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|---|-----------------|-----------------|-------------------|--|---|
| Ultrasonic Report | | Date | 3/30/2022 | Phone: 403-793-7697 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com |  |
| LSD | 01-18-017-18W4M | Facility | Armada Gas Plant | | |
| DH-LSD | | Field | Red Deer District | | |
| Jurisdiction # | A0408942 | | | | |
| Serial # | | | | | |
| Ultrasonic Report #: A#0408942_GRADY INSPECTION LTD VE UT INSP_31MAR2022 | | | | | |

| ULTRASONIC SET | | | COMPONENT DETAILS | | | | CODE | | | | | |
|-------------------|-----------------|---|-------------------|--------------|--------|-------|-----------|-------------|-----------------|-----------------|-----------|-----------|
| EQUIPMENT | CALIBRATION DUE | SERIAL NUMBER | MATERIAL GRADE | SURFACE PREP | | TEMP | THICKNESS | CALIBRATION | EVALUATION | | | |
| EPOCH 600 | 2/25/2023 | 120388107 | Carbon Steel | Painted | | 0C | | ASME V | ASME VIII Div 1 | | | |
| CALIBRATION BLOCK | | PROBE | | | | | | COUPLING | | METHOD | | |
| TYPE | SERIAL# | REF dB | SCAN dB | FREQ. | SIZE. | ANGLE | SERIAL # | TYPE | COUPLANT | CABLE | TECHNIQUE | PROCEDURE |
| 10 Step Metric | 14-2065 | 60 | 66 | 5 Mhz | 0.25 " | 0 | 15B00DU3 | Dual | UT-X | 6' BNC to Micro | LW Dual | UT01T1R4 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| SCOPE | | As requested by Dustin Rumohr an ultrasonic inspection was completed on the FUEL GAS SCRUBBER | | | | | | | | | | |
| | | | | | | | | | | | | |
| LIMITATIONS | | Previous ultrasonic inspection data not obtained by Grady Inspection Ltd. | | | | | | | | | | |
| RESULTS | | No corrosion was found with the ultrasonic inspection. | | | | | | | | | | |

| | | | | | | | |
|------------------------|---------------------------|------------------------|---------------|-------------------------|---|--|--|
| Technician Name | Certification Body | Certification # | Expiry | Technician Signature |  | | |
| 3 ToddM | CGSB | 9234 | | | | | |
| | | | | Client Name | | | |
| | | | | Client Signature | | | |

| | | | | | |
|---------------------------------------|-----------------|-----------------|-------------------|---|--|
| External Inspection - (Vessel) | | Date | 3/30/2022 | Phone:403-793-7697 |  |
| LSD | 01-18-017-18W4M | Facility | Armada Gas Plant | 8 Sarah King Crt E Brooks, Alberta, T1R 0J8 grady.rustebakke@gmail.com | |
| DH-LSD | | Field | Red Deer District | | |
| Jurisdiction # | | A0408942 | | | |

| | |
|----------------------------|--|
| Fit For Service: | Fit For Service. |
| Inspection Summary: | Vessel is in good visual condition. PSV due for service |
| Recommendations: | service PSV |

| External Inspection Items | G/F/P | Comments |
|----------------------------------|-------|--|
| General Condition: | Good | No notable mechanical damage, areas of wear/fretting, distortion, misalignment, or visible weld defects. |
| External Coating: | Good | Vessel is in good visual condition. Paint is intact and well adhered to the vessel. Vessel is indoors. |
| Insulation / Cladding: | N/A | Non insulated vessel |
| Nozzles, Piping and Connections: | Good | Number of nozzles repaded: Number of nozzles without repad: Nozzles and piping in good visual condition |
| Buried Vessels: | N/A | Above Ground |
| Ladders, Platforms and Walkways: | N/A | No attached ladder or platform |
| Foundations and Supports: | Good | Anchor bolts fully engaged Building is secure Concrete is intact with no visible deficiencies |
| Shell:. | Good | No notable mechanical damage, areas of wear/fretting, distortion, misalignment or visible weld defects. |
| Saddles / Skirts: | Good | Skirt is in good visual condition and securely anchored to concrete foundation. |
| Grounding: | Good | Ground Wire is secure Grounded through piping system |
| Gauges and Instrumentation: | Good | <div>Shell Gauge (0 - 300 @ 95 psi) Temp Gauge (- @)</div> <div>No temperature gauge found. Gauge is clear, colorless and correct for the MAWP.</div> |
| Pressure Protection: | Fair | The PSV Set Pressure (150 psi) is suitable for the MAWP (275 psi) PSV Due for Service, not yet exceeding six months or 10% of Interval AB 506 2014 11.4.1 Interval Deferral Notwithstanding the above, an inspection or PRV servicing interval may be deferred by the Inspector, without other approvals, based on a satisfactory review of the equipment history, when the period of time for which the item is to be deferred does not exceed 10 % of the inspection/servicing interval or six months, whichever is less. |
| NDE Summary: | Good | No corrosion was found with the ultrasonic inspection. |
| Manway Davits/Quick Closure: | N/A | No Manway |
| Nameplate: | Good | Nameplate is legible and readily accessible and securely affixed |

PSV Data

LSD

01-18-017-18W4M

FACILITY Armada Gas Plant

FIELD Red Deer District

Phone:403-793-7697

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
grady.rustebakke@gmail.com**GRADY**
INSPECTION LTD

| | | | |
|----------------------------|--|-----------------------------|--|
| UVL ID#: 14971B | | S N: CE-317427-31-KD | |
| Man: FARRIS | | Model: 2741U | |
| Set Press: 150 PSI | | Capacity: 311 SCFM | |
| Cold Diff: | | Back Press: PSI | |
| Size: 0.75 " FNPT | | X 1 " FNPT | |
| A#: | | | |
| Vessel SN: | | | |
| WO#: 612547 | | CRN: OG254.5C | |
| PO#: 8401034789 | | PO Line# | |
| IEVISION 3 07082014 QF-067 | | | |

| | | |
|---------------------------------|-------------------------|-----------|
| Serviced By: | UNIFIED VALVE GROUP LTD | 3/21/2016 |
| HUSKY ENERGY INC | | |
| ARMADA | | |
| 01-18-017-18W4M | | |
| Location: SOUTH 301 FUEL GAS | | |
| Cust. Id: 211927 / EQ# 66083770 | | |
| Cust. Ref #: | | |
| Cust. Centre#: | | |
| Cust. WO#: | | |



ASSOCIATED PRESSURE EQUIPMENT DATA

PV JUR/SER A0408942

SHELL

TUBE

MAWP

275

psi

PSV FIT FOR SERVICE STATEMENT

Fit For Service.

PSV STATIC DATA

MODEL 2741U

SERIAL CE-317427-31-KD

MANUFACTURER Farris

TAG 14971B

CRN OG254.5C

SEAL Y

SET PRES 150

psi

CAPACITY 311

SCFM

SERVICE DATE

3/21/2016

SERVICE COMPANY

Unified Valve Group

T/F

UV

NB

T

UV

NB

SIZE

B VALVE

CARSEAL

INLET

.75

N

OUTLET

1

N

PSV COMMENTS

Overview Photo

LSD 01-18-017-18W4M
Jur # A0408942
Serial #

Date

3/31/2022

FACILITY

Armada Gas Plant

FIELD

Red Deer District

Phone:403-793-7697

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GRADY
INSPECTION LTD



Nameplate



Overview



Pressure Gauge



Liquid Level

Phone:403-793-7697

FACILITY Armada Gas Plant

FIELD Red Deer District

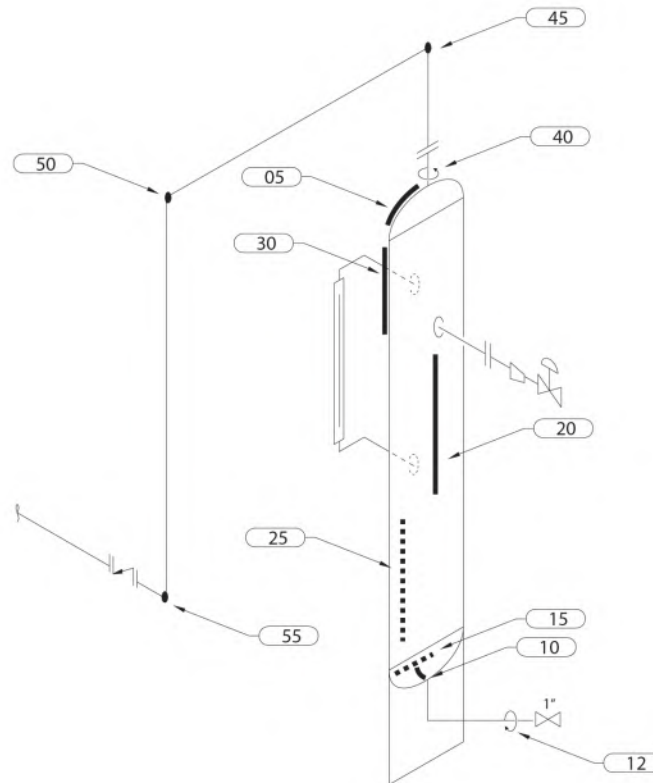
DWG 1

Location:

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
grady.rustebakke@gmail.com



| Ser # | Inspection Dates and Thickness Values (mm) | | | | | | | | | | | | | | | | | % | Corrosion Rates | | | Rem Life | Rem Life | Next | Insp |
|-------|--|--------|-------|-------|-------|--------|------|------|-----------|------|-----|----------|----------|----------|---------|------|---------|----|-----------------|-----|------|----------|-----------|-------|------------|
| CML# | Norm | CA/Tol | SFlag | STmin | PTmin | > Tmin | Comp | Type | Pipe Size | Code | MOP | Baseline | 3rd Last | 2nd Last | Last | # of | Norm | ST | LTn | LTi | Date | (yrs) | Insp Date | (yrs) | Inspection |
| | | | | | | | | | | | | Date | Min Ave | Date | Min Ave | Date | Min Ave | | Wall | | | | | | Comments |
| | | | | | | | | | | | | | | | | | Loss | | | | | | | | |



REPORT # A#0408942_GRADY INSPECTION LTD VE UT INSP_31MAR2022
LSD 01-18-017-18W4M FACILITY Armada Gas Plant
DH-LSD FIELD Red Deer District
Jur # A0408942 DWG 1 Location:
Ser #

Phone:403-793-7697

8 Sarah King Crt E Brooks, Alberta, T1R 0J8
grady.rustebakke@gmail.com



| Ser # | Inspection Dates and Thickness Values (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | % | Corrosion Rates | | | Rem | Rem | Insp | | Insp | Inspection |
|-------|--|--------|-------|-------|-------|--------|-------|------|--------------------|--------------|------|-----|----------|-----|----------|------|----------|----------|------|---------|------|------|------|------|------|------|-----------|-------|-----------|-----------------|----------------|--|-----|-----|------|--|------|------------|
| CML# | Nom | CA/Tol | SFlag | STmin | PTmin | > Tmin | Comp | Type | Pipe | Size | Code | MOP | Baseline | | 3rd Last | | 2nd Last | | Last | | # of | Nom | Loss | ST | LTn | LTi | Life | Life | Next | Int | Comments | | | | | | | |
| | | | | | | | | | | | | | Date | Min | Ave | Date | Min | Ave | Date | Min | Ave | Insp | Wall | | | | Date | (yrs) | Insp | (yrs) | | | | | | | | |
| 05 | 8.2 | 8.2 | 2.7 | | 2.7 | 2.7 | Head | | 8" STD 40--(8.2mm) | UG32HeadElli | 275 | | 9/23/15 | 8.8 | 9.0 | | | 11/28/17 | 10.2 | | | 3 | -4% | 0.39 | | 0.05 | | | 3/28/2032 | 10.0 | | | | | | | | |
| 10 | 8.2 | 8.2 | 2.7 | | 2.7 | 2.7 | Head | | 8" STD 40--(8.2mm) | UG32HeadElli | 275 | | 9/23/15 | 7.7 | 8.1 | | | 11/28/17 | 11.1 | | | 3 | 2% | | | | | | 3/28/2032 | 10.0 | Limited access | | | | | | | |
| 12 | 6.4 | 5.6 | 2.0 | 1.8 | 0.2 | 1.8 | Pipe | | 1" -- 160--(6.4mm) | API570 | 275 | | 3/31/22 | 6.1 | 6.4 | | | | | | | 1 | 5% | | 0.01 | | 1/26/2384 | | 3/28/2032 | 10.0 | | | | | | | | |
| 15 | 8.2 | 8.2 | 2.7 | | 2.7 | 2.7 | Head | | | UG32HeadElli | 275 | | 9/23/15 | 9.0 | 9.1 | | | | | 3/31/22 | 8.5 | 8.8 | 2 | -4% | 0.08 | | | | 3/28/2032 | 10.0 | Above skirt | | | | | | | |
| 20 | 8.2 | 8.2 | 5.4 | | 2.7 | 2.7 | Shell | | | UG27ShellInt | 275 | | 9/23/15 | 8.2 | 8.4 | | | 11/28/17 | 8.7 | | | 3 | 2% | 0.16 | | 0.03 | 1/11/2055 | | 3/28/2032 | 10.0 | | | | | | | | |
| 25 | 8.2 | 8.2 | 5.4 | | 2.7 | 2.7 | Shell | | | UG27ShellInt | 275 | | 9/23/15 | 8.2 | 8.3 | | | | | 3/31/22 | 7.3 | 8.0 | 2 | 11% | 0.14 | | 7/3/2055 | | 3/28/2032 | 10.0 | | | | | | | | |
| 30 | 8.2 | 8.2 | 5.4 | | 2.7 | 2.7 | Shell | | | UG27ShellInt | 275 | | 9/23/15 | 8.2 | 8.3 | | | 11/28/17 | 8.8 | | | 3 | 5% | 0.23 | | 0.06 | 4/29/2044 | | 3/28/2032 | 10.0 | | | | | | | | |