

#### Column External Visual Inspection Report

| _       | Organi  | zation: | Husky         |                     |          | Inspection Date: 06/05/2010 12:00:00AM |               |       |              |            |            |   |  |
|---------|---------|---------|---------------|---------------------|----------|--|---------------|-------|--------------|------------|------------|---|--|
|         |         | Plant:  | Foothills     |                     |          | Equi                                   | ipment ID: 6  | 60681 | 39           |            |            |   |  |
|         |         |         |               |                     |          |  | Asset No: 6   | 60681 | 39           |            |            |   |  |
|         |         |         |               |                     |          |  | System: 0     | 0001  | Galloway Gas | Plant 12   | -05-054-20 | ) |  |
|         |         |         |               |                     |          | Operating Unit: FH-FW-014 Galloway     |               |       |              |            |            |   |  |
|         |         |         |               |                     |          |  | #046          | 581   | 1            |            |            |   |  |
| Back    | groun   | ıd      |               |                     |          |  | 11 - 1        |       |              |            | V-9.       |   |  |
| Descri  | ption:  | Tov     | ver, Stabiliz | zer                 |          |  |               |       |              |            |            |   |  |
| Asset ' | Гуре:   |         |               |                     |          |  |               |       |              |            |            |   |  |
| Inspec  | tor:    | Bob M   | larchak       |                     | Compar   | mpany: Husky Energy                    |               |       |              |            | Insulated: | N |  |
| Exter   | nal Lo  | ocatio  | n Catego      | ories               |          |  |               |       |              |            |            |   |  |
| Barrie  | Penetra | itions: |               | Damaged Insulation: |          | Vess                                   | sel Supports: |       |              | Insulation | n Rings:   |   |  |
|         |         |         |               | 4                   |          |  |               |       |              |            |            |   |  |
| nspe    | ction   | Comr    | nents         |                     |          |  |               |       |              |            |            |   |  |
| ID      | Descri  | ption   |               |                     | Conditio | n                                      | Location      | NCR   | Comments     |            |            |   |  |
|         |         |         |               |                     |          | _                                      |               |       |              |            |            |   |  |
|         |         |         |               |                     |          |  |               |       |              |            |            |   |  |

#### **Inspection Summary**

An external visual and ultrasonic thickness survey was carried out to determine the integrity of the condensate stabilizer tower. The nameplate is attached and legible with A# 465811 stamped on it. The tower is insulated and the insulation is in good condition with no tears or open seams noted. The roof seal at the vessel and piping penetrations are in good condition with no open areas noted.

The tower is protected by a PSV that is located on the piping. PSV data:

Serial# 437853-1-A11 Size: 38.1 mm x 76.2 mm, Set Pressure: 1586 kpa, Capacity: 102.6 m3/min, Manufacturer: Farris, Last Service Date: 06/2006.

The bottom head is welded to the skirt which is securely bolted to the skid floor. The skid is grounded. The tower appears to be level. There are no leaks noted and the level gauges appear to be in good working condition.

The overall condition of the condensate stabillizer tower is good and it is acceptable for continued service.

The external and internal inspection interval is to be set at 5 years as per ABSA AB-506 grade 2.

The PSV service interval is to be set at 5 years as per ABSA AB-506 grade 2.

Print date/time: 21/05/2010 6:18:29AM Page 1 of 2

## Column External Visual Inspection Report

| Inspection Planning  |  |
|--|--|
| Date of Inspection: May 6, 2010 Date of last Inspection:   | Date of Next Inspection: 05/2015               |
| The signature below certify that the above is a true report of the inconsider fit for service until the date of next inspection. | spection / test of the equipment specified and |
| Competent Inspector:   | Report Generation Date: Way 21, 2010           |
| Reviewed and Accepted by:  |  |
| Next Inspection Date: 05/2015  |  |
| Approved by:   |  |
| Signature:   | Date: May 21, 2010                             |
| Signature:   | Date:  |

Print date/time: 21/05/2010 6:18:29AM

EquipmentID: 66068139

Page 2 of 2

## NDE Report Column



| Organization: Husky | EquipmentID: 66068139                              |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|
| Plant: Foothills    | System ID: 00001 Galloway Gas Plant 12-05-054-20W5 |  |  |  |  |  |
|                     | Unit Name: FH-FW-014 Galloway                      |  |  |  |  |  |

#### **Background**

| Description: | Tower, Stabilizer |
|--------------|-------------------|
| Asset Type:  | Column            |

#### **Summary**

| Component | Short Term Avg. | Long Term Avg. | Remaining |  |  |  |
|-----------|-----------------|----------------|-----------|--|--|--|
| Type      | Corrosion Rate  | Corrosion Rate | Life      |  |  |  |
|           |                 |                |           |  |  |  |

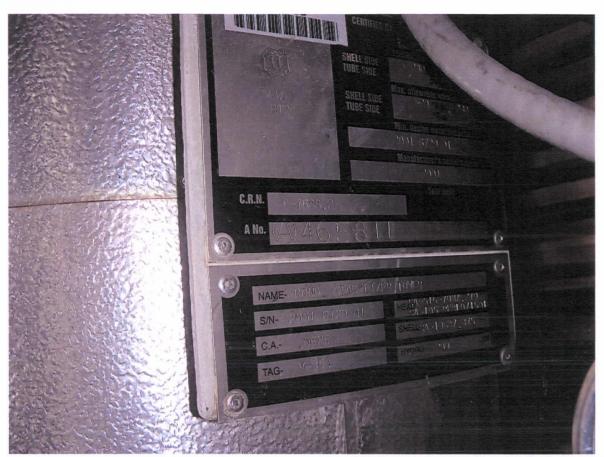
#### NDE

| Inspection<br>Location | Location<br>Description | Component<br>Type | Status | Nominal<br>Thickness | Minimum<br>Thicknes | Initial<br>Reading | Initial<br>Date | Previous<br>Rdg | Previous<br>Date | Current<br>Reading | Current<br>Date | ST CR   | LT CR   | Remain<br>Life |
|------------------------|-------------------------|-------------------|--------|----------------------|---------------------|--------------------|-----------------|-----------------|------------------|--------------------|-----------------|---------|---------|----------------|
| 005                    | Head Btm                | Bottom            | Active | 6.86                 | 3.20                | 6.86               | 01/01/2001      | 6.86            | 01/01/2001       | 10.34              | 06/05/2010      | -0.3723 | -0.3723 |                |
| 010                    | Shell Btm North         | Bottom            | Active | 9.53                 | 3.20                | 9.53               | 01/01/2001      | 9.53            | 01/01/2001       | 10.95              | 06/05/2010      | -0.1519 | -0.1519 |                |

## NDE Report Column

| Inspection Planning   |                                       |
|---|---------------------------------------|
| Date of Inspection:  May 6, 2010  Date of last Inspection:  | Date of Next Inspection:  05/2015     |
| The signature below certify that the above is a true report of the inspection / test of t consider fit for service until the date of next inspection. | he equipment specified and            |
| Competent Inspector:  | Report Generation Date:  May 21, 2010 |
| Reviewed and Accepted by:   |                                       |
| Next Inspection Date: 05/2015   |                                       |
| Approved by:  |                                       |
| Signature:  | Date: May 21, 2010                    |
| Signature:  | Date:                                 |

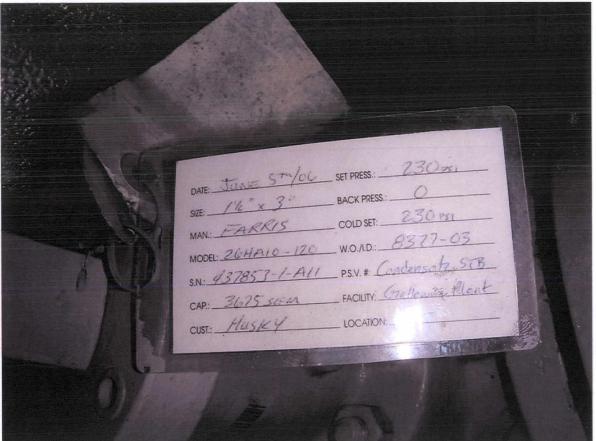
# Condensate Stabilizer Tower SAP# 66068139, A# 465811 12-05-054-20W5M Galloway Gas Plant





# Condensate Stabilizer Tower SAP# 66068139, A# 465811 12-05-054-20W5M Galloway Gas Plant



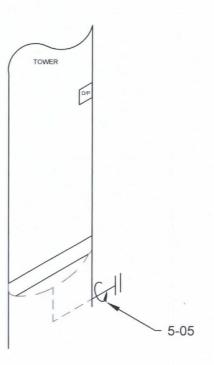


**TOWER CONDY STABILIZER DRAIN PIPING** ITEM:

A 0465811







STETTLER, AB (403) 742-4868

BROOKS, AB GRANDE PRAIRIE, AB (866) 422-9732 TECHNICIAN:

STEPHEN KEELEY SNT LEVEL I CGSB 48.9712 LEVEL I # 12288

06/20/07 DATE:

DWG#

5

**GALLOWAY GAS PLANT** 

**HUSKY ENERGY** CLIENT:

(403) 782-7855 (403) 501-8029

LSD: 12-05-054-20-W5M

INSPECTOR: JEFF CRABBE LOCATION:

FH-FW **DISTRICT UNIT:** 

BLDG/SKID: PROCESS: SWEET

CODE: ASME SEC VIII DIV 1

SPECIFICATION: AS PER ASME SE 797

TECHNIQUE: UT-1-1, REV. 1

METHOD: UT CONTINUOUS / A SCAN

SURFACE COND: PAINTED SURFACE TEMP: **AMBIENT** 

#### **VESSEL INFORMATION**

A 0465811 VESSEL #: CRN #: P7688.2 SERIAL #: 2001 672901 MANUFACTURER: ALCO GAS & OIL DATE BUILT: 2001 CLIENT ID / TAG: 052139 M.A.W.P. : 230 PSI (50 PSI ON PIPING)

M.A.W.T. : 294 °F JOINT EFFICIENCY/RT: N/A

STRESS RELIEVED: N/A INSULATED: YES

MANWAY:

#### **VESSEL SPECIFICATIONS**

NO

|              | OD | NOMINAL | MATERIAL | CA |
|--------------|----|---------|----------|----|
| VESSEL HEAD  | -  | NOMINAL | MATERIAL | CA |
| VESSEL SHELL |    | -       | -        | _  |
|              | -  | -       | -        | -  |
| BOOT HEAD    | -  | -       | -        | -  |
| BOOT SHELL   | -  | -       |          | -  |

COMMENTS:

NO ACCESS TO BOTTOM 90° NOZZLE

PROJECT:

C2620



#### **ULTRASONIC CORROSION SURVEY**

Survey Name: HUSKY ENERGY

Survey Date:

6/20/07

LSD:

12-05-054-20W5 Dwg: 5

Vessel Number: A0465811

Manufacturer: ALCO GAS & OIL

Inspector:

JEFF CRABBE

District Unit:

FH-FW

Vessel Name:

TOWER CONDY STABILIZER DRAIN - PIPING

Serial Number: 2001672901

Process:

**SWEET** 

Location:

**GALLOWAY GAS PLANT** 

Year Built:

CRN:

2001

P7688.2

Shell MAWP PSI: 230

MAWT F: 294

C2620

Tube MAWP PSI: 50

MAWT F: 294

Project #:

Skid:

Tag Number: 052139

Vessel CA:

0.0000

|          |             |            |          |       |       | Readings |       |       |         |       |               |               |         |        | Recommende |                                |                    |
|----------|-------------|------------|----------|-------|-------|----------|-------|-------|---------|-------|---------------|---------------|---------|--------|------------|--------------------------------|--------------------|
| Band     | Description |            |          | 1     | 2     | 3        | 4     | 5     | 5 6     | Year  | Avg<br>Inches | Min<br>Inches | Nominal | CA     | TMIN       | Recommended<br>Next Inspection | Retirement<br>Date |
| 5-05     |             | Nozzle     | Baseline | 0.343 | 0.343 | 0.343    | 0.343 | 0.346 | 0.345   | 2007  | 0.344         | 0.343         | 0.3430  | 0.0000 | 0.0115     | 2008                           | 2027               |
| Shape    | Cylindrical | Shell Side | Previous |       |       |          |       |       |         |       |               |               | Comme   | ents>  |            |                                |                    |
| OD       | 2.375       |            | Current  | 0.343 | 0.343 | 0.343    | 0.343 | 0.346 | 0.345   | 2007  | 0.344         | 0.343         |         |        |            |                                |                    |
| Spec.    | VIII Div 1  |            |          |       |       |          |       |       | ST Los  | s MPY |               |               | OK      |        |            |                                |                    |
| Material | SA 106 - B  |            |          |       |       |          |       |       | LT Los  | s MPY | 0.000         |               |         |        |            |                                |                    |
| 5-10     |             | Piping     | Baseline | 0.150 | 0.154 | 0.153    | 0.150 | 0.159 | 0.160   | 2007  | 0.154         | 0.150         | 0.1540  | 0.0192 | 0.0030     | 2008                           | 2027               |
| Shape    | 90° Elbow   | Tube Side  | Previous |       |       |          |       |       |         |       |               |               | Comme   | ents>  |            |                                |                    |
| OD       | 2.375       |            | Current  | 0.150 | 0.154 | 0.153    | 0.150 | 0.159 | 0.160   | 2007  | 0.154         | 0.150         |         |        |            |                                |                    |
| Spec.    | B31.3       |            |          |       |       |          |       |       | ST Loss | S MPY |               |               | OK      |        |            |                                |                    |
| Material | A 234 - WPB |            |          |       |       |          |       |       | LT Los  | s MPY | 0.000         |               |         |        |            |                                |                    |
| 5-15     |             | Piping     | Baseline | 0.154 | 0.155 | 0.157    | 0.157 | 0.156 | 0.154   | 2007  | 0.156         | 0.154         | 0.1540  | 0.0192 | 0.0030     | 2008                           | 2027               |
| Shape    | Cylindrical | Tube Side  | Previous |       |       |          |       |       |         |       |               |               | Comme   | ents>  |            |                                |                    |
| OD       | 2.375       |            | Current  | 0.154 | 0.155 | 0.157    | 0.157 | 0.156 | 0.154   | 2007  | 0.156         | 0.154         |         |        |            |                                |                    |
| Spec.    | B31.3       |            |          |       |       |          |       |       | ST Loss | MPY   |               |               | OK      |        |            |                                |                    |
| Material | A 106 - B   |            |          |       |       |          |       |       | LT Los  | s MPY | 0.000         |               |         |        |            |                                |                    |
| 5-20     |             | Piping     | Baseline | 0.164 | 0.160 | 0.168    | 0.169 | 0.169 | 0.168   | 2007  | 0.166         | 0.160         | 0.1790  | 0.0224 | 0.0016     | 2008                           | 2027               |
| Shape    | Cylindrical | Tube Side  | Previous |       |       |          |       |       |         |       |               |               | Comme   | ents>  |            |                                |                    |
| OD       | 1.315       |            | Current  | 0.164 | 0.160 | 0.168    | 0.169 | 0.169 | 0.168   | 2007  | 0.166         | 0.160         |         |        |            |                                |                    |
| Spec.    | B31.3       |            |          |       |       |          |       |       | ST Loss | MPY   |               |               | OK      |        |            |                                |                    |
| Material | A 106 - B   |            |          |       |       |          |       |       | LT Los  | s MPY | 0.000         |               |         |        |            |                                |                    |

Dwg: 5 Page 93 of 109

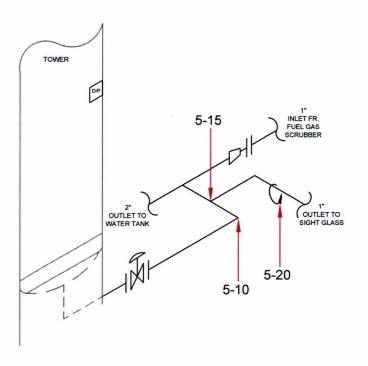
Project #: C2620

Survey Date: 6/20/07

ITEM:

#### **TOWER CONDY STABILIZER DRAIN - PIPING** A 0465811







STETTLER, AB LACOMBE, AB BROOKS, AB

(403) 742-4868 (403) 782-7855 (403) 501-8029 GRANDE PRAIRIE, AB (866) 422-9732 TECHNICIAN:

STEPHEN KEELEY SNT LEVEL I CGSB 48.9712 LEVEL I # 12288

06/20/07 DATE:

DWG#

5A

CLIENT:

**HUSKY ENERGY** 

LSD:

12-05-054-20-W5M

INSPECTOR:

JEFF CRABBE

**LOCATION: DISTRICT UNIT:**  GALLOWAY GAS PLANT

**BLDG/SKID:** 

FH-FW

PROCESS:

CODE:

SWEET

**ASME B31.3** AS PER ASME SE 797

SPECIFICATION: **TECHNIQUE:** 

UT-1-1, REV.1

METHOD:

UT CONTINUOUS / A SCAN

**SURFACE COND:** 

PAINTED

**SURFACE TEMP:** 

**AMBIENT** 

#### **PIPING INFORMATION**

| PIPING ID | CITE   | ecu. | ном   | M.A.W.P. |          | EL ANGE |
|-----------|--------|------|-------|----------|----------|---------|
| PIPING ID | SIZE   | 36H  | NOM   |          | (VESSEL) |         |
| 5-10      | 2.375" | 40   | .154" | 50 PSI   | 294 °F   | 150     |
| 5-15      | "      |      | "     |          | "        | "       |
| 5-20      | 1.315" | XS   | .179" | "        |          | "       |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |
|           |        |      |       |          |          |         |

COMMENTS:

NO ACCESS TO BOTTOM 90° NOZZLE

PROJECT: C2620

## Husky Energy TU# 66 0 68 13 9 PRESSURE VESSEL INSPECTION REPORT

N# 6044035

PAGE: 1 of 1

Gallaway Gas Plant | DATE FACILITY May 12, 2005 **REPORT #** IR050512MCSi VESSEL STATIC DATA A 0465811 Prov. Insp. # CRN P-7688.2 Equip Tag # Equipment Location (LSD) 12-05-54-20 W5M Serial # 2001-6729-01 **Equipment Description Condensator Stabilizer Tower** Vessel Class **ALCO Gas&Oil Production Equipment Ltd. Edmonton** Year Built 2001 Manufacturer °C **MAWP** °C -29 1586 **KPaq** @ 145 **MDMT** CODE: UM U⊠ U2 🗌 RT: 1 🗌 2 ⊠ 3 □ 4 🖂 PWHT: YES □ NO 🏻 (T/T) 480in OAL Vertical Diameter 20 in OD Length M Horizontal Mm/in (estimated) SA-106B 0.375 in Corr Allowance 0.0625 in Shell Mat'l Thickness in in SA-516-70N Head Mat'l Thickness 0.270 Corr Allowance 0.0625 Mm/i Corr Allowance Mm/in Nozzle Mat'l N/A **Thickness** Internal Coating: YES □ NO ☒ Internal Clad: YES 🗌 NO 🛛 Capacity m3 YES  $\square$ Skirt 🖂 Manway: NO  $\square$ Inspection Port: YES ⋈ NO □ Legs [ Saddle Ib ANSI Nozzle Rating 150 Painted: YES □ NO 🏻 Insulated YES ⊠ NO □ PROCESS DATA Sweet Sour PPM: **Product Description** Glycol/Gas °C KPag **Operating Pressure** Operating Temperature 100 **PSV STATIC DATA** Size Set Manufacturer Service Tag / Location Capacity Model Serial No. Inlet Outlet Pressure / Type Date 3675scfm air 11/01 Tag# PSV-350 Shell 1.5 in 3 in 1586 kPa Farris Eng. 26HA10-S#487853-1-A11 120 **INSPECTION HISTORY RBI** Category A B C D Last Inspection Date W.O. # Inspection Type Planned Inspection Inspection Task List # Inspection Reason VE / UT Inspection Techniques Required Next Inspection Type VE / UT **Due Date** 2010 **Outstanding Repairs INSPECTION SUMMARY** Complete Visual External Inspection as per API 510 UT Corrosion Survey as per Husky Energy Asset Integrity Program, Section IBP-007 No notable defects were observed; the vessel is recommended fit for service. RECOMMENDATIONS Check the Ground Cable Connection and install one if deemed necessary. REPAIRS COMPLETED Repair Activity Object Name Cause Damage There are no repairs required at this time **VESSEL STATUS Integrity Status** Suitable for Continued Service Immediate Repairs Required Replace Future Repairs Required ☐ Scrap Idle ☐ Surplus **Inventory Status** In service Fully Utilized This IR completes a thorough inspection. Reschedule as indicated Partial IR only. Do not reschedule

Husky Energy PRESSURE VESSEL INSPECTION REPORT PAGE: 2 of 2 FACILITY Gallaway Gas Plant DATE May 12, 2005 REPORT # IR050512MCSi INSPECTION OBSERVATIONS NONCOMPLIANCES OR INSPECTION DEFICIENCIES ISSUED None EXTERNAL VISUAL INSPECTION The Name Plate is present and readable. The skirt support is painted; the paint appears to be in good condition. The skirt support appears to be in good condition, no distortions were noted, the fillet welds appeared to be of good quality. No Ground Cable Connection was present on the Tower or on the skid. The Tower is bolted on the skid; all the anchor bolts are present and appear to be in good condition. The Tower, the Gas outlet and the Glycol inlet piping are insulated. The insulation (Aluminum Clad) appears to be in good condition throughout. Good seal is present between the building and Vessel and piping. No Visual External Inspection of the top head and shell was possible. The Bottom head appears to be in good condition. The Welded piping (2" gas inlet piping, 1-1/2" drain elbow) appears to be in good condition, the welds appear to be of good quality. Minor leaks were noted at almost all the threaded connections on the glycol piping circuits. The Operations were informed. The Temperature Indicator was present on the shell and appeared to be in good working order. No Pressure Indicator was present. The PSV appears to be in good condition, the name plate was present and readable, the last inspection date was posted and the seal was intact. The PSV discharge piping was connected to a common header. EXTERNAL NDE EXAMINATION UT Inspection was performed by SUMMIT Inspection Services Ltd. UT corrosion survey performed on the bottom of the second section of the shell, bottom shell and bottom head found no signs of internal corrosion. UT corrosion was performed on the piping. Minor corrosion was noted on the 2" gas outlet elbow. INTERNAL VISUAL INSPECTION No Internal Visual Inspection was performed at this time. INTERNAL NDE EXAMINATION No Internal NDE was performed at this time.

PRESSURE TEST Test Completed ☐ Yes ☐ No Test Acceptable ☐ Yes ☐ No Test Report # INSPECTOR CERTIFICATION I, the undersigned certify that the above equipment has been inspected in accordance with the assigned task list and that statements within this report are correct and represent inspection findings Inspectors Name Maria C. Savulescu, Inspector's API 510, CGSB Lev.II UT Signature SUMMIT Inspection Services Ltd. Inspection Company Date May 10, 2005 LEAD INSPECTOR'S ACCEPTANCE & SCHEDULE CONFIRMATION Lead Inspector ///// Signature Date Vessel Inspection Interval Leave "as-is" □ Change to 5415 **PSV Inspection Interval** Leave "as-is" □ Change to

Office Use Only Report Entered to SEQA Database by

Date Date

Static Data Verified by

The Peak in Integrity and Quality Inspection

11 Douglasglen Common S.E. Calgary, AB T2Z 3M7 ph (403) 279-9050 fax (403) 279-9051

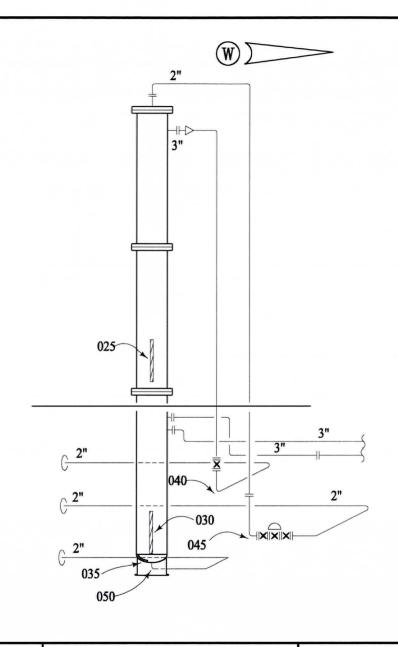
## **Husky Energy - UT Inspection Data**

Location: Gallaway Gas Plant LSD: 12-05-54-20 W5M

Vessel Description: Conditioner Stabilizer Tower Inspection Date: 12-May-05

A# 465811 S/N 2001-6729-01 CRN# P-7688.2

| Band # | Band Description                   | Band Type | <u>S.O.B.</u> | <u>E.O.B</u> | Scan min | Location of scan min | Nominal |
|--------|------------------------------------|-----------|---------------|--------------|----------|----------------------|---------|
| 025    | Bottom North Shell, Second Section | Vertical  | 0.393         | 0.391        | 0.391    | ЕОВ                  | 0.375   |
| 030    | Bottom North Shell                 | Vertical  | 0.41          | 0.406        | 0.406    | EOB                  | 0.375   |
| 035    | Bottom East Side Head              | Vertical  | 0.415         | 0.383        | 0.381    | Knuckle              | 0.270   |
| 040    | 2" Glycol Inlet Elbow              | Vertical  | 0.157         | 0.156        | 0.156    | EOB                  | 0.154   |
| 045    | 2" Gas Outlet Elbow                | Vertical  | 0.143         | 0.142        | 0.142    | Throughout           | 0.154   |
| 050    | 2" Drain Elbow                     | Vertical  | 0.376         | 0.362        | 0.357    | 3" below SOB         | 0.343   |
|        |                                    |           |               |              |          |                      |         |
| *.     |                                    |           |               |              |          |                      |         |
|        |                                    |           |               |              |          |                      |         |
|        |                                    |           |               |              |          |                      |         |
|        |                                    |           |               |              |          |                      |         |
|        |                                    |           |               |              |          |                      |         |
|        |                                    |           |               |              |          |                      |         |
|        |                                    |           |               |              |          |                      |         |
|        |                                    |           |               |              |          |                      |         |
|        |                                    |           |               |              |          |                      |         |



Husky Energy Gallaway Gas Plant 12-05-54-20 W5M

SUMMIT Inspection Services Ltd.

By: MCS Date: 06/2005 Dwg: 2

Items: 025-050

#### Conditioner Stabilizer Tower

Reg. No. : A 0465811 S/N : 2001-6729-01 CRN : P-7688.2

Built : 2001

MAWP : 1586kPa @ 146C

Dia. : 20" J.E. : RT2 C.A. : 0.0625"

Shell : SA 106B, 0.375" Head : SA 516-70N, 0.270"

Built By : ALCO Gas & Oil Production

Equipment

#66068139

# Husky Energy PRESSURE VESSEL INSPECTION REPORT

PAGE: 1 of 2

| FACILITY                               | GAL                     | LOW             | VAY Plant                 | DAT        | E Feb 1                       | 15/16, 200             | 02    | REPORT #                               | <b>!</b>                               |                |
|--|-------------------------|-----------------|---------------------------|------------|-------------------------------|------------------------|-------|--|--|----------------|
|  | 4 15 15 15 15           |                 |                           |            | VESSEL STA                    | TIC DATA               | A .   |  |  |                |
| Prov. Insp                             | #                       | A4658           | 11                        | CRN        | P7688.2                       | ATIC DATA              |       | Equip Tag                              | # V-350                                |                |
| Equipment                              |                         |                 |                           | 5-54-20W   |                               | 5                      |       | Serial #                               | 2001-6729                              | )-01           |
| Equipment                              |                         |                 | ,                         |            | Stabilizer Tow                | er                     |       | Vessel Clas                            |  | -              |
| Manufactu                              | •                       |                 | Oil & Gas                 |            | , tabini201 1011              | <u> </u>               |       | Year Built                             | 2001                                   |                |
| MAWP                                   | 1585                    | Aloo            | KPa                       |            | @ 145                         | °C                     |       | MDMT                                   | -29                                    | °C             |
| CODE: U                                |                         | J X             | U2 🗆                      |            | ES NO                         |                        |       |  |  |                |
|  | Mat'l                   | SA 1            |                           | RT :       |                               | 8 <u>4 </u><br>8.52    | Mm    | Corr Allowan                           |  | Mm             |
|  | Mat'l                   | SA 1            |                           | Thick      |                               | ?                      | Mm    | Corr Allowan                           |  | Mm             |
|  | Mat'l                   | SA 5            | 516-70N                   | Thick      | ness                          | 6.86                   | Mm    | Corr Allowan                           | ce                                     | Mm             |
| Internal Co                            | ating :                 | YES             | □ NO X                    | Interr     | nal Clad : Yi                 | ES NO                  | X C   | Capacity                               |  | m <sup>3</sup> |
| Manway:                                | 9                       | YES             |                           |            | ction Port : Y                |                        |       |  | .egs 🔲 Sad                             | Idle 🗌         |
| Nozzle Rat                             | tina                    |                 | Ib ANS                    |            |                               | ES X NO                |       | Insulated                              | : YES X                                |                |
|  |                         |                 |                           |            | PROCESS                       |                        |       |  |  |                |
| Product De                             | escription              | า               | Natural ga                | as liquids |                               |                        |       | Sw                                     | eet X                                  |                |
| Operating                              | Pressure                | )               | 360                       | K          | Pag                           | Operating              | Temp  | erature 90                             | °C                                     |                |
| PSV ID#                                | Loca                    | tian            |                           | ze         | PSV STAT                      |                        | -i4., | Manufacturer                           | Model                                  | Last           |
| P3V ID#                                | Loca                    | lion            | Inlet                     | Outlet     | Pressure                      | Capac<br>SCFM / Lbs/Hi | r/GPM | Mariuracturer                          | Model                                  | Service        |
| 350                                    | Vessel                  |                 | 1.5 in                    | 3 in       | 1586 kpa                      | 3675 SC                | FM    | Farris                                 | 26HA-10-120                            |                |
|  |                         |                 |                           |            |                               |                        |       |  |  |                |
| VALUE SERVICE CONTRACTOR OF THE PARTY. | VO SNIKO SA UTOVA NASTO |                 | DVD/1224CHANGI INTERNATIO |            |                               |                        |       |  |  |                |
| DDI Catag                              | οπι Λ                   |                 | CD DD                     | Lost       | INSPECTION<br>Inspection Date |                        |       | W.O. #                                 |  |                |
| RBI Categorian T                       | - 1                     | Albania Indiana |                           |            |                               | JÉ                     |       |  | eason 1002                             |                |
| Inspection                             |                         |                 | equired                   |            | nspection Type                |                        |       | Due Date                               | 2005                                   |                |
|  | T UT                    | MT P1           | T PT TT                   | Outst      | anding Repair                 | S                      |       |  | 2000                                   |                |
|  |                         |                 |                           |            | INSPECTION                    |                        | Y     | a. Carata and                          |  |                |
| Vessel Siz<br>New – exc                |                         |                 |                           |            | noted                         | IDATIONS               |       |  |  |                |
| Set-up UT                              | survey                  | . Surv          | ey slots ir               | ı insulati | on required.                  |                        |       |  |  |                |
|  |                         |                 | todayê pe peşî jek        |            | REPAIRS CO                    | MPLETE                 | D     | For a series was a consider to specify | angag (Barata) a kapanakan 12 pinagian | - STANKLER LA  |
| Object Nam                             | ne                      |                 | Caus                      | se         |                               | Damage                 |       | Rep                                    | air Activity                           |                |
|  |                         |                 |                           |            | VECCEL                        | TATUE                  |       |  |  |                |
| Integrity S                            | Status                  | 2               | X- Suitabl                | e for Con  | tinued Service                |                        |       | iate Repairs R<br>Repairs Requ         |  | Replace        |
| Inventory                              | Status                  | 7               | X- Inservice              | Fully Util | ized                          |                        | dle   | Surpl                                  |  | Scrap          |

# **♦ Husky Energy**PRESSURE VESSEL INSPECTION REPORT

PAGE: 2 of 2

| FACILITY  | <b>GALLOWAY Plant</b> | DATE Fel        | 15/16, 2002          | REPORT #       |                   |  |
|---|-----------------------|-----------------|----------------------|----------------|-------------------|--|
|   |                       |                 |                      |                |                   |  |
|   |                       | INSPECTION (    | DESERVATIONS         |                |                   |  |
| NONCOMPLIANCES OR INSPECTION DEFICIENCIES ISSUED  |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
| EXTERNAL VISUAL INSPECTION  |                       |                 |                      |                |                   |  |
| No deficiencies noted in foundations/supports, nozzles, grounding connections, external metal surfaces, or pressure relief devices. |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
| EVERNIAL NIDE EVANUATION  |                       |                 |                      |                |                   |  |
| EXTERNAL NDE EXAMINATION  |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
| APAM SALESSAISA   |                       | INTERNAL VICE   | IAI INSPECTION       |                |                   |  |
| INTERNAL VISUAL INSPECTION  |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
| -   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
| INTERNAL NDE EXAMINATION  |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
|   |                       |                 |                      |                |                   |  |
| Test Comple   | ted Yes X No          | Test Acceptable | JRE TEST  ☐ Yes ☐ No | Test Repor     | + #               |  |
| rest comple   | ica 🗀 ica xito        | INSPECTOR (     | ERTIFICATION         | restriction    |                   |  |
| I, the undersigned certify that the above equipment has been inspected in accordance with the assigned task list and                |                       |                 |                      |                |                   |  |
| that statements within this report are correct and represent inspection findings  |                       |                 |                      |                |                   |  |
| Inspectors Name Glenn Bielech   |                       |                 | Inspector's Sign     | Feb 15,2002    |                   |  |
| Inspection Company  |                       |                 | Date                 |                | 002               |  |
| Lood Incocat  | LEAD INSPEC           | Cianatan        | OF & SCHEDULE        | CONFIRMATION   | Ooto /            |  |
| Lead Inspect  | - HCD IIII            | Signature       |                      |                | Date June 18,2002 |  |
| Vessel Inspection Interval S Leave "as-<br>PSV Inspection Interval 3 Leave "as-   |                       |                 |                      | Change to      |                   |  |
| Office Use O  |                       |                 | o-10 134             | Change to Date |                   |  |
| Office Use U  | Static Data Verified  | 5               |                      | Date           |                   |  |



NAMEPLATE:
CONDENSATE STABILIZER
TOWER