



4810-93 Street, Edmonton, Alberta T6E 5M4  
 Phone: (780) 469-2401 Fax: (780) 468-2422

Report No: 34465

|                 |                                           |                  |                   |    |  |
|-----------------|-------------------------------------------|------------------|-------------------|----|--|
| Client          | Canadian Natural Resources Ltd.           | Inspection Date  | Nov 4, 2003       |    |  |
| Prov. Reg. #    | AB 3066609                                | Inspection Type  | VE / UT           |    |  |
| Equipment Type  | Heater Coil For Flare K/O Drum            | Location         | Nevis             |    |  |
| Tag/Equip.      |                                           | LSD              | AB 11-30-039-21W4 |    |  |
| Status          | In Service                                | Downhole LSD     |                   |    |  |
| Manufacturer    | Natco                                     | Area             |                   |    |  |
| Serial Number   | LM3023A                                   | Year Built       | 1995              |    |  |
| CRN #           | M7022.2                                   | Service          | Sour              |    |  |
| Comp/Unit Id    |                                           | Manway           | None              |    |  |
| Nat.Board #     |                                           | Coating          |                   |    |  |
| Interim Insp'n  |                                           | Interim Type     |                   |    |  |
| Next Inspection | 2005                                      | Next Insp Type   |                   |    |  |
| Length          |                                           | Height           |                   |    |  |
| Volume          |                                           | Client Reference | BANTRY GAS PLANT  |    |  |
| Owner           | Canadian Natural Resources Ltd.           | RT               | 2                 | HT |  |
| Foreman         |                                           | RAE Job No.      | 03-568            |    |  |
| ABSA            | Plant:          Vessel:          Process: | Special:         | ASME              |    |  |
| History Log     |                                           |                  |                   |    |  |

|                     |                    |  |                    |      |  |
|---------------------|--------------------|--|--------------------|------|--|
| Component           | SHELL 1            |  |                    |      |  |
| MAWP                | 1372.0 kPa @ 93 °C |  |                    | MDMT |  |
| Material            |                    |  | Material Thickness |      |  |
| Diameter            | 51 mm              |  | Length             |      |  |
| Corrosion Allowance | 3.2 mm             |  |                    |      |  |



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General Observations

Note: Test Pressure = 2068 KpA. No PSV on the line.

Heater is a coil = 2" NPS - Sch 160 - SA-106B. Heater coil for 3066599 K/O drum.

External

Line is fully insulated except the nozzles which are directly connected to the knock out drum at the north head. Insulation found in good condition, no sign of corrosion stain on cladding noted. The two isolating valves (outlet and inlet) appeared to be working well and they are fully open in position during inspection.

Internal

Not made available at this time.

UT

Measurements in Inches

2" Sch. 160

Inlet - 0.250 - 0.256

Outlet - 0.252 - 0.255

Recommendations

Inspect external and perform thorough UT on coil when the K/O drum is open for inspection.

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Inspector:

Reviewed By: