By Andrew Scogings, Industrial Minerals Consultant

Drilling Grade Barite

The new multi-client report published by Industrial Minerals Research

Drilling Grade Barite is a detailed report from Industrial Minerals Research that analyses the status of the global barite market, with a particular focus on how developments in the oil and gas extraction industries have affected the supply and demand for this mineral.

Focusing on existing and developing producers, locations of mines and plants, production capacities, grades produced, end markets and customers served as well as price trends and expert analysis, the report will provide information that could prove crucial in making sound investment decisions and understanding the market moving forward.

ORDER YOUR COPY TODAY

Please tick relevant boxes

[ ] £3000 [ ] £4000

[ ] £4720

Please tick relevant box

[ ] Invoice me / my company

Please tick relevant box

[ ] Visa [ ] MasterCard [ ] AMEX

Please tick relevant box

[ ] Please do not email credit card details

<table>
<thead>
<tr>
<th>Card number</th>
<th>Expiry date</th>
<th>CVV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Three easy ways to order:

Tel: +44 (0)30 7778 8022
Email: sales@indmin.com
Online: www.indmin.com/Reports

Please use your information to ensure a secure payment and regulatory compliance with your data.

Drilling Grade Barite
Supply, Demand & Market Developments

DRILLING GRADE BARITE

Authors

Andrew Scogings, Industrial Minerals Consultant, KilStone Pty Ltd

Emma Hughes, Report Editor, Industrial Minerals Research

Andrew Scogings graduated as a geologist in the late 1970s and started his career on underground copper mines in Zimbabwe, followed by a stint in Western Australia, gold mines and geoscientific position for nickel, and rare earth elements (REE) in eastern South Africa. He was introduced in the late 1980s to industrial minerals while completing post-graduate MSc and PhD research on alkaline granite/nepheline syenite complexes in Natal, South Africa.

During the 90s Andrew was employed as a geologist and subsequently marketing manager for G&W Minerals, a leading diversified industrial minerals company based near Johannesburg.

Managing of G&W’s diverse portfolio of minerals from barite, bentonite and other clays through to coal dust, GCC, limestone, perlite, talc and natural pigments provided him with the skills to handle market demands and international contacts to take up a position as a geologist at a start-up barite mine in Queensland in 2001.

Moving to Perth in 2002 Andrew found employment with AMOCOL International, managing bentonite exploration projects in China, Turkey and Australia. During 2008 he established KilStone Pty Ltd and has since worked on numerous industrial mineral projects including bentonite, chrome, potash, reverse采石, REE, vermiculite and graphite in countries across the globe.

Andrew has recently published several papers on the requirements of JCIR 2012 Clause 40, highlighting the need to report industrial minerals resources according to market specifications.

Emma joined Industrial Minerals in September 2012 as Deputy Editor following several years of technology research in the semiconductor, consumer technology and photovoltaics industries.

During her time at Industrial Minerals (IM), Emma has researched, written and devised editorial on all aspects on the industrial minerals industry. She is now the Commercial Editor of IM and Head of Research, working across the three business divisions: IM Research, IM Insight and IM Data.

Before joining IM, Emma followed global photovoltaics development for a number of years, having written for the technology journal Photovoltaics International and global online news and information resource, PV-Tech.org. From 2010-2012 Emma was Editor of UK solar industry website Solar Power Portal and the Solar Business Focus UK magazine.

ORDER YOUR COPY TODAY

Please tick relevant boxes

[ ] £3000 [ ] £4000

[ ] £4720

Please tick relevant box

[ ] Invoice me / my company

Please tick relevant box

[ ] Visa [ ] MasterCard [ ] AMEX

Please tick relevant box

[ ] Please do not email credit card details

<table>
<thead>
<tr>
<th>Card number</th>
<th>Expiry date</th>
<th>CVV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Three easy ways to order:

Tel: +44 (0)30 7778 8022
Email: sales@indmin.com
Online: www.indmin.com/Reports

Please use your information to ensure a secure payment and regulatory compliance with your data.

Drilling Grade Barite
Supply, Demand & Market Developments

DRILLING GRADE BARITE

Authors

Andrew Scogings, Industrial Minerals Consultant, KilStone Pty Ltd

Emma Hughes, Report Editor, Industrial Minerals Research

Andrew Scogings graduated as a geologist in the late 1970s and started his career on underground copper mines in Zimbabwe, followed by a stint in Western Australia, gold mines and geoscientific position for nickel, and rare earth elements (REE) in eastern South Africa. He was introduced in the late 1980s to industrial minerals while completing post-graduate MSc and PhD research on alkaline granite/nepheline syenite complexes in Natal, South Africa.

During the 90s Andrew was employed as a geologist and subsequently marketing manager for G&W Minerals, a leading diversified industrial minerals company based near Johannesburg.

Managing of G&W’s diverse portfolio of minerals from barite, bentonite and other clays through to coal dust, GCC, limestone, perlite, talc and natural pigments provided him with the skills to handle market demands and international contacts to take up a position as a geologist at a start-up barite mine in Queensland in 2001.

Moving to Perth in 2002 Andrew found employment with AMOCOL International, managing bentonite exploration projects in China, Turkey and Australia. During 2008 he established KilStone Pty Ltd and has since worked on numerous industrial mineral projects including bentonite, chrome, potash, reverse采石, REE, vermiculite and graphite in countries across the globe.

Andrew has recently published several papers on the requirements of JCIR 2012 Clause 40, highlighting the need to report industrial minerals resources according to market specifications.

Emma joined Industrial Minerals in September 2012 as Deputy Editor following several years of technology research in the semiconductor, consumer technology and photovoltaics industries.

During her time at Industrial Minerals (IM), Emma has researched, written and devised editorial on all aspects on the industrial minerals industry. She is now the Commercial Editor of IM and Head of Research, working across the three business divisions: IM Research, IM Insight and IM Data.

Before joining IM, Emma followed global photovoltaics development for a number of years, having written for the technology journal Photovoltaics International and global online news and information resource, PV-Tech.org. From 2010-2012 Emma was Editor of UK solar industry website Solar Power Portal and the Solar Business Focus UK magazine.
The word barite, sometimes barytes, is derived from the Greek βαρύς, meaning heavy. This is apt considering this mineral’s role in the oilfield, where it can be used in drilling mud to lubricate the drill bit, prevent blowouts of oil and collapse of the drilling-well wall, to carry drill cuttings from the well bottom to the surface or as a weighting agent in hydraulic fracturing operations, aiding proppant suspension.

Owing to its suitability for both conventional and unconventional operations, demand for barite has risen over the past few years, largely in line with the hydraulic fracturing boom that has been sweeping the US.

The oilfield market accounts for 84% of global barite production, a figure that is expected to increase with the growing amount of hydraulic fracturing activity taking place not only in the US, but also in Europe, China and other areas of the world.

In the drilling mud market, alternatives to barite include celestite, limesite, iron ore and synthetic hematite, manufactured in Germany. None of these substitutes, however, has had a major impact on the barite drilling mud industry, according to the US Geological Survey.

This report will take a look at how the drilling-grade barite market has grown following this spike in oilfield activity as well as analysing how it is expected to develop over the coming years.

The study will cover the following key topics:

- Barite basics
- Market basics
- Supply by country
- Trade
- Market trends and development
- Outlook and forecasts

Introduction

Contents

1. Introduction
   - An overview of the drilling grade barite industry

2. Barite basics
   - Mineralogy, properties
   - Occurrence
   - Commercial exploitation: extraction, processing, supply
   - Commercial grades, specifications, prices

3. Market basics
   - Oil and gas drilling and drilling fluids
   - Industrial mineral consumption and applications
   - Weighting agents in drilling fluids
   - Oil and gas drilling market supply chain
   - Oil and gas drilling market status

4. Supply
   - World overview
     - By country
       - Main deposits: type, occurrence, geography
       - Production: 2008-2014
       - Producers: business/activity summary, operations, grades, markets, developments

5. Exploration
   - Projects: location, operating company, reserves, status, objectives

6. Trade
   - Exporters
   - Importers
   - Prices

7. Market trends and development
   - Main market regions
   - Key trends and developments

8. Outlook and forecasts

9. Conclusions

Source: Baker Hughes Inc.

Source: Jose Mesa/Flickr