

FIRED HEATER INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 10, 2014 SAP Equipment ID: 66036373

| | 3D. 01-21-031 | 10110111 | | Date. oc | JL1 10, 2 | .011 | O/11 L0 | juipinent it | J. 0000 | 0070 | | |
|--|---------------|--------------|---------|-----------------------------|-------------|--------------------------|-----------|------------------------|-------------------|----------|-----------|---------|
| | | | | IEATER | STATIC | CDAT | Ά | | | | | |
| Plant | Ansell G | as Plant | Op Un | it | | · | | Syste | m | | | |
| Prov. Insp. # | n/a | | CRN | No | n-code | | | Equip | Equip Tag # F-360 | | | |
| Description | | Glycol | Reboile | r | | | | Serial | # | 5 | 413-70 | |
| Manufacturer Presson Manufacturing | | | | | | | Vesse | el Clas | S | | | |
| Internal Access: YES Description: Firetube flange | | | | | | Year | Built | 199 | 94 | | | |
| COIL #1 RADIANT DATA | | | | | | | | | | | | |
| MAWP | | kPa / P | SI | @ | | | °C / °F | MDM | Τ | | | °C / °F |
| CODE: | | Fluid Serv | ice | | | Sw | eet/Sour | PWH | Г: Ү | ES | NO | |
| Diameter | | Length (| (T/T) | mm/i | in O | AL | mm / in | Vertic | al | I | Horizonta | ıl |
| Coil Mat | ' 1 | | Thickr | ness | | | mm / in | Corr A | llowan | се | | mm / in |
| Operating Pressure kPa / PSI Operating Temperature °C / °F | | | | | | | | | | | | |
| COIL #2 CONVECTION DATA | | | | | | | | | | | | |
| MAWP kPa / PSI @ °C / °F | | | | | MDM | Τ | | | °C / °F | | | |
| CODE : | | Fluid Serv | ice | | | Sw | eet/Sour | PWH | Г: Ү | ES | NO | |
| Diameter | | Length (| (T/T) | T) mm/in OAL mm / in | | | Vertic | Vertical Horizontal | | | | |
| Coil Mat | .'1 | | Thickr | Thickness mm/in | | | Corr A | Corr Allowance mm / in | | | | |
| Operating Pro | essure | | kP | a / PSI | | | ting Tem | perature | ure °C / °F | | | |
| | | | | | TATIC L | | | | | | | |
| | Location | | et | Сара | acity | Manu | ıfacturer | Model / | Type | 5 | Service D | |
| Serial No. | | Pres | sure | SCFM/Lb GPM | os/Hr / | | | | | | Compa | ny |
| | | | | | , DET : : | | | | | | | |
| | - | /Thus - 1/=1 | | PSV | / DETAI | | I Dat' | | | <u> </u> | (| |
| DDD Inlat | Туре | (Thread/FI | ange) | | | ANS | I Rating | | | Siz | ze (mm) | |
| PRD Inlet | | | | | | | | | | | | |
| PRD Outlet | | | NII. | DE Equi | inmont | racara | de | | | | | |
| Procedure# | | | | DE Equ | Model# | ment records lodel# S | | | Serial# | | Due Da | ite |
| Procedure# Description Manufacturer | | | | | • | | - Ji idin | | | 240 20 | | |
| | l | | | | | | | | | | l | |

INSPECTION SUMMARY

A visual external inspection was conducted on reboiler. In plant 1 dehy building. Plant 1 down at time of inspection. Dataplate is on burner, secure and legible.

Top vessel – reboiler - 36" dia x 168" approx.. Insulated and clad, cladding in good condition. Some outer layer paint deterioration on firetube flange. Some cladding damage / denting on still column. Burner and stack appear to be in good condition.

Bottom vessel – accumulator – 24" dia x 168" approx. Painted, in good condition.

Vessel through wall seals intact. Reboiler welded to support structure, welded to skid floor, secure. Ground cable directly connected to reboiler support. All piping well supported and in good condition. Non code, atmospheric, no PSV found or required. UT inspection performed 2014 by Streamline Inspection.

Equipment list has SN 541370, but dataplate has SN 5413-70.

Vessel was found to be in good condition and fit for continued service.

RECOMMENDATIONS

Review UT survey results.

Change SN in database from SN 541370 to SN 5413-70.

NONCONFORMANCES / INSPECTION DEFICIENCIES

No deficiencies noted



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LSD: 07-27-051-19W5M Date: JULY 10, 2014 SAP Equipment ID: 66036373

INSPECTION PLANNING

| Inspection Strategy | | Availability | Inspection Interval |
|---------------------|---------------|----------------------|----------------------|
| Inspection Date | July 10, 2014 | Date of Last Inspect | Date of Next Inspect |
| | | - | |

REPORT CERTIFICATION

| | NLF ON I CLN | III ICATION | | | |
|--|---------------------------------|-----------------|---------------------|------------|-------------------|
| The signatures below certify that inspection | • | | with the identified | inspection | strategy and that |
| the specified equipment is considered fit | or service until the date of ne | ext inspection. | | | |
| Inspected by | Ed Tymensen | _ | \rightarrow | Date | July 10, 2014 |
| Company | Streamline Inspection | PESL # | 000711 | API# | 27479 |
| Reviewed and Approved by | | | | Date | |
| | | PESL # | | API# | |
| Criticality Assessment Rerun | | Inspection Pla | nning Rerun | | |
| Assessed Next Inspection Date | | | | | |



FIRED HEATER INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 10, 2014 SAP Equipment ID: 66036373

DETAILED INSPECTION VISUAL EXTERNAL

| Hot Ceneral Other (Please Explain) Good None noted | ID | Description | Condition | Location | NCR | Comments |
|--|-----|-----------------------------------|-----------|-----------------|-----|--|
| H02 | H01 | General Other (Please Explain) | Good | | | Overall |
| Hold Wibration N/a | | | n/a | | | |
| Hote Mibration Na | | | 1 | | | |
| HoS Platforms Na | | | | | | |
| Fresent and secure Fresent | | | n/a | | | |
| H21 Support Other (Please explain) Good Piping Well supported | | | Good | stand structure | | |
| H22 | H07 | Painting | | Firetube flange | | |
| H23 | H21 | | Good | Piping | | |
| H245 Silde Plates | | | Good | | | Steel support structure welded to skid floor |
| H25 | | Anchor Bolts | n/a | | | |
| H31 | | Slide Plates | n/a | | | |
| A | H25 | | 1 | | | |
| H33 Connecting Flanges Good Good Similar H34 Dissimilar Flange Rating Good All botting tight and secure, no corrosion of threads H35 Botting Good All botting tight and secure, no corrosion of threads H36 Inadequate Thread Engagement Good Adequate engagement H37 Small Branches Good Tubing No leakd or kinks H38 Reinforcing Pads n/a | H31 | | Good | | | |
| H34 Dissimilar Flange Rating Good Good All bolting tight and secure, no corrosion of threads Inadequate Thread Engagement Good All bolting tight and secure, no corrosion of threads Adequate engagement Adequate engagement Adequate engagement Adequate engagement No leakd or kinks | H32 | Nozzles | Good | | | No corrosion or damage |
| H35 | H33 | Connecting Flanges | Good | | | No leaks or corrosion |
| threads hadequate Thread Engagement Good Adequate engagement | H34 | Dissimilar Flange Rating | Good | | | Similar |
| H37 Small Branches Good Tubing No leakd or kinks H38 Reinforcing Pads n/a H39 Manways n/a H40 Davits n/a H41 Handholes n/a H51 Casing Other (Please Explain) n/a H52 Casing Thermographic Scan n/a H63 Insulation Damage Fair Reboiler (top) and still Insulated and clad Column Some cladding damage / denting H64 Insulation Damage Fair Still column Some cladding damage / denting H65 Insulation Jacket Fair Still column Some cladding damage / denting H66 Insulation Beals/Joints Good UT port cut out Coverplates in place H66 Insulation Seals/Joints Good Vessel through wall Seals intact H71 Vent or Stack Other (Please Good Stack Appears structurally sound Explain Appearance Appearance N/a H73 Vent or Stack Thermographic Scan N/a H74 Stack Thickness n/a H75 Vent or Stack Joints (Bolted Good Bolted Tight and secure H76 Guy Wires n/a H77 Lightning Rods n/a H80 Accessories and Attachments n/a H81 Blowdown Equipment n/a H85 Burners Good No concerns noted No concerns noted | H35 | Bolting | Good | | | threads |
| H38 | | | Good | | | Adequate engagement |
| H39 Manways | | | | Tubing | | No leakd or kinks |
| H40 Davits | H38 | Reinforcing Pads | n/a | | | |
| H41 Handholes n/a | H39 | Manways | n/a | | | |
| H51 Casing Other (Please Explain) n/a H52 Casing Thermographic Scan n/a H53 Surface Irregularities n/a H61 Insulation Other (Please explain) Fair Reboiler (top) and still Insulated and clad | | Davits | n/a | | | |
| H52 Casing Thermographic Scan n/a None noted H53 Surface Irregularities n/a None noted H64 Insulation Other (Please explain) Fair Reboiler (top) and still column Some cladding damage / denting H62 Insulation Damage Fair Still column Some cladding damage / denting H63 Insulation Penetrations Good UT port cut out Coverplates in place H64 Insulation Jacket Fair Still column Some cladding damage / denting H65 Insulation Banding n/a | H41 | | n/a | | | |
| H53 Surface Irregularities n/a Reboiler (top) and still Insulation Other (Please explain) Fair Reboiler (top) and still Insulated and clad | | | n/a | | | |
| H61 Insulation Other (Please explain) Fair Reboiler (top) and still Column Some cladding damage / denting | H52 | | n/a | | | |
| H62 | H53 | | n/a | | | None noted |
| H63 Insulation Penetrations Good UT port cut out Coverplates in place H64 Insulation Jacket Fair Still column Some cladding damage / denting H65 Insulation Banding n/a H66 Insulation Seals/Joints Good Vessel through wall Seals intact H71 Vent or Stack Other (Please Explain) H72 Vent or Stack Structural Good Stack Appears structurally sound Appearance H73 Vent or Stack Thermographic Scan H74 Stack Thickness n/a H75 Vent or Stack Joints (Bolted Connections) H76 Guy Wires n/a H77 Lightning Rods n/a H80 Accessories and Attachments (Please Explain) H82 Damper Linkages n/a H83 Regenerative Preheaters n/a H84 Blowdown Equipment n/a H85 Burners Good Nocentricuted Sond Vessel through wall Seals intact Appears structurally sound Appears structurally | H61 | Insulation Other (Please explain) | | column | | |
| H64Insulation JacketFairStill columnSome cladding damage / dentingH65Insulation Bandingn/aSeals intactH66Insulation Seals/JointsGoodVessel through wallSeals intactH71Vent or Stack Other (Please Explain)GoodStackAppears structurally soundH72Vent or Stack Structural AppearanceGoodStackAppears structurally soundH73Vent or Stack Thermographic Scann/aTight and secureH74Stack Thicknessn/aTight and secureConnections)GoodBoltedTight and secureH76Guy Wiresn/aTight and secureH77Lightning Rodsn/aTight and secureH80Accessories and Attachments (Please Explain)n/aTight and secureH81Damper Linkagesn/aTight and secureH83Regenerative Preheatersn/aTight and secureN/aNo concerns noted | | | Fair | | | |
| H65 Insulation Banding n/a | | | Good | | | |
| H66 Insulation Seals/Joints Good Vessel through wall Seals intact H71 Vent or Stack Other (Please Explain) Good Stack Appears structurally sound H72 Vent or Stack Structural Good Stack Appears structurally sound H73 Vent or Stack Thermographic Scan n/a Stack Thickness In/a H74 Stack Thickness n/a Insulation Structurally sound H75 Vent or Stack Thermographic Scan In/a Insulation Structurally sound H75 Vent or Stack Thermographic Scan In/a Insulation Structurally sound H76 Stack Appears structurally sound Bolted Tight and secure Tight and secure Tight and secure H77 Lightning Rods n/a H80 Accessories and Attachments (Please Explain) n/a H81 Damper Linkages n/a H82 Damper Linkages n/a H83 Regenerative Preheaters n/a H84 Blowdown Equipment n/a H85 Burners Good No concerns noted | | | Fair | Still column | | Some cladding damage / denting |
| H71 Vent or Stack Other (Please Explain) H72 Vent or Stack Structural Appearance H73 Vent or Stack Thermographic Scan H74 Stack Thickness H75 Vent or Stack Joints (Bolted Connections) H76 Guy Wires H77 Lightning Rods H80 Accessories and Attachments (Please Explain) H81 Damper Linkages H82 Blowdown Equipment H85 Burners H84 Blowdown Equipment H85 Burners H86 Accessories and Attachments (Good No concerns noted) H86 Accessories and Attachment (Please Explain) H87 Blowdown Equipment H88 Blowdown Equipment H88 Blowdown Equipment H89 Blowdown Equipment H89 Blowdown Equipment H80 Accessories and Attachment (Please Explain) H80 Blowdown Equipment H80 Blowdown Equipment H80 Blowdown Equipment H80 Blowdown Equipment H80 Accessories and Attachment (Please Explain) H80 Blowdown Equipment H80 Blowdown Equi | | | 1 | | | |
| Explain) H72 Vent or Stack Structural Appearance H73 Vent or Stack Thermographic Scan H74 Stack Thickness H75 Vent or Stack Joints (Bolted Connections) H76 Guy Wires H77 Lightning Rods H80 Accessories and Attachments (Please Explain) H82 Damper Linkages H84 Blowdown Equipment H85 Burners Good Stack Appears structurally sound Appears structura | | | | | | |
| Appearance H73 Vent or Stack Thermographic Scan H74 Stack Thickness n/a H75 Vent or Stack Joints (Bolted Connections) H76 Guy Wires n/a H77 Lightning Rods n/a H80 Accessories and Attachments (Please Explain) H82 Damper Linkages n/a H83 Regenerative Preheaters n/a H84 Blowdown Equipment n/a H85 Burners Good n/a n/a n/a No concerns noted | H71 | ` | Good | Stack | | Appears structurally sound |
| H73Vent or Stack Thermographic Scann/aH74Stack Thicknessn/aH75Vent or Stack Joints (Bolted Connections)GoodBoltedTight and secureH76Guy Wiresn/aH77Lightning Rodsn/aH80Accessories and Attachments (Please Explain)n/aH82Damper Linkagesn/aH83Regenerative Preheatersn/aH84Blowdown Equipmentn/aH85BurnersGoodNo concerns noted | H72 | | Good | Stack | | Appears structurally sound |
| H75 Vent or Stack Joints (Bolted Connections) H76 Guy Wires H77 Lightning Rods H80 Accessories and Attachments (Please Explain) H82 Damper Linkages H83 Regenerative Preheaters H84 Blowdown Equipment H85 Burners H85 Burners H86 Good H87 Bolted Tight and secure Tight and secure Tight and secure No a Tight and secure No a No Secure Tight and secure No a No Secure Tight and secure Tight and secure No a No Secure Tight and secure Tight and secure Tight and secure Tight and secure Tight and secure | H73 | Vent or Stack Thermographic | n/a | | | |
| H75 Vent or Stack Joints (Bolted Connections) H76 Guy Wires H77 Lightning Rods H80 Accessories and Attachments (Please Explain) H82 Damper Linkages H83 Regenerative Preheaters H84 Blowdown Equipment H85 Burners H85 Burners H86 Good H87 Bolted Tight and secure Tight and secure Tight and secure No a Tight and secure No a No Secure Tight and secure No a No Secure Tight and secure Tight and secure No a No Secure Tight and secure Tight and secure Tight and secure Tight and secure Tight and secure | H74 | Stack Thickness | n/a | | | |
| H76 Guy Wires n/a H77 Lightning Rods n/a H80 Accessories and Attachments (Please Explain) n/a H82 Damper Linkages n/a H83 Regenerative Preheaters n/a H84 Blowdown Equipment n/a H85 Burners Good No concerns noted | H75 | | Good | Bolted | | Tight and secure |
| H77 Lightning Rods n/a H80 Accessories and Attachments (Please Explain) H82 Damper Linkages n/a H83 Regenerative Preheaters n/a H84 Blowdown Equipment n/a H85 Burners Good No concerns noted | H76 | | n/a | | | |
| H80 Accessories and Attachments (Please Explain) H82 Damper Linkages n/a H83 Regenerative Preheaters n/a H84 Blowdown Equipment n/a H85 Burners Good No concerns noted | | | n/a | | | |
| H82 Damper Linkages n/a H83 Regenerative Preheaters n/a H84 Blowdown Equipment n/a H85 Burners Good No concerns noted | | Accessories and Attachments | n/a | | | |
| H83 Regenerative Preheaters n/a H84 Blowdown Equipment n/a H85 Burners Good No concerns noted | H82 | | n/a | | | |
| H84 Blowdown Equipment n/a H85 Burners Good No concerns noted | | | n/a | | | |
| H85 Burners Good No concerns noted | | | n/a | | | |
| | | | Good | | | No concerns noted |
| | | Related equipment | n/a | | | |
| | | | | | | |
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FIRED HEATER INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 10, 2014 SAP Equipment ID: 66036373

DETAILED INSPECTION VISUAL INTERNAL

| ID | Description | Condition | Location | NCR | Comments |
|-----|-----------------------------------|-----------|----------|-----|----------|
| H01 | General Other (Please Explain) | n/a | | | |
| H02 | Corrosion | n/a | | | |
| H03 | Leaks | n/a | | | |
| H04 | Tubes | n/a | | | |
| H05 | Tube Supports | n/a | | | |
| H06 | Firebox | n/a | | | |
| H07 | Vent or Stack | n/a | | | |
| H21 | Connections Other (Please | n/a | | | |
| | explain) | , | | | |
| H22 | Bolting | n/a | | | |
| H23 | Fittings | n/a | | | |
| H24 | Openings | n/a | | | |
| H31 | Accessories Other (Please | n/a | | | |
| | Explain) | | | | |
| H32 | Burners | n/a | | | |
| H33 | Damper | n/a | | | |
| H34 | Soot Blower | n/a | | | |
| H41 | Insulation Other (Please Explain) | n/a | | | |
| H42 | Refractory | n/a | | | |
| H43 | Insulation or Lining | n/a | | | |

DETAILED INSPECTION OTHER TECHNIQUES

| ID | Location | Observation/Measurement | Acceptance Criteria | NCR | Comments |
|----|----------|-------------------------|---------------------|-----|----------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

DETAILED INSPECTION TUBE INSPECTION

| Tube # | Flaw Type | Flaw Length | Location on Tube | Wall Loss | NCR | Comments |
|--------|-----------|-------------|---------------------|--------------|-----|----------|
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DETAILED INSPECTION UT THICKNESS

| CML | Nom. Thk | Current Reading | Short Term Corr Rate | Long Term Corr Rate | Remaining Life | Comments |
|-----|-------------|--------------------|-------------------------|------------------------|-------------------|----------|
| | | | | | | |
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FIRED HEATER INSPECTION REPORT

LSD: 07-27-051-19W5M Date: JULY 10, 2014 SAP Equipment ID: 66036373

PHOTOS





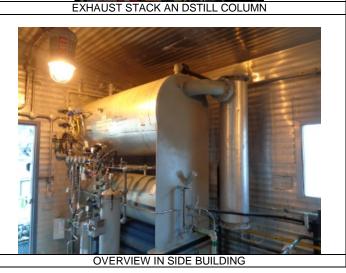
LSD sign





OVERVIEW





Husky Energy

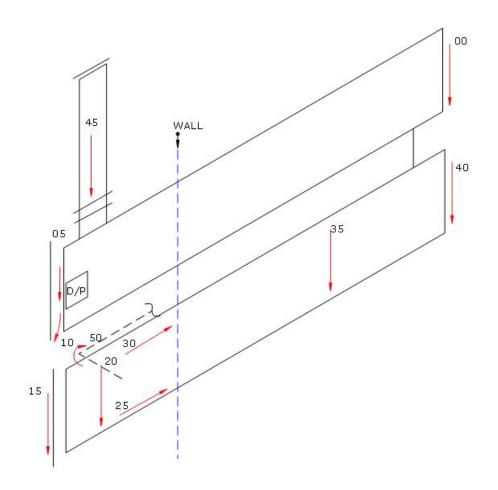
| Location Name: | ANSELL GAS PLANT | LSD: | 07-27-051-19W5 |
|-------------------------------|--------------------|---------------------|----------------|
| A#: | N/A | Equipment/Tag No. | F-360 |
| Equipment Description: | DEHY GLYCOL SYSTEM | Serial Number: | 5413-70 |
| | | CRN: (or other ID#) | N/A |
| MAWP: | N/A | Design Temp: | N/A |
| Shell Material: | N/A | Head Material: | N/A |
| Shell Thickness: | N/A | Head Thickness: | N/A |
| Corrosion Allowance: | N/A | Date Built: | 1994 |
| Size: | 20" | Manufacturer: | PRESSON |

Notes:





Husky Energy





Husky Energy







Spec: ASME VIII Div.1

Comments:

Ultrasonic Corrosion Survey

Survey Name: Husky Energy Date: Jul 11, 2014

Inspector: C. Graham

Retirement Date:

LSD: 07-27-051-19W5 **Area:** Ansell **Location:** Gas Plant

A #: Tag Number: F-360 Vessel Name: Dehy Glycol Systems

CRN: Year Built: 1994 Serial Number: 5413-70
Vessel CA: mm Manufacturer: Presson

Shell MAWP: MAWTF: Tube MAWP: MAWTF:

| TML De | escription | | Baseline | | | | Material: | Unknown |
|--------|-----------------|-----------|----------|------|-------|---------|-----------|------------------|
| 00 | Head | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Flat | Min | 9.630 | | 0.000 | | | |
| OD: | 20" | Avg | 9.730 | | | | | Remaining Life: |
| Spec: | ASME VIII Div.1 | Comments: | | | | | | Retirement Date: |
| TML De | escription | | Baseline | | | | Material: | Unknown |
| 05 | Head | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Flat | Min | 6.860 | | 0.000 | | | |
| OD: | 20" | Avg | 6.930 | | | | | Remaining Life: |
| Spec: | ASME VIII Div.1 | Comments: | | | | | | Retirement Date: |
| TML De | escription | | Baseline | | | | Material: | Unknown |
| 10 | Head | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Flat | Min | 6.580 | | 0.000 | | | |
| OD: | 20" | Avg | 6.650 | | | | | Remaining Life: |
| Spec: | ASME VIII Div.1 | Comments: | | | | | | Retirement Date: |
| TML De | escription | | Baseline | | | | Material: | Unknown |
| 15 | Head | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Flat | Min | 9.680 | | 0.000 | | | |
| OD: | 20" | Avg | 9.800 | | | | | Remaining Life: |
| | | | | | | | | |



Comments:

Spec: ASME VIII Div.1

Ultrasonic Corrosion Survey

Survey Name: Husky Energy Date: Jul 11, 2014

Inspector: C. Graham

Retirement Date:

Location: Gas Plant LSD: 07-27-051-19W5 Area: Ansell

Dehy Glycol Systems Tag Number: F-360 A #: Vessel Name:

CRN: Year Built: Serial Number: 5413-70 1994 Manufacturer: Presson **Vessel CA:** mm

> **Shell MAWP: MAWTF: Tube MAWP: MAWTF:**

| TML De | scription | | Baseline | | | | Material: | Unknown |
|--------|-----------------|-----------|----------|------|-------|---------|-----------|------------------|
| 20 | Shell | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Cylindrical | Min | 7.060 | | 0.000 | | | |
| OD: | 20" | Avg | 7.340 | | | | | Remaining Life: |
| Spec: | ASME VIII Div.1 | Comments: | | | | | | Retirement Date: |
| TML De | scription | | Baseline | | | | Material: | Unknown |
| 25 | Shell | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Cylindrical | Min | 7.040 | | 0.000 | | | |
| OD: | 20" | Avg | 7.060 | | | | | Remaining Life: |
| Spec: | ASME VIII Div.1 | Comments: | | | | | | Retirement Date: |
| TML De | scription | | Baseline | | | | Material: | Unknown |
| 30 | Shell | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Cylindrical | Min | 7.090 | | 0.000 | | | |
| OD: | 20" | Avg | 7.140 | | | | | Remaining Life: |
| Spec: | ASME VIII Div.1 | Comments: | | | | | | Retirement Date: |
| TML De | scription | | Baseline | | | | Material: | Unknown |
| 35 | Shell | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Cylindrical | Min | 7.010 | | 0.000 | | | |
| OD: | 20" | Avg | 7.160 | | | | | Remaining Life: |



Spec: ASME VIII Div.1

Comments:

Ultrasonic Corrosion Survey

Survey Name: Husky Energy Date: Jul 11, 2014

Inspector: C. Graham

Retirement Date:

LSD: 07-27-051-19W5 Area: Ansell Location: Gas Plant

A #: Tag Number: F-360 Vessel Name: Dehy Glycol Systems
CRN: Year Built: 1994 Serial Number: 5413-70

Year Built: 1994 Serial Number: 5413-70
Vessel CA: mm Manufacturer: Presson

Shell MAWP: MAWTF: Tube MAWP: MAWTF:

| TML De | escription | | Baseline | | | | Material: | Unknown |
|--------|-----------------|-----------|----------|-------|-------|---------|-----------|------------------|
| 40 | Head | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Flat | Min | 9.530 | | 0.000 | | | |
| OD: | 20" | Avg | 9.580 | | | | | Remaining Life: |
| Spec: | ASME VIII Div.1 | Comments: | | | | | | Retirement Date: |
| TML De | escription | | Baseline | | | | Material: | A-234-WPB |
| 45 | Shell | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | Gas Boot | Min | 6.150 | 5.556 | 0.794 | 6.350 | | |
| OD: | 12.75" | Avg | 6.300 | | | Assumed | | Remaining Life: |
| Spec: | ASME B31.3 | Comments: | | | | | | Retirement Date: |
| TML De | escription | | Baseline | | | | Material: | A-234-WPB |
| 50 | Nozzle | | 2014 | Flag | CA | Nominal | T Min | Corr. Rate |
| Shape: | 90° Elbow | Min | 5.490 | 4.801 | 0.686 | 5.486 | | |
| OD: | 3.5" | Avg | 5.770 | | | Assumed | | Remaining Life: |