



Client: PENGROWTH ENERGY
Equipment: BUTANE STORAGE BULLET

Equipment ID: EAM 1893 Regulatory #: A0138937

Regulatory #: A0138937 Inspector: S.BECK Facility: RIGEL FIELD Service: SWEET

Location: 13-15-088-18W6M Reference DWG: A0138937 2018 02

S.BECK NOTE: VESSEL IS IDLE BUT NOT ISOLATED.

**TML Point** THICKNESS DATA Flag Tmin Term Date Date 05 Description: 4" 90° ELBOW Inspection Company: BIG ROCK Inspection Date: Feb-18 Minimum Thickness: 4.9 5.27 0.75 6.02 Average Thickness: 5.4 5.27 0.75 6.02

Comments: MINIMUM THICKNESS READING IS BELOW 12.5% MILL TOLERANCE.

TML Point

THICKNESS DATA

Flag

Tmin

Corrosion
Allowance
Nominal
Flag

Term

Term

Date
Date

Date

Description: 4" 90° ELBOW

Inspection Company: BIG ROCK
Inspection Date: Feb-18

 Minimum Thickness:
 4.8
 5.27
 0.75
 6.02

 Average Thickness:
 5.3
 5.27
 0.75
 6.02

Comments: MINIMUM THICKNESS READING IS BELOW 12.5% MILL TOLERANCE.

TML Point THICKNESS DATA Flag Tmin Corrosion Allowance Nominal Term Term Date Date

15

Description: TOP SHELL AT SOUTH END

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 24.1
Average Thickness: 24.3





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Location: 13-15-088-18W6M Reference DWG: A0138937 2018 02

TML Point THICKNESS DATA Flag Tmin Corrosion Allowance Nominal Term Term Date Date

20

Description: UPPER WEST SHELL AT SOUTH END

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 24.2
Average Thickness: 24.3

Comments: NOMINAL AND CORROSION ALLOWANCE NOT STATED. NO CORROSION NOTED.

TML Point

THICKNESS DATA

Flag

Tmin

Allowance

Nominal

Allowance

Nominal

Term

Term

Date

Date

25

Description: MIDDLE WEST SHELL AT SOUTH END

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 24.0
Average Thickness: 24.2

Comments: NOMINAL AND CORROSION ALLOWANCE NOT STATED. NO CORROSION NOTED.

TML Point THICKNESS DATA Flag Tmin Corrosion Allowance Nominal Short Long ST Flag LT Flag Date

30

Description: LOWER WEST SHELL AT SOUTH END

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 23.8
Average Thickness: 24.0





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Inspector: S.BECK

Facility: RIGEL FIELD Service: SWEET

Location: 13-15-088-18W6M Reference DWG: A0138937 2018 02

**THICKNESS DATA TML Point** Flag Tmin Date Data

35

Description: LOWER SOUTH HEAD

Inspection Company: BIG ROCK Inspection Date: Feb-18 Minimum Thickness: 14.8 Average Thickness: 15.5

Comments: NOMINAL AND CORROSION ALLOWANCE NOT STATED, NO CORROSION NOTED.

**TML Point** THICKNESS DATA Tmin Flag Date Date

40

Description: BOTTOM SHELL AT FAR SOUTH END (CAN #1)

Inspection Company: BIG ROCK Inspection Date: Feb-18 Minimum Thickness: 23.8 Average Thickness: 23.9

Comments: NOMINAL AND CORROSION ALLOWANCE NOT STATED. NO CORROSION NOTED.

**TML Point THICKNESS DATA** Flag Tmin Date

45

Description: BOTTOM SHELL AT MID SOUTH END (CAN #2)

Inspection Company: BIG ROCK Inspection Date: Feb-18 Minimum Thickness: 23.9 Average Thickness: 4.0





Facility: RIGEL FIELD

Client: **PENGROWTH ENERGY**Equipment: BUTANE STORAGE BULLE

Equipment ID: EAM 1893 Regulatory #: A0138937

Inspector: S.BECK

 BUTANE STORAGE BULLET
 Service: SWEET

 EAM 1893
 Location: 13-15-088-18W6M

 A0138937
 Reference DWG: A0138937 2018 02

TML Point THICKNESS DATA

Flag Tmin Corrosion Allowance Nominal Term Term Date Date

50

Description: BOTTOM SHELL SOUTH OF CENTER (CAN #3)

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 23.8
Average Thickness: 24.0

Comments: NOMINAL AND CORROSION ALLOWANCE NOT STATED. NO CORROSION NOTED.

TML Point THICKNESS DATA

Flag Tmin Corrosion Allowance Nominal Allowance Nominal Allowance Nominal Term Term Date Date

55

Description: BOTTOM SHELL AT CENTER VESSEL (CAN #4)

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 23.6
Average Thickness: 23.8

Comments: NOMINAL AND CORROSION ALLOWANCE NOT STATED. NO CORROSION NOTED.

TML Point

THICKNESS DATA

Flag

Tmin

Allowance

Nominal

Term

Term

Term

Date

Date

60

Description: BOTTOM SHELL NORTH OF CENTER (CAN #5)

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 23.7
Average Thickness: 23.8





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Equipment ID: EAM 1893
Regulatory #: A0138937
Inspector: S.BECK

Facility: RIGEL FIELD Service: SWEET

Location: 13-15-088-18W6M Reference DWG: A0138937 2018 02

TML Point

THICKNESS DATA

Flag

Tmin

Corrosion
Allowance
Nominal
Allowance
Nominal
Term
Term
Date
Date

65

Description: BOTTOM SHELL AT MID NORTH END (CAN #6)

Inspection Company: BIG ROCK
Inspection Date: Feb-18

Minimum Thickness: 23.7

Average Thickness: 23.0

Comments: NOMINAL AND CORROSION ALLOWANCE NOT STATED, NO CORROSION NOTED.

TML Point

THICKNESS DATA

Flag

Tmin

Allowance

Nominal

Allowance

Term

Term

Date

Date

70

Description: BOTTOM SHELL AT FAR NORTH END (CAN #7)

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 23.5
Average Thickness: 23.8

Comments: NOMINAL AND CORROSION ALLOWANCE NOT STATED, NO CORROSION NOTED.

TML Point

THICKNESS DATA

Flag

Tmin

Allowance

Nominal

Allowance

Nominal

Term

Term

Date

Date

75

Description: LOWER NORTH HEAD

Inspection Company: BIG ROCK
Inspection Date: Feb-18
Minimum Thickness: 15.8
Average Thickness: 16.5





Client: PENGROWTH ENERGY Equipment:

Inspection Date:

Minimum Thickness:

Average Thickness:

Minimum Thickness:

Average Thickness:

Feb-18

5.1

5.5

3.3

3.6

Equipment ID: EAM 1893 Re

Facility: RIGEL FIELD Service: SWEET **BUTANE STORAGE BULLET** Location: 13-15-088-18W6M

Regulatory : Inspector:					Reference	DWG:				
TML Poin	it	THICKNESS DATA	Flag	Tmin	Corrosion Allowance	Nominal	Short Term	Long Term	ST Flag Date	LT Flag Date
80										
	De	cription: 2" 90° ELBOW								
	Inspection C	mpany: BIG ROCK								
	Inspect	on Date: Feb-18								
	Minimum T Average T		4.85 4.85		0.69 0.69	5.54 5.54				
	Co	nments: MINIMUM THICKNESS READING IS BELOW 12.5% MILL TOLERANCE.								
TML Poin	nt	THICKNESS DATA	Flag	Tmin	Corrosion Allowance	Nominal	Short Term	Long Term	ST Flag Date	LT Flag Date
85										
	De	cription: 4" 90° ELBOW								
	Inspection C	mpany: BIG ROCK								

Comments: MINIMUM THICKNESS READING IS BELOW 12.5% MILL TOLERANCE.

TML Po	oint			THICKNESS DATA		Flag	Tmin	Corrosion Allowance	Nominal	Short Term	Long Term	ST Flag Date	LT Flag Date		
90															
	De	scription: 2	90° ELBOW												
	Inspection C	ompany: [	BIG ROCK												
	Inspect	ion Date:	Feb-18												

5.27

5.27

3.42

3.42

0.75

0.75

0.49

0.49

6.02

6.02

3.91

3.91

Comments: MINIMUM THICKNESS READING IS BELOW 12.5% MILL TOLERANCE.





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**BUTANE STORAGE BULLET** 

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Inspector: S.BECK

**TML Point** 

**TML Point** 

Facility: RIGEL FIELD

Service: SWEET

Location: 13-15-088-18W6M Reference DWG: A0138937 2018 02

Nominal

Flag

Flag

Tmin

Tmin

TML Point	THICKNESS DATA	Flag	Tmin	Corrosion Allowance	Nominal	Short Term	Long Term	ST Flag Date	LT Flag Date
95									
Description:	2" 90° ELBOW								
Inspection Company:	BIG ROCK								
Inspection Date:	Feb-18								
Minimum Thickness: Average Thickness:	<b>3.2</b> 3.7	3.42 3.42		0.49 0.49	3.91 3.91				
Comments:	MINIMUM THICKNESS READING IS BELOW 12.5% MILL TOLERANCE.								

THICKNESS DATA

THICKNESS DATA

Date

Date

Date