

Director's Cut

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Oil Production

March 31,796,391 barrels = 1,025,690 barrels/day
April 31,518,892 barrels = 1,050,630 barrels/day (preliminary)
(all-time high was Dec 2014 at 1,227,483 barrels/day)
996,325 barrels per day or 95% from Bakken and Three Forks
54,305 barrels per day or 5% from legacy conventional pools

Gas Production

March 53,650,894 MCF = 1,730,674 MCF/day
April 55,089,235 MCF = 1,836,308 MCF/day (preliminary) (NEW all-time high)

Producing Wells

March 13,693
April 13,717 (preliminary) (NEW all-time high)
11,746 wells or 86% are now unconventional Bakken – Three forks wells
1,971 wells or 14% produce from legacy conventional pools

Permitting

March 93 drilling and 1 seismic
April 58 drilling and 1 seismic
May 100 drilling and 2 seismic (all time high was 370 in 10/2012)

ND Sweet Crude Price¹

March \$38.13/barrel
April \$39.86/barrel
May \$37.85/barrel
Today \$35.50/barrel (all-time high was \$136.29 7/3/2008)

Rig Count

March 46
April 50
May 50
Today's rig count is 55 (all-time high was 218 on 5/29/2012)
The statewide rig count is down 75% from the high and in the five most active counties
rig count is down as follows:

¹ Pricing Source: [Flint Hills Resources](#)

Divide -100% (high was 3/2013)
 Dunn -76% (high was 6/2012)
 McKenzie -68% (high was 1/2014)
 Mountrail -83% (high was 6/2011)
 Williams -77% (high was 10/2014)

Comments:

The drilling rig count increased four from March to April, then remained unchanged from April to May, and is currently up five from May to today. Operators have shifted from running the minimum number of rigs to incremental increases and decreases throughout 2017, as WTI oil price moves above and below \$50/barrel. If WTI drops below \$45/barrel for more than 30 days rig count is expected to drop.

The number of well completions decreased slightly from 61(final) in March to 59 (preliminary) in April.

Oil price weakness is now anticipated to last through the third quarter of 2017. OPEC met the last week of May and decide to extend production cuts for nine months. The markets are watching to see if US shale production offsets OPEC cuts keeping crude oil inventories high.

There were no significant precipitation events, six days with wind speeds in excess of 35 mph (too high for completion work), and no days with temperatures below -10F.

Over 99% of drilling now targets the Bakken and Three Forks formations.

Estimated wells waiting on completion² is 830, up 141 from the end of March to the end of April.

Estimated inactive well count³ is 1,466, up 167 from the end of March to the end of April.

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

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)

Low oil price associated with very high crude oil inventories continued to limit drilling rig count. Utilization rate for rigs capable of 20,000+ feet is 30-35% and for shallow well rigs (7,000 feet or less) 20-25%.

Drilling permit activity dropped sharply from March to April then nearly doubled from April to May. Operators are maintaining a permit inventory that will accommodate increased drilling price points within 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:

11 drilling rigs (1 on fee lands and 10 on trust lands)
 204,707 barrels of oil per day (126,857 from trust lands & 77,851 from fee lands)
 1,645 active wells (1,136 on trust lands & 509 on fee lands)
 97 wells waiting on completion
 508 approved drilling permits (402 on trust lands & 106 on fee lands)
 1,595 potential future wells (1,132 on trust lands & 463 on fee lands)

Seismic activity is down slightly. There are 3 surveys active, 0 recording, 0 NDIC reclamation projects, 0 remediating, 2 suspended, and 0 permitted.

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

US natural gas storage is now 9.9% above the five-year average indicating little price improvement 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 cancelled all other permits in the area and is in the process of transferring the well to a working interest owner who plans a production test. 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 down \$0.14 to \$2.48/MCF. This results in a current oil to gas price ratio of 14 to 1. The percentage of gas flared remained unchanged at 10.4%. The Tioga gas plant operated at 79% of capacity. The expansion of gas gathering from south of Lake Sakakawea is now starting up and the crude oil and natural gas liquids transfer lines have been approved pending geotechnical work this summer. The April Bakken capture percentage was 91% with the daily volume of gas flared from March to April up 9.2 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	86%

Trust FBIR Bakken 84%
 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 3/11/16, the Western Energy Alliance filed a complaint and motion for a temporary restraining order and/or a preliminary injunction. On 4/19/16, the US District court for the District of North Dakota issued an order denying the motion for a preliminary injunction. Secretary Zinke has expressed interest in revising right of way rules to simplify and speed up the process.

BLM has published a new final rule 43 CFR Parts 3100, 3160 and 3170 to update and replace its regulations on venting and flaring of natural gas effective 1/17/16. The final rule can be viewed online at <https://www.blm.gov/programs/energy-and-minerals/oil-and-gas/operations-and-production/methane-and-waste-prevention-rule>. North Dakota, Wyoming, Montana, Western Energy Alliance, and IPAA filed for a preliminary injunction to prevent the rule going into effect until the case is settled. A hearing in Casper, Wyoming was held 1/6/17. On 1/16/17 the court denied all of the petitioners' motions for preliminary injunctions. The deadline to submit a briefing proposal on the merits of the case to the Court has been postponed to 4/24/17 at the request of Wyoming. On 2/3/17 the US House of Representatives voted 221-191 to approve a Congressional Review Act resolution against the rule. On 3/28/17 President Trump issued an executive order which in part directs "The Secretary of the Interior shall review the following final rules, and any rules and guidance issued pursuant to them, for consistency with the policy set forth in section 1 of this order and, if appropriate, shall, as soon as practicable, suspend, revise, or rescind the guidance, or publish for notice and comment proposed rules suspending, revising, or rescinding those rules:". This rule is included in the list as item (iv). North Dakota plans to continue active participation in the litigation of this rule until the BLM takes final action eliminating the rule. The US District Court in WY granted in part industry trade group petitioners' request to delay merits briefing. The Senate voted 51 to 49 against the CRA allowing the rule to remain in effect. The court has adopted a new briefing schedule. Although the court went with the slightly less expedited briefing schedule proposed by the Department of Justice, Judge Skavdahl went out of his way to state that this "briefing schedule provides the Court with the ability to enter a decision in a timely manner and before the January 2018 compliance deadlines," recognizing ND's stated concern that we receive a decision before the major compliance

deadlines/conflicts with ND. Opening briefs are due July 3, 2017. Response briefs are due August 11, 2017. Reply briefs are due August 25, 2017.

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 6/23/15, the court issued a stay on the rules. On 9/30/15 the court granted a 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. On 6/21/16 the court found the rule to be unlawful and ordered it set aside. The plaintiffs filed a motion with the US Court of Appeals for the Tenth Circuit to dismiss the appeal of the preliminary injunction. The Department of Justice on behalf of the BLM and the intervening environmental groups have appealed the decision on the rule and oppose the motion to dismiss the appeal of the preliminary injunction. The North Dakota Response Brief to the US Court of Appeals for the Tenth Circuit was filed 9/15/16. A three judge panel of the 10th Circuit will hear arguments on Wednesday April 22nd at 2pm. NDIC comments on the rule can be found at <http://www.nd.gov/ndic/ic-press/BLM-comments-120625.pdf>. On 3/28/17 President Trump issued an executive order which in part directs “The Secretary of the Interior shall review the following final rules, and any rules and guidance issued pursuant to them, for consistency with the policy set forth in section 1 of this order and, if appropriate, shall, as soon as practicable, suspend, revise, or rescind the guidance, or publish for notice and comment proposed rules suspending, revising, or rescinding those rules:”. This rule is included in the list as item (i). On 5/4/2017 BLM filed a request asking the court to hold the appeal in abeyance as it will “soon” initiate a rulemaking process to revise or rescind the 2015 Rule, that it had the authority to issue the Rule, but conceding that the Rule does not reflect BLM’s current priorities or policies, as reflected in certain recent Presidential Executive Orders. After the BLM submitted its filings the 10th Circuit Court Appeals immediately directed the petitioners (including North Dakota) and the intervenors to file briefs by June 5 to respond to BLM’s position. Two amicus groups that submitted merits briefs (the law school professors and former DOI officials) filed supplemental amicus briefs on the questions posed by the Court following the change of Administrations. The Court’s Supplemental Order authorized the filing of these additional amicus briefs. Both briefs seek to capitalize on the BLM’s continued insistence that it had the authority to issue the Rule (but concede that the 2015 HF Rule does not reflect BLM’s current priorities or policies as reflected in certain recent Presidential Executive Orders). The two amicus groups solicit the Court to rule on the merits of the BLM and NGO appeals and to overturn the District Court decision, actually asking the Court to issue an advisory opinion on the BLM’s authority. In addition to addressing the NGO arguments, North Dakota will respond to these two briefs in the context that all three parties are asking the Court to do what it is prohibited from doing by Article III of the U.S. Constitution. North Dakota plans to continue active participation in the litigation until the BLM takes final action eliminating the rule.

BLM has published the North Dakota Greater Sage-Grouse Proposed Resource Management Plan Amendment and Final EIS. NDIC is evaluating whether the state needs to intervene in the lawsuit filed by Western Energy Alliance challenging the final plan. 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¤tPageId=48797>

EPA On 8/26/15 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 5/4/16 the same environmental groups filed suit against the EPA in the federal district court for the District of Columbia. The Plaintiffs Allege 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.
2. Make the state solid waste plan guidelines more stringent and comprehensive.

The document filed in the suit can be found at <http://environmentalintegrity.org/wp-content/uploads/2016-05-04-RCRA-OG-Wastes-Deadline-Suit-Complaint-FILED.pdf>

On 6/30/16 North Dakota filed motions to intervene in order to prevent a sue and settle situation that would adversely impact state regulatory jurisdiction and to dismiss the case. Motions to Intervene were also filed by the Texas Railroad Commission, American Petroleum Institute, Independent Petroleum Association of America, and the association of Texas oil and gas producer/royalty owners (TIPRO). The plaintiffs and EPA each filed motions to oppose the motions to intervene. North Dakota filed a reply in support of its motion on 9/23/16. Late Friday afternoon 11/18/16 the U.S. District Court in Washington DC denied North Dakota and the two industry association's Motions to Intervene. The Court accepted the NGOs' statements in their briefs that all they asked for in their Complaint was a deadline for EPA to conduct a rulemaking, and concluded that none of the intervenors had demonstrated a sufficient "injury" to support standing in that context. On 12/23/16, EPA and the NGOs submitted a proposed consent decree to the Court that would settle the RCRA Subtitle D litigation. Unlike under the Clean Air Act, there is no statutory RCRA requirement that the proposed decree be published in the Federal Register or put out for public comment. NDIC has significant concerns about the proposed decree and submitted a letter to the court expressing those concerns. Since the court denied ND's motion to intervene, ND is not a party. The consent decree was approved Dec. 28 by U.S. District Judge John D. Bates. The EPA has agreed to review

the regulations and by April 2019 either propose new rules or determine that new rules aren't necessary. This is an attempt by EPA and the NGOs to impose court-ordered obligations that would be difficult for the new administration to evade and looks like an attempt to ram through a sue and settle deal before the new administration takes office. On 1/13/17 North Dakota filed an appeal of the decision(s), consent decree, and federal reimbursement of plaintiffs legal costs. As part of the appeal process, on 03/24/17 North Dakota filed a statement of issues and the other administrative filings: (1) Whether the District Court erred in denying North Dakota's motion to intervene in order to represent its sovereign interests in a case in which the Plaintiffs-Appellees seek to compel the U.S. Environmental Protection Agency ("U.S. EPA") to review and revise solid waste management regulations under Subtitle D of the Resource Conservation and Recovery Act. (2) Whether the District Court erred in concluding that North Dakota did not have Article III standing in this case. (3) Whether the District Court erred in concluding that North Dakota should be held to a different, and more stringent, standard for Article III standing than the Plaintiffs-Appellees. (4) Whether the District Court erred in entering a Consent Decree that violates Subtitle D of RCRA because it omits statutory non-discretionary duties with which U.S. EPA must comply, and would impose new non-discretionary duties on U.S. EPA that are not contained in the statute. North Dakota filed its opening appeal brief in the UNITED STATES COURT OF APPEALS FOR THE DISTRICT OF COLUMBIA CIRCUIT on 5/23/17. The next scheduled dates in the appeal involve EPA and the NGOs briefs are due June 21st and North Dakota's Reply Brief is due July 5th. An oral argument would get set after completion of briefing.

EPA On 6/3/16 the final rule proposing a suite of changes to Clean Air Act permitting requirements for new and modified emissions sources in the oil and natural gas industry was published in the Federal Register. On 6/29/16 the NDIC decided to file a Petition for Review with the US Appeals Court for the District of Columbia to defend the state's sovereign jurisdiction over oil and gas regulation. Thirteen other states have joined this effort. North Dakota declined the standard offer to explore settlement through the court's mediation program.

The proposed actions and NDIC comments are as follows:

- o Proposed New Source Performance Standards – Docket ID number EPA-HQ-OAR-2010-0505. NDIC comments can be found at <http://www.nd.gov/ndic/ic-press/EPA-HQ-OAR-2010-0505.pdf>
- o Draft Control Techniques Guidelines – Docket ID number: EPA-HQ-OAR-2015-0216. NDIC comments can be found at <http://www.nd.gov/ndic/ic-press/EPA-HQ-OAR-2015-0216.pdf>
- o Proposed Source Determination Rule – Docket ID number: EPA-HQ-OAR-2013-0685. NDIC comments can be found at <http://www.nd.gov/ndic/ic-press/EPA-HQ-OAR-2013-0685.pdf>
- o Proposed Federal Implementation Plan for Implementing Minor New Source Review Permitting in Indian Country – Docket ID number: EPA-HQ-OAR-2014-0606. NDIC comments can be found at <http://www.nd.gov/ndic/ic-press/EPA-HQ-OAR-2014-0606.pdf>.

North Dakota et al. and EPA have filed motions to govern further proceedings and briefing schedules. On 3/28/17 President Trump issued an executive order which in part

directs “The Administrator shall review the final rule entitled "Oil and Natural Gas Sector: Emission Standards for New, Reconstructed, and Modified Sources," 81 Fed. Reg. 35824 (June 3, 2016), and any rules and guidance issued pursuant to it, for consistency with the policy set forth in section 1 of this order and, if appropriate, shall, as soon as practicable, suspend, revise, or rescind the guidance, or publish for notice and comment proposed rules suspending, revising, or rescinding those rules.” On 4/7/17 EPA filed a motion to hold the cases in abeyance. On 6/8/17 the NGO environmental groups challenged EPA's June 5th decision to issue a 90 day stay of the Rule's upcoming implementation dates. The NGOs argue that EPA's justifications for its stay (onerous implementation costs and excessive state administrative burdens) of the Rule were already raised and rejected by EPA during EPA's original rulemaking and that the requirements of a "judicial stay" are not met. The NGO's action is a new case, filed in the D.C. Circuit. They have also filed an emergency motion asking the Court to immediately vacate EPA's decision. Any response is due within 10 days. North Dakota is considering participating in the new case through an amicus brief or motion to intervene.

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>

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 7/29/15 and became effective in 37 states on 8/28/15. 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 8/27/15 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>

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. On 2/28/17 President Trump signed an executive order directing the EPA to take action, paving the way for the elimination of the rule. North Dakota plans to continue active participation in the litigation of this rule until the EPA takes final action eliminating the rule.

PHMSA Advance notice of proposed rulemaking (ANPRM) was announced 1/10/17. **SUMMARY:** PHMSA is considering revising the Hazardous Materials Regulations (HMR) to establish vapor pressure limits for unrefined petroleum-based products and potentially all Class 3 flammable liquid hazardous materials that would apply during the transportation of the products or materials by any mode. PHMSA is currently assessing the merits of a petition for rulemaking submitted by the Attorney General of the State of New York regarding vapor pressure standards for the transportation of crude oil. The petition requests that PHMSA implement a Reid Vapor Pressure (RVP) limit less than 9.0 pounds per square inch (psi) for crude oil transported by rail. This rule making could substantially interfere with NDIC oil conditioning regulations. You can read about the NDIC regulations at [https://www.dmr.nd.gov/oilgas/2014Permitting\(2\).asp](https://www.dmr.nd.gov/oilgas/2014Permitting(2).asp). NDIC will be preparing comments. You may submit comments identified by the docket number PHMSA-2016-0077 (HM-251D) and the relevant petition number by any of the following methods:

- Federal eRulemaking Portal: <http://www.regulations.gov> Follow the instructions for submitting comments.
- Fax: 1-202-493-2251.
- Mail: Docket Management System; US Department of Transportation, West Building, Ground Floor, Room W12-140, Routing Symbol M-30, 1200 New Jersey Avenue, SE., Washington, DC 20590.
- Hand Delivery: To the Docket Management System; Room W12-140 on the ground floor of the West Building, 1200 New Jersey Avenue, SE., Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

NDIC submitted comments on 3/20/17 and the comment period closed on 5/19/17.

USFWS has made a decision to list the Dakota Skipper and Powershiek 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 can be viewed online at

<http://www.fws.gov/policy/library/2015/2015-30977.html> comments on the proposed rule were due 4/9/2016. NDIC comments can be found at <http://www.nd.gov/ndic/ic-press/DMR-FWS-0086.pdf> On 6/28/16 USFWS published the handbook for implementing the rule. On 7/11/16 Congressman Cramer successfully included a prohibition on funding for the US Fish and Wildlife Service Management of Non-Federal Oil and Gas rule in the House Interior and Environment Appropriations bill which has a number of other provisions prohibiting this Administration from infringing on State's rights. The NDIC is evaluating the impacts of rule and handbook to determine if legal action is appropriate. On 3/28/17 President Trump issued an executive order which in part directs "The Secretary of the Interior shall review the following final rules, and any rules and guidance issued pursuant to them, for consistency with the policy set forth in section 1 of this order and, if appropriate, shall, as soon as practicable, suspend, revise, or rescind the guidance, or publish for notice and comment proposed rules suspending, revising, or rescinding those rules:". This rule is included in the list as item (iii). North Dakota plans to continue monitor potential participation in litigation of this rule until the USFWS takes final action eliminating the rule.