



WAV Inspection Ltd. PO Box 595 Brooks, Alberta T1R 1B5
 Office: 403.362.2008 Toll Free Fax: 866.873.8515
 www.wavinspection.com Email: info@wavinspection.com

GENERAL UT/MPI REPORT

System
 Project
 Site Name
 JT/GW#
 License #
 Inspection Date

Rainbow NPS 20"
 Evi - Utikuma
 2011 NPS 20" Rupture
 55290 to 55330
 5592-1

1-Apr-11

Page 1 of 1

EQUIPMENT OWNER

PLAINS MIDSTREAM

AUTHORIZED INSPECTOR

INTEGRITY ENGINEER
 ONSITE CLIENT REPRESENTATIVE

MINH HO
 JOE HUGO

ULTRASONIC STRAIGHT BEAM INSPECTION

PROCEDURE #	TECHNIQUE #	INSPECTION CODE	CALIBRATION STANDARD
WAV 2	UT 1	CSA / CEPA	ASME SECTION V

EQUIPMENT EMPLOYED

PANAMETRICS EPOCH 4 S/N 061469107 CALIBRATED 21 OCT 10
 0.250" STRESSTEL 5.0 MHZ DUAL MODE TRANSDUCER MICRO DOT CABLES

MAGNETIC PARTICLE INSPECTION

PROCEDURE #	TECHNIQUE #	INSPECTION CODE	CALIBRATION STANDARD
WAV 3	MT 1 / MT 2	CSA / CEPA	ASME SECTION V

MAGNETIZATION

METHOD	CURRENT	FIELD
YOKE	AC	CONTINUOUS

MEDIUM	TYPE	APPLICATION	SIZE
DRY / WET	CCMPI	AEROSOL / HAND	1-150 µm

SURFACE PREPARATION
BUFFED

SURFACE PROFILE
N/A

SURFACE FINISH
SSPC-SP-3

DEMAGNETIZATION
N/A

POST CLEANING METHOD
N/A

ULTRASONIC ANGLE BEAM INSPECTION

PROCEDURE #	TECHNIQUE #	INSPECTION CODE	CALIBRATION STANDARD
WAV 2	UT 2	CSA / CEPA	ASME SECTION V

EQUIPMENT EMPLOYED

PANAMETRICS EPOCH 4 S/N 061469107 CALIBRATED 21 OCT 10
 0.250" PANAMETRICS 5.0 MHZ PULSE ECHO TRANSDUCER MICRO DOT CABLES
 PANAMETRICS 45 and 70 DEGREE LUCITE WEDGES

EQUIPMENT EMPLOYED

Magnaflux Model 46530 AC Yoke S/N WAV-2 Calibrated 12 January 11
 10 lb Test Weight S/N WAV-MTCB10LB1
 WCP-2 CONTRAST PAINT, 7HF PREPARED BATH AND RED DRY POWDER

COMMENTS

JT 55290 UPSTREAM STOPPLE

AS PER CUSTOMER REQUEST A ZERO DEGREE LAMINATION SCAN WAS DONE TO ENSURE OF NO FOREIGN MATERIAL IN THE PARENT MATERIAL BEFORE THE INITIAL BUTTER PASSES WERE DONE, AS WELL THE DSAW LONGSEAM WAS INSPECTED BY WAY OF SHEAR WAVE ULTRASONICS BEFORE ANY BUFFING OF THE LONG SEAM WAS PREFORMED. ALL WELD PASSES IN THE HORIZONTAL AND CIRCUMFERENCIAL DIRECTIONS ON THE STOPPLE INCLUDING THE BUTTER PASS WERE INSPECTED BY WAY OF DRY POWDER MPI. ALL FINAL WELD PASSES WERE INSPECTED BY WAY OF COLOUR CONTRAST MPI AS WELL AS SHEAR WAVE ULTRASONICS. A 48 HOUR POST WELD INSPECTION WAS ALSO PREFORMED BY WAY OF SHEAR WAVE UT AND CCMPI TO ENSURE OF NO POST WELD INDICATIONS. AT THE TIME AND DATE OF INITIAL AND POST WELD INSPECTIONS NO RELEVANT INDICATIONS WERE NOTED OR RECORDED. PLEASE SEE PICTURES AND PETROLINES DRAWINGS FOR STOPPLE LOCATION.

SIGNATURE

Brian J. Purves

TECHNICIAN

BRIAN PURVES
 CGSB #7685 LEVEL II UT,RT,MT,PT,TOFD
 SNT# 200608152 LEVEL II UT,PT,MT,RT

ASSISTANT #1

ROSS LEASK
 SNT# 200608159 LEVEL II MT

ASSISTANT #2

1 1/4
*

X7421

8.07

Plains
Rainbow

NPS 20"

Rainbow
4-May-11

48hr
Post Weld
RGW 55290
← 270°

7.18

15

458