

| Equip. No. <u>T</u> —710   |                                  |  |  |  |  |  |  |
|--|----------------------------------|--|--|--|--|--|--|
| C. Stamp: U Service: SOUR  |                                  |  |  |  |  |  |  |
| Design & Materials Data  | CLIENT                           |  |  |  |  |  |  |
| HEAD: Top Mat'l. <u>SA 516 70N</u> Top Nom. <u>24.3mm</u> Top C.A. <u>N/S</u>  | CANADIAN NATURAL RESOURCES LTD   |  |  |  |  |  |  |
| Btm. Mat'l Btm. Nom Btm. C.A   | FACILITY CURRANT                 |  |  |  |  |  |  |
| CHANNEL:         Material:         C.A.  | COMPRESSOR STATION               |  |  |  |  |  |  |
| BOOT<br>Head Mat'l Head Nom Head C.A   |                                  |  |  |  |  |  |  |
| Shell Mat'l.       Shell Nom.       Shell C.A.         SHELL       Material:       SA 516 70N       Nominal:       25.4mm       C.A.       N/S         MAWP Shell Side:       10204 kPa       @ Temp.       38°C | GLYCOL<br>CONTACTOR              |  |  |  |  |  |  |
| MAWP Tube Side: @ Temp   | BY: DK/CK DATE: 08/2011 DWG.# 19 |  |  |  |  |  |  |

## **UTS DATA**

**CLIENT:** CANADIAN NATURAL RESOURCES

**EQUIPMENT:** GLYCOL CONTACTOR

**CRN#:** P-0620.21 **PROV REG:** C 35011

TESTED ON STREAM

FACILITY: CURRANT COMPRESSOR STATION

SERVICE: SOUR

**LOCATION:** b-09-C/94-A-16 **RTD JOB #**:10.110419

**REFER TO DRAWING: 19** 

| Test<br>Point |        |       | THICK      | NESS DATA | <br>Flag | T-Min | C.A. | Nom.  | Short<br>Term | Long<br>Term | Ave.<br>mm/py | Retirement<br>Date |
|---------------|--------|-------|------------|-----------|----------|-------|------|-------|---------------|--------------|---------------|--------------------|
| 1910          |        |       |            |           |          |       |      |       |               |              |               |                    |
| Description:  | MID SI | HELL  |            |           |          |       |      |       |               |              |               |                    |
|               | 2011   | 8     |            |           |          |       |      |       |               |              |               |                    |
| Min. Thick.   | 26.8   |       |            |           | 25.40    |       |      | 25.40 | )             |              |               |                    |
| Average:      | 26.9   |       |            |           |          |       |      |       | 0             |              | 0             |                    |
| Analysis:     |        |       |            |           |          |       |      |       |               |              |               |                    |
| 1915          |        |       |            |           |          |       |      |       |               |              |               |                    |
| Description:  | LOWE   | R SHE | ELL        |           |          |       |      |       |               |              |               |                    |
|               | 2011   | 8     |            |           |          |       |      |       |               |              |               |                    |
| Min. Thick.   | 26     |       |            |           | 25.40    |       |      | 25.40 | )             |              |               |                    |
| Average:      | 26.4   |       |            |           |          |       |      |       | 0             |              | 0             |                    |
| Analysis:     | 2011/0 | 8-MIN | SCAN AT WE | ELD.      |          |       |      |       |               |              |               |                    |
| 1920          |        |       |            |           |          |       |      |       |               |              |               |                    |
| Description:  | LOWE   | R SHE | LL         |           |          |       |      |       |               |              |               |                    |
|               | 2011   | 8     |            |           |          |       |      |       |               |              |               |                    |
| Min. Thick.   | 26.8   |       |            |           | 25.40    |       |      | 25.40 |               |              |               |                    |
| Average:      | 27     |       |            |           |          |       |      |       | 0             |              | 0             |                    |
| Analysis:     |        |       |            |           |          |       |      |       |               |              |               |                    |
| 1925          |        |       |            |           |          |       |      |       |               |              |               |                    |
| Description:  | BOTTO  | ЭМ НЕ | AD         |           |          |       |      |       |               |              |               |                    |
|               | 2011   | 8     |            |           |          |       |      |       |               |              |               |                    |
| Min. Thick.   | 25.3   |       |            |           | 24.30    |       |      | 24.30 | )             |              |               |                    |
| Average:      | 26     |       |            |           |          |       |      |       | 0             |              | 0             |                    |
| Analysis:     | 2011/0 | 8-MIN | SCAN AT KN | UCKLE.    |          |       |      |       |               |              |               |                    |

## **UTS DATA**

**CLIENT:** CANADIAN NATURAL RESOURCES

**EQUIPMENT:** GLYCOL CONTACTOR PIPING

CRN#: PROV REG:

**RTD JOB #:**10.110419

SERVICE: SOUR

**LOCATION:** b-09-C/94-A-16

**FACILITY:** CURRANT COMPRESSOR STATION

| TESTED ON STREAM |        |       |                | REFER T | REFER TO DRAWING: 19 |      |      |               |              |               |                    |  |
|------------------|--------|-------|----------------|---------|----------------------|------|------|---------------|--------------|---------------|--------------------|--|
| Test<br>Point    |        |       | THICKNESS DATA | Flag    | T-Min                | C.A. | Nom. | Short<br>Term | Long<br>Term | Ave.<br>mm/py | Retirement<br>Date |  |
| 1935             |        |       |                |         |                      |      |      |               |              |               |                    |  |
| Description:     | 4" 90° | ELBOW |                |         |                      |      |      |               |              |               |                    |  |
|                  | 2011   | 8     |                |         |                      |      |      |               |              |               |                    |  |
| Min. Thick.      | 8.6    |       |                | 7.53    |                      | 1.1  | 8.60 |               |              |               |                    |  |
| Average:         | 8.8    |       |                |         |                      |      |      | 0             |              | 0             |                    |  |
| Analysis:        |        |       |                |         |                      |      |      |               |              |               |                    |  |
| 1940             |        |       |                |         |                      |      |      |               |              |               |                    |  |
| Description:     | 4" 90° | ELBOW |                |         |                      |      |      |               |              |               |                    |  |
|                  | 2011   | 8     |                |         |                      |      |      |               |              |               |                    |  |
| Min. Thick.      | 8.8    |       |                | 7.53    |                      | 1.1  | 8.60 |               |              |               |                    |  |
| Average:         | 9      |       |                |         |                      |      |      | 0             |              | 0             |                    |  |
| Analysis:        |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |
|                  |        |       |                |         |                      |      |      |               |              |               |                    |  |