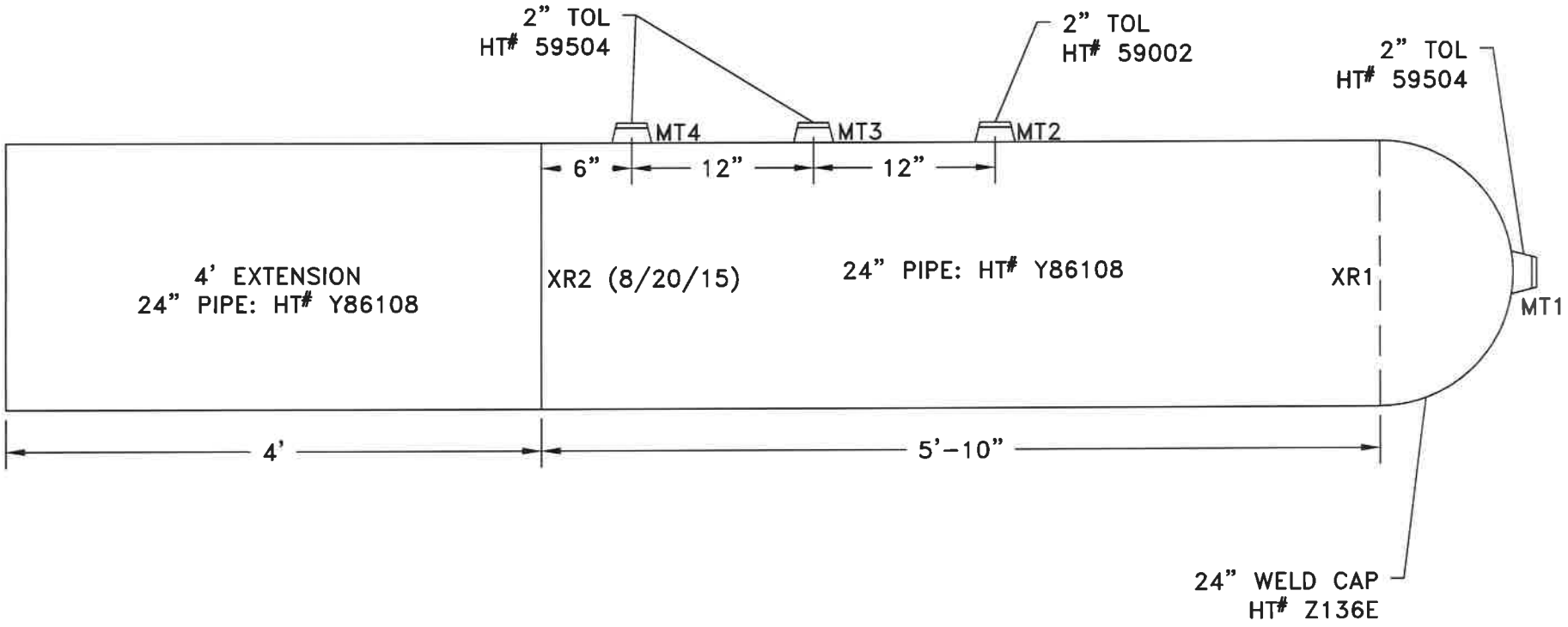
SN# 24TEST02



PIPE OD: 24.00"

PIPE WALL THICKNESS: 0.500"

PIPE GRADE: X-65

REV	DATE	DESCRIPTION		
01	8/20/2015	EXTENSION ADDED		WFH
00	5/26/2015	INITIAL RELEASE		WFH

WELD-ON TEST HEADER	
RIDGE RUNNER REFERENCE DRAWING	
DESIGN FACTOR:	95% SMYS
MAX. HYDROSTATIC TEST PRESSURE:	2570 PSI
SCALE: N.T.S.	SHEET 1 OF 1

24" PIPE

STUPP CORPORATION

Certificate of Tests

STUPP JOB NUMBER: ER 9462 REVISION: 0 HEAT #: Y86108

12555 Ronaldson Rd, Baton Rouge, LA

CUSTOMER

McJunkin Red Man Corporation
CUSTOMER ORDER S7K5682926

ORDER DESCRIPTION

HFW / Fine Grained Steel / Aluminum Killed / Continuously Cast / Rolled and Manufactured in U.S.A.

OD 24.000 Inches
WALL 0.500 Inch
GRADE API5L-X65M-PSL2
SPEC API-5L
VERSION 45th December 2012
QUANTITY
STEEL PO 6721-14

TEST PARAMETERS

HYDROSTATIC PRESSURE	HYDROSTATIC DURATION	ULTRASONIC DRILL HOLE	ULTRASONIC NOTCH	SEAM ANNEALED TEMP. MINIMUM
2,720 PSI	10 Seconds	0.125 In	0.10	1,650° F

FRACTURE TOUGHNESS CRITERIA

CVN-20-32F (20 ft.lb. minimum per Full-size).

Flattening tests acceptable per specifications.

CHEMICAL FORMULA

CE=C+Mn/6+Cr/5+Mo/5+V/5+Ni/15+Cu/15

Pcm=C+Si/30+Mn/20+Cu/20+Cr/20+Ni/60+Mo/15+V/10+5B

CE Max=0.43% ; Pcm Max=0.25% ; Pipe manufactured, sampled, tested, and inspected in accordance with the specification(s) and meets requirements. Steel made and coils rolled at US Steel, Gary, IN. Pipe manufactured at Stupp Corporation, Baton Rouge, LA.

TENSILE TESTS (in PSI) SPECIMEN SIZE 12.0 In. X 2" (1.5" GL)

COIL	PIPE	TEST TYPE	YIELD	TENSILE	ELONG%	LYT Ratio
961	7	TRANS PIPE	72,100	90,700	35	0.79
961	7	TRANS PIPE WELD		87,300		

HARDNESS SURVEY

COIL	PIPE	TEST TYPE	BM	HAZ	WELD	HAZ	BM
961	7	VICKERS 10 KGF	211	194	190	183	198
961	7	VICKERS 10 KGF	209	200	202	211	197
961	7	VICKERS 10 KGF	205	210	200	216	183

CHARPY TESTS

COIL	PIPE	ORIENTATION	LOCATION	SIZE	TEMP	SHEAR PERCENT 1	2	3	AVG	ENERGY IN FT-POUNDS 1	2	3	AVG
961	7	TRANSVERSE	BODY	FULL	32°F	100	100	100	100	197	206	199	200.7
961	7	TRANSVERSE	WELD	FULL	32°F	40	50	50	47	68	94	91	84.3

DROP WEIGHT TESTS TRANSVERSE FULL SIZE

CHEMICAL TESTS

COIL	PIPE	CE	Pcm	TYPE	C	Mn	P	S	Si	Al	Cb	V	Ti	N	Cr	Mo	Cu	Ni	B	Ca	Sn
		0.304	0.139	LADLE	0.060	1.220	0.009	0.003	0.220	0.039	0.068	0.001	0.019	0.006	0.190	0.004	0.020	0.010	0.0001	0.0000	0.006
961	1	0.296	0.125	PROD	0.044	1.250	0.006	0.000	0.193	0.034	0.068	0.001	0.017	0.004	0.205	0.003	0.023	0.009	0.0000	0.0034	0.004
961	7	0.299	0.129	PROD	0.048	1.240	0.006	0.001	0.195	0.034	0.068	0.001	0.017	0.007	0.205	0.003	0.024	0.009	0.0000	0.0035	0.004

The undersigned, on behalf of Stupp Corporation, hereby certifies that the above materials have been inspected and tested in accordance with the methods prescribed in the applicable specifications, and the results of such inspection and tests are shown above. In determining properties or characteristics for which no method of inspection or testing are prescribed by said specification, the standard mill inspection and testing practices of Stupp Corporation have been applied. Unless it appears otherwise in the results of such inspection and tests shown above, the undersigned employees of Stupp Corporation believes that said materials conform to said specification.

Jeff Jones
Stupp Corporation,Authorized Insp. Rep

4/3/2014
Appr:

24" CAP

CERTIFIED MATERIAL TEST REPORT
CERTIFICATE OF COMPLIANCE
CERTIFICATE # 22042

Tube Forgings of America, Inc.
5200 N.W. Front Avenue
Portland, OR 97210
ISO 9001 Certified

1/30/2015

Sold To:	McJunkin Red Man Corp #8ZF 224 North Main Street Horseheads, NY 14845
Customer ID:	24655HY2
TFA Sales Order :	305003\33-1
Customer PO Reference:	S8ZF785465

Ship To:	McJunkin Red Man #022 1000 Maronda Way Monessen, PA 15062

TFA Part ID:	90120
Description:	24 XH CAP Y-65
Quantity:	10
Customer Part ID:	1688-0701

Heat Code:	Z136E
Grade:	Y65
Mill:	EVRAZ
Mill Heat :	NW9741
Process:	Y65-7

Heat Analysis Chemistry

C	Mn	P	S	Si	Mo	Cr	Ni	Cu	V	Cb	B	Ti	Al	N	Co	Ca	C.E.
0.16	1.30	0.013	0.004	0.32	0.00	0.00	0.05	0.01	0.07	0.005		0.00					0.39

Product Analysis Chemistry

C	Mn	P	S	Si	Mo	Cr	Ni	Cu	V	Cb	B	Ti	Al	N	Co	Ca	C.E.
0.15	1.30	0.013	0.003	0.33	0.02	0.02	0.05	0.01	0.07	0.010		0.01					0.39

Physical

ID	Type	Yield	Tensile	% Elong	Length	BHN *In-Process Test 1 Test 2*	Tensile Orientation	Test Bar Type
1	PSI	67,600	81,900	32.50	2"	182	LONGITUDINAL	FLAT

Charpy Test Results

	Impacts				Lateral Expansion			% Shear				V notch test at degrees F	Coupon Size	Charpy Orientation
	1	2	3	Avg	1	2	3	1	2	3	Avg			
1 FtLbs	142.00	252.50	206.00	200.17				70.00	85.00	85.00	80.00	+20F	10X10MM	TRANSVERSE

Notes/Comments

1. THIS MATERIAL WAS AUSTENITIZED AT 1650F,OIL QUENCHED, AND TEMPERED AT 1200F. 2. THIS MATERIAL IS OF SEAMLESS MANUFACTURE.

1) MATERIAL MEETS MSS-SP-75 - 2008. 2) MATERIAL MEETS NACE MR-01-75/ISO 15156, REGIONS 1, 2 AND 3 -2009 EDITION. ALSO MEETS NACE MR 0103-2010 EDITION 3) MANUFACTURED IN AN ISO 9001 CERTIFIED FACILITY-CERTIFICATE #30248 4) MATERIAL MEETS THE FOLLOWING ADDITIONAL SPECS: - ENERGY TRANSFER ETC-HY-WELD-FIT REV 0, DATED 1/14/2005- KINDER MORGAN 8120 REV 6-1-2010.- SEMPRA ENERGY (SOUTHERN CALIFORNIA GAS) SDGE 52-96 REV 10/01/2010.- WILLIAMS GAS 50.1207 DATED 6/1/2006.5) EXCEPTIONS: - CE TO BE .43% MAX. BEVELS PER MSS SP-75 AT 37.5 DEGREES - REFERENCE WILLIAMS GAS 50.1207.- FITTINGS ARE FULLY PAINTED AND WILL NOT HAVE THE SERVICE TEMPERATURE STAMPED ON THEM AS REQUIRED BY ENERGY TRANSFER.- FITTINGS WILL NOT HAVE THE STENCILING REQUIRED BY KINDER MORGAN 8120.- MATERIAL UNDER 16 NPS IS NOT IMPACT TESTED UNLESS REQUIRED BY MSS SP-75 (Y65 AND HIGHER YIELDS) . MATERIAL UNDER 16 NPS USES SAME TFA GRADES AND IMPACTS ARE GUARANTEED TO MEET MSS SP-75.-ID AT ENDS TO MSS NOT +-.060 AS REQUIRED BY ENERGY TRANSFER ETC HY WELD FIT REV 0 DATED 1-14-2005 PARA 6.0

John Peachey, Mgr. Quality Assurance

MILL TEST REPORTS

Bonney Forge
14496 Croghan Pike
Mt. Union, PA 17066

CERTIFIED MILL TEST REPORT

MRC 5/18/2015

LOT NO.
59504

CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS
36-20 X 2" 3M A105 Thredolet™ Threaded

C	0.210	MN	0.970	P	0.011	S	0.024	SI	0.200
NI	0.030	CR	0.040	MO	0.004	CU	0.060	CO	0.003
V	0.004	AL	0.030	N	0.004	Nb	0.014		

CE(LONG FORMULA) = 0.387

T/S(PSI) 76021 Y/S(PSI) 49988 EL(%) 34.150 RA(%) 62.020

BRINELL HARDNESS 139, 139

Click here for Original Steel Mill Certification

1. CERTIFYING ASTM A105-14 / ASME SA105-13 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.

THIS DOCUMENT HAS BEEN ELECTRONICALLY SUBMITTED.

Cancel | Logout

MILL TEST REPORTS

Bonney Forge
14496 Croghan Pike
Mt. Union, PA 17066

CERTIFIED MILL TEST REPORT

MRC 5/18/2015

LOT NO. 59002

CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS

36-20 X 2" 3M A105 Thredolet™ Threaded

C	0.190	MN	1.040	P	0.009	S	0.017	SI	0.190
NI	0.050	CR	0.030	MO	0.010	CU	0.120	CO	0.004
V	0.003	AL	0.027	N	0.004	Nb	0.014		

CE(LONG FORMULA) = 0.383

T/S(PSI) 79575 Y/S(PSI) 50537 EL(%) 31.250 RA(%) 65.640

BRINELL HARDNESS 147, 150

Click here for Original Steel Mill Certification

1. CERTIFYING ASTM A105-14 / ASME SA105-13 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.

THIS DOCUMENT HAS BEEN ELECTRONICALLY SUBMITTED.

Cancel Logout

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

REPORT # PS1

RIG #8497

JOB DESCRIPTION Line-P-55

JOB, WO, AFE #, PO # ETC. RRPS

CUSTOMER NAME Western Construction

BILLING ADDRESS PO BOX 727

CITY Prestonsburg STATE KY ZIP 41653

ATTN: Daniel Stumbo

DAY Tue DATE 5/26/15

LOCATION Prestonburg

STATE Kentucky

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

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.	Th-1 Xr-1	YES	24 in	70 mm	RT	3	0.500 in	GAMMA	24"test header 1
2.	Th-1 Mt-1	YES	2.375 in		MT		in		"
3.	Th-1 Mt-2	YES	2.375 in		MT		in		"
4.	Th-1 Mt-3	YES	2.375 in		MT		in		"
5.	Th-1 Mt-4	YES	2.375 in		MT		in		24" test header 1
6.	Th-2 Xr-1	YES	24 in	70 mm	RT	3	0.500 in	GAMMA	24" test header 2
7.	Th-2 Mt-1	YES	2.375 in		MT		in		"
8.	Th-2 Mt-2	YES	2.375 in		MT		in		"
9.	Th-2 Mt-3	YES	2.375 in		MT		in		"
10.	Th-2 Mt-4	YES	2.375 in		MT		in		24" test header 2
11.	Th-3 Xr-1	YES	24 in	70 mm	RT	3	0.500 in	GAMMA	24" test header 3
12.	Th-3 Mt-1	YES	2.375 in		MT		in		"
13.	Th-3 Mt-2	YES	2.375 in		MT		in		"
14.	Th-3 Mt-3	YES	2.375 in		MT		in		"
15.	Th-3 Mt-4	YES	2.375 in		MT		in		24" test header 3
16.	Th-4 Xr-1	YES	24 in	70 mm	MT	3	0.500 in	GAMMA	24" test header 4
17.	Th-4 Mt-1	YES	2.375 in		MT		in		"
18.	Th-4 Mt-2	YES	2.375 in		MT		in		"
19.	Th-4 Mt-3	YES	2.375 in		MT		in		"
20.	Th-4 Mt-4	YES	2.375 in		MT		in		24" test header 4
21.	Th-5 Xr-1	YES	24 in	70 mm	RT	3	0.500 in	GAMMA	24" Flange
22.	Th-1 Xr-1	YES	16 in	70 mm	RT	3	0.375 in	GAMMA	16" test header 1
23.	Th-1 Xr-2	YES	16 in	70 mm	RT	3	0.375 in	GAMMA	"
24.	Th-1 Mt-1	YES	1 in		MT		in		"
25.	Th-1 Mt-2	YES	2.375 in		MT		in		"
26.	Th-1 Mt-3	YES	2.375 in		MT		in		16" test header 1
27.	Th-2 Xr-1	YES	16 in		RT		in		16" test header 2
28.	Th-2 Xr-2	YES	16 in		RT		in		"
29.	Th-2 Mt-1	YES	1 in		MT		in		"
30.	Th-2 Mt-2	YES	2.375 in		MT		in		"
31.	Th-2 Mt-3	YES	2.375 in		RT		in		16" test header 2
32.	Th-1 Xr-1	YES	10.75 in	70 mm	RT	3	0.365 in	GAMMA	10" test header 1
33.	Th-1 Xr-2	YES	10.75 in	70 mm	RT	3	0.365 in	GAMMA	"
34.	Th-1 Mt-1	YES	1 in		MT		in		"
35.	Th-1 Mt-2	YES	2.375 in		MT		in		"
36.	Th-1 Mt-3	YES	2.375 in		MT		in		10" test header 1
37.	Th-2 Xr-1	YES	10.75 in	70 mm	RT	3	0.365 in	GAMMA	10" test header 2
38.	Th-2 Xr-2	YES	10.75 in	70 mm	RT	3	0.365 in	GAMMA	"
39.	Th-2 Mt-1	YES	in		MT		in		"
40.	Th-2 Mt-2	YES	in		MT		in		10" test header 2

X Paul Scarborough

NAME: Paul Scarborough

BADGE #: 1329

TECHNICIAN LEVEL: Level II

ASST NAME: Trent Burchett

ASST NAME:

ASST NAME:

PIPELINE ☑ STATION ☐

JOB COMPLETE No

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 ATV# ___ Crawler No

Pulling Mach No B. Hardness No WT Trailer No

UNIT SIZE 2

UNITS REMAINING OVERNIGHT No

FROM Office TO Jobsite

MILEAGE DESCRIPTION Round Trip

MILEAGE 50

TOTAL HRS UTILIZED 10

REFERENCE # ___

Jacob McAlpin
PRINT NAME (APPROVED BY)

X ___
SIGNATURE (APPROVED BY)

5/26/15
DATE

Waggoner & Associates

Line-P-55

Date: 5/26/15 Report: PS1 Job: RRPS

Daily Radiographic Log

X-RAY NO.	WITHIN CODE	PIPE SIZE	FILM SIZE	INSP. TYPE	NO. EXP.	WALL THICK.	GAMMA/ X-RAY	REMARKS
41. Th-2 Mt-3	YES	2.375 in		MT		in		10" test header 2
42. Th-1 Xr-1	YES	6.625 in	70 mm	RT	3	0.280 in	GAMMA	6" test header 1
43. Th-1 Xr-2	YES	6.625 in	70 mm	RT	3	0.280 in	GAMMA	"
44. Th-1 Mt-1	YES	1 in		MT		in		"
45. Th-1 Mt-2	YES	2.375 in		MT		in		"
46. Th-1 Mt-3	YES	2.375 in		MT		in		6" test header 1
47. Th-2 Xr-1	YES	6.625 in	70 mm	RT	3	0.280 in	GAMMA	6" test header 2
48. Th-2 Xr-2	YES	6.625 in	70 mm	RT	3	0.280 in	GAMMA	"
49. Th-2 Mt-1	YES	1 in		MT		in		"
50. Th-2 Mt-2	YES	2.375 in		MT		in		"
51. Th-2 Mt-3	YES	2.375 in		MT		in		6" test header 2
52.		in				in		
53.		in				in		
54.		in				in		
55.		in				in		
56.		in				in		
57.		in				in		
58.		in				in		
59.		in				in		
60.		in				in		
61.		in				in		
62.		in				in		
63.		in				in		
64.		in				in		
65.		in				in		
66.		in				in		
67.		in				in		
68.		in				in		
69.		in				in		
70.		in				in		
71.		in				in		
72.		in				in		
73.		in				in		
74.		in				in		
75.		in				in		
76.		in				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		
91.		in				in		
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 # _____

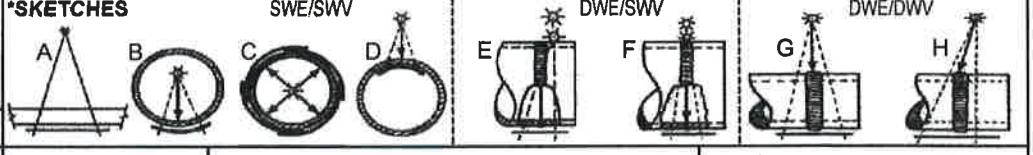
DATE: 8/20/2015	CLIENT: Ridge Runner Pipeline Services		
REPORT No: 1 of 2	JOB LOCALE- CITY, STATE: Morgantown, WV		
CLIENT PO No: 6202		JANX JOB No: 0207	
CLIENT W/O No:		JANX PROCEDURE No: JANX RT-1 Rev-1 API	
CLIENT JOB No:		ACCEPTANCE CRITERIA: API 1104 20th ED	

Proc. #	Sketch*	Material	Pipe Dia. or Other	Object Thickness + Reinf.	Source to Object (SOD)	Object to Film (OFD)	IQI Note**	IQI Group Number & Size or Set	Essential Hole or Wire	IQI Side S / F	Shim Material & Thickness	Heat Shield Used	Film Brand & Type	Exp. Time (min)	Density Min.	Density Max.
1	F	cs	24"	.562"	23.81"	.572"	B	ASTM B	.016	F	n/a		Agfa D-5	3.30	2.0	4.0
2	F	cs	12.75"	.374"	12.75"	.382"	B	ASTM B	.013	F	n/a		Agfa D-5	.40	2.0	4.0
3	F	cs	4.5"	.399"	4.47"	.409"	A	ASTM B	.010	F	n/a		Agfa D-4	.15	2.0	4.0

**IQI Note:
A- 1 IQI, In center of Readable Area (Area)
B- 2 IQIs, 1 within 1" of Area end & 1 at center
C- 4 IQIs, equally spaced around circumference
D:

Heat Shield Detail:

*SKETCHES



Source
- [x] Ir 192 — Focal Spot: .135"
- [ ] Co 60 — Curies / kV: 89
- [ ] X-ray — milliamps: n/a

Films per Cassette: 1

Screen Material: PB
Front Thick.: .010"
Back Thick.: .010"

Processing: [x] Manual [ ] Automatic
Drying: [x] Manual [ ] Automatic

	Develop	Stop	Fixing	Rinse
Time (min.):	5 / 3	10/15	5/10	10 / 20
Temp. *F.:	68 / 76	68/76	68/76	68/76

Densitometer
Serial No.: 12616
Expire Date: 10/28/2016
Verification Checks:
- [x] Daily & Periodic Completed

ITEM ID	VIEW	No. EXP.	No. FILM	PIPE DIA.	WALL THICK.	IN CODE Y	IN CODE N	DEFECT EVALUATION KEY	WELDER ID, OTHER ID, REMARKS	Proc. #
XR-1	ABCA	3	3	24"	.500"	X			ADD ON PIECE	1
XR-2	ABCA	3	3	24"	.500"	X			ADD ON PIECE	1
XR-3	ABCA	3	3	24"	.500"	X			ADD ON PIECE	1
XR-4	ABCA	3	3	24"	.500"	X			ADD ON PIECE	1
XR-5	ABCA	3	3	12.75"	.312"	X				2
XR-6	ABCA	3	3	12.75"	.312"	X				2
XR-7	ABCA	3	3	12.75"	.312"	X				2
XR-8	ABCA	3	3	12.75"	.312"	X				2
XR-9	ABCA	3	3	12.75"	.312"	X				2
XR-10	ABCA	3	3	12.75"	.312"			WATER IN PIPE		2
XR-11	ABCA	3	3	12.75"	.312"			UNABLE TO READ		2
XR-12	ABCA	3	3	12.75"	.312"			FILM XR10,11,12		2
XR-13	ABCA	3	3	4.5"	.337"	X				3
XR-14	ABCA	3	3	4.5"	.337"	X				3

EVALUATION KEY

1 – INADEQUATE PENETRATION	4 – SLAG INCLUSION	8 – POROSITY	12 – CRACK	16 – HOLLOW BEAD
2 – INADEQUATE PENETRATION DUE TO HIGH-LOW	5 – INTERNAL UNDERCUT	9 – SCATTERED POROSITY	13 – LINEAR INDICATION	17 – ACCUMULATION
3 – INCOMPLETE FUSION	6 – EXTERNAL UNDERCUT	10 – CLUSTER POROSITY	14 – ROUNDED INDICATION	18 – BURN THROUGH
	7 – INTERNAL CONCAVITY	11 – PIPING/WORMHOLE POROSITY	15 – ARC BURN	19 – LOW CAP

BILLING ADDRESS

Western Construction
2586 KY Route 1428 Prestonburg, KY 41653

FILM SHEETS:

3.5"x10"		4.5"x10"		5" x 7"		7" x 17"	
3.5"x17"		4.5"x17"		8" x 10"		14" x 17"	

CLIENT SIGNATURE	JANX LEVEL II SIGNATURE	LEVEL II TECHNICIAN	OTHER EMPLOYEES & LEVEL
	David Price	David Price / II	Troy Conner / Trainee

CLIENT REP NAME & PHONE NUMBER	TRAVEL MILES	TOTAL HOURS INCLUDING TRAVEL AND WORK	PER DIEM APPLICABLE	TOTAL ITEMS INSPECTED
	45	8	na	17

Form: RT Report 14-03

CLIENT'S SIGNATURE CERTIFIES THAT TIME AND MILEAGE ARE CORRECT AND MATERIALS AND INTERPRETATION ARE ACCEPTED.

JANX
P.O. Box 190
(517) 531-8210
Parma, MI 49269

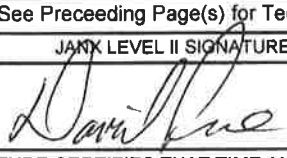
DATE: 8/20/2015	CLIENT: Ridge Runner Pipeline Services	JANX
REPORT No: 2 of 2	JOB LOCALE- CITY, STATE: Morgantown, WV	
CLIENT PO No: 6202	JANX JOB No: 0207	
CLIENT W/O No:	JANX PROCEDURE No: JANX RT-1 Rev-1 API	
CLIENT JOB No:	ACCEPTANCE CRITERIA: API 1104 20th ED	

ITEM ID	VIEW	No. EXP.	PIPE DIA.	WALL THICK.	IN CODE Y	IN CODE N	DEFECT EVALUATION KEY	WELDER ID, OTHER ID, REMARKS	Proc. #
XR-15	ABCA	3	4.5"	.337"	X				3
XR-16	ABCA	3	4.5"	.337"	X				3
XR-17	ABCA	3	4.5"	.337"	X				3

EVALUATION KEY

1 – INADEQUATE PENETRATION
2 – INADEQUATE PENETRATION DUE TO HIGH-LOW
3 – INCOMPLETE FUSION
4 – SLAG INCLUSION
5 – INTERNAL UNDERCUT
6 – EXTERNAL UNDERCUT
7 – INTERNAL CONCAVITY
8 – POROSITY
9 – SCATTERED POROSITY
10 – CLUSTER POROSITY
11 – PIPING POROSITY
12 – CRACK
13 – LINEAR INDICATION
14 – ROUNDED INDICATION
15 – ARC BURN
16 – HOLLOW BEAD
17 – ACCUMULATION

Note: Continuation Page Signatures Required. See Preceeding Page(s) for Technique(s) and Billing Information.

CUSTOMER SIGNATURE	JANX LEVEL II SIGNATURE	LEVEL II TECHNICIAN	OTHER EMPLOYEES & LEVEL
		David Price / II	Troy Conner / Trainee

Form: RT Continuation 14-03

CUSTOMER'S SIGNATURE CERTIFIES THAT TIME AND MILEAGE ARE CORRECT AND MATERIALS AND INTERPRETATION ARE ACCEPTED.

JANX
P.O. Box 190
(517) 531-8210
Parma, MI 49269