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

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

JUL 25 2003

DOT-E 11432
(EIGHTH REVISION)

EXPIRATION DATE: June 30, 2005

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Baker Atlas
Houston, Texas
(Former grantee: Western Atlas International)

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

a. This exemption authorizes the transportation in commerce of certain Division 1.4 igniters mix-packed with certain Division 1.4 detonators. These materials would then be shipped on the same motor vehicle, cargo vessel or cargo aircraft with Class 1 jet perforating guns, detonating cords, commercial shaped charges or power device cartridges, subject to the packaging and safety measures prescribed herein. This exemption provides no relief from any Hazardous Materials Regulation (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.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.

4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.301(a), in that the marking of the proper shipping name and identification number on the outer packagings is not required; § 173.61(c), insofar as UN0255, UN0267, UN0455 and UN0456 detonators being packed together with other Class 1 explosives; §§ 175.3 and 176.3, 173.61(c) and 177.835(g)(3) insofar as no detonator may be transported on the same motor vehicle with any Division 1.1, 1.2, 1.3 or Division 1.4 detonating cord materials unless it is packed and loaded in accordance with a method approved by the Department of Transportation; and this exemption specifically constitutes that approval except as specified herein.

5. BASIS: This exemption is based on the application of Baker Atlas dated July 15, 2003, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	**Hazard Class/ Division**	**Identi-fication Number**	**Packing Group**
Detonators, electric, *for blasting*	1.4B	UN0255	II
Detonators, electric, *for blasting*	1.4S	UN0456	II
Detonators, non-electric, *for blasting*	1.4B	UN0267	II
Detonators, non-electric, *for blasting*	1.4S	UN0455	II
Igniters	1.4G	UN0325	II
Igniters	1.4S	UN0454	II

7. SAFETY CONTROL MEASURES:

a. PACKAGING - The following packing methods are authorized:

(1) **Packing Method A**

(i) INNER PACKAGINGS - Each detonator must be completely enclosed by a heavy wall fiberboard tube having a length of 15 cm (5-7/8") and a wall thickness not less than 0.75 cm (0.3"). Non-electric detonators must be centered in the tubes with tissue paper and closed with tape. Each igniter must be enclosed in a plastic receptacle or paper bag. Igniters and detonators may not be packaged in the same inner packaging together.

(ii) OUTER PACKAGINGS - The detonators and igniters must be placed in a heavy wall steel magazine box constructed from at least 12 gauge low-carbon steel lined with 0.6 cm (1/4 inch) thick foam rubber or wood on all interior surfaces. Not more than 24 detonators or igniters or combination of both are authorized to be transported in the steel magazine box at one time. The magazine box must have at least two means of preventing the lid from opening in the event of accidental initiation of one or more of the devices.

(2) **Packing Method B**

(i) INNER PACKAGINGS: As prescribed by the Competent Authority Approval for the appropriate article to the original manufacturer/shipper, but not containing more than 50 igniters or 50 detonators each. Detonators and igniters must not be packaged together in the same inner packaging.

(ii) OUTER PACKAGINGS: An IME 22 container or compartment is used as the outer packaging. This IME 22 container or compartment must not contain more than 1000 igniters or detonators or any combination thereof.

8. SPECIAL PROVISIONS:

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

b. MARKING -

(i) Each inner packaging must be clearly marked with the appropriate UN Number, proper shipping name, division number and compatibility letter of the devices contained therein.

(ii) The steel magazine box or IME 22 container or compartment used to transport detonators and igniters must be marked in letters at least 12 mm. high (0.47 inch) as follows:

DANGER--DETONATORS AND IGNITERS
DOT-E 11432

c. Detonators may not have a net explosive weight (excluding initiation and delay elements) greater than 1 gram.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel and cargo aircraft only (for shipment by aircraft, see paragraph 10(c)).

10. MODAL REQUIREMENTS:

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

b. Transportation by cargo vessel is strictly limited to private off-shore supply vessels engaged in oil well operations.

c. Transportation by cargo aircraft, including helicopters, is strictly limited to private carriers engaged in oil well operations.

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:

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

- 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.:

for Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

JUL 25 2003
(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: CHKe/sln

JUL 2 5 2003

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Baker Oil Tools Houston, TX	Jul 15, 2003	JUL 2 5 2003	Jun 30, 2005

for Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety