

CERTIFICATE OF CONFORMANCE
FOR
MATERIALS SHIPPED

Tulsa Gas Technologies, Inc. (TGT) hereby certifies that all materials in the manufacture of serial number 18041215 PEN DOT and/or manufacturing specifications indicated in drawings, bulletins or specifications as called for on the said purchase order. Test reports are on file with us or with our suppliers for examination and indicate conformance with applicable specification requirements. In production items listed, no direct contact was made with mercury, any of its compounds nor with any mercury containing devices employing a single boundary for containment. Tulsa Gas Technologies, Inc. also certifies that the parts listed and shipped on the date indicated are manufactured in accordance with Parker specifications and quality standards, if applicable, as stated on the drawings or specifications called for on said purchase order. All parts and test conform to AGA I-93.

SIGNED BY: C.R. Kendall

TITLE: ASSEMBLY

DATE: 6/6/2018

Tulsa Gas Technologies, Inc.
 4809 S. 101st. E. Ave.
 Tulsa, OK 74146
 918-665-2641

Disp. Serial # 18041215
 Customer Name PEN DOT
 Customer PO N/A
 Date Required 6/6/2018

ASSEMBLY/CERTIFICATION SHEET

	SIGN	DATE
1 <input checked="" type="checkbox"/> Review shop work order versus customer print and history	<u>CK</u>	<u>6/6/2018</u>
2 <input checked="" type="checkbox"/> Component part numbers: _____ Pack dates and/or QC codes <u>5206730642</u>	<u>CK</u>	<u>6/6/2018</u>
3 <input checked="" type="checkbox"/> ID band number <u>5CNG8/5CNG4-0606/0506-128/66-96"</u>	<u>CK</u>	<u>6/6/2018</u>
4 <input checked="" type="checkbox"/> Hose Cut Length <u>96"</u>	<u>CK</u>	<u>6/4/2018</u>
5 _____ Pre-expansion of hose (if required) Size _____ Remarks: _____		
6 <input checked="" type="checkbox"/> Audit and mark appropriate insertion depth	<u>CK</u>	<u>6/6/2018</u>
7 _____ Add special accessories _____ Remarks: _____		
8 <input checked="" type="checkbox"/> Apply danger tag and ID band	<u>CK</u>	<u>6/6/2018</u>
9 <input checked="" type="checkbox"/> Install bend restrictors Remarks: _____	<u>CK</u>	<u>6/6/2018</u>
10 <input checked="" type="checkbox"/> Assemble fittings; check insertion depth Remarks: _____	<u>CK</u>	<u>6/6/2018</u>
11 _____ Set offset angle and/or orientation Remarks: _____		
12 <input checked="" type="checkbox"/> Perform crimp or swage on product/crimp set die-using Parker Catalog 4660, page K58 _____ X _____ 1/2) 80C-PO8H _____ 3/8) 80C-PO6H _____ 1/4) 80C-PO4H _____ 1/8) 80C-PO2 _____ 3/8) 80C-PO6 _____ 3/4) 80C-P12H	<u>CK</u>	<u>6/6/2018</u>
13 _____ Add special accessories after crimping/swaging _____		
14 _____ Perform and record burst test results, if applicable Remarks: _____		
15 _____ Air test, if applicable Test pressure Psi _____ Seconds _____; Pass/Fail (Circle One) Remarks: _____		
16 <input checked="" type="checkbox"/> Hydrostatic proof test Test pressure Psi <u>10,000</u> Seconds <u>30</u> ; Pass/Fail (Circle One) Remarks: <u>Passed Pressure Test</u>	<u>CK</u>	<u>6/6/2018</u>
17 <input checked="" type="checkbox"/> Flush method water, and then air	<u>CK</u>	<u>6/6/2018</u>
18 <input checked="" type="checkbox"/> Perform and record conductivity test; Meter <u>Megger Mit200</u> Hose resistance <u>0</u> (-) Electrode resistance <u>0.03</u> 0.03	<u>CK</u>	<u>6/6/2018</u>
19 <input checked="" type="checkbox"/> Final audit: Check boxes for items inspected, as applicable: _____ X _____ Correct hose; _____ X _____ Correct fittings; _____ X _____ Correct customer PN Check swage or crimp diameters: _____ 5CNG-4-55 .580+-.05 _____ 5CNG-4-58 .785/.805 _____ X _____ 5CNG-8-58 .900/.920 _____ 5CNG-6-55 .675/.695 _____ 5CNG-12-58 1.20/1.22 *****100% VISUAL INSPECT FOR THE FOLLOWING***** _____ X _____ Hose fittings crimped; _____ X _____ Air passes through assembly; _____ X _____ Presence of threads	<u>CK</u>	<u>6/6/2018</u>
20 <input checked="" type="checkbox"/> Cap and package hose	<u>CK</u>	<u>6/6/2018</u>
21 <input checked="" type="checkbox"/> Certificate of Conformance for Materials Shipped (on back)	<u>CK</u>	<u>6/6/2018</u>

- 3 FITTING TYPE
01 NPT MALE
02 NPT FEMALE
03 JIC MALE
04 SAE 45 MALE
05 SAE O-RING STRAIGHT THREAD
06 JIC FEMALE SWIVEL
07 FEMALE PIPE SWIVEL

- 1 58 SERIES
HOSE SIZE
4 1/4"
6 3/8"
8 1/2"
10 5/8"
12 3/4"

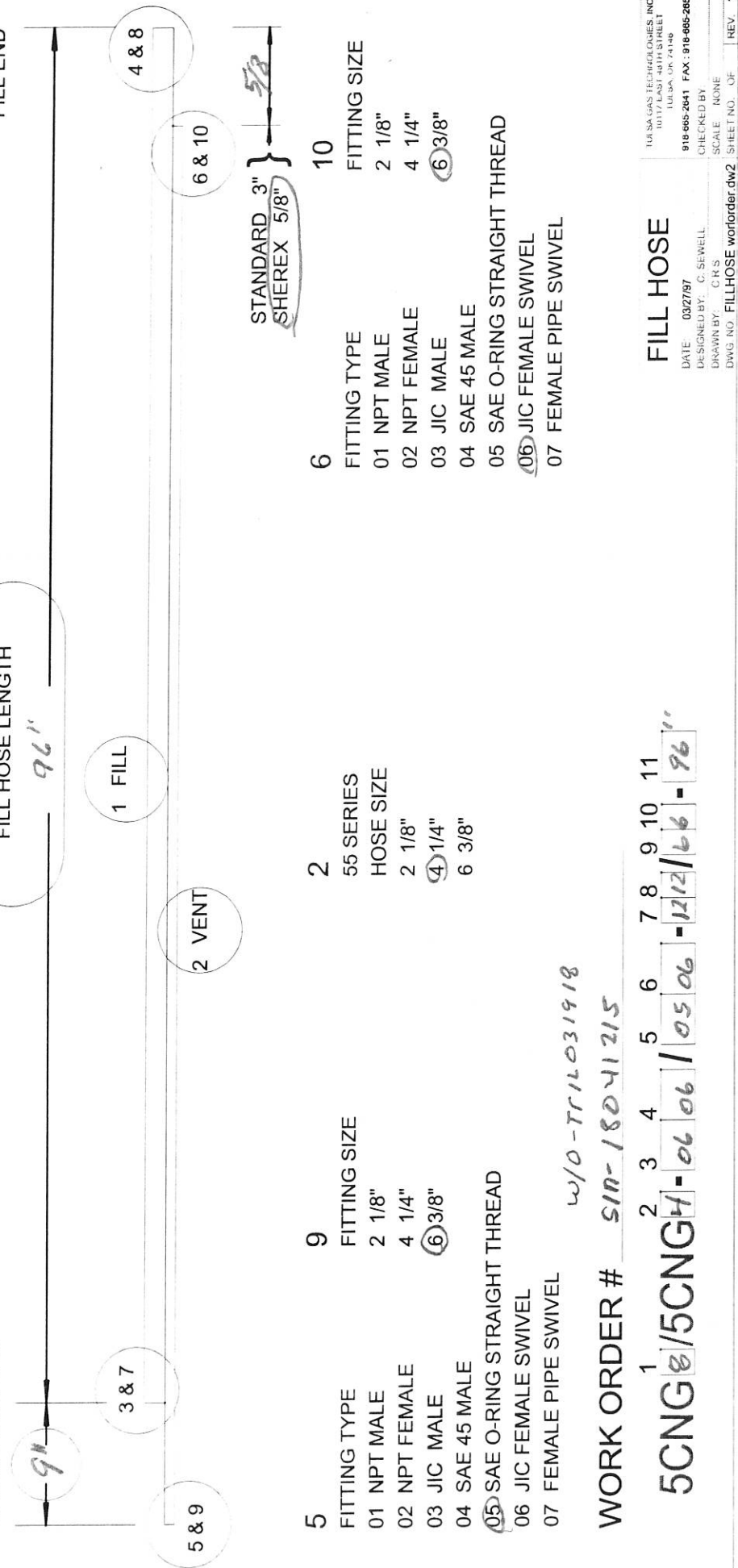
- 4 FITTING TYPE
01 NPT MALE
02 NPT FEMALE
03 JIC MALE
04 SAE 45 MALE
05 SAE O-RING STRAIGHT THREAD
06 JIC FEMALE SWIVEL
07 FEMALE PIPE SWIVEL

- 8 FITTING SIZE
4 1/4"
6 3/8"
8 1/2"
12 3/4"

BREAK-AWAY END

Cut 105"
11 FILL HOSE LENGTH
96"

FILL END



- 5 FITTING TYPE
01 NPT MALE
02 NPT FEMALE
03 JIC MALE
04 SAE 45 MALE
05 SAE O-RING STRAIGHT THREAD
06 JIC FEMALE SWIVEL
07 FEMALE PIPE SWIVEL

- 2 55 SERIES
HOSE SIZE
2 1/8"
4 1/4"
6 3/8"

- 6 FITTING TYPE
01 NPT MALE
02 NPT FEMALE
03 JIC MALE
04 SAE 45 MALE
05 SAE O-RING STRAIGHT THREAD
06 JIC FEMALE SWIVEL
07 FEMALE PIPE SWIVEL

- 10 FITTING SIZE
2 1/8"
4 1/4"
6 3/8"

w/o-TR12031918

WORK ORDER # 510-18041215

1 5CNGE/5CNGH-0606/0506-1212/66-96"

FILL HOSE

DATE: 03/27/97
DESIGNED BY: C. SEWELL
DRAWN BY: C.R.S.
CHECKED BY:
SCALE: NONE
DWG. NO.: FILLHOSE.wororder.dwg
SHEET NO.: OF
REV. 1

TUA GAS TECHNOLOGIES, INC.
10117 EAST 40TH STREET
TULSA, OK 74148
918-665-2041 FAX: 918-665-2057

CERTIFICATE OF CONFORMANCE
FOR
MATERIALS SHIPPED

Tulsa Gas Technologies, Inc. (TGT) hereby certifies that all materials in the manufacture of serial number 18041215 PEN DOT and/or manufacturing specifications indicated in drawings, bulletins or specifications as called for on the said purchase order. Test reports are on file with us or with our suppliers for examination and indicate conformance with applicable specification requirements. In production items listed, no direct contact was made with mercury, any of its compounds nor with any mercury containing devices employing a single boundary for containment. Tulsa Gas Technologies, Inc. also certifies that the parts listed and shipped on the date indicated are manufactured in accordance with Parker specifications and quality standards, if applicable, as stated on the drawings or specifications called for on said purchase order. All parts and test conform to AGA I-93.

SIGNED BY: *c.r. Hendall*

TITLE: ASSEMBLY

DATE: 6/6/2018

Tulsa Gas Technologies, Inc.
 4809 S. 101st. E. Ave.
 Tulsa, OK 74146
 918-665-2641

Disp. Serial # 18041215
 Customer Name PEN DOT
 Customer PO N/A
 Date Required 6/6/2018

ASSEMBLY/CERTIFICATION SHEET

	SIGN	DATE
1 <input checked="" type="checkbox"/> Review shop work order versus customer print and history	<u>CK</u>	<u>6/6/2018</u>
2 <input checked="" type="checkbox"/> Component part numbers: _____ Pack dates and/or QC codes <u>52067 30642</u>	<u>OK</u>	<u>6/6/2018</u>
3 <input checked="" type="checkbox"/> ID band number <u>5CNG8/5CNG4-0606/0506-128/66-36"</u>	<u>CK</u>	<u>6/6/2018</u>
4 <input checked="" type="checkbox"/> Hose Cut Length <u>36"</u>	<u>CK</u>	<u>6/4/2018</u>
5 _____ Pre-expansion of hose (if required) Size _____ Remarks: _____		
6 <input checked="" type="checkbox"/> Audit and mark appropriate insertion depth	<u>CK</u>	<u>6/6/2018</u>
7 _____ Add special accessories _____ Remarks: _____		
8 <input checked="" type="checkbox"/> Apply danger tag and ID band	<u>CK</u>	<u>6/6/2018</u>
9 <input checked="" type="checkbox"/> Install bend restrictors Remarks: _____	<u>CK</u>	<u>6/6/2018</u>
10 <input checked="" type="checkbox"/> Assemble fittings; check insertion depth Remarks: _____	<u>CK</u>	<u>6/6/2018</u>
11 _____ Set offset angle and/or orientation Remarks: _____	<u>CK</u>	
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13 _____ Add special accessories after crimping/swaging _____		
14 _____ Perform and record burst test results, if applicable Remarks: _____		
15 _____ Air test, if applicable Test pressure Psi _____ Seconds _____; Pass/Fail (Circle One) Remarks: _____		
16 <input checked="" type="checkbox"/> Hydrostatic proof test Test pressure Psi <u>10,000</u> Seconds <u>30</u> ; <u>Pass</u> Fail (Circle One) Remarks: <u>Passed Pressure Test</u>	<u>CK</u>	<u>6/6/2018</u>
17 <input checked="" type="checkbox"/> Flush method water, and then air	<u>CK</u>	<u>6/6/2018</u>
18 <input checked="" type="checkbox"/> Perform and record conductivity test; Meter <u>Megger Mit200</u> Hose resistance <u>0</u> (-) Electrode resistance <u>0.01</u> 0.01	<u>CK</u>	<u>6/6/2018</u>
19 <input checked="" type="checkbox"/> Final audit: Check boxes for items inspected, as applicable: _____ X _____ Correct hose; _____ X _____ Correct fittings; _____ X _____ Correct customer PN Check swage or crimp diameters: _____ 5CNG-4-55 .580+-.05 _____ 5CNG-4-58 .785/.805 _____ X _____ 5CNG-8-58 .900/.920 _____ 5CNG-6-55 .675/.695 _____ 5CNG-12-58 1.20/1.22 *****100% VISUAL INSPECT FOR THE FOLLOWING***** _____ X _____ Hose fittings crimped; _____ X _____ Air passes through assembly; _____ X _____ Presence of threads	<u>CK</u>	<u>6/6/2018</u>
20 <input checked="" type="checkbox"/> Cap and package hose	<u>CK</u>	<u>6/6/2018</u>
21 <input checked="" type="checkbox"/> Certificate of Conformance for Materials Shipped (on back)	<u>CK</u>	<u>6/6/2018</u>

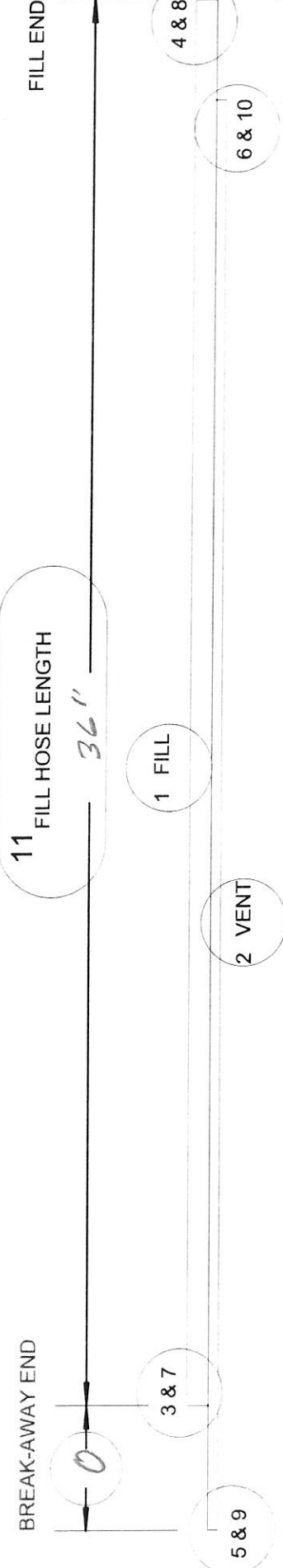
0101

- 3 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 1 58 SERIES
- HOSE SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 10 5/8"
- 12 3/4"

- 4 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 8 FITTING SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 12 3/4"



BREAK-AWAY END

11 FILL HOSE LENGTH 36"

FILL END

STANDARD 3" SHEREX 5/8"

- 7 FITTING SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 12 3/4"
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 2 55 SERIES
- HOSE SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

- 6 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 10 FITTING SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

w/o - TRIL 031918

WORK ORDER # 51N-18041215

1 2 3 4 5 6 7 8 9 10 11

5CNG 8/5CNG 4 - 06 06 / 05 06 - 1112 / 6 6 - 36"

FILL HOSE

DATE: 03/27/97
 DESIGNED BY: C. SEWELL
 DRAWN BY: C.R.S.
 DWG NO: FILLHOSE.worforder.dwg2 SHEET NO. OF 1 REV. 1

LULISA GAS TECHNOLOGIES, INC.
 10117 LAST 49TH STREET
 LULISA, OK 74146
 918-665-2641 FAX: 918-665-2657

CHECKED BY:
 SCALE: NONE

CERTIFICATE OF CONFORMANCE
FOR
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Tulsa Gas Technologies, Inc. (TGT) hereby certifies that all materials in the manufacture of serial number 18041215 PEN DOT and/or manufacturing specifications indicated in drawings, bulletins or specifications as called for on the said purchase order. Test reports are on file with us or with our suppliers for examination and indicate conformance with applicable specification requirements. In production items listed, no direct contact was made with mercury, any of its compounds nor with any mercury containing devices employing a single boundary for containment. Tulsa Gas Technologies, Inc. also certifies that the parts listed and shipped on the date indicated are manufactured in accordance with Parker specifications and quality standards, if applicable, as stated on the drawings or specifications called for on said purchase order. All parts and test conform to AGA I-93.

SIGNED BY: _____

TITLE: ASSEMBLY

DATE: 6/6/2018

Tulsa Gas Technologies, Inc.
 4809 S. 101st. E. Ave.
 Tulsa, OK 74146
 918-665-2641

Disp. Serial # 18041215
 Customer Name PEN DOT
 Customer PO N/A
 Date Required 6/6/2018

ASSEMBLY/CERTIFICATION SHEET

		SIGN	DATE
1	<input checked="" type="checkbox"/> Review shop work order versus customer print and history	<u>CK</u>	<u>6/6/2018</u>
2	<input checked="" type="checkbox"/> Component part numbers: _____ Pack dates and/or QC codes <u>5222715608</u>	<u>CK</u>	<u>6/6/2018</u>
3	<input checked="" type="checkbox"/> ID band number <u>5CNG12/5CNG6-0606/0506-1212/66-96"</u>	<u>CK</u>	<u>6/6/2018</u>
4	<input checked="" type="checkbox"/> Hose Cut Length <u>96"</u>	<u>CK</u>	<u>6/4/2018</u>
5	<input type="checkbox"/> Pre-expansion of hose (if required) Size _____ Remarks: _____		
6	<input checked="" type="checkbox"/> Audit and mark appropriate insertion depth	<u>CK</u>	<u>6/6/2018</u>
7	<input type="checkbox"/> Add special accessories _____ Remarks: _____		
8	<input checked="" type="checkbox"/> Apply danger tag and ID band	<u>CK</u>	<u>6/6/2018</u>
9	<input checked="" type="checkbox"/> Install bend restrictors Remarks: _____	<u>CK</u>	<u>6/6/2018</u>
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13	<input type="checkbox"/> Add special accessories after crimping/swaging _____		
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15	<input type="checkbox"/> Air test, if applicable Test pressure Psi _____ Seconds _____ ; Pass/Fail (Circle One) Remarks: _____		
16	<input checked="" type="checkbox"/> Hydrostatic proof test Test pressure Psi <u>10,000</u> Seconds <u>30</u> ; Pass /Fail (Circle One) Remarks: <u>Passed Pressure Test</u>	<u>CK</u>	<u>6/6/2018</u>
17	<input checked="" type="checkbox"/> Flush method water, and then air	<u>CK</u>	<u>6/6/2018</u>
18	<input checked="" type="checkbox"/> Perform and record conductivity test; Meter <u>Megger Mit200</u> Hose resistance <u>0</u> (-) Electrode resistance <u>0.03</u> <u>0.03</u>	<u>CK</u>	<u>6/6/2018</u>
19	<input checked="" type="checkbox"/> Final audit: Check boxes for items inspected, as applicable: <input checked="" type="checkbox"/> Correct hose; <input checked="" type="checkbox"/> Correct fittings; <input checked="" type="checkbox"/> Correct customer PN Check swage or crimp diameters: _____ 5CNG-4-55 .580+-.05 _____ 5CNG-4-58 .785/.805 _____ 5CNG-8-58 .900/.920 _____ 5CNG-6-55 .675/.695 <input checked="" type="checkbox"/> _____ 5CNG-12-58 1.20/1.22 *****100% VISUAL INSPECT FOR THE FOLLOWING***** <input checked="" type="checkbox"/> Hose fittings crimped; <input checked="" type="checkbox"/> Air passes through assembly; <input checked="" type="checkbox"/> Presence of threads	<u>CK</u>	<u>6/6/2018</u>
20	<input checked="" type="checkbox"/> Cap and package hose	<u>CK</u>	<u>6/6/2018</u>
21	<input checked="" type="checkbox"/> Certificate of Conformance for Materials Shipped (on back)	<u>CK</u>	<u>6/6/2018</u>

6.00

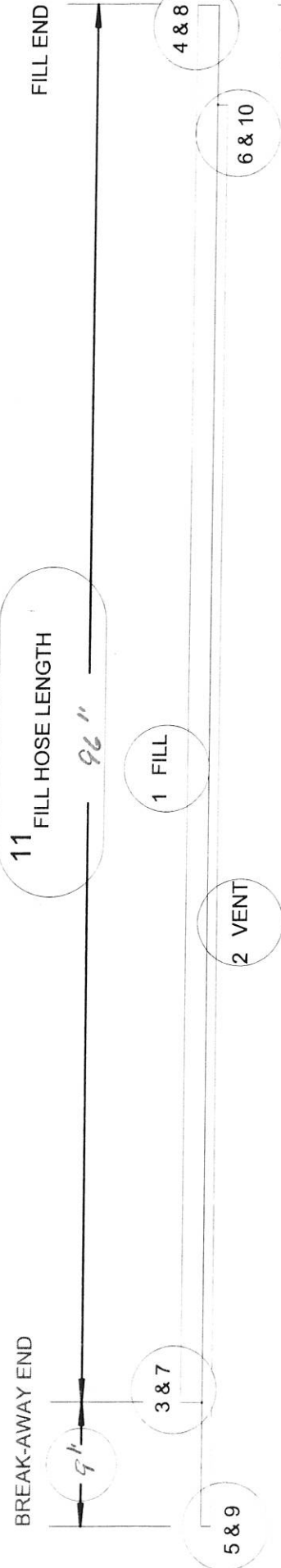
- 3 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 1 58 SERIES
- HOSE SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 10 5/8"
- 12 3/4"

- 4 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 8 FITTING SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 12 3/4"

cut 105"



- 5 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 2 55 SERIES
- HOSE SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

- 6 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 10 FITTING SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

STANDARD 3" SHEREX 5/8" 58"

w/o-Tril 031918

WORK ORDER # 510-18041215

5CNG 12/5CNG 6-0606/0506-1212/66-96"

FILL HOSE

DATE: 03/27/97
 DESIGNED BY: C. SEWELL
 DRAWN BY: C.R.S.
 CHECKED BY:
 SCALE: NONE
 SHEET NO. OF: 1

LULSA GAS TECHNOLOGIES, INC.
 10117 LAST AVE. ST. NEET
 TULSA, OK 74116
 918 665-2641 FAX: 918 665-2657

CERTIFICATE OF CONFORMANCE
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SIGNED BY: *C.R. Rendall*

TITLE: ASSEMBLY

DATE: 6/6/2018

Tulsa Gas Technologies, Inc.
 4809 S. 101st. E. Ave.
 Tulsa, OK 74146
 918-665-2641

Disp. Serial # 18041215
 Customer Name PEN DOT
 Customer PO N/A
 Date Required 6/6/2018

ASSEMBLY/CERTIFICATION SHEET

		SIGN	DATE
1	<input checked="" type="checkbox"/> Review shop work order versus customer print and history	<u>CK</u>	<u>6/6/2018</u>
2	<input checked="" type="checkbox"/> Component part numbers: _____ Pack dates and/or QC codes _____ <u>5222715605</u>	<u>CK</u>	<u>6/6/2018</u>
3	<input checked="" type="checkbox"/> ID band number _____ 5CNG12/5CNG6-0606/0506-1212/66-36"	<u>CK</u>	<u>6/6/2018</u>
4	<input checked="" type="checkbox"/> Hose Cut Length _____ 36"	<u>CK</u>	<u>6/4/2018</u>
5	Pre-expansion of hose (if required) Size _____ Remarks: _____		
6	<input checked="" type="checkbox"/> Audit and mark appropriate insertion depth	<u>CK</u>	<u>6/6/2018</u>
7	Add special accessories _____ Remarks: _____		
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9	<input checked="" type="checkbox"/> Install bend restrictors Remarks: _____	<u>CK</u>	<u>6/6/2018</u>
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18	<input checked="" type="checkbox"/> Perform and record conductivity test; Meter _____ Megger Mit200 Hose resistance _____ 0 _____ (-) Electrode resistance _____ 0.01 0.01	<u>CK</u>	<u>6/6/2018</u>
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0101

- 3 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 1 58 SERIES
- HOSE SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 10 5/8"
- 12 3/4"

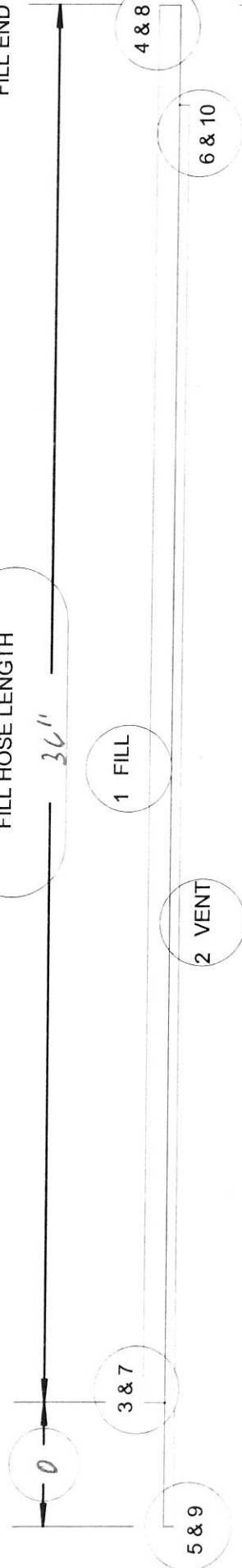
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- 01 NPT MALE
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- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 8 FITTING SIZE
- 4 1/4"
- 6 3/8"
- 8 1/2"
- 12 3/4"

BREAK-AWAY END

11 FILL HOSE LENGTH

FILL END



5 & 9

1 FILL

2 VENT

6 & 10

4 & 8

- 5 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 2 55 SERIES
- HOSE SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

- 6 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- 06 JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

- 10 FITTING SIZE
- 2 1/8"
- 4 1/4"
- 6 3/8"

STANDARD 3" SHEREX 5/8"

w/o TRIL 031918

WORK ORDER # 511-18041215

5CNG12/5CNG6-0606/0506-1212/66-361

FILL HOSE

DATE 03/27/97
 DESIGNED BY C. SEWELL
 DRAWN BY C.R.S.
 CHECKED BY
 SCALE NONE
 SHEET NO. OF 1

HILTI GAS TECHNOLOGIES, INC.
 10317 EAST ARMIT STREET
 TULSA, OK 74146
 918-665-2641 FAX: 918-665-2657