REPORT: 66036243 - 2016-06-08 - UT - A0451152 BOILER

Bay 5, 240040 Frontier Place SE Rocky View, Alberta T1X 0N2



DATE:

10-Jun-16

PAGE:

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ULTRASONIC EXAMINATION REPORT

LOCATION NAME: ANSELL GAS PLANT CLIENT PO#:	CLIENT:		HUSKY					CONTRACTOR:							
ITEMS EXAMINED: A0451152 BOILER 5" INTERNAL COIL ACCEPTANCE CRITERIA: ASME SPECIFICATION: ASME V ART. 5	LOCATION NAME:		ANSELL GAS PLANT					STREAMLINE JOB# 16-164							
PROCEDURE: UT-1	LOCATION:		07-27-051-	19W5M				CLIENT PO#:							
EQUIPMENT TYPE: DMS/USMGO	ITEMS EXAMINED:		A0451152 BOILER 5" INTERNAL COIL												
EQUIPMENT TYPE: DMS / USM GO Serial #: 12035308 Cal Date: Jan 3/2016 Cable Length/Type: 6" / Lemo to Microdot COUPLANT: UT.X UTINSPECTION MODE: UTINSPECTI	PROCEDURE:		UT-1						SPECIFICATION: ASME V		ART. 5				
CALIBRATION BLOCKS: 1.000" C/S Step SN 12-4684 Size: Depth: Signal Respose Height: 80% □ ZFRO DEGREE □ SHEARWAVE SPEARWAVE SIZE MANUF. SERIAL # RANGE REF. LEVEL (Db) SCAN LEVEL (Db)		1					EQ	UIPME	NT			1			
REFERENCE REFLECTOR: Type: Size: Depth: Signal Respose Height: 80% □ ZERO DEGREE □ SHEARWAVE	EQUIPMENT TYPE:		DMS / USM GO		Serial #:	12035308	Cal Date: Jan 3/2016		Cable Length/Type:		6' / Lemo to Microdot		COUPLANT:		UT-X
PROBE TYPE ANGLE WAVE FREQ. SIZE MANUF. SERIAL # RANGE REF. LEVEL (Db) SCAN LEVEL (Db)	CALIBRA	TION BLO	CKS: 1.000" C/S Step SN			12-4684									MODE:
DUAL 0 LONG 5MHz 0.250" GE 02682 1.000" 64 70 SURFACE CONDITION: ☑CLEAN BASE METAL ☐AS GROUND ☐WIRE WHEEL BUFFED ☐AS WELDED ☐PAINTED ☐SAND BLAST ☐Other: Material: C/S EXAMINATION DETAILS AND RESULTS A UT zero degree examination was conducted on Boiler A0451152 5" diameter internal coil as requested by client. UT scans were taken every 5th coil at top, right, bottom and left as looking through manway, with low reading recorded. Coils numbered from south to north (manway on south end). 37 loops in coil. 5.563 O.D. std, nominal 0.258" (stamp found on inlet and outlet 6" x 5" reducing elbows) Coil # TOP/2014 TOP/2016 RIGHT RIGHT 2016 2014 2016 2014 2016 2014 2016 2014 2016 2014 2016 2014 2016 2014 2016 3014 2016 3014 2016 3014 3016 3019 0.328 0.289 0.299 0	REFEREN	CE REFLE			, , , , , , , , , , , , , , , , , , , 		·		·		·				
SURFACE CONDITION: CLEAN BASE METAL AS GROUND WIRE WHEEL BUFFED AS WELDED PAINTED SAND BLAST Other: Material: C/S EXAMINATION DETAILS AND RESULTS A UT zero degree examination was conducted on Boiler A0451152 5" diameter internal coil as requested by client. UT scans were taken every 5th coil at top, right, bottom and left as looking through manway, with low reading recorded. Coils numbered from south to north (manway on south end). 37 loops in coil. 5.563 O.D. std, nominal 0.258" (stamp found on inlet and outlet 6" x 5" reducing elbows) Coil # TOP/2014 TOP/2016 RIGHT 2016 BOTTOM 2014 2016 2014 2016 Coil nominal confirmed on MDR. Coil # TOP/2014 TOP/2016 RIGHT 2014 2016 Source and the confirmed on MDR. Coil # TOP/2014 TOP/2016 RIGHT 2014 2016 Source and the confirmed source and the confirmed on MDR. Coil # TOP/2014 TOP/2016 RIGHT 2014 2016 Source and the confirmed source and the confirmed on MDR. Coil # TOP/2014 TOP/2016 RIGHT 2014 2016 Source and the confirmed source and the confirmed on MDR. Coil nominal confirmed on MDR. Coil nominal confirmed on MDR. Scans were taken on inside radius where accesible. Average thickness on inside radius is 0.260". RESULTS 17 0.285 0.283 0.284 0.284 0.283 0.289 0.289 0.289 0.295 0.295 No readings found below nominal. There was some wall loss noted since the 2014 inspection. 27 0.294 0.290 0.289 0.289 0.289 0.284 0.284 0.282 0.282 Yellow indicates wall loss since 2014 inspection. 27 0.294 0.290 0.298 0.301 0.301 0.300 0.300 0.297 0.297 TECHNICIAN: CURTIS GRAHAM - CGSB/SNT-TC-14 UT II, MT II, PT II, RT III #6560 CLIENT: Greg Guenette API 510 #27479 API 653 #50947 APPROVAL:	PROBE TYPE		ANGLE	WAVE	FREQ.	SIZE	MAI	NUF.	SERIAL#		RANGE	REF. LE	VEL (Db)	SCAN LEVEL (Db)	
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Secondary Coll															
Coil # TOP/2014 TOP/2016 RIGHT 2014 RIGHT 2014 BOTTOM 2016 LEFT 2014 LEFT 2016 Scans were taken on inside radius of coils. A few random readings were taken on outside radius where accesible. Average thickness on inside radius where accesible. Average thickness on inside radius is 0.260". 7 0.278 0.284 0.285 0.285 0.292 0.292 0.279 0.279 thickness on inside radius where accesible. Average thickness on inside radius is 0.260". 12 0.284 0.284 0.284 0.283 0.289 0.289 0.295 0.295 RESULTS 17 0.285 0.283 0.281 0.281 0.281 0.282 0.299 0.294 No readings found below nominal. There was some wall loss noted since the 2014 inspection. 27 0.294 0.290 0.289 0.284 0.282 0.282 0.282 Yellow indicates wall loss since 2014 inspection. 32 0.288 0.284 0.289 0.289 0.286 0.284 0.284 37 0.303 0.298 0.301 0.300 0.300 0.297 0.297	bottom and left as looking through manway, with low reading recorded. Coils numbered from south to north (manway on south end). 37 loops in coil.														
Coli # IOP/2014 IOP/2016 2014 2016 2014 2016 2014 2016 2014 2016 Scans were taken on inside radius of coils. A few random readings were taken on outside radius where accesible. Average thickness on inside radius is 0.260". 12 0.284 0.284 0.284 0.283 0.289 0.289 0.295 0.295 0.295 0.295 0.295 0.295 17 0.285 0.283 0.287 0.283 0.281 0.281 0.281 0.281 0.276	5.563 O.D	. std, nomi	inal 0.258"	(stamp fo		1		<u>reducing elbows)</u> Coil nomi			nal confir	med on M	DR.		
2 0.296 0.296 0.331 0.310 0.328 0.306 0.317 0.308 were taken on inside radius of coils. A few random readings were taken on outside radius where accesible. Average thickness on inside radius where accesible. Average thickness on inside radius is 0.260". 12 0.284 0.284 0.284 0.283 0.289 0.289 0.295	Coil #	TOP/2014	TOP/2016		1			1	l .						
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SIGNATURE: API 510 #27479 CHARGES REF. APPROVAL: JOB# JOB#							l	!							
SIGNATURE: API 653 #50947 JOB#	TECHNICIAN:		CURTIS GRAHAM - CGSB/SNT			1					<u> </u>				
API 653 #50947 JOB#						API 653 #50947		JOB#			APPROVA	AL:			
ASSISTANT: Warren Gill AB IPV #000711 16-164															
	ASSISTANT:		Warren Gill			AB IPV #000711		16-164							

REPORT: 66036243 - 2014-06-04 - UT - A0451152 BOILER

Bay 5, 240040 Frontier Place SE Rocky View, Alberta T1X 0N2



DATE: 08-Jun-16

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ULTRASONIC EXAMINATION REPORT

CLIENT:	HUSKY	CONTRACTOR:	
LOCATION NAME:	ANSELL GAS PLANT	STREAMLINE JOB#	16-164
LOCATION:	07-27-051-19W5M	CLIENT PO#:	

ITEMS EXAMINED: |A0451152 BOILER 5" INTERNAL COIL

EXAMINATION DETAILS AND RESULTS





