

Extractive & Process Technologies

CASE STUDY

Ciba® ALCOMER® 175L

Enhanced Flow

CASE HISTORY 1

Location

Oil Production Platform, Central North Sea.

Reason for Application

To increase seawater injection into selected wells for improved oil recovery.

Well Parameters

Deviated platform well, approximately 6000 metres of 7 ½ inch tubing. Wellhead pressure, 265 Bar.g. W.I. rate, 55,855 bwpd.

Drag Reducer Injection

Alcomer 175L was gravity fed from a drum to an air-driven positive displacement chemical injection pump. It was then injected at dosages in the range 10-60 ppm via an injection quill located between the injection header and the wellhead.



Results

175L injection rate litres/hr	Initial WI rate bwpd	Final WI rate bwpd	175L dosage based on initial WI rate	% increase in WI rate
3.6	55,855	59,930	10 ppm	7
7.2	55,855	63,100	20 ppm	13
10.8	55,855	64,160	30 ppm	15
14.4	55,855	65,365	40 ppm	17
21.6	55,855	67,328	60 ppm	20

CASE HISTORY 2

Location

Oil Production Platform, Northern North Sea.

Reason for Application

An increase in seawater injection rate into selected wells had been identified as a low cost method of extending the fields commercial viability.

Well Parameters

Deviated platform well, approximately 4000 metres of 5 ½ inch tubing. Wellhead pressure, 220 Bar.g. W.I. rate, 23720 bwpd.

Results

175L injection rate litres/hr	Initial WI rate bwpd	Final WI rate bwpd	175L dosage based on initial WI rate	% increase in WI rate
2.5	23,722	25,967	15 ppm	9.4
5.0	23,722	27,449	30 ppm	15.7
10.0	23,722	28,573	60 ppm	20.5

CASE HISTORY 3

Location

Water Injection System, UK Oilfield.

Reason for Application

To increase throughput in the main pipeline feeding the water injection wells and increase injection pressure to give improved oil recovery.

Pipeline Parameters

Length 6.4km
Diameter 10 inches reducing to 8
Inlet Pressure 125 Bar.g
Throughput 75,000 bwpd

Drag Reducer Injection

Alcomer 175L was injected at dosages in the range 30-80ppm via a flush mounted injection line located near the pipeline inlet.

Results

175L injection rate litres/hr	Initial throughput bwpd	Final throughput bwpd	175L dosage based on initial throughput	% increase in throughput
15	75,000	81,500	30 ppm	8.7
30	75,000	85,200	60 ppm	13.6
42	75,000	87,200	84 ppm	16.3



Copyright © 2005 Ciba Specialty Chemicals Inc. All rights reserved.

All trademarks mentioned are either property of or licensed to Ciba Specialty Chemicals and registered in relevant countries.

IMPORTANT: The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for the intended conditions of use. The product(s) has (have) not been tested for, and is (are) therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended. Please note that products may differ from country to country. If you have any queries, kindly contact your local Ciba Specialty Chemicals representative. Further information at website: www.cibasc.com

Ciba Specialty Chemicals
P O Box 38
Low Moor
Bradford West Yorkshire
England BD12 0JZ
Tel: +44 1274 417126
Fax: +44 1274 417075
e.mail: extractives@cibasc.com
www.cibasc.com