

VESSEL INSPECTION SUMMARY

Report #: 137865-WF-46 Inspect Date: 05/13/2009 Page: 1 of 5 IRISNDT #: 137865

| | | | | | | | |
|--|-----------------------------|-------------------------|--------------------------------|-----------------------|-------------|-----------------|--|
| Client: CNR | L Distric | ot:S | lave Lake | | Field | :Da | awson |
| | | | N/A | | | LSD: 01-05-080 | |
| Jurisdiction #: A05013 | | #: | 030548 | | | :0; | |
| | | #: | | | Year Built: | | |
| Manufacturer: Sunwell | | Equipment Do | | | | | |
| Status: In - Shutdowr | Date Remov | | | | Servi | ce: Sweet | |
| MAWP Shell: 1315 Psi | @300 °FH | eight/Length: | | 102 | | Code Stamp: | XY DN |
| MAWP Tube: | @ Si: | ze/Diameter.: | 16 | in. O.D. | | Insulated: | |
| MDMT: 0 °F | RT: RT-1 | | | | | PWHT: | |
| Support Type: Saddle | | | | | _ | Manway: | |
| C.A.: 0.0625 in. | Coated: Y N | Clad: 🗌 Y 🔲 I | ا.ل ا | E.: Rer | note Acces | | |
| Component | Material | | nal Thk | Diameter | OD/ID | | Shell Side |
| - Head | SA-516-70N | | 50 in. | 16.000 in. | OD/ID | Tube Side | |
| - Shell | SA-106-C | | - | 16.000 in. | | | |
| - Offell | 3A-100-C | 1.58 | 33 III. | 16.000 in. | OD | | |
| _ | | | - | | - | | |
| | - | | | | | | |
| Comments: | | | | <u> </u> | | | <u> </u> |
| Comments. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| PSV Static Data | | | | | | | |
| PSV -1 Tag #: | Serial | #: 455797-3-k | (F | | CRN: O | 28442 50 | · · · · · · · · · · · · · · · · · · · |
| Model #: 26FA12-12 | | | | Set Dro | ssure: 74 | | |
| Manufacturer: Farris | -oapacit | y. 4000 0011 | 191 | Service Con | | <u> </u> | |
| Inlet Size & Type: 1.50 | in - Flanged | | | | | | |
| Outlet Size & Type: 2.00 | | | - | Last Service | | | |
| Carseal Intact: Yes | iii Flanged | | | Block Vaive: Ups | | | - Open |
| Shell Side / Tube Side: S | hall Cide | | | | Stamp: Ye | es | |
| Stiell Side / Tube Side. 5 | nell Side | | | Location o | | | |
| PSV –2 Tag #: | Serial | #: | | | CRN: | | |
| Model #: | Capacity | y: | | Set Pre | essure: | | |
| Manufacturer: | | | - | Service Con | npany: | - | , |
| Inlet Size & Type: | • | | | Last Service | Date: | | |
| Outlet Size & Type: | - | | В | llock Valve: | | | |
| Carseal Intact: | | | | | Stamp: | | |
| Shell Side / Tube Side: | | | | Location o | | | |
| PSV Comments | | | | | | | |
| F 3 V Comments | | | | | | | |
| . The PSV is in good or | ondition with the carseal i | ntact The PS\ | / is overdu | e for servicing | A block val | ve is betwee | on the vessel |
| and PSV and is not locked in the | ne open position. | | 10 0 7 0 1 0 0 | 10 101 301 ¥10111g. 7 | V DIOCK VAI | VC 13 DCtVVC | on the vesser |
| | viced at the June 09 TAF | R as per code r | equireme | nts. | | | |
| | requirements after PSV | | | | e open po | sition. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | ļ |
| | | | | | | | |
| | | | | | | | |
| 5044 00 04 5 | | | | | | | |
| 5311 – 86 Street, Edmonton, Alberta T6E: Calgary (403) 279-6121 | | • | 780) 594-1114 | | Corpus C | Christi. TX /38 | 1) 888-4700 |
| Lloydminster (780) 875-6455 Barhead (780) 674-3018 | Fo | ort McMurray (| 780) 743-1536 | | Deer Parl | k, TX (28 | 1) 476-4444 |
| Nisku (780) 955-7616 | Re | ed Deer (| 780) 956-4094 403) 347-1742 | | Texas Cit | ty, TX (49 | 3) 722-7177 0) 945-2262 |
| | M | edicine Hat (4 | 403) 527-6284 | | Tulsa, Oh | K (91 | 8) 446-8773 |



VESSEL INSPECTION SUMMARY

137865-WF-46 Report #: Inspect Date: 05/13/2009 2 of 2 Page:

| | ONE | 1 | | LSD: | 01-05-080-16W5 | Jurisdiction i | #: <i>F</i> | 0501340 |
|---|---|---------|----------|--------------------------------|---|----------------|--|--|
| Client: | CNR | L | | | | | | |
| kternal Inspection Results | - VE | | | | | NCR | Action Item | Priority |
| Item | Υ | N | N/A | Condition | Comment | NCK | ACCION ROSS | |
| | Ø | \Box | | Accept | | <u> </u> | | 4 |
| Nameplate | | 뷞 | 旹 | Accept | Mild active corr. on pipe supp. | <u> </u> | <u> </u> | |
| Foundation and Supports | X | 붐 | 旹 | Accept | | <u> </u> | <u> </u> | |
| Anchor Bolts | | 붐 | 붐 | Accept | | <u> </u> | | <u> </u> |
| Grounding | N N | | 붐 | Accept | | <u> </u> | <u> </u> | 1 |
| Insulation Condition | 닕 | | 붐 | Reject | Overdue for servicing/Blk Valve | | N N | |
| PSV | X | 믐 | 十十 | Accept | | <u> </u> | | 4 |
| Shell & Heads | X | 붐 | 十十 | Reject | Isolated Deterioration | | ├──岩─ | |
| Metal Surfaces (Paint) | | | | 110,001 | | <u> </u> | | |
| Aux Equipment | 12 | 믐 | | | | <u> </u> | <u> </u> | |
| Cathodic Protection | | | +# | Accept | | | | |
| Alignment | X | 무 | ㅏ片 | Accept | | | | |
| Flange Connections | | 무 | ㅏ믐 | Accept | | <u> </u> | | 4 |
| Pressure Gauge | X | 무 | ┼岩 | Accept | Light corrosion | <u> </u> | | |
| Piping from Vessel | X | 무 | | Accept | Ligiti con | | | |
| Temperature Gauge | ᆜ므 | | | Accept | | | | |
| Sight Glass | X | | | Accept | - | | | |
| Leaks | | | | | No significat wall losses | U | T Company: | Matrix |
| Current UT Survey | | | | | No significat trail to | U | T Company: | |
| Previous UT Survey | | | | | | | | |
| Priority 2 - Goal date is Priority 2 - Goal date is External Visual Observati | | | | | Manual Review Re | quired By Cu | istomer Kepi | esentative |
| External Visual Observati | 0113 | | | | the findings are as follows | : | | |
| An external visual insp | ection | was | pertori | ned on vess | el and the findings are as follows | | | |
| | | | | | | ar dalah | age of proces | ss leaks are present. |
| The weep of the | ae offe | trean | at tin | ne of inspec | ion as it only operates in the wint eal intact. The PSV is overdue for | er. No evide | hlock valve | is between the vessel |
| | | | | | | | | |
| and PSV and is not loo | ked ir | the o | open p | osition. | of the shell and piping. The drair without paint. | n piping and | associated si | upports are not |
| . The paint is o | leterio | rating | j on is | olated areas | of the shell and bibling. | | | |
| | | | | | | | | |
| I Mild active of | METERS III | 11 13 L | 11 63611 | COLL CLO PUP. | ig supporter | | | |
| . The clamp su | | | | | ear and visible. | | | |
| . I ne signt gia | vas ni | erforn | ned wi | th no signific | cant wall losses noted. drawings for inspection findings. | | | |
| . Refer to the | attach | ed ph | otos, | UT data and | drawings for inspection findings. | | | |
| 1 (1010) to the | | · | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| \ . | | | | | | | | |
| \ | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Albori | TRE 5 | T8 Phone | : (780) 437-2022 | Fax: (780) 438-1436 | | Corpus Ch | |
| | 3) 2/9-01 | 21 | T8 Phone | r: (780) 437-2022 | Eart McMiirray (700) 743-1550 | | Deer Park | TX (281) 476-4444 uston TX (713) 722-7177 |
| Calgary (40: | n, Alberta 3) 279-61 0) 875-64 0) 674-30 | 55 | T8 Phone | ı: (780) 437-2022 ⁽ | Fax: (780) 438-1436 Cold Lake (780) 594-1114 Fort McMurray (780) 743-1536 High Level (780) 595-4094 Red Deer (403) 347-1742 | | | TX (281) 476-4444 uston, TX (713) 722-7177 , TX (490) 945-2262 |



VESSEL INSPECTION SUMMARY

Report #: 137865-WF-46 Inspect Date: 05/13/2009 Page: 3 of 3

| L | | | | | | | | IRISNDT#: | 137865 |
|----|------------------------------|------|--------|--|-----------------------------|------------------------|--|----------------|----------|
| | Client: CNRL LSD: | | | 01-05-080-16W5 | 01-05-080-16W5 Jurisdiction | | | | |
| | Internal Inspection Results | – VI | | | | | | | |
| | Item | Υ | N | N/A | Condition | Comment | NCR | Action Item | Priority |
| | Shell | | | | | | | | |
| | Heads | | | | | | | | |
| | Manway | | | | | | | | |
| | Gasket Surfaces | | | | | | | | |
| | Welds | | | | | | | | |
| - | Refractory | | | | | | | | |
| | Heating Coils | | | | | | | | |
| | Demister Pad | | | | | | | | |
| | Vane Pack | | | | | | | - F | |
| | Baffles | | | | | | | | |
| | Trays | | | | | | | | |
| | Filter | 盲 | | | | | | | |
| | Internal Coating | ī | | | | | - | | |
| | Tubesheet | 計 | | | | | | | |
| | Tube Bundle | 一 | Ħ | | | | - | | |
| Г | LEGEND: | | | | 11 | | | | |
| | | | | | | | | | |
| | Priority 0 - General Recom | | | | | Priority 3 - Goal date | | | |
| | Priority 1 - Goal date is 30 | | | | | Priority 4 - Goal date | is 5 Years fro | m the activity | date. |
| | Priority 2 - Goal date is 90 | day | s fron | n the ac | ctivity date. | | | | |
| Ir | nternal Visual Observations | | | | | Manual Review Require | ed By Custom | er Representa | ative - |
| | | | | | · | | July Guoton. | or respired | ativo |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Calgary (403) 2' Lloydminster (780) 8' Barhead (780) 6' Nisku (780) 99



VESSEL INSPECTION SUMMARY

Report #: 137865-WF-46 Inspect Date: 05/13/2009 Page: 4 of 4 IRISNDT #: 137865

| Client: CNRL | LSD: | 01-05-080 |)-16W5 | Jurisdiction #: | A0501340 | | | |
|--|------------------|------------------------------|--------------------------------|---|---|--|--|--|
| Attached to Vessel Inspection Report # | | | | | | | | |
| Attached to Vessel Inspection Report # | | | | | | | | |
| NDE UT MT PT | ET 🗀 | | THER 🗌 | | | | | |
| NDE Report #: | | | | | | | | |
| Items Raised: NCR Yes Opera | ational Action | Item Yes | Repair Action | n Item Deferre | ed Action Item Yes | | | |
| Action Items / Recommendations: | | | | | | | | |
| · Ensure the PSV is serviced at the | June 09 TAR | as per code re | equirements. | | | | | |
| Vessel will meet code requirements | s after PSV is | serviced and | the block valve | e is locked in the open p | osition. | | | |
| · Clean and paint the shell, piping ar | nd supports a | s required. | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Actions Corrected at Time of Inspection: (If ac | tions were corre | cted at the time of | Inspection – note t | the corrected actions here.) | | | | |
| | | | | | 10 CO 10 CO CONTROL CONTROL | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Meets Code Criteria: - No | - | Re- | Inspection Red | nuired - No | | | | |
| Meets Code Official - 140 | | 110 | inapodion red | 141100 110 | | | | |
| Recommended Inspection Intervals: | | | | | | | | |
| VE Inspect. Last Inspection: | - | Interval (yrs) | | Next Inspecti | on: - 0 | | | |
| VI Inspect. Last Inspection: | _ | Interval (yrs) | | Next Inspecti | on: - 0 | | | |
| UT Inspect. Last Inspection: | - | Interval (yrs) | | Next Inspecti | on: - 0 | | | |
| PSV Service Last Inspection: | _ | Interval (yrs) | | Next Inspecti | | | | |
| F3V Service Last Inspection. | | interval (yrs) | | Treat mapeou | 0 1 | | | |
| Unit # Kilometers: | | onsumables: | Inspector: | | PESL:462 | | | |
| In <u>00:00</u> Out <u>00:00</u> Hrs | | | Wes Fai | rqunar (Print) Digitally signed by Wes Farquh | PESL: <u>462</u> | | | |
| InO:00 OutO0:00 Hrs | | | Lington | Date: 2010.03.31 14:25:31 - 08:00* (Sign) | API: <u>29669 / 32195</u> | | | |
| Personnel: | - | | Client Repr | | | | | |
| | - | | I am in full agreement v | (Print) | | | | |
| P.O.# / W.O.#/AFE #: | | | report conte | | | | | |
| 5311 – 86 Street, Edmonton, Alberta T6E 578 Phone: (780) 437-2022 Fax: (780) 438-1436 Calgary (403) 279-6121 Cold Lake (780) 594-1114 Corpus Christi, TX (361) 888-4700 | | | | | | | | |
| Lloydminster (780) 875-6455 Barhead (780) 674-3018 | Fo | ort McMurray (gh Level (| 780) 743-1536 780) 956-4094 | Deer Park, Matrix, Hou | TX (281) 476-4444 uston, TX (713) 722-7177 | | | |
| Nisku (780) 955-7616 | Re | ed Deer (| 403) 347-1742 403) 527-6284 | Texas City Tulsa, OK | , TX (490) 945-2262 (918) 446-8773 | | | |



VESSEL INSPECTION SUMMARY

Report #: Inspect Date: 137865-WF-46 05/13/2009

Page: IRISNDT #:

5 of 5 137865

Equipment Photographs:



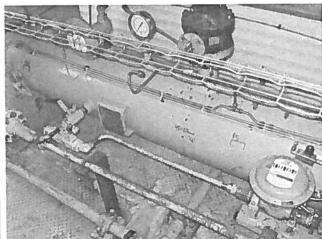


Figure 1_Nameplate_13May09

Figure 2_Blowcase_13May09

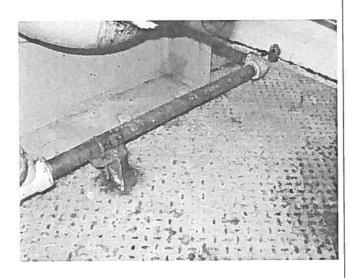


Figure 3_No Paint on Drain Piping_13May09

(780) 674-3018 (780) 955-7616 Nisku

Cold Lake Fort McMurray High Level Red Deer Medicine Hat

(780) 594-1114 (780) 743-1536 (780) 956-4094 (403) 347-1742 (403) 527-6284 Corpus Christi, TX Deer Park, TX Matrix, Houston, TX Texas City, TX Tulsa, OK

(361) 888-4700 (281) 476-4444 (713) 722-7177 (490) 945-2262 (918) 446-8773