

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE NO. 13020
ORDER NO. 15287

IN THE MATTER OF A HEARING CALLED ON
A MOTION OF THE COMMISSION TO
CONSIDER THE APPLICATION OF WHITING
OIL & GAS CORP. FOR AN ORDER
EXTENDING THE OUTLINE OF THE DUTCH
HENRY BUTTE FIELD AND AMENDING THE
APPLICABLE ORDERS FOR THE DUTCH
HENRY BUTTE-BAKKEN POOL TO
ESTABLISH 1280-ACRE SPACING UNITS
CONSISTING OF SECTIONS 3 AND 10;
SECTIONS 4 AND 9; SECTIONS 7 AND 18;
SECTIONS 8 AND 17; SECTIONS 16 AND 21;
SECTIONS 15 AND 22, T.140N., R.97W.; AND
SECTIONS 13 AND 24, T.140N., R.98W., STARK
COUNTY, ND, ALLOWING ONE HORIZONTAL
WELL TO BE DRILLED IN THE BAKKEN
POOL, AND SUCH OTHER RELIEF AS IS
APPROPRIATE.

ORDER OF THE COMMISSION

THE COMMISSION FINDS:

- (1) This cause came on for hearing at 9:00 a.m. on the 29th day of July, 2010.
- (2) The witnesses for Whiting Oil & Gas Corporation (Whiting) provided telephonic testimony in this matter pursuant to North Dakota Administrative Code (NDAC) Section 43-02-03-88.2. Telephonic Communication Affidavits were received on September 27, 2010; therefore, such testimony may be considered evidence.
- (3) Whiting made application to the Commission for an order extending the outline of the Dutch Henry Butte Field and amending the applicable orders for the Dutch Henry Butte-Bakken Pool to establish 1280-acre spacing units consisting of Sections 3 and 10; Sections 4 and 9; Sections 7 and 18; Sections 8 and 17; Sections 15 and 22; Sections 16 and 21, Township 140 North, Range 97 West (Sections 3, 10, 4, 9, 7, 18, 8, 17, 15, 22, 16, and 21); and Sections 13 and 24, Township 140 North, Range 98 West (Sections 13 and 24), Stark County, North Dakota, allowing one horizontal well to be drilled in the Bakken Pool, and such other relief as is appropriate.

(4) Order No. 10997 entered in Case No. 9029, the most recent spacing order for the Dutch Henry Butte-Bakken Pool, established proper spacing for its development at one horizontal well per 640 acres.

(5) Sections 4, 9, 7, and 8 are adjacent or adjoining to the Dutch Henry Butte Field. Sections 3, 10, 15, 16, 17, and 18 are one section removed from the Dutch Henry Butte Field. Sections 21 and 22 are two sections removed from the Dutch Henry Butte Field. Section 22 is within the Dickinson Field and the SE/4 is within the Dickinson-Heath Sand Unit. There has never been a well permitted in Section 22. Removing Section 22 from the Dickinson Field and placing it in the Dutch Henry Butte Field, but necessarily leaving the SE/4 in the Dickinson-Heath Sand Unit, will provide for orderly development.

(6) Whiting presented evidence the Dutch Henry Butte-Bakken Pool underlies Sections 3, 4, 7, 8, 9, 10, 15, 16, 17, 18, 21, and 22; therefore, the boundary of the Dutch Henry Butte Field should be extended to include such lands.

(7) Section 24 is adjacent to the Green River Field. Section 13 is one section removed from the Green River Field. Case No. 13373, heard on the November 18, 2010 docket, is a motion of the of the Commission to consider the temporary spacing to develop an oil and/or gas pool discovered by the Whiting #11-13TFH Kubas well (File No. 18837), NW/4 NW/4 of Section 13, Township 140 North, Range 99 West, Stark County, North Dakota, define the field limits, and enact such special field rules as may be necessary. Order No. 15649 established the Green River-Bakken Pool which allows up to two horizontal wells per 1280 acres.

(8) Whiting presented evidence the Green River-Bakken Pool underlies Sections 13 and 24; therefore, the boundary of the Green River Field should be extended to include such lands.

(9) There are no wells currently permitted to or producing from the Bakken Pool in Sections 13, 24, 3, 4, 7, 8, 9, 10, 15, 16, 17, 18, 21, or 22.

(10) Whiting plans to develop the upper Three Forks Formation in the Bakken Pool underlying Sections 13 and 24; Sections 3 and 10; Sections 4 and 9; Sections 7 and 18; Sections 8 and 17; Sections 15 and 22; and Sections 16 and 21 by drilling a single-lateral horizontal well in each proposed 1280-acre spacing unit approximately 2000 feet from the east or west boundary. Utilization of horizontal drilling technology as proposed would result in the wells being completed at a location or locations not in compliance with current applicable spacing orders for the Dutch Henry Butte-Bakken Pool. The horizontal well design proposed may be preliminary and could be changed for various reasons which is permissible as long as the horizontal well design still justifies the proposed spacing unit.

(11) Whiting requested the Bakken Pool definition be the interval from 100 feet above the top of the Bakken Formation to 100 feet below the top of the Three Forks Formation.

(12) The Commission will take administrative notice of the testimony given in Case No. 12246 which was scheduled on a motion of the Commission to consider amending the current Bakken Pool field rules to eliminate or reduce the setbacks currently established for the heel and toe of horizontal wells in North Dakota, and such other relief as is appropriate, heard on March 23, 2010. Order No. 14498 entered in Case No. 12246 amended all current 660 or 500-foot

setback requirements in any established Bakken Pool spacing unit or drilling unit relative to the heel and toe of a horizontal well to 200 feet.

(13) There were no objections to this application.

(14) If Whiting's activities are successful, greater ultimate recovery of oil and gas from the pool will be achieved which will prevent waste and the drilling of unnecessary wells in a manner which will not have a detrimental effect on correlative rights.

IT IS THEREFORE ORDERED:

(1) Sections 13 and 24, Township 140 North, Range 98 West, Stark County, North Dakota, are hereby established as a 1280-acre spacing unit for the exclusive purpose of drilling up to two horizontal wells within said spacing unit within the Green River-Bakken Pool. Existing and future vertical and directional wells drilled within the spacing unit herein established shall not be subject to this order.

(2) Sections 3 and 10; Sections 4 and 9; Sections 7 and 18; Sections 8 and 17; Sections 15 and 22; and Sections 16 and 21, Township 140 North, Range 97 West, Stark County, North Dakota, are hereby established as 1280-acre spacing units for the exclusive purpose of drilling one horizontal well within each said spacing unit within the Dutch Henry Butte-Bakken Pool and Zone II is hereby created to include said spacing units. Existing and future vertical and directional wells drilled within the spacing units herein established shall not be subject to this order.

(3) The Director is hereby authorized to exercise continuing jurisdiction in this matter to determine whether a horizontal well proposed or drilled upon the 1280-acre spacing units herein established has justified the creation of such unit, to require amendments or modifications to the permit to drill for such horizontal well, and to deny a permit to drill in the event a well is proposed to be drilled in a manner inconsistent with the evidence that justified such spacing unit.

(4) The Dickinson Field is hereby redefined as the following described tracts of land in Stark County, North Dakota:

TOWNSHIP 140 NORTH, RANGE 97 WEST, 5TH PM

ALL OF SECTIONS 13, 23, 24, 25, 26, 27, 33, 34, 35 AND 36,

TOWNSHIP 140 NORTH, RANGE 96 WEST, 5TH PM

ALL OF SECTIONS 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 27, 28, 29, 30, 31, 32, AND 33,

TOWNSHIP 139 NORTH, RANGE 97 WEST, 5TH PM

ALL OF SECTIONS 1, 2, AND 3, AND THE NE/4 OF SECTION 4,

TOWNSHIP 139 NORTH, RANGE 96 WEST, 5TH PM

ALL OF SECTIONS 5 AND 6,

together with those additional quarter sections or governmental lots corresponding thereto as may be proven productive by wells drilled on lands within one mile of the boundaries of the field

as set forth above, provided further that such extensions of the field boundaries shall include only sufficient acreage to form a spacing unit for such wells, and any intervening lands.

(5) The operator of the first producing well in the Green River-Bakken Pool shall submit exhibits to be included in the record for this case similar to those typically submitted in a temporary spacing hearing. Such exhibits must be submitted within 120 days after completing said well.

(6) Provisions established herein for the Green River-Bakken Pool are for the exclusive purpose of drilling horizontal wells. Existing and future vertical and directional wells drilled within the area defined in paragraph (7) below shall not be subject to this order.

(7) The Green River Field is hereby redefined as the following described tracts of land in Stark County, North Dakota:

TOWNSHIP 140 NORTH, RANGE 99 WEST, 5TH PM
THE E/2 OF SECTION 25,

TOWNSHIP 140 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 13, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 AND 36.

(8) The Green River-Bakken Pool is hereby defined as that accumulation of oil and gas found in the interval from 100 feet above the top of the Bakken Formation to 100 feet below the top of the Three Forks Formation within the limits of the field as set forth above.

(9) The temporary spacing for the development of the Green River-Bakken Pool is hereby set at up to two horizontal wells per 1280 acres.

(10) All portions of the well bore not isolated by cement of any horizontal well hereafter drilled in the Green River-Bakken Pool shall be no closer than 500 feet to the east or west boundary and 200 feet to the north or south boundary of the spacing unit. Measurement inaccuracies in the directional survey equipment when calculating the bottom hole location in a horizontal well need not be considered.

(11) Sections 13 and 24; Sections 25 and 36; Sections 26 and 35; Sections 27 and 34; Sections 28 and 33; Sections 29 and 32; and Sections 30 and 31, Township 140 North, Range 98 West, Stark County, North Dakota, are hereby designated 1280-acre spacing units in the Green River-Bakken Pool.

(12) Spacing units hereafter created in the Green River-Bakken Pool shall be standup spacing units consisting of two adjacent governmental sections.

(13) The Green River-Bakken Pool shall not be extended except by further order of the Commission after due notice and hearing.

(14) The operator of any horizontally drilled well in the Green River-Bakken Pool shall cause to be made a directional survey of the well bore. The directional survey contractor shall file a certified survey with the Commission within 30 days after completion of the well in accordance with NDAC Section 43-02-03-25. The survey shall be of sufficient quality to enable the Commission to determine the entire completion location of the well and its terminus.

(15) The Director is hereby authorized to exercise continuing jurisdiction to determine whether any well proposed or drilled upon any spacing unit herein established has justified the creation of such unit, to require amendments or modifications to the permit to drill for such well, and to deny a permit to drill in the event a well is proposed to be drilled in a manner inconsistent with the evidence that justified the spacing requirements in the Green River-Bakken Pool.

(16) The Commission shall have continuing jurisdiction in this matter and specifically reserves the authority, upon its own motion or the motion of any interested party, to: (1) review the spacing requirements for the Green River-Bakken Pool; and (2) make such further amendments or modifications to the spacing requirements for the Green River-Bakken Pool as the Commission deems appropriate.

(17) No well shall be drilled or produced in the Green River-Bakken Pool, as defined herein, except in conformity with the regulations above without special order of the Commission after due notice and hearing.

(18) The following rules concerning the casing, tubing and equipping of wells shall apply to the subsequent drilling and operation of wells in the Green River-Bakken Pool:

- (a) The surface casing shall consist of new or reconditioned pipe that has been previously tested to 1000 pounds per square inch. The casing shall be set and cemented at a point not less than 50 feet below the base of the Fox Hills Formation. Sufficient cement shall be used to fill the annular space outside the pipe to the surface of the ground, or the bottom of the cellar, and sufficient scratchers and centralizers shall be used to assure a good cement job. Cement shall be allowed to stand a minimum of 12 hours before drilling the plug or initiating tests. The quality of cement shall conform to the standards provided under NDAC Section 43-02-03-21;
- (b) The producing or oil string shall consist of new or reconditioned pipe that has been previously tested to 2000 pounds per square inch. Casing shall be set and cemented at a point not higher than the top of the producing formation, or at a point approved by the Director. Sufficient cement shall be used and applied in such a manner as to protect and isolate all formations containing oil and/or gas, protect the pipe through salt sections encountered, and isolate the Dakota-Lakota Series. The cement shall be allowed to stand a minimum of 15 hours before drilling the plug or initiating tests. The quality of cement shall conform to the standards provided under NDAC Section 43-02-03-21. After cementing, the casing shall be tested by application of pump pressure of at least 1500 pounds per square inch. If, at the end of 30 minutes this pressure has dropped 150 pounds per square inch or more, the casing shall be repaired. Thereafter, the casing shall again be tested in the same manner. Further work shall not proceed until a satisfactory test has been obtained;
- (c) All well-head fittings and connections shall have a working pressure in excess of that to which they are expected to be subjected; and,

- (d) All wells shall be equipped with tubing; a tubing packer must also be utilized in flowing wells unless a waiver is obtained from the Director after demonstrating the casing will not be subjected to excessive pressure or corrosion; all tubing shall be of sufficient internal diameter to allow the passage of a bottom hole pressure gauge for the purpose of obtaining bottom hole pressure measurements.

(19) The gas-oil ratio of all wells not connected to a gas gathering system shall be measured annually during the month of May. The reservoir pressure shall be measured in any well completed in the Green River-Bakken Pool if deemed necessary by the Director. Drill stem test pressures are acceptable for determining reservoir pressure. Pressure measurements shall be made at or adjusted to a subsea datum of 7600 feet. All gas-oil ratio and reservoir pressure determinations shall be made by methods approved by the Director and reported to the Director within 15 days following the end of the month in which they are determined. The Director is authorized to waive these requirements if the necessity therefore can be demonstrated to his satisfaction. All additional gas-oil ratio and reservoir pressure determinations conducted on any well, but not specially required herein, shall be reported to the Director within 15 days following the end of the month in which they are determined.

(20) No salt water, drilling mud, crude oil, or waste oil shall be stored in pits in this field, except in an emergency, and approved by the Director.

(21) For the purposes of division of production to owners of interests in spacing units established by this order, and proven productive prior to the date hereof, this order shall be retroactive to the date of first production.

(22) All wells in the Green River-Bakken Pool shall be allowed to produce at a maximum efficient rate for a period of 60 days commencing on the first day oil is produced through well-head equipment into tanks from the ultimate producing interval after casing has been run; after that, oil production from such wells shall not exceed an average of 200 barrels per day for a period of 60 days; after that, oil production from such wells shall not exceed an average of 150 barrels per day for a period of 60 days, thereafter, oil production from such wells shall not exceed an average of 100 barrels of oil per day; if and when such wells are connected to a gas gathering and processing facility the foregoing restrictions shall be removed, and the wells shall be allowed to produce at a maximum efficient rate. The Director is authorized to issue an administrative order allowing unrestricted production at a maximum efficient rate for a period not to exceed 120 days, commencing on the first day oil is produced through well-head equipment into tanks from the ultimate producing interval after casing has been run, if the necessity therefor can be demonstrated to his satisfaction.

(23) If the flaring of gas produced with crude oil from the Green River-Bakken Pool causes, or threatens to cause, degradation of ambient air quality, production from the pool shall be further restricted.

(24) This portion of this order shall cover all of the Green River-Bakken Pool, common source of supply of crude oil and/or natural gas as herein defined, and continues in full force and effect until the 31st day of July, 2012. If the Green River-Bakken Pool is still producing, the proper spacing for the pool will be considered by the Commission on or before its regularly scheduled hearing date in June, 2012. If, however, the Green River-Bakken Pool is no longer producing when the proper spacing is to be considered, the Commission, at its own discretion,

may refrain from scheduling a proper spacing hearing and may, without further notice, enter an order dismissing the proper spacing matter.

(25) Provisions established herein for the Dutch Henry Butte-Bakken Pool are for the exclusive purpose of drilling horizontal wells. Existing and future vertical and directional wells drilled within the area defined in paragraph (27) below shall not be subject to this order.

(26) In any horizontal well drilled or well re-entered to drill a horizontal lateral in the Dutch Henry Butte-Bakken Pool, in which a window is cut in the casing and the Lodgepole Formation is to be open to the well bore, appropriate geological information (drill time, estimated porosity, oil shows, total gas, etc.) shall be gathered while drilling through the Lodgepole Formation and the Commission shall be notified immediately of any significant shows encountered.

(27) The Dutch Henry Butte Field is hereby redefined as the following described tracts of land in Stark County, North Dakota:

TOWNSHIP 140 NORTH, RANGE 97 WEST, 5TH PM

ALL OF SECTIONS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 21 AND 22.

(28) The Dutch Henry Butte-Bakken Pool is hereby redefined as the following described tracts of land in Stark County, North Dakota:

ZONE I (640H)

TOWNSHIP 140 NORTH, RANGE 97 WEST, 5TH PM

ALL OF SECTIONS 2, 5, 6 AND 11.

ZONE II (1280H-STANDUP)

TOWNSHIP 140 NORTH, RANGE 97 WEST, 5TH PM

ALL OF SECTIONS 1, 3, 4, 7, 8, 9, 10, 12, 15, 16, 17, 18, 21 AND 22.

(29) The Dutch Henry Butte-Bakken Pool is hereby redefined as that accumulation of oil and gas found in the interval from 100 feet above the top of the Bakken Formation to 100 feet below the top of the Three Forks Formation within the limits of the field as set forth above.

(30) The proper spacing for the development of Zone I in the Dutch Henry Butte-Bakken Pool is hereby set at one horizontal well per 640 acres.

(31) All portions of the well bore not isolated by cement of any horizontal well hereafter drilled in Zone I in the Dutch Henry Butte-Bakken Pool shall be no closer than 500 feet to the boundary of the spacing unit the lateral is most nearly parallel to and 200 feet to the boundary of the spacing unit the lateral is most nearly perpendicular to. Measurement inaccuracies in the directional survey equipment need not be considered except when deemed necessary by the Director.

(32) Spacing units hereafter created in Zone I in the Dutch Henry Butte-Bakken Pool shall consist of a governmental section.

(33) Zone I in the Dutch Henry Butte-Bakken Pool shall not be extended except by further order of the Commission after due notice and hearing.

(34) The proper spacing for the development of Zone II in the Dutch Henry Butte-Bakken Pool is hereby set at one horizontal well per 1280 acres.

(35) All portions of the well bore not isolated by cement of any horizontal well hereafter drilled in Zone II in the Dutch Henry Butte-Bakken Pool shall be no closer than 500 feet to the east or west boundary and 200 feet to the north or south boundary of the spacing unit. Measurement inaccuracies in the directional survey equipment need not be considered except when deemed necessary by the Director.

(36) Sections 1 and 12; Sections 3 and 10; Sections 4 and 9; Sections 7 and 18; Sections 8 and 17; Sections 15 and 22; and Sections 16 and 21, Township 140 North, Range 97 West, Stark County, North Dakota, are hereby designated 1280-acre spacing units in Zone II in the Dutch Henry-Bakken Pool.

(37) Spacing units hereafter created in Zone II in the Dutch Henry Butte-Bakken Pool shall be standup spacing units consisting of two adjacent governmental sections.

(38) Zone II in the Dutch Henry Butte-Bakken Pool shall not be extended except by further order of the Commission after due notice and hearing.

(39) The operator of any horizontally drilled well in the Dutch Henry Butte-Bakken Pool shall cause to be made a directional survey of the well bore. The directional survey contractor shall file a certified survey with the Commission within 30 days after completion of the well in accordance with NDAC Section 43-02-03-25. The survey shall be of sufficient quality to enable the Commission to determine the entire completion location of the well and its terminus.

(40) The Director is hereby authorized to exercise continuing jurisdiction to determine whether any well proposed or drilled upon any spacing unit herein established has justified the creation of such unit, to require amendments or modifications to the permit to drill for such well, and to deny a permit to drill in the event a well is proposed to be drilled in a manner inconsistent with the evidence that justified the spacing requirements in the Dutch Henry Butte-Bakken Pool.

(41) The Commission shall have continuing jurisdiction in this matter and specifically reserves the authority, upon its own motion or the motion of any interested party, to: (1) review the spacing requirements for the Dutch Henry Butte-Bakken Pool; (2) determine whether the separate zones of spacing established herein are warranted; and, (3) make such further amendments or modifications to the spacing requirements for the Dutch Henry Butte-Bakken Pool as the Commission deems appropriate.

(42) No well shall be hereafter drilled or produced in the Dutch Henry Butte-Bakken Pool, as defined herein, except in conformity with the regulations above without special order of the Commission after due notice and hearing.

(43) The following rules concerning the casing, tubing and equipping of wells shall apply to the subsequent drilling and operation of wells in the Dutch Henry Butte-Bakken Pool:

- (a) The surface casing shall consist of new or reconditioned pipe that has been previously tested to 1000 pounds per square inch. The casing shall be set and cemented at a point not less than 50 feet below the base of the Fox Hills Formation. Sufficient cement shall be used to fill the annular space outside the pipe to the surface of the ground or the bottom of the cellar, and sufficient scratchers and centralizers shall be used to assure a good cement job. Cement shall be allowed to stand a minimum of 12 hours before drilling the plug or initiating tests. The quality of cement shall conform to the standards provided under NDAC Section 43-02-03-21;
- (b) The producing or oil string shall consist of new or reconditioned pipe that has been previously tested to 2000 pounds per square inch. Casing shall be set and cemented at a point not higher than the top of the producing formation, or at a point approved by the Director. However, any wells re-entered for the purpose of drilling a horizontal lateral within the Bakken Pool, shall be allowed to be completed open hole no higher than the top of the Lodgepole Formation. Sufficient cement shall be used and applied in such manner to protect and isolate all formations containing oil and/or gas, protect the pipe through salt sections encountered, and to isolate the Dakota-Lakota Series. The cement shall be allowed to stand a minimum of 15 hours before drilling the plug or initiating tests. The quality of cement shall conform to the standards provided under NDAC Section 43-02-03-21. After cementing, the casing shall be tested by application of pump pressure of at least 1500 pounds per square inch. If, at the end of 30 minutes this pressure shall have dropped 150 pounds per square inch or more, the casing shall be repaired. Thereafter, the casing shall again be tested in the same manner. Further work shall not proceed until a satisfactory test has been obtained;
- (c) All well-head fittings and connections shall have a working pressure in excess of that to which they are expected to be subjected; and,
- (d) All wells shall be equipped with tubing; a tubing packer must also be utilized in flowing wells unless a waiver is obtained from the Director after demonstrating the casing will not be subjected to excessive pressure or corrosion; all tubing shall be of sufficient internal diameter to allow the passage of a bottom hole pressure gauge for the purpose of obtaining bottom hole pressure measurements.

(44) The gas-oil ratio of all wells not connected to a gas gathering system shall be measured annually during the month of May. The reservoir pressure shall be measured in any well completed in the Dutch Henry Butte-Bakken Pool if deemed necessary by the Director. Drill stem test pressures are acceptable for determining reservoir pressure. Pressure measurements shall be made at or adjusted to a subsea datum of 7800 feet. All gas-oil ratio and reservoir pressure determinations shall be made by methods approved by the Director and reported to the Director within 15 days following the end of the month in which they are determined. The Director is authorized to waive these requirements if the necessity therefore can be demonstrated to his satisfaction. All additional gas-oil ratio and reservoir pressure determinations conducted on any well, but not specially required herein, shall be reported to the Director within 15 days following the end of the month in which they are determined.

(45) No saltwater, drilling mud, crude oil, or waste oil shall be stored in pits in this field, except in an emergency, and approved by the Director.

(46) The Eleanore #1-5 well, located in the SW/4 SW/4 of Section 5, Township 140 North, Range 97 West, Stark County, North Dakota, shall be allowed to produce at a maximum efficient rate.

(47) All other wells in the Dutch Henry Butte-Bakken Pool shall be allowed to produce at a maximum efficient rate for a period of 60 days commencing on the first day oil is produced through well-head equipment into tanks from the ultimate producing interval after casing has been run; after that, oil production from such wells shall not exceed an average of 200 barrels per day for a period of 60 days; after that, oil production from such wells shall not exceed an average of 150 barrels per day for a period of 60 days, thereafter, oil production from such wells shall not exceed an average of 100 barrels of oil per day; if and when such wells are connected to a gas gathering and processing facility the foregoing restrictions shall be removed, and the wells shall be allowed to produce at a maximum efficient rate. The Director is authorized to issue an administrative order allowing unrestricted production at a maximum efficient rate for a period not to exceed 120 days, commencing on the first day oil is produced through well-head equipment into tanks from the ultimate producing interval after casing has been run, if the necessity therefor can be demonstrated to his satisfaction.

(48) If the flaring of gas produced with crude oil from the Dutch Henry Butte-Bakken Pool causes, or threatens to cause, degradation of ambient air quality, production from the pool shall be further restricted.

(49) This portion of this order shall cover all of the Dutch Henry Butte-Bakken Pool, common source of supply of crude oil and/or natural gas as herein defined, and shall continue in full force and effect until further order of the Commission or until the last well in the pool has been plugged and abandoned.

Dated this 8th day of February, 2011.

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA

By the Director, on behalf of the Commission

/s/ Lynn D. Helms, Director