MANI CONSULTING INC

COATING DIVISION
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Coating Quality Control Report

REPORT NO:
05-04-2021/2

Client :	Rare Oilfield Services	**Date :**	May 04/2021
Project :	Treater - Existing Coating Repairs	**Location :**	Nisku- Argo yard
Project Description :	Holiday Repairs		
Contact :	Skye Bowman		
Contact No. :	1.587.447.4607	**Inspector :**	Celestin Mani
Email :	skyelineconsulting@gmail.com	**Certification :**	SSPC, CCI/ NACE CIP 3, #49929

SCOPE

EQUIPMENT NAME/NO.	44750 Horizontal Superior Sour Treater, 10'x40' - 75 PSI
COATING DETAILS	Existing Coating Believed to be Devoe 253
JOB SCOPE	Repair with Devoe Grout 142.
ATTENDEES COMPANY NAMES	Mani Consulting

EQUIPMENT AND INSTRUMENTATION USED

INSTRUMENTATION DESCRIPTION	INSTRUMENTATION NUMBER	CALIBRATION EXPIRY
TEMPERATURE GUN	CEM DT - S/N 170603302	January 22/ 2022
DEW POINT METER	CEM DT - S/N 170603302	January 22/ 2022
POSITECTOR	6000 - S/N 308746	November 07/ 2021
HOLIDAY TEST	S/N 26109	November 07/ 2021

PRE-SURFACE PREPARATION CONDITIONS

SHARP EDGES, FILLETS, CORNER WELDS: Rounded ☐ Medium ☑ Poor ☐

SURFACE FREE FROM WELD FLUX, RESIDUE, SILVERS, OIL, GREASE: Yes ☐ No ☐

SUBSTRATE CONDITION: Existing coating ✔ Bare Steel Pitted Steel

SURFACE PREPARATION

PREPARATION METHOD: Hand Tools

SPECIFICATION: SSPC SP 1

ABRASIVE MEDIA: N/A

REQUIRED PROFILE: 80 Grit

AMBIENT CONDITIONS:

NOZZLE PRESSURE: N/A

Air Temp: 4.3 C

COMPRESSOR SIZE: N/A

Surface Temp: 2.7C

NOZZLE SIZE: N/A

Relative Humidity: 57%

Dew Point: - 13 C

SCAT TEST ☐ N/R ☑

CHLORIDES PPM: N/A

SULFIDES PPM: N/A

LOT# N/A

Expiry: N/A

COATING APPLICATION

COATING MANUFACTURER: Devoe

BATCH#

PRODUCT NAME: Devmat 142

1st COAT BASE: VC5448UA

COATING SYSTEM: Grout

CATALYST: VA4135UA

COLOURS:

2nd COAT BASE: N/A

1st Coat: Blue

CATALYST: N/A

2nd Coat: N/A

3rd COAT BASE: N/A

3rd Coat: N/A

CATALYST: N/A

SPECIFIED DFT:

THINNER: YES ☐ NO ☑

1st Coat: N/A

PERCENTAGE: N/A

2nd Coat: N/A

TYPE: N/A

3rd Coat: N/A

TOTAL: N/A

APPLICATION METHOD: SPRAY APPLIED ☐ PUMP TYPE AND SIZE N/A BRUSH AND ROLLER ☑

FIRST COAT APPLICATION

DATE: May 29/21 **TIME:** 10:25 am

AMBIENT CONDITIONS

Air Temp: 4.7C

Surface Temp: 2.1C

Relative Humidity: 48%

Dew Point: - 7.4C

FIRST COAT INSPECTION

Instrument Used: N/A

Min DFT: ____ **Max DFT:** ____ **Avg DFT:** ____

Visual Appearance: Acceptable ☑ Unacceptable ☐

Recommendation: ____

SECOND COAT APPLICATION

DATE: N/A **TIME:** N/A

AMBIENT CONDITIONS

Air Temp: N/A

Surface Temp: N/A

Relative Humidity: N/A

Dew Point: N/A

SECOND COAT INSPECTION

Instrument Used: N/A

Min DFT: N/A **Max DFT:** N/A **Avg DFT:** N/A

Visual Appearance: Acceptable ☑ Unacceptable ☐

Recommendation: N/A

THIRD COAT APPLICATION

DATE: N/A **TIME:** N/A

AMBIENT CONDITIONS

Air Temp: N/A

Surface Temp: N/A

Relative Humidity: N/A

Dew Point: N/A

THIRD COAT INSPECTION

Instrument Used: N/A

Min DFT: N/A **Max DFT:** N/A **Avg DFT:** N/A

Visual Appearance: Acceptable ☐ Unacceptable ☐

Recommendation: N/A

FINAL INSPECTION

HOLIDAY DETECTION:

DATE: May 04/21 TIME: 11:00 am

INSTRUMENT TYPE: LOW VOLTAGE ☑ HIGH VOLTAGE ☐

CALIBRATION DATE: November 07/ 2021

TOTAL NUMBER OF HOLIDAYS: 2

LOCATIONS:

Welds _____

Floor _____

Shell _____

Roof _____

Sharp Edges _____

Debris _____

Pinholes _____

Others 1

REPAIR METHOD: SANDING REQUIRED YES ☐ NO ☑

BRUSH ☑

ROLLER ☐

REPAIRS INSPECTED: YES ☐ NO ☑

If no, why: Just Assessiment

POST CURE SCHEDULE

POST CURE REQUIRED: YES ☐ NO ☑

DURATION: N/A

TEMP: _____

TYPE OF HEAT USED: Ambient

PROJECT COMPLETED: YES ☑ NO ☐ DOCUMENT TURN OVER ☑ CUSTOMER REP. SIGNATURE _____

INSPECTION DETAIL

SUMMARY REPORT

April 28 /21 @ 8:00 am - Mani Consulting crew traveled from Red Deer to Nisku for coting repairs based on coating inspection was previously done on Existing Coating - internal of Unit 44750 Sour Horizontal Treater.

April 28 /21 @ 9:15 am - Mani Consulting crew performed the prep work on all required areas, finishing at 3:15 pm.

April 29/ 21 @ 9:00 am - Mani Consulting crew performed all repairs using Devemat 142 (Devoe Grout) as a low cure and surface tolerant product. All repairs were complete around 3:00 pm and 5 panels were transported to recoated at the shop.

May 04/21 @ 11:30 am - Celestin conducted a visual and Holiday detection on all the repairs resulting in one holiday which was repaired immediately and the 5 recoated panels were delivered.

All repairs were done to the best effort, a closer visual, and all that could be picked up by a low voltage holiday detecting. The presence of oil, debris, and field conditions could affect the performance.