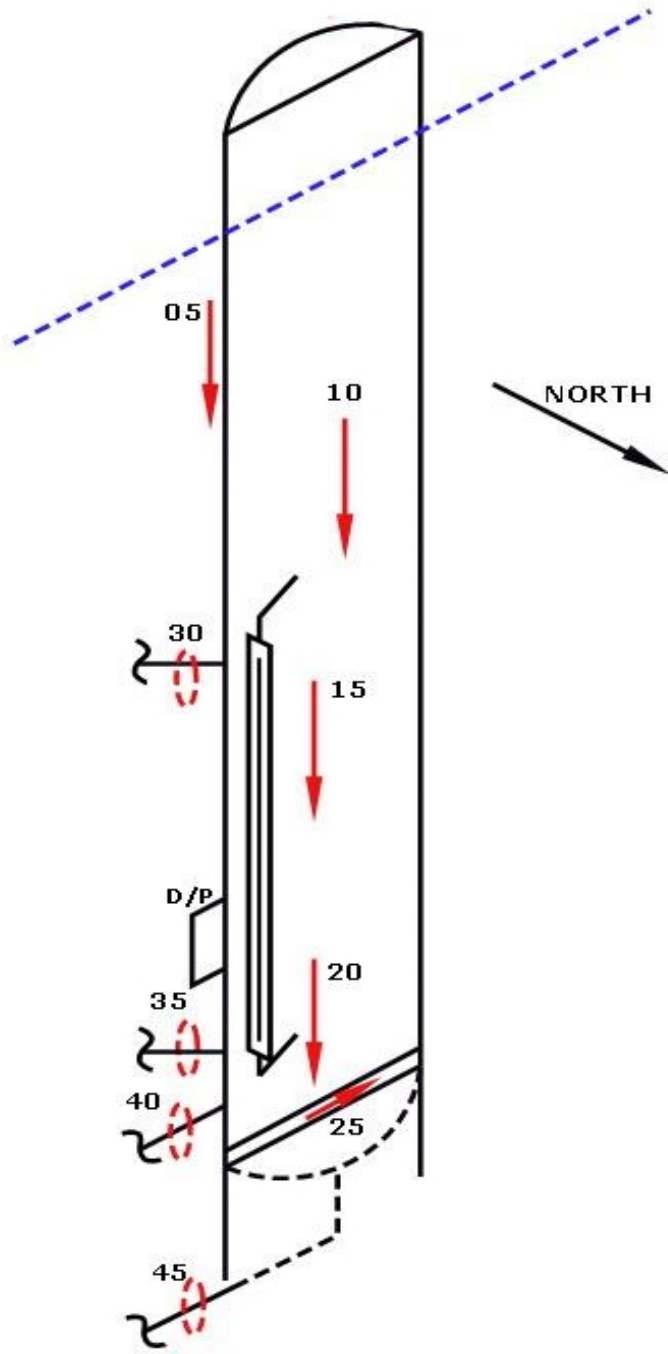




| | | | |
|-------------------------------|------------------------|--------------------------------|-------------------|
| Location Name: | RAVEN CREEK | LSD: | 02-20-050-18W5 |
| Jur #: | A0635841 | Equipment/Tag No. | 28165 |
| Equipment Description: | GLYCOL FLASH SEPARATOR | | |
| Manufacturer: | ENERFLEX | | |
| Serial Number: | E001004-02-01 | CRN: | V5083.2 |
| Shell MAWP: | 131 | KPA Shell Design Temp: | 903 °C |
| Tube MAWP: | | KPA Tube Design Temp: | °C |
| Shell Material: | SA-516-70N | Head Material: | SA-516-70N |
| Shell Thickness: | 9.53 | mm Head Thickness: | 9.53 mm |
| Corrosion Allowance: | 2.997 | mm Date Built: | 2014 |
| Size: | 609.6 | mm Pipe / Rolled Plate: | PLATE |
| RT: | 1 | Streamline Report #: | STL-190060-DMS 27 |

NOTES: SAP#66232230, No previous report









Ultrasonic Corrosion Survey

*All values are in millimeters unless otherwise stated.

Survey Name: Husky Energy

Date: Jan 30, 2019

Streamline Report #: STL-190060-DMS 27

Inspector: Colin Davies

| | | |
|----------------------------|----------------------------|--|
| LSD: 02-20-050-18W5 | Area: RAVEN CREEK | Location: FIELD |
| Jur #: A0635841 | Tag Number: 28165 | Vessel Name: GLYCOL FLASH SEPARATOR |
| CRN: V5083.2 | Year Built: 2014 | Serial Number: E001004-02-01 |
| RT: 1 | Vessel CA: 2.997 mm | Manufacturer: ENERFLEX |
| | Shell MAWP: 131 KPA | Tube MAWP: KPA |
| | MAWT: 903 °C | MAWT: °C |
| | | Pipe/Plate PLATE |

| | | | |
|------------------------------|----------------------------|---------------------|-----------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-516-70N |
| 00 HEAD | 2019 | CA | T Min |
| Shape: Ellipsoidal | Min | Flag 6.528 | STCR mm/yr 0.000 |
| OD: 609.6 | Avg | 2.997 | LTCR mm/yr 1.905 |
| Spec: ASME VIII Div.1 | Comments: NO ACCESS | Nominal 9.525 | Remaining Life: |
| | | | Retirement Date: |

| | | | |
|------------------------------|------------------|---------------------|-----------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-516-70N |
| 05 SHELL | 2019 | CA | T Min |
| Shape: Cylindrical | Min | Flag 6.528 | STCR mm/yr 0.000 |
| OD: 609.6 | Avg | 2.997 | LTCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: | Nominal 9.525 | Remaining Life: |
| | | | Retirement Date: |

| | | | |
|------------------------------|------------------|---------------------|-----------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-516-70N |
| 10 SHELL | 2019 | CA | T Min |
| Shape: Cylindrical | Min | Flag 6.528 | STCR mm/yr 0.000 |
| OD: 609.6 | Avg | 2.997 | LTCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: | Nominal 9.525 | Remaining Life: |
| | | | Retirement Date: |

| | | | |
|------------------------------|------------------|---------------------|-----------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-516-70N |
| 15 SHELL | 2019 | CA | T Min |
| Shape: Cylindrical | Min | Flag 6.528 | STCR mm/yr 0.000 |
| OD: 609.6 | Avg | 2.997 | LTCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: | Nominal 9.525 | Remaining Life: |
| | | | Retirement Date: |



Ultrasonic Corrosion Survey

*All values are in millimeters unless otherwise stated.

Survey Name: Husky Energy

Date: Jan 30, 2019

Streamline Report #: STL-190060-DMS 27

Inspector: Colin Davies

| | | |
|----------------------------|----------------------------|--|
| LSD: 02-20-050-18W5 | Area: RAVEN CREEK | Location: FIELD |
| Jur #: A0635841 | Tag Number: 28165 | Vessel Name: GLYCOL FLASH SEPARATOR |
| CRN: V5083.2 | Year Built: 2014 | Serial Number: E001004-02-01 |
| RT: 1 | Vessel CA: 2.997 mm | Manufacturer: ENERFLEX |
| | Shell MAWP: 131 KPA | Tube MAWP: KPA |
| | MAWT: 903 °C | MAWT: °C |
| | | Pipe/Plate PLATE |

| | | | |
|------------------------------|------------------|---------------------|-----------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-516-70N |
| 20 SHELL | 2019 | CA | T Min |
| Shape: Cylindrical | Min 10.41 | Flag 6.528 | Nominal 9.525 |
| OD: 609.6 | Avg 10.52 | | STCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: | | LTCR mm/yr 0.000 |
| | | | Remaining Life: |
| | | | Retirement Date: |

| | | | |
|------------------------------|------------------|---------------------|-----------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-516-70N |
| 25 HEAD | 2019 | CA | T Min |
| Shape: Ellipsoidal | Min 9.09 | Flag 6.528 | Nominal 9.525 |
| OD: 609.6 | Avg 9.88 | | STCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: | | LTCR mm/yr 0.086 |
| | | | Remaining Life: |
| | | | Retirement Date: |

| | | | |
|------------------------------|----------------------------------|---------------------|---------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-106-B |
| 30 NOZZLE | 2019 | CA | T Min |
| Shape: 360° Circ | Min 8.71 | Flag 5.715 | Nominal 8.712 |
| OD: 60.325 | Avg 8.89 | | STCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: ASSUMED NOMINAL | | LTCR mm/yr 0.000 |
| | | | Remaining Life: |
| | | | Retirement Date: |

| | | | |
|------------------------------|----------------------------------|---------------------|---------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-106-B |
| 35 NOZZLE | 2019 | CA | T Min |
| Shape: 360° Circ | Min 8.69 | Flag 5.715 | Nominal 8.712 |
| OD: 60.325 | Avg 9.04 | | STCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: ASSUMED NOMINAL | | LTCR mm/yr 0.005 |
| | | | Remaining Life: |
| | | | Retirement Date: |



Ultrasonic Corrosion Survey

*All values are in millimeters unless otherwise stated.

Survey Name: Husky Energy

Date: Jan 30, 2019

Streamline Report #: STL-190060-DMS 27

Inspector: Colin Davies

| | | |
|----------------------------|----------------------------|--|
| LSD: 02-20-050-18W5 | Area: RAVEN CREEK | Location: FIELD |
| Jur #: A0635841 | Tag Number: 28165 | Vessel Name: GLYCOL FLASH SEPARATOR |
| CRN: V5083.2 | Year Built: 2014 | Serial Number: E001004-02-01 |
| RT: 1 | Vessel CA: 2.997 mm | Manufacturer: ENERFLEX |
| | Shell MAWP: 131 KPA | Tube MAWP: KPA |
| | MAWT: 903 °C | MAWT: °C |
| | | Pipe/Plate PLATE |

| | | | |
|------------------------------|----------------------------------|---------------------|---------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-106-B |
| 40 NOZZLE | 2019 | CA | T Min |
| Shape: 360° Circ | Min 7.75 | Flag 4.623 | Nominal 7.620 |
| OD: 88.9 | Avg 8.28 | | STCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: ASSUMED NOMINAL | | LTCR mm/yr 0.000 |
| | | | Remaining Life: |
| | | | Retirement Date: |

| | | | |
|------------------------------|----------------------------------|---------------------|---------------------------|
| CML Description | Baseline | Flange ANSI: | Material: SA-106-B |
| 45 NOZZLE | 2019 | CA | T Min |
| Shape: 360° Circ | Min 8.66 | Flag 5.715 | Nominal 8.712 |
| OD: 60.325 | Avg 9.09 | | STCR mm/yr 0.000 |
| Spec: ASME VIII Div.1 | Comments: ASSUMED NOMINAL | | LTCR mm/yr 0.010 |
| | | | Remaining Life: |
| | | | Retirement Date: |