

MARCH 2015



CRUDE REALITIES IN THE OIL MARKET

A special report by the Portfolio Advisory Group

There's Wealth in Our Approach.™

Mark Allen, CFA – Portfolio Advisor

mark.d.allen@rbc.com; RBC Dominion Securities Inc.

Patrick McAllister, CFA – Associate Advisor

patrick.mcallister@rbc.com; RBC Dominion Securities Inc.

For Required Disclosures see page 5.

Priced in USD as of March 25, 2015, unless otherwise stated.



RBC Wealth Management
Dominion Securities

CRUDE REALITIES IN THE OIL MARKET

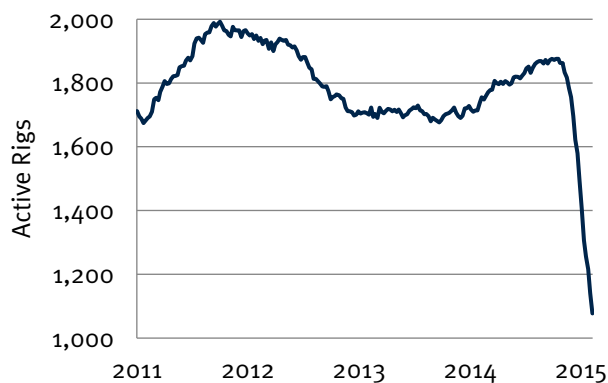
The dizzying rollercoaster ride in crude oil prices has continued in recent months. Falling U.S. rig counts led to optimism in February. However, storage capacity concerns and the possibility of an Iranian nuclear deal unlocking a flood of new supply weighed on sentiment in March. The supply adjustment process has just begun and will take time to play out. With these forces tugging the market in different directions, the bottom in crude oil prices is difficult to pinpoint.

SLASH IN RIG COUNTS YET TO DENT U.S. SUPPLY GROWTH

Lower oil prices have led to a dramatic curtailment of drilling activity. Capital spending budgets are down approximately 35%–40% for independent exploration and production companies (E&Ps) and down about 10%–30% for international oil companies. The active rig count for U.S. onshore oil drilling has plunged 43% from its recent peak. Specifically, activity in major shale oil plays is down 45% in the Bakken (Williston Basin), 37% in the Eagle Ford, and 42% in the Permian.

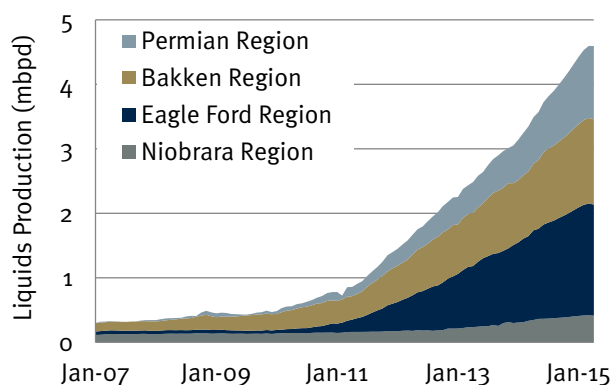
This is a positive and necessary step towards rebalancing the global oil market. However, it will take time before lower drilling activity translates into less production. Production growth continues from the major U.S. shale plays as legacy drilling is brought on stream and new drilling in the best quality rock continues.

U.S. Land Drilling Active Rig Count for Oil



Source - Baker Hughes; data through 3/13/15

U.S. Shale Oil Production



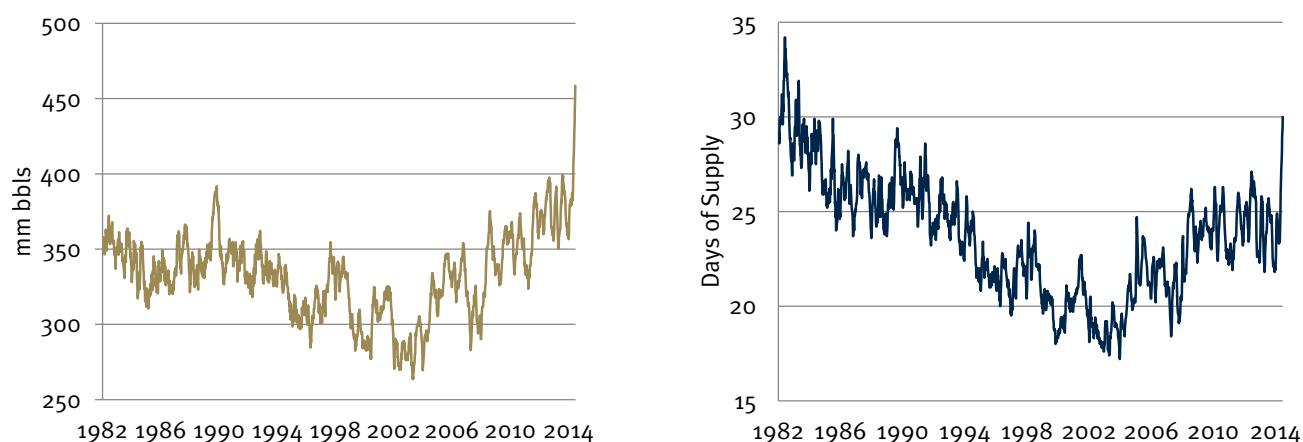
Source - U.S. Energy Information Administration (EIA), RBC Wealth Management; EIA provides forecast data for unreported months

OIL STORAGE OVERFLOW?

Seemingly unrelenting supply growth has contributed to U.S. crude oil inventories reaching new multi-decade highs. In the week ended March 13, U.S. commercial crude inventories hit a whopping 459 million barrels. On a days-of-supply basis, U.S. crude stocks have ballooned to levels last witnessed in the 1980s. This inventory surge is prompting concerns over available crude storage capacity and the impact rising utilization levels could have on near-term prices.

CRUDE REALITIES IN THE OIL MARKET

Weekly U.S. Crude Stocks and Days of Supply Since 1982

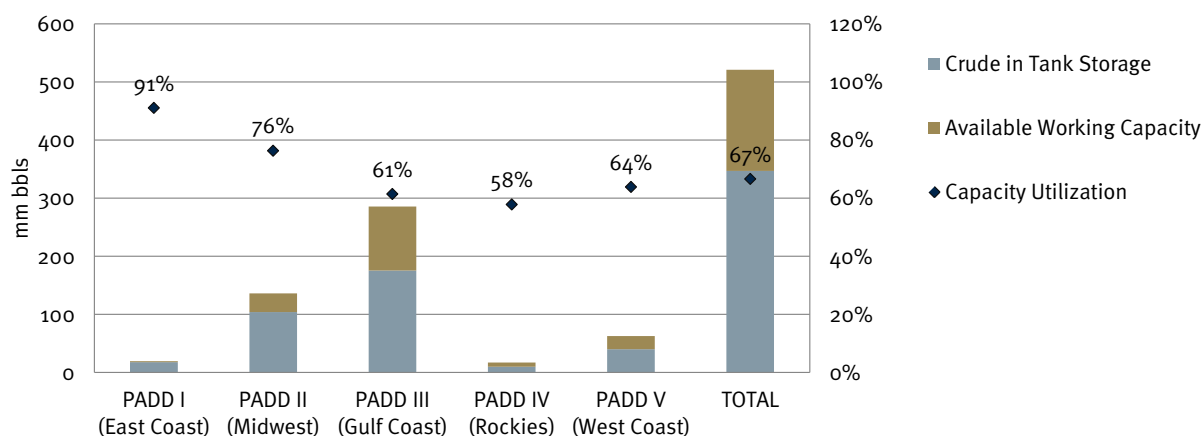


Source - EIA; data through 3/13/15

When assessing inventory and capacity figures, investors should be careful not to mix apples and oranges. For instance, one shouldn't compare U.S. Energy Information Administration (EIA) inventory levels to simple tank storage capacity. EIA inventory figures include crude located in both tanks and pipelines, while its estimate of storage capacity only factors in tanks.

For an accurate estimate of capacity utilization, inventory figures need to be adjusted for estimated pipeline fill, lease stock, and volumes in transit. Adjusting for these elements, a more accurate sense of storage capacity utilization at each PADD (Petroleum Administration for Defense Districts) emerges.

Estimated Storage Capacity Utilization by PADD



Source - EIA, RBC Wealth Management; data through 3/13/15

It also bears noting that the capacity utilization figures outlined above are likely conservative in that they underestimate total storage capacity available for two main reasons: (1) the EIA's tank storage estimates were tabulated in September 2014 and new facilities have likely come into service since that time; and (2) the storage estimate doesn't account for crude located in floating storage (i.e., offshore tankers), on barges, or in rail cars.

We are paying close attention to the inventory accumulation in PADD II, where Cushing, Oklahoma is located. Cushing is a critical hub in the North American oil market, given its status as the delivery point for contracts linked to the WTI benchmark. A crude glut at Cushing can have an outsized impact on near-term prices.

CRUDE REALITIES IN THE OIL MARKET

That being said, infrastructure constraints at Cushing have been greatly alleviated by recent pipeline projects. The reversal and expansion of Enbridge's Seaway Pipeline and TransCanada's Gulf Coast Pipeline have contributed much-needed crude outlet capacity from the region to the U.S. Gulf Coast. Should storage utilization continue to climb (with presumably upward pressure on local storage rates), we expect differentials in time and location will likely adjust and, unlike when infrastructure constraints were more pronounced, crude will be able to flow elsewhere.

Investors should keep in mind that the ongoing supply growth has occurred at a difficult time for the market to absorb it. At this time of year, U.S. refineries typically run at reduced utilization rates due to planned seasonal maintenance ahead of the summer driving season. Exacerbating the situation, certain refineries have endured unplanned shutdown and workforce strikes.

A seasonally driven return to higher utilization rates in April and through the height of summer, along with an improvement in unplanned downtime, would help alleviate swelling U.S. inventories. Progress on the refinery strikes, which resulted in 6,500 union members off the job at its peak, appears to have been made with the broad strokes of a resolution agreed to in mid-March.

IRAN NUCLEAR NEGOTIATIONS

MUDDY THE OUTLOOK

Negotiations between Iran and the five permanent members of the U.N. Security Council plus Germany (P5+1) are working towards a framework agreement concerning Iran's nuclear program. The P5+1 would like to see Iran reduce its stockpile of enriched uranium, cap the number of operational centrifuges, and allow for more thorough inspections of its nuclear facilities.

Iran wants the U.S. and EU to lift sanctions so that it can export more crude oil. If this occurs, industry analysts estimate that 0.5–1 million barrels per day (bbl/d) of additional exports from Iran could hit the market. The timing of the ramp-up in exports could be constrained by either legal or operational challenges. If restored quickly, an additional 1 million bbl/d of supply into an already oversupplied global market would swiftly deepen and potentially lengthen the oil rout.

CONCLUSION

The price of oil has been weighed down recently on rising storage figures in the U.S. and concerns around new production from Iran. The rebalancing of the global oil market has started, but it will take time for production growth to slow. While the storage situation should resolve itself eventually, it could lead to acute pressure on oil prices in the near term. Should a nuclear deal be struck with Iran, this new flood of supply could lead to a deeper and more protracted trough in oil prices.

RBC Capital Markets forecasts average prices for WTI crude oil of \$41.50/bbl in Q2 2015, \$55.31 in Q3, and \$70.16 in Q4. Near-term prices will likely be driven by catalysts such as talks with Iran, any reaction from OPEC, storage capacity concerns, and other supply-side wild cards (e.g., Libya and Iraq).

Iranian Oil Production



Source - Bloomberg; data through 2/28/15

CRUDE REALITIES IN THE OIL MARKET

REQUIRED DISCLOSURES

This report is issued by the Portfolio Advisory Group (“PAG”) which is part of the retail division of RBC Dominion Securities Inc. (“RBC DS”). The PAG provides portfolio advisory services to RBC DS Investment Advisors. Reports published by the PAG may be made available to clients of RBC DS through its Investment Advisors. The PAG relies on a number of different sources when preparing its reports including, without limitation, research reports published by RBC Capital Markets (“RBC CM”). RBC CM is not independent of RBC DS or the PAG. RBC CM is a business name used by Royal Bank of Canada and certain of its affiliates, including RBC DS, in connection with its corporate and investment banking activities. As a result of the relationship between RBC DS, the PAG and RBC CM, there may be conflicts of interest relating to the RBC CM analyst that is responsible for publishing research on a company referred to in a report issued by the PAG.

Explanation of RBC Capital Markets Rating System

An analyst’s “sector” is the universe of companies for which the analyst provides research coverage. Accordingly, the rating assigned to a particular stock represents solely the analyst’s view of how that stock will perform over the next 12 months relative to the analyst’s sector average. Although RBC Capital Markets’ ratings of Top Pick (TP)/Outperform (O), Sector Perform (SP), and Underperform (U) most closely correspond to Buy, Hold/Neutral and Sell, respectively, the meanings are not the same because our ratings are determined on a relative basis.

Ratings

Top Pick (TP): Represents analyst’s best idea in the sector; expected to provide significant absolute total return over 12 months with a favorable risk-reward ratio.

Outperform (O): Expected to materially outperform sector average over 12 months.

Sector Perform (SP): Returns expected to be in line with sector average over 12 months.

Underperform (U): Returns expected to be materially below sector average over 12 months.

Risk Ratings

As of March 31, 2013, RBC Capital Markets suspends its Average and Above Average risk ratings. The Speculative risk rating reflects a security’s lower level of financial or operating predictability, illiquid share trading volumes, high balance sheet leverage, or limited operating history that result in a higher expectation of financial and/or stock price volatility.

RBC CM - Distribution of Ratings

For purposes of ratings distributions, regulatory rules require member firms to assign ratings to one of three rating categories –Buy, Hold/Neutral, or Sell—regardless of a firm’s own rating categories. Although RBC Capital Markets’ ratings of Top Pick/Outperform, Sector Perform and Underperform most closely correspond to Buy, Hold/Neutral and Sell, respectively, the meanings are not the same because our ratings are determined on a relative basis (as described above).

Distribution of Ratings - RBC Capital Markets, LLC Equity Research As of December 31, 2014				
Rating	Count	Percent	Investment Banking Services Provided During Past 12 Months	
			Count	Percent
Buy [Top Pick & Outperform]	897	52.92	290	32.33
Hold [Sector Perform]	686	40.47	137	19.97
Sell [Underperform]	112	6.61	6	5.36

RBC CM – Conflicts Policy

RBC Capital Markets Policy for Managing Conflicts of Interest in Relation to Investment Research is available from us on request. To access our current policy, clients should refer to <https://www.rbccm.com/global/file-414164.pdf> or send a request to RBC Capital Markets Research Publishing, P.O. Box 50, 200 Bay Street, Royal Bank Plaza, 29th Floor, South Tower, Toronto, Ontario M5J 2W7. We reserve the right to amend or supplement this policy at any time.

Dissemination of Research & Short Term Ideas

RBC Capital Markets endeavours to make all reasonable efforts to provide research simultaneously to all eligible clients, having regard to local time zones in overseas jurisdictions. Subject to any applicable regulatory considerations, “eligible clients” may include RBC Capital Markets institutional clients globally, the retail divisions of RBC Dominion Securities Inc. and RBC Capital Markets LLC, and affiliates. RBC Capital Markets’ equity research is posted to our proprietary websites to ensure eligible clients receive coverage initiations and changes in rating, targets and opinions in a timely manner. Additional distribution may be done by the sales personnel via email, fax or regular mail. Clients may also receive our research via third party vendors. Please contact your investment advisor or institutional salesperson for more information regarding RBC Capital Markets research. RBC Capital Markets also provides eligible clients with access to SPARC on its proprietary INSIGHT website. SPARC contains market color and commentary, and may also contain Short-Term Trade Ideas regarding the securities of subject companies discussed in this or other research reports. SPARC may be accessed via the following hyperlink: www.rbccm.com/SPARC. A Short-Term Trade Idea reflects the research analyst’s directional view regarding the price of the security of a subject company in the coming days or weeks, based on market and trading events. A Short-Term Trade Idea may differ from the price targets and/or recommendations in our published research reports reflecting the research analyst’s views of the longer-term (one year) prospects of the subject company, as a result of the differing time horizons, methodologies and/or other factors. Thus, it is possible that the security of a subject company that is considered a long-term ‘Sector Perform’ or even an ‘Underperform’ might be a short-term buying opportunity as a result of temporary selling pressure in the market; conversely, the security of a subject company that is rated a long-term ‘Outperform’ could be considered susceptible to a short-term downward price correction. Short-Term Trade Ideas are not ratings, nor are they part of any ratings system, and RBC Capital Markets generally does not intend, nor undertakes any obligation, to maintain or update Short-Term Trade Ideas. Short-Term Trade Ideas discussed in SPARC may not be suitable for all investors and have not been tailored to individual investor circumstances and objectives, and investors should make their own independent decisions regarding any Short-Term Trade Ideas discussed therein.

RBC CM Conflicts Disclosures

In the event that this is a compendium report (covers six or more subject companies), RBC DS may choose to provide specific disclosures for the subject companies by reference. To access RBC CM’s current disclosures of these companies, please go to <https://www.rbccm.com/GLDisclosure/PublicWeb/DisclosureLookup.aspx?EntityID=1>.

Such information is also available upon request to RBC Dominion Securities, Attention: Manager, Portfolio Advisory Group, 155 Wellington Street West, 17th Floor, Toronto, ON M5V 3K7.

The Global Industry Classification Standard (“GICS”) was developed by and is the exclusive property and a service mark of MSCI Inc. (“MSCI”) and Standard & Poor’s Financial Services LLC (“S&P”) and is licensed for use by RBC. Neither MSCI, S&P, nor any other party involved in making or compiling the GICS or any GICS classifications makes any express or implied warranties or representations with respect to such standard or classification (or the results to be obtained by the use thereof), and all such parties hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability

CRUDE REALITIES IN THE OIL MARKET

and fitness for a particular purpose with respect to any of such standard or classification. Without limiting any of the foregoing, in no event shall MSCI, S&P, any of their affiliates or any third party involved in making or compiling the GICS or any GICS classifications have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages.

DISCLAIMER

The information contained in this report has been compiled by RBC Dominion Securities ("RBC DS") from sources believed by it to be reliable, but no representations or warranty, express or implied, are made by RBC DS or any other person as to its accuracy, completeness or correctness. All opinions and estimates contained in this report constitute RBC DS' judgment as of the date of this report, are subject to change without notice and are provided in good faith but without legal responsibility. This report is not an offer to sell or a solicitation of an offer to buy any securities.

Additionally, this report is not, and under no circumstances should be construed as, a solicitation to act as securities broker or dealer in any jurisdiction by any person or company that is not legally permitted to carry on the business of a securities broker or dealer in that jurisdiction. This material is prepared for general circulation to Investment Advisors and does not have regard to the particular circumstances or needs of any specific person who may read it. RBC DS and its affiliates may have an investment banking or other relationship with some or all of the issuers mentioned herein and may trade in any of the securities mentioned herein either for their own account or the accounts of their customers. RBC DS and its affiliates may also issue options on securities mentioned herein and may trade in options issued by others. Accordingly, RBC DS or its affiliates may at any time have a long or short position in any such security or option thereon. Neither RBC DS nor any of its affiliates, nor any other person, accepts any liability whatsoever for any direct or consequential loss arising from any use of this report or the information contained herein. This report may not be reproduced, distributed or published by any recipient hereof for any purpose.

RBC Dominion Securities Inc.* and Royal Bank of Canada are separate corporate entities which are affiliated. *Member-Canadian Investor Protection Fund. RBC Dominion Securities Inc. is a member company of RBC Wealth Management, a business segment of Royal Bank of Canada. ®Registered trademarks of Royal Bank of Canada. Used under licence. ©2015 Royal Bank of Canada. All rights reserved.