:	Cylindrical															
Side:	Shell Side			Current	0.611	0.610	0.611	0.609	0.610	0.607	August 16, 2016	0.589	0.607	0.611	0.610	NIL
OD:	109.346"															
Code:	ASME Sec. VIII, Div. 1			Comments:												
Material:	SA 612															



Inspector Reviewed

CML:	894	-	15	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Mid-Shell			Baseline	0.608	0.606	0.607	0.607	0.606	0.610	August 16, 2016	0.589	0.606	0.610	0.607	NIL
Shape:	Cylindrical															
Side:	Shell Side			Current	0.608	0.606	0.607	0.607	0.606	0.610	August 16, 2016	0.589	0.606	0.610	0.607	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 - 894
Inspector:	Bill Day	Regulatory #:	A0578666	Vessel Head Nominal:	0.338 " Minimum	Job #:	BMH16040
LSD Location:	09-34-053-20w5m	Serial #:	S0700021	Shell Side MAWP:	250 PSI	Drawing #:	894
Sub-Facility:	East LPG Storage Bullet	CRN #:	L5670.51234	Shell Side MAWT:	125 F	Tag #:	-
District:	Galloway Gas Plant	Nat'l Board#:	S0700021	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:	894	-	20	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle Elbow	Baseline		0.206	0.214	0.212	0.212	0.212	0.212	0.208	August 16, 2016	0.218	0.206	0.214	0.211	
Shape:	90 Elbow															
Side:	Shell Side	Current		0.206	0.214	0.212	0.212	0.212	0.212	0.208	August 16, 2016	0.218	0.206	0.214	0.211	
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:	894	-	25	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle Elbow	Baseline		0.204	0.208	0.213	0.210	0.211	0.211	0.208	August 16, 2016	0.218	0.204	0.213	0.209	
Shape:	90 Elbow															
Side:	Shell Side	Current		0.204	0.208	0.213	0.210	0.211	0.211	0.208	August 16, 2016	0.218	0.204	0.213	0.209	
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:	894	-	30	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle Elbow	Baseline		0.215	0.215	0.216	0.215	0.216	0.216	0.220	August 16, 2016	0.218	0.215	0.220	0.216	
Shape:	90 Elbow															
Side:	Shell Side	Current		0.215	0.215	0.216	0.215	0.216	0.216	0.220	August 16, 2016	0.218	0.215	0.220	0.216	
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															



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Static Data

Date:	August 16, 2016	Vessel Name:	LPG Storage Bullet	Vessel Shell Nominal:	0.589 "	Report #:	BMH16040 - 894
Inspector:	Bill Day	Regulatory #:	A0578666	Vessel Head Nominal:	0.338 " Minimum	Job #:	BMH16040
LSD Location:	09-34-053-20w5m	Serial #:	S0700021	Shell Side MAWP:	250 PSI	Drawing #:	894
Sub-Facility:	East LPG Storage Bullet	CRN #:	L5670.51234	Shell Side MAWT:	125 F	Tag #:	-
District:	Galloway Gas Plant	Nat'l Board#:	S0700021	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:	894	-	35	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle "Upper" Shell			Baseline	0.248	0.257	0.253	0.254	0.251	0.252	August 16, 2016	0.237	0.248	0.257	0.253	
Shape:	Cylindrical															
Side:	Shell Side			Current	0.248	0.257	0.253	0.254	0.251	0.252	August 16, 2016	0.237	0.248	0.257	0.253	
OD:	4.500"															
Code:	ASME B31.3			Comments:												
Material:	SA 106-B															



CML:	894	-	40	Reading	1	2	3	4	5	6	Date	Nominal	Minimum	Maximum	Average	CA
Type:	Bridle "Lower" Shell			Baseline	0.251	0.247	0.251	0.250	0.246	0.244	August 16, 2016	0.237	0.244	0.251	0.248	
Shape:	Cylindrical															
Side:	Shell Side			Current	0.251	0.247	0.251	0.250	0.246	0.244	August 16, 2016	0.237	0.244	0.251	0.248	
OD:	4.500"															
Code:	ASME B31.3			Comments:												
Material:	SA 106-B															