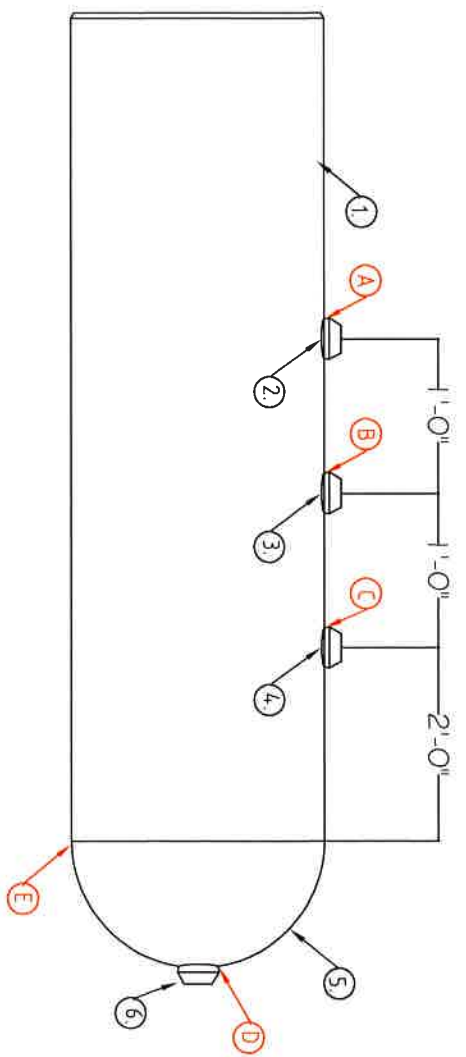


MATERIAL	HEAT
1. 10" PIPE	GW0119
2. 1" TOL	50313
3. 2" TOL	50171
4. 2" TOL	50117
5. 10" CAP	933940/QT
6. 2" TOL FLAT 6M	1BUAN

XRAY
A MT-25
B MT-24
C MT-23
D MT-37
E XR-22

SN# 10TESTOS



PIPE OD : 10.75"
 PIPE WALL THICKNESS: 0.375"
 PIPE GRADE: X-42
 MAX HYDRO. PRESSURE: 2225 psi

THIS DRAWING CANNOT BE REPRODUCED WITHOUT THE PRIOR WRITTEN
 CONSENT OF RIDGE RUNNER PIPELINE SERVICES LLC,
 51 SCOTTS RUN ROAD MAIDSVILLE WV 26541

DATE	BY	SCALE	TITLE
11/27/16	BUB	AS-BUILT DATA	10" WELD ON TEST HEADER



2669 MARTIN LUTHER KING
BLVD
YOUNGSTOWN, OH 44510

VALLOUREC STAR, LP
Seamless Tubular Products

Certified Test Report
02/08/2017

CUSTOMER: MCJUNKIN RED MAN CORPORATION
SILV: GW0119 **GRADE:** API 5L X42/8 PSL 2 45th Ed., July 1, 2013
OD: 10.750 **WALL:** 0.365 **LBS/FT:** 40.52 **DESC:** SEAMLESS HOT ROLLED
COMMENT: Melted and Manufactured in Ypsch, OH USA **PEB** **DRL** **LP**
This pipe is also manufactured to: ASTM A106B/C-15; ASTM A53B-12; ASME SA106B/C-2015; ASME SA53B-2015; V&M Star's QA program meets the requirements of DIN EN 10204-2004 Type 3.1.
Subsets NACE MR0175/ISO15156:2015 and ANSI/NACE MR0103/ISO17945:2015 **LOT NUMBER:**
No repair welding has been conducted. Material is free from Mercury.

MECHANICAL PROPERTIES		ORIENTATION: LONGITUDINAL		TYPE: STRIP					
TENSILE SIZE		SPECIMEN CROSS SECTION		STRENGTH KSI		ELONGATION		SUPPLEMENTAL REQUIREMENT	
IT-POS	WIDTH(IN)	THICK(IN)	AREA(SQIN)	YIELD	TENSILE	Y/T RATIO	GAGE LENGTH	% ELONG	HARDNESS:
1)	1.509	0.369	0.5588	50.3	75.6	0.66	2	41.0	79 HRBW AVG
2)									PASSED
3)									MR0175 / ISO15156-2
4)									OTHER:
5)									MIN:
									AS QUENCHED:

MAX INTERNAL YIELD (psi): 2971
INSPECTION:
HYDROSTATIC TEST (psi): 2500 for a 5 second minimum

Q/T: AF: 0 AT: 0 TF: 0 TT: 0
DRIFT PLUG SIZE:

CHEMICAL ANALYSIS: 61M Electromagnetic Inspected. Reference Standard was a test joint with 10% OD Longitudinal and Transverse notches.

WT%	C	Mn	P	S	Si	CU	Ni	Cr	Mo	Sn	Nb	V	Al	Ca	B	TI	N	CE
HEAT	0.21	0.69	0.008	0.005	0.21	0.20	0.07	0.08	0.02	0.011	0.000	0.002	0.029	0.0018	0.0002	0.002	0.0091	0.37
PRODUCT 1)	0.21	0.69	0.008	0.005	0.21	0.19	0.07	0.08	0.02	0.010	0.000	0.002	0.031	0.0017	0.0001	0.002	0.0074	0.36
PRODUCT 2)	0.20	0.69	0.008	0.006	0.21	0.19	0.07	0.08	0.02	0.010	0.000	0.002	0.030	0.0014	0.0002	0.002	0.0073	0.35
PRODUCT 3)																		
PRODUCT 4)																		

CHARPY IMPACT TESTING		FTLBS		SHEAR		This material has been produced and tested in accordance with the requirements of applicable specifications unless otherwise listed below. We hereby certify that the above test results are representative of those contained in the records of the company. Any modification to this certification as provided by Vallourec Star, without the expressed written consent of Vallourec Star negates the validity of the test report. Vallourec Star is not responsible for the inability of the material to meet specific applications.									
DIRECTION	TRANS	TEST #	MIN	ACTUAL	MIN	ACTUAL	SIGNED:	DATE APPROVED:	NAME:	TITLE:	Q/T:	AF:	AT:	TF:	TT:
SIZE 3/4		1	11	34	NR	35									
NOTCH V		2	11	35	NR	35									
		3	11	36	NR	35									
TEMP (Deg-F) LOCATION		AVG	15	35	NR	35									
1 32		1													
2		2													
3		3													
		AVG													
		1													
		2													
		3													
		AVG													

NM - Not Measured
NR - Not Required



AMWIL
INTERNATIONAL
Building Connections That Last

Certificate of Test

ITEM INFORMATION

Part Number: 0766260483 Description: 36-3X1 3000# THD UNIV ANVILET
 Heat Code: 50313 Heat Number: 50313
 Reference No.:
 Part Specification: ASTM A105/A105M-14/ASME SA105-14 NACE MR 0103/MR 0175/ISO15156-2

CHEMICAL ANALYSIS %

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb/Nb	Al	Co	CE
0.200	1.000	0.006	0.023	0.240	0.080	0.030	0.060	0.006	0.003	0.0140	0.036	0.002	0.388

CE (LONG FORMULA) = 0.388

PHYSICAL PROPERTIES

Yield PSI	Yield MPA	Tensile PSI	Tensile MPA	Elongation	REDUCTION OF AREA %	HARDNESS 1 BHM/HRC	HARDNESS 2 BHM/HRC
48588	334	73705	507	35.30	55.02	135	135

SUPPLEMENTAL INFORMATION

THE ORIGINAL MANUFACTURER'S CERTIFICATION MEETS THE REQUIREMENTS OF EN 10204 TYPE 3.1. WE CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF THE MILL CERTIFICATE. ISSUED BY THE MANUFACTURER OF THE STEEL EMPLOYED OR THE LABORATORY WHICH HAS DETERMINED IT, AS RETAINED IN THE RECORDS OF THE COMPANY. WE MAKE NO REPRESENTATION BEYOND THOSE OF THE MANUFACTURER OR ITS AGENT.



Certificate of Test

ITEM INFORMATION

Part Number: 0766260608 **Description:** 36-8X2 3000# THD UNIV ANVILET
Heat Code: 50171 **Heat Number:** 50171
Reference No.: **Part Specification:** ASTM A105/A105M-14/ASME SA105-14 NACE MR 0103/MR 0175/ISO15156-2

CHEMICAL ANALYSIS %													
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Ca/ND	Al	Co	CE
0.210	1.000	0.007	0.022	0.250	0.060	0.020	0.030	0.004	0.003	0.0140	0.026	0.003	0.389

CE (LONG FORMULA) = 0.389

PHYSICAL PROPERTIES							
Yield PSI	Yield MPA	Tensile PSI	Tensile MPA	Elongation	REDUCTION OF AREA %	HARDNESS 1 BHN/HRC	HARDNESS 2 BHN/HRC
50276	346	74929	516	32.65	61.09	144	141

SUPPLEMENTAL INFORMATION

THE ORIGINAL MANUFACTURER'S CERTIFICATION MEETS THE REQUIREMENTS OF EN 10204 TYPE 3.1. WE CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF THE MILL CERTIFICATE ISSUED BY THE MANUFACTURER OF THE STEEL EMPLOYED OR THE LABORATORY WHICH HAS DETERMINED IT, AS RETAINED IN THE RECORDS OF THE COMPANY. WE MAKE NO REPRESENTATION BEYOND THOSE OF THE MANUFACTURER OR ITS AGENT.

Cancel Logout

THIS DOCUMENT HAS BEEN ELECTRONICALLY SUBMITTED.

1. CERTIFYING ASTM A105-14 / ASME SA105-15 EDITION.
2. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MR0175/ISO 15156-2.
3. THE MATERIAL SUPPLIED WAS INSPECTED AND MANUFACTURED IN ACCORDANCE WITH EN DIN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT.
4. THE ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

Click here for Original Steel Mill Certification

BRINELL HARDNESS 144, 141									
T/S(P/SI) 79857 Y/S(P/SI) 52967 EL(%) 36.950 RA(%) 59.090									
CE(LONG FORMULA) = 0.392									
V	0.003	AL	0.023	Nb	0.014				
NI	0.020	CR	0.040	MO	0.004	CU	0.050	CO	0.003
C	0.210	MN	1.010	P	0.008	S	0.016	SI	0.240

6 X 2" STD A105 Weldolet™ Socket-weld
 CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS

LOT NO. 50117
 MRC 2/6/2018

CERTIFIED MILL TEST REPORT

Bonney Forge
 14496 Croghan Pike
 Mt. Union, PA 17066

MILL TEST REPORTS





Via Roma 150, 29027 Podenzano (PC), Italy
 mail: info@teclubracordi.com
 Tel: ++39 0523555111
 Fax: ++39 0523555318

INSPECTION CERTIFICATE EN 10204 - 2004 3.1 3.2

NUMBER 108570 -3
 REVISION 3
 DATE 07/02/2017

CLIENT:
 ALLIED FITTING L.P.

ORDER:

JOB:

CLIENT ITEM	ITEM	QTY	DESCRIPTION	HEAT CODE	SPECIFICATION	MATERIAL	STEEL MAKER	CERT.N.	RAW MATERIAL
214	214	25	CAP BW 10" SCH. STD - SMLS	933940 - QT	ASTM A.860/A.860M-13 MSS SP-75 Edition 2008	WPHY65	VOESTALPINE	Q0389115	PLATE

CHEMICAL COMPOSITION

HEAT	Test	C	Mn	Si	P	S	Cr	Ni	TI	Cu	V	Nb	Mo	Al	V+NB	Ce	B
	min.	0.20	1.45	0.40	0.03	0.01	0.30	0.50	0.05	0.35	0.10	0.04	0.25	0.06	0.12	0.42	0.001
	max.	0.077	1.390	0.380	0.001	0.001	0.033	0.270	0.001	0.161	0.051	0.016	0.008	0.038	0.067	0.356	0.0002
933940 - QT	CHECK*	0.079	1.350	0.350	0.006	0.001	0.032	0.280	0.001	0.166	0.054	0.017	0.009	0.039	0.071	0.353	0.0002

The chemical values and tensile properties are a true and correct copy of the certificate issued by the supplier of raw materials or by the laboratory which has determined them.

MECHANICAL PROPERTIES

Tensile Test	Temp. °C:	+20			Impact Test			Temp. °C: -46			Hardness	Red Area %	REMARKS
		Y.S. MPA	U.T.S. MPA	E% Elong	Senso Direct.	Dim. Sample	KCV (Joules)	Shear Area %	Lat.Exp. mm	HB			
	min.	450	530	20		min.	34		min.	0.64	min.		
	max.	555	705			average	40		max.	235	max.		
247877**		495	806	28	T	10X10	495-606-28				190÷200		

ON RAW MATERIAL *

ON FINISHED FITTINGS **

SUPPLEMENTARY REQ. ***

ACTIVITIES	RESULT	ACTIVITIES	RESULT
CERTIFICATE		CERTIFICATE	
ACTIVITIES		ACTIVITIES	
CERTIFICATE		CERTIFICATE	

REMARKS
 Melting process: Electric Furnace
 Manufacturing method: Hot Formed (780°C + 980°C)
 Heat treatment: Quenching at 920°C (1H/1" WTH) water cooling
 Tempering at 680°C (1H/1" WTH) still air cooling
 Visual and dimensional examination in accordance with:
 ASME B16.9 - Ed. 2012
 ASME B16.25 - Ed. 2012
 Material according to:
 NACE MR 01.75 - ISO 15156 Ed. 2009
 UT EXAMINATION PERFORMED WITH SATISFACTORY RESULT

Work inspector



DATE SIGNATURE

Customer Inspector

DATE SIGNATURE

Third part Inspector

DATE SIGNATURE

We hereby certify that the materials listed below have been manufactured in compliance with the order and mentioned rules

EU DIRECTIVE 97/23/EC ANNEXE I SECT. 4.3 & 7.5



1341 Hill Rd.
Houston, Tx 77039
(281) 590-0100
Fax: (281) 590-1415
E-Mail: woi@woihouston.com

ISO 9001:2008
Certified

SOLD TO: MRC N SALT LAKE-UT

CUSTOMER'S ORDER NO.: C1078894036B1

WOI S/O #: C000085286

WE CERTIFY THAT THE MATERIAL FURNISHED ON THIS ORDER COMPLIES IN ALL RESPECTS WITH THE SPECIFICATIONS AS STATED AND THAT THIS CORRECT INFORMATION IS AS CONTAINED IN OUR RECORDS. WOI PRODUCTS ARE MANUFACTURED IN THE UNITED STATES OF AMERICA

MATERIAL TEST REPORT

LN	ITEM	QUANTITY	DESCRIPTION	HEAT CODE
1	2SWB9M1053	2	36 - 8 X 2 9M SW BRANCHETTE A105 IAW MSS SP-97	1BUAN

CHEMICAL COMPOSITIONS

LADLE

C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V
.28	.86	.011	.020	.26	.07	.10	.03	.16	.002

PRODUCT

MECHANICAL COMPOSITION

	TENSILE PSI	YIELD PSI	ELONG %	RA %	BHN	BHN
MILL						
PRODUCT	80200	49400	28.2	61.5	143	143

COMMENTS

CE: .465
EN 10204 3.1
IAW ASTM A105-15 / ASME SA105-15
HEAT TREATMENT
NORMALIZED

BY 
QUALITY ASSURANCE CONTROL
DEPARTMENT

DATE: 06/11/2018



THIS PRODUCT HAS NOT COME IN DIRECT CONTACT WITH MERCURY OR ANY OF IT'S COMPOUNDS, NOR WITH ANY MERCURY CONTAINING DEVICE EMPLOYING A SINGLE BOUNDARY OF CONTAINMENT. THERE HAS BEEN NO REPAIR BY WELDING ON THIS MATERIAL.

Waggoner & Associates

Daily Radiographic Log

P.O. Box 307 West Monroe, La 71294
 Phone: 1-800-894-3230 Fax: 318-324-8816
 Email: waggonerndt@waggonerndt.com

PAGE 1 OF 2
 REPORT # 1
 RIG # 9537

TERMS AND ABBREVIATION

I.P. -Inadequate Penetration P. -Porosity
 I.F. -Incomplete Fusion H.B. -Hollow Bead
 B.T. -Burn Through C.R. -Crack
 B.T.A. - Burn Through Areas I.U. -Internal Undercut
 S.I. -Slag Inclusions O.U. -Outside Undercut
 S.L. -Slag Line(s) I.C. -Internal Concavity

JOB DESCRIPTION Test headers

JOB, WO, AFE #, PO # ETC. PO-2018 1775

CUSTOMER NAME Ridge runner
 BILLING ADDRESS 51 Scott's Run rd.
 CITY Maidsville STATE WV ZIP 26541
 ATTN: _____

DAY Mon DATE 11/19/18
 LOCATION Maidsville
 STATE West Virginia

LOCATIONS

R.S. -RIGHT OF WAY Side B. -Bottom
 D.S. -Ditch Side T.Q. -Top Quarter
 T. -Top B.Q. -Bottom Quarter

X-RAY NO.	WITHIN CODE	PIPE SIZE	FILM SIZE	INSP. TYPE	NO. EXP.	WALL THICK.	GAMMA/X-RAY	REMARKS
1. Xr-1	YES	6.625 in	70 mm	RT	3	0.280 in	GAMMA	
2. Xr-2	YES	6.625 in	70 mm	RT	3	0.280 in	GAMMA	
3. Xr-3	YES	6.625 in	70 mm	RT	3	0.280 in	GAMMA	
4. Xr-4	YES	6.625 in	70 mm	RT	3	0.280 in	GAMMA	
5. Xr-5	YES	4.5 in	70 mm	RT	3	0.237 in	GAMMA	
6. Xr-6	YES	4.5 in	70 mm	RT	3	0.237 in	GAMMA	
7. Xr-7	YES	4.5 in	70 mm	RT	3	0.237 in	GAMMA	
8. Xr-8	YES	4.5 in	70 mm	RT	3	0.237 in	GAMMA	
9. Xr-9	YES	4.5 in	70 mm	RT	3	0.237 in	GAMMA	
10. Xr-10	NO	4.5 in	70 mm	RT	3	0.237 in	GAMMA	Porosity 2-0 view
11. Xr-11	YES	4.5 in	70 mm	RT	3	0.237 in	GAMMA	
12. Xr-12	YES	4.5 in	70 mm	RT	3	0.237 in	GAMMA	
13. Xr-13	YES	2.375 in	70 mm	RT	4	0.218 in	GAMMA	
14. Xr-14	YES	2.375 in	70 mm	RT	4	0.218 in	GAMMA	
15. Xr-15	YES	2.375 in	70 mm	RT	4	0.218 in	GAMMA	
16. Xr-16	YES	2.375 in	70 mm	RT	4	0.218 in	GAMMA	
17. Xr-17	YES	2.375 in	70 mm	RT	4	0.218 in	GAMMA	
18. Xr-18	YES	2.375 in	70 mm	RT	4	0.218 in	GAMMA	
19. Xr-19	YES	2.375 in	70 mm	RT	4	0.218 in	GAMMA	
20. Xr-20	NO	2.375 in	70 mm	RT	4	0.218 in	GAMMA	Porosity 0-A view
21. XR-21	YES	8.625 in	70 mm	RT	3	0.322 in	GAMMA	
22. XR-22	YES	10.75 in	70 mm	RT	3	0.375 in	GAMMA	
23. XR-23	YES	10.75 in	70 mm	RT	3	0.375 in	GAMMA	
24. XR-24	YES	20 in	70 mm	RT	3	0.500 in	GAMMA	
25. XR-25	YES	20 in	70 mm	RT	3	0.500 in	GAMMA	
26. XR-26	YES	24 in	70 mm	RT	3	0.500 in	GAMMA	
27. XR-27	YES	24 in	70 mm	RT	3	0.500 in	GAMMA	
28. XR-28	YES	24 in	70 mm	RT	3	0.500 in	GAMMA	
29. XR-29	YES	24 in	70 mm	RT	3	0.500 in	GAMMA	
30.								
31. MT-1	YES	1 in	N/a	MT				
32. MT-2	YES	2 in	N/a	MT				
33. MT-3	YES	2 in	N/a	MT				
34. MT-4	YES	2 in	N/a	MT				
35. MT-5	YES	2 in	N/a	MT				
36. MT-6	YES	1 in	N/a	MT				
37. MT-7	YES	4 in	N/a	MT				
38. MT-8	YES	4 in	N/a	MT				
39. MT-9	YES	2 in	N/a	MT				
40. MT-10	YES	2 in	N/a	MT				

X Todd Matiyasic
 NAME: Todd Matiyasic
 BADGE #: 3487
 TECHNICIAN LEVEL: Level II
 ASST NAME: Brian Luketich
 ASST NAME: _____
 ASST NAME: _____

PIPELINE STATION
 JOB COMPLETE Yes
 DISPOSITION OF FILM Turned In
 GRADED ACCORDING TO API 1104
 PROCEDURES TURNED IN Yes
 TECH. CERTIFICATION TURNED IN Yes
 RT Yes MT Yes UT _____ PT _____

ATV No 2971 ATV# 2971 Crawler No 4 # Mag Cans 4
 Pulling Mach No B. Hardness No WT Trailer No
 UNIT SIZE 2
 UNITS REMAINING OVERNIGHT: Yes
 FROM Office TO Job
 MILEAGE DESCRIPTION Round Trip
 MILEAGE 211
 TOTAL HRS UTILIZED 10

REFERENCE # _____

Brandon bever
 PRINT NAME (APPROVED BY)

X [Signature]
 SIGNATURE (APPROVED BY)

11/19/18
 DATE

Test headers

Date: 11/19/18

Report: 1

Job: PO-2018 1775

X-RAY NO.	WITHIN CODE	PIPE SIZE	FILM SIZE	INSP. TYPE	NO. EXP.	WALL THICK.	GAMMA/ X-RAY	REMARKS
41.	MT-11	YES	4 in	N/a	MT			in
42.	MT-12	YES	4 in	N/a	MT			in
43.	MT-13	YES	2 in	N/a	MT			in
44.	MT-14	YES	2 in	N/a	MT			in
45.	MT-15	YES	4 in	N/a	MT			in
46.	MT-16	YES	2 in	N/a	MT			in
47.	MT-17	YES	2 in	N/a	MT			in
48.	MT-18	YES	2 in	N/a	MT			in
49.	MT-19	YES	2 in	N/a	MT			in
50.	MT-20	YES	2 in	N/a	MT			in
51.	MT-21	YES	4 in	N/a	MT			in
52.	MT-22	YES	4 in	N/a	MT			in
53.	MT-23	YES	2 in	N/a	MT			in
54.	MT-24	YES	2 in	N/a	MT			in
55.	MT-25	YES	1 in	N/a	MT			in
56.	MT-26	YES	1 in	N/a	MT			in
57.	MT-27	YES	2 in	N/a	MT			in
58.	MT-28	YES	2 in	N/a	MT			in
59.	MT-29	YES	2 in	N/a	MT			in
60.	MT-30	YES	2 in	N/a	MT			in
61.	MT-31	YES	1 in	N/a	MT			in
62.	MT-32	YES	2 in	N/a	MT			in
63.	MT-33	YES	2 in	N/a	MT			in
64.	MT-34	YES	2 in	N/a	MT			in
65.	MT-35	YES	2 in	N/a	MT			in
66.	MT-36	YES	1 in	N/a	MT			in
67.	MT-37	YES	2 in	N/a	MT			in
68.	MT-38	YES	2 in	N/a	MT			in
69.	MT-39	YES	2 in	N/a	MT			in
70.	MT-40	YES	2 in	N/a	MT			in
71.	MT-41	YES	1 in	N/a	MT			in
72.	MT-42	YES	1 in	N/a	MT			in
73.	MT-43	YES	2 in	N/a	MT			in
74.	MT-44	YES	2 in	N/a	MT			in
75.	MT-45	YES	2 in	N/a	MT			in
76.	MT-46	YES	2 in	N/a	MT			in
77.			in					in
78.			in					in
79.			in					in
80.			in					in
81.			in					in
82.			in					in
83.			in					in
84.			in					in
85.			in					in
86.			in					in
87.			in					in
88.			in					in
89.			in					in
90.			in					in
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92.			in					in
93.			in					in
94.			in					in
95.			in					in
96.			in					in
97.			in					in
98.			in					in
99.			in					in
100.			in					in
101.			in					in
102.			in					in
103.			in					in
104.			in					in
105.			in					in

REFERENCE # _____