Director’s Cut
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Oil Production
February  32,453,679 barrels = 1,119,092 barrels/day
March  34,386,634 barrels = 1,109,246 barrels/day (preliminary)(all-time high was Dec 2014 at 1,227,483 barrels/day)
1,057,086 barrels per day or 95% from Bakken and Three Forks
52,160 barrels per day or 5% from legacy conventional pools

Gas Production
February  48,987,408 MCF = 1,689,221 MCF/day
March  53,002,954 MCF = 1,709,773 MCF/day (preliminary)(NEW all-time high)

Producing Wells
February  13,017
March  13,024 (preliminary)(all-time high was Oct 2015 13,190)
10,970 wells or 84% are now unconventional Bakken – Three forks wells
2,054 wells or 16% produce from legacy conventional pools

Permitting
February  70 drilling and 1 seismic
March  56 drilling and 4 seismic
April  66 drilling and 0 seismic (all time high was 370 in 10/2012)

ND Sweet Crude Price
February  $18.07/barrel
March  $26.62/barrel April  $26.87/barrel
       $33.00/barrel (all-time high was $136.29 7/3/2008)

Rig Count
February  40
March  32
April  29
Today’s rig count is 27 (lowest since July 2005 when it was 27)(all-time high was 218 on 5/29/2012)

1 Pricing Source: Flint Hills Resources
The statewide rig count is down 88% from the high and in the five most active counties rig count is down as follows:
Divide    -85% (high was 3/2013)
Dunn      -87% (high was 6/2012)
McKenzie  -81% (high was 1/2014)
Mountrail -93% (high was 6/2011)
Williams  -98% (high was 10/2014)

Comments:
The drilling rig count fell 8 from February to March, 3 from March to April, and 2 more from April to today. Operators remain committed to running the minimum number of rigs while oil prices remain below $60/barrel WTI. The number of well completions fell from 64(final) in February to 59(preliminary) in March. Oil price weakness is the primary reason for the slow-down and is now anticipated to last into at least the third quarter of this year and perhaps into the second quarter of 2017. There were no significant precipitation events, 4 days with wind speeds in excess of 35 mph (too high for completion work), and no days with temperatures below -10F.

Over 98% of drilling now targets the Bakken and Three Forks formations.

Estimated wells waiting on completion services is 920, up 13 from the end of February to the end of March.

Estimated inactive well count is 1,523, up 84 from the end of February to the end of March.

Crude oil take away capacity remains dependent on rail deliveries to coastal refineries to remain adequate.

Low oil price associated with lifting of sanctions on Iran and a weaker economy in China are expected to lead to continued low drilling rig count. Utilization rate for rigs capable of 20,000+ feet is about 30% and for shallow well rigs (7,000 feet or less) about 20%.

Drilling permit activity declined February to March then fell further in April as operators continue to position themselves for low 2016 price scenarios. Operators have a

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2 The number of wells waiting on completions is an estimate on the part of the director based on idle well count and a typical five year average. Neither the State of North Dakota, nor any agency officer, or employee of the State of North Dakota warrants the accuracy or reliability of this product and shall not be held responsible for any losses caused by this product. Portions of the information may be incorrect or out of date. Any person or entity that relies on any information obtained from this product does so at his or her own risk.

3 Includes all well types on IA and AB statuses. IA= Inactive shut in >3 months and <12 months
   AB= Abandoned (Shut in >12 months)
significant permit inventory should a return to the drilling price point occur in the next 12 months.

Rigs actively drilling on federal surface in the Dakota Prairie Grasslands remains at 0.

Activity on the Fort Berthold Reservation is as follows:
5 drilling rigs (0 on fee lands and 5 on trust lands)
177,553 barrels of oil per day (120,260 from trust lands & 57,293 from fee lands)
1,438 active wells (982 on trust lands & 456 on fee lands)
152 wells waiting on completion
549 approved drilling permits (368 on trust lands & 181 on fee lands)
1,802 additional potential future wells (1,286 on trust lands & 516 on fee lands)

Seismic activity is unchanged. There are 4 surveys active, 0 recording and 0 NDIC reclamation projects, 0 remediating, 3 suspended, and 1 permitted.

North Dakota leasing activity is limited to renewals and top leases in the Bakken - Three Forks area.

US natural gas storage is now 46.7% above the five-year average indicating low prices in the future. North Dakota shallow gas exploration could be economic at future gas prices, but is not at the current price. The operator of the exploration well (file 27235) in Emmons County has received Temporary Abandoned status on 8/31/15 and cancelled all other permits in the area. The well appears to contain 2 pay sections totaling about 80 feet thick with very good gas shows.

The price of natural gas delivered to Northern Border at Watford City is up $0.11 to $1.57/MCF. This results in a current oil to gas price ratio of 21 to 1. The percentage of gas flared dropped below 10% to 9.7% (first month below 10% since December 2007). The Tioga gas plant operated at 80% of capacity. Even though the expansion of gas gathering from south of Lake Sakakawea was approved, the approval came too late for the 2015 construction season, resulting in a 1 year delay. The March Bakken capture percentage was 90% with the daily volume of gas flared from February to March down 24.3 MMCFD. The historical high flared percent was 36% in 09/2011.

Gas capture statistics are as follows:
Statewide 90%
Statewide Bakken 91%
Non-FBIR Bakken 92%
FBIR Bakken 87%
   Trust FBIR Bakken 86%
   Fee FBIR 89%
77% January 1, 2015 through March 31, 2016
80% April 1, 2016 through October 31, 2016
85% November 1, 2016 through October 31, 2018
88% November 1, 2018 through October 31, 2020
91% beginning November 1, 2020
The North Dakota Legislature passed HB1432 which sets up a council to address Clean Water Act, Safe Drinking Water Act, Clean Air Act, and Endangered Species Act issues: BIA has published a new final rule to update the process for obtaining rights of way on Indian land. The rule was published 11/19/15 and became effective 12/21/15. The final rule can be found at https://www.federalregister.gov/articles/2015/11/19/2015-28548/rights-of-way-on-indian-land. On March 11, 2016, the Western Energy Alliance filed a complaint and motion for a temporary restraining order and/or a preliminary injunction. On April 19, 2016, the US District court for the District of North Dakota issued an order denying the motion for a preliminary injunction.

BLM has published a new final rule to revise Onshore Order 4. The proposed rule would replace Onshore Oil and Gas Order Number 4 (Order 4), which sets minimum standards for the measurement of oil. Order 4 has not been updated since 1989, and does not reflect modern industry practices or standards. The proposed rule may be viewed online at www.regulations.gov. Comments on the proposed rule were due March 14, 2015. NDIC comments can be found at http://www.nd.gov/ndic/ic-press/BLM-Comments-OnshoreOrder4.pdf

BLM released a proposed rule on 10/2/15 to update and replace its regulations (Onshore order 5) governing the measurement of natural gas produced from onshore Federal and Indian leases. The requirements contained in the proposed rule reflect advances in measurement technology and critical updates in industry standards and practices. It also responds directly to concerns from the Government Accountability Office (GAO), the Department of the Interior’s Office of Inspector General, and Secretary’s Subcommittee on Royalty Management, that the BLM’s existing rules do not provide adequate assurance that gas production on public and Indian lands is being accounted for in a way that ensures that all royalties are accurately tracked and paid. The proposed rule that would replace Onshore Order 5 may be viewed online at www.blm.gov. Comments on the proposed rule were due March 14, 2015. NDIC comments can be found at http://www.nd.gov/ndic/ic-press/BLM-Comments-1004-AE17.pdf

BLM released a proposed rule on 1/22/16 to update and replace its regulations on venting and flaring of natural gas. The information from public and tribal sessions in Denver, Albuquerque, Dickinson, and Washington, DC can be viewed at http://www.blm.gov/wo/st/en/prog/energy/oil_and_gas/public_events_on_oil.html. NDIC comments can be found at http://www.nd.gov/ndic/ic-press/BLM-comments-140509.pdf. Comments on the proposed rule were due April 22, 2016. NDIC comments can be found at http://www.nd.gov/ndic/ic-press/dmr-blm-43CFR.pdf

BLM revised final regulations for hydraulic fracturing on federal and Indian lands were published in the CFR on 3/26/15 and they were scheduled to go into effect 6/24/15. North Dakota, Colorado, Utah, Wyoming, Western Energy Alliance, and IPAA filed for a preliminary injunction to prevent the rules going into effect until the case is settled.
Following a lengthy hearing in Casper, Wyoming on Aug 23, the court issued a stay on the rules. On 9/30/15 the court granted the preliminary injunction, preventing the rules from being enforced until litigation on the rule is final. The 10th Circuit Court of Appeals issued an order 3/10/16 denying the industry alternative motion for a stay. Briefs have been filed in U.S District Court of Wyoming on the merits of the final rule. The US Court of Appeals for the Tenth Circuit preliminary injunction appeal briefing will be completed in June 2016. NDIC comments can be found at http://www.nd.gov/ndic/ic-press/BLM-comments-120625.pdf

BLM has published a new final rule to revise Onshore Order 3. The proposed rule would change the way federal production is measured and allocated for calculation of royalties, require a federal Application for Permit to Drill (APD) even for state and private wells in a federal unit or communitized area (CA), and revise the situations in which downhole commingling of production from different leaseholds would be allowed. Comments on the proposed rule were due March 14, 2015. NDIC comments can be found at http://www.nd.gov/ndic/ic-press/BLM-Comments-OnshoreOrder3.pdf

BLM has published the North Dakota Greater Sage-Grouse Proposed Resource Management Plan Amendment and Final EIS. Information on the plan and EIS can be found at the following web addresses: https://www.blm.gov/epl-front-office/eplanning/planAndProjectSite.do?methodName=dispatchToPatternPage&currentPageId=48797

EPA On February 26, 2015 a coalition of environmental organizations filed a 60 day legal notice with the U.S. Environmental Protection Agency demanding more regulation of drilling and fracking waste. The groups are the Environmental Integrity Project, Natural Resources Defense Council, Earthworks, Responsible Drilling Alliance, San Juan Citizens Alliance, West Virginia Surface Owners Rights Organization, and the Center for Health, Environment and Justice. On May 4, 2016 the same environmental groups filed suit against the EPA in the federal district court for the District of Columbia. The Plaintiffs Alleged that EPA "has failed to meet its nondiscretionary duty" under the federal Resource Conservation and Recovery Act (RCRA) to review and revise the RCRA Subtitle D solid waste regulations for O&G wastes every three years and that EPA last completed such a review in 1988 and that EPA has failed to review or revise the guidelines for state solid waste plans since 1981. Plaintiffs want to force EPA to do two things-
1. Issue more stringent regulations for managing and disposing of O&G wastes, including on issues such as open-air pits and impoundments used for storing O&G wastewater, underground injection wells, and the transportation of O&G wastes by truck or pipeline.
The state of North Dakota has determined that it should intervene in order to prevent a sue and settle situation that would adversely impact state regulatory jurisdiction.

EPA Prime Minister Justin Trudeau and President Barack Obama announced Thursday 3/10/16 their two countries will work together to reduce methane emissions from the oil and gas sector by 40 to 45 per cent below 2012 levels by 2025.

On May 12, 2016 EPA Administrator McCarthy approved for publication a proposed “Information Collection Effort for Oil and Gas Facilities.” The notice and supporting statement along with the operator survey and facility survey can be found at https://www3.epa.gov/airquality/oilandgas/actions.html.

EPA will be soliciting public comments on specific aspects of the proposed information collection until 60 days after publication in the Federal Register. Submit your comments, referencing Docket ID No. EPA-HQ-OAR-2016-0204, online using http://www.regulations.gov, or by mail to: EPA Docket Center (EPA/DC), Environmental Protection Agency, Mail Code 28221T, 1200 Pennsylvania Ave., NW, Washington, DC 20460.

EPA On May 12, 2016 EPA Administrator McCarthy signed the final rule proposing a suite of changes to Clean Air Act permitting requirements for the oil and natural gas industry. The final 600 page Final Rule and 196 page Regulatory Impact Analysis can be found at https://www3.epa.gov/airquality/oilandgas/actions.html. The final rule is scheduled to become effective 60 days after publication in the Federal Register. NDIC will now begin comparing the final rule to determine if it has significant impacts on North Dakota's ability to administer its oil and gas regulatory program and what action, if any, is appropriate to defend the state’s sovereign jurisdiction over oil and gas regulation.

The proposed actions and NDIC comments are as follows:

EPA published an advanced notice of proposed rule-making to seek comments on the information that should be reported or disclosed for hydraulic fracturing chemical substances and mixtures and the mechanism for obtaining this information. The proposed rule-making is in response to a petition from Earthjustice and 114 other groups who are opposed to the use of the GWPC-IOGCC FracFocus website process of chemical
disclosure and any type of trade secret protection for hydraulic fracturing fluid mixtures. These groups are requesting EPA regulation of chemical disclosure under the federal Toxic Substances Control Act. Thanks to all who provided comments in support of a “states first” policy. NDIC comments can be viewed at [http://www.nd.gov/ndic/ic-press/DMR-frac714.pdf](http://www.nd.gov/ndic/ic-press/DMR-frac714.pdf)

**EPA** Administrator, Gina McCarthy, and the Assistant Secretary of the Army (Civil Works), Jo Ellen Darcy, signed the “Waters of the United States” final rule on 05/27/2015. The final rule was published in the Federal Register Aug 29, 2015 and became effective in 37 states on February 28, 2015. North Dakota, Alaska, Arizona, Arkansas, Colorado, Idaho, Missouri, Montana, Nebraska, New Mexico, Nevada, South Dakota, and Wyoming filed a lawsuit in U.S. District Court, claiming the final rule would harm states as regulators of the waters and lands. On February 27th Federal District Judge Erickson granted a preliminary injunction preventing enforcement of the rule in the 13 states. The North Dakota case will now be subject to appeal, but no schedule has been set at this time. NDIC comments can be viewed at [http://www.nd.gov/ndic/ic-press/WOTUS-comments.pdf](http://www.nd.gov/ndic/ic-press/WOTUS-comments.pdf)

Texas, Mississippi and Louisiana filed a joint complaint in the U.S. District Court for the Southern District of Texas, charging that the rule is unconstitutional. Ohio and Michigan filed a complaint in the U.S. District Court for the Southern District of Ohio, alleging that the expansion of jurisdiction includes dry land. Georgia and eight other states (Alabama, Florida, Kansas, Kentucky, South Carolina, Utah, West Virginia and Wisconsin) filed suit in the U.S. District Court for the Southern District of Georgia, asking the court to vacate the rule and block its enforcement by injunction. On 10/9/15 the United States Court Of Appeals for the Sixth Circuit granted a nationwide stay of the WOTUS rule pending jurisdiction determinations.

**USFWS** has made a decision to list the Dakota Skipper and Powersheik Skipperling to receive protection under the Endangered Species Act. Additional potential listing of concern are the Rufa Red Knot, Sprague’s Pipit, Greater Sage Grouse, Monarch Butterfly, Sturgeon Chub, and Sicklefin Chub.

**USFWS** has published a new final rule to revise Management of Non-Federal Oil and Gas Rights. Key components of the proposed rule include: A permitting process for new operations; A permitting process for well plugging and reclamation for all operations; Information requirements for particular types of operations; Operating standards so that both the Service and the operator can readily identify what standards apply to particular operations; Fees for new access beyond that held as part of the operator's oil and gas right; Financial assurance (bonding); Penalty provisions; Clarification that the process for authorizing access to non-Federal oil and gas properties in Alaska will continue to be controlled by 43 CFR part 36, which implements provisions of the Alaska National Interest Lands Conservation Act; and Codification of some existing agency policies and practices. The proposed rule may be viewed online at [http://www.fws.gov/policy/library/2015/2015-30977.html](http://www.fws.gov/policy/library/2015/2015-30977.html) comments on the proposed rule were due March 9, 2016. NDIC comments can be found at [http://www.nd.gov/ndic/ic-press/DMR-FWS-0086.pdf](http://www.nd.gov/ndic/ic-press/DMR-FWS-0086.pdf)