CERTIFICATE OF CONFORMANCE

FOR

MATERIALS SHIPPED

Tulsa Gas Technologies, Inc. (TGT) hereby certifies that all materials in the manufacture of hoses on TGT Work Order Number TRIL071416Areceived by us from TRILLIUM TRANSP.conform to the material 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: 12/9/2016

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

Work Order #	*TRIL071416A*
Customer Name	*TRILLIUM TRANSP.*
Customer PO	*4500002354*
Date Required	*12/9/2016*

ASSEMBLY/CERTIFICATION SHEET

		SIGN	DATE
1 X	Review shop work order versus customer print and history	CK	12/9/2016
2 X	Component part numbers:		
	Pack dates and/or QC codes [redacted]06 5209434306	CK	12/9/2016
3 X	ID band number 5CNG12/5CNG6-0606/0506-1212/66-96"	CK	12/9/2016
4 X	Hose Cut Length 96"	CK	12/9/2016
5 ___	Pre-expansion of hose (if required) Size		
	Remarks:		
6 X	Audit and mark appropriate insertion depth	CK	12/9/2016
7 ___	Add special accessories		
	Remarks:		
8 X	Apply danger tag and ID band	CK	12/9/2016
9 X	Install bend restrictors		
	Remarks:	CK	12/9/2016
10 X	Assemble fittings; check insertion depth		
	Remarks:	CK	12/9/2016
11 ___	Set offset angle and/or orientation		
	Remarks:		
12 X	Perform crimp or swage on product/crimp set die-using Parker Catalog 4660, page K58		
	___ 1/2) 80C-PO8H ___ 3/8) 80C-PO6H		
	___ 1/4) 80C-PO4H ___ 1/8) 80C-PO2		
	___ 3/8) 80C-PO6 X 3/4) 80C-P12H	CK	12/9/2016
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 X	Hydrostatic proof test		
	Test pressure Psi 10,000 Seconds 30 ; (Pass)/Fail (Circle One)		
	Remarks: Passed Pressure Test	CK	12/9/2016
17 X	Flush method water, and then air	CK	12/9/2016
18 X	Perform and record conductivity test; Meter Megger Mit200		
	Hose resistance 0 (-) Electrode resistance 0.04		
	(=) Final hose resistance 0.04	CK	12/9/2016
19 X	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-4-58 .668/.688		
	___ 5CNG-4-58 .785/.805 ___ 5CNG-8-58 .900/.920	CK	12/9/2016
	___ 5CNG-6-55 .675/.695 X 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	CK	12/9/2016
20 X	Cap and package hose	CK	12/9/2016
21 X	Certificate of Conformance for Materials Shipped (on back)	CK	12/9/2016

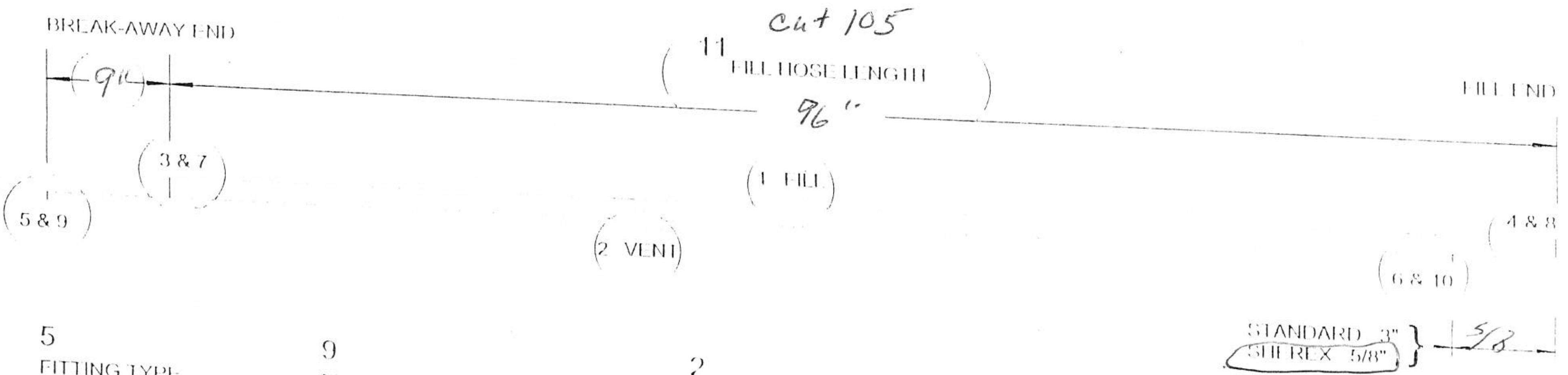
3 FITTING TYPE
- 01 NPT MALE
- 02 NPT FEMALE
- 03 JIC MALE
- 04 SAE 45 MALE
- 05 SAE O-RING STRAIGHT THREAD
- (06) JIC FEMALE SWIVEL
- 07 FEMALE PIPE SWIVEL

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

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"



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

9 FITTING SIZE
- 2 1/8"
- 4 1/4"
- (6) 3/8"

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"

WORK ORDER # TRIL071416A

5CNG 12 /5CNG 6 - 06 06 / 05 06 - 12 12 / 6 6 / 96"

(positions: 1 = 12, 2 = 6, 3 = 06, 4 = 06, 5 = 05, 6 = 06, 7 = 12, 8 = 12, 9 = 6, 10 = 6, 11 = 96")

FILL HOSE

DATE 03/27/07
DESIGNED BY C. SEWELL
DRAWN BY C.R.S.
DWG NO. FILLHOSE workorder.dwg
CHECKED BY
SCALE NONE