



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

OCT 15 2003

DOT-E 11380
(SEVENTH REVISION)

EXPIRATION DATE: September 30, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Baker Atlas
Houston, TX
(Former Grantee: Western Atlas Logging Services)
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the transportation in commerce of certain Division 2.1 gases in non-DOT specification cylinders. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.302a(a) and 175.3 in that a non-DOT-specification cylinder is not authorized, except as specified herein.
5. BASIS: This exemption is based on the application of Baker Atlas dated August 15, 2003, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

| Hazardous Material Description | | | |
|---|------------------------|-----------------------|---------------|
| Proper Shipping Name | Hazard Class/ Division | Identification Number | Packing Group |
| Hydrocarbon gases, compressed, n.o.s. or Hydrocarbon gases mixtures, compressed, n.o.s. | 2.1 | UN1964 | N/A |

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packagings are non-DOT specification seamless cylinders conforming to Atlas Wireline Services' drawing 164127-000, Western Atlas Logging Services drawing 190058-000, Baker Atlas drawings 190058-000 Rev. A, 190056-000 Rev. A, 196054-000 Rev. A, 197596-036 Rev. A, or 199546-000 and other drawings on file with the Office of Hazardous Materials Exemptions and Approvals. Cylinders must be in conformance with DOT Specification 3AA (§§ 178.35 and 178.37) except as follows:

§ 178.35(e) *Safety devices.* Pressure relief devices are not required.

§ 178.35(f) *Marking.*

(1) * * *

(i) Cylinders must be marked "DOT-E 11380" in place of "DOT 3AA".

(2) and (3) * * *

(4) The markings on each cylinder must be plain and permanent. The markings may be applied using engraving, low stress metal stamping, electric marker (vibra-tool), electric pencil, or laser. The depth and size of the markings may not create harmful stress concentrations or

impinge on the minimum wall thickness. The markings must be located only in the area designated on the cylinder drawings.

§ 178.37(a) *Type, size, and service pressure.* Seamless cylinders have 52 cubic inches maximum water capacity and 20,000 psig maximum service pressure.

§ 178.37(b) *Authorized material.* Inconel 718 alloy per Baker Atlas Specification 059153-000, 059328-000 or Western Atlas Specification 59327A; and MP35N alloy per Western Atlas Logging Services Specification 059989 or Baker Atlas Specification 059097-000 are authorized.

§ 178.37(f) *Wall thickness.*

(1) Not applicable.

(2) The wall stress at the minimum specified test pressure may not exceed 67 percent of the minimum tensile strength as determined from the physical tests required in § 178.37(k) and (l).

(3) * * *

§ 178.37(g) *Heat treatment.* Heat treatment and subsequent testing for Inconel 718 must be performed per Baker Atlas Specification 059328-000 or Western Atlas Logging Services Specification 59328A; for MP35N per Western Atlas Specification 59989-000 or Baker Atlas Specification 059337-000.

§ 178.37(j) *Flattening test.* Flattening test is not required.

b. TESTING - Cylinders must be requalified in accordance with the requirements of §§ 180.205 and 180.209 for DOT 3AA Specification cylinders.

c. OPERATIONAL CONTROLS -

(1) Each cylinder must have protection for the valve against accidental functioning and damage.

Cylinders must be shipped in strong outside packaging or securely strapped on pallets.

(2) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the cylinders are not fitted with pressure relief devices and provide appropriate guidance in case cylinders are exposed to fire.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. Transportation of Division 2.1 materials (flammable gases) are not authorized aboard cargo vessel or aircraft unless specifically authorized in the Hazardous Materials Table (§ 172.101).

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel and cargo aircraft only.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.

- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



OCT 15 2003

for Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

PO: SS