

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE NO. 14558
ORDER NO. 16836

IN THE MATTER OF A HEARING CALLED ON
A MOTION OF THE COMMISSION TO
CONSIDER THE APPLICATION OF SAMSON
RESOURCES CO. FOR AN ORDER CREATING
FOUR 720-ACRE DRILLING UNITS
COMPRISED OF SECTIONS 25 AND 36;
SECTIONS 26 AND 35, T.164N., R.99W.;
SECTIONS 29 AND 32; AND SECTIONS 30 AND
31, T.164N., R.98W., DIVIDE COUNTY, ND,
AUTHORIZING THE DRILLING OF A
HORIZONTAL WELL WITHIN EACH
DRILLING UNIT, 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 28th day of April, 2011.
- (2) The witnesses for Samson Resources Company (Samson) 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 May 3, 2011; therefore, such testimony may be considered evidence.
- (3) Samson made application to the Commission for an order creating four 720-acre drilling units comprised of Sections 25 and 36; Sections 26 and 35, Township 164 North, Range 99 West (Sections 25, 36, 26, and 35); Sections 29 and 32; and Sections 30 and 31, Township 164 North, Range 98 West (Sections 29, 32, 30, and 31), Divide County, North Dakota, authorizing the drilling of a horizontal well within each drilling unit, and such other relief as is appropriate.
- (4) Sections 35, 36, and 31 are adjacent to the Ambrose Field and within the buffer zone of Zone I in the Ambrose-Bakken Pool. Sections 25, 26, and 30 are one section removed from the Ambrose Field and adjacent to the buffer zone of Zone I in the Ambrose-Bakken Pool.
- (5) The E/2 of Sections 29 and 32 are within the Candak Field.
- (6) Samson presented evidence the Ambrose-Bakken Pool underlies Sections 25, 26, 35, 36, 30, and 31; therefore, the boundary of the Ambrose Field should be extended to include such lands.
- (7) Order No. 16354 entered in Case No. 14079, the most recent spacing order for the Ambrose-Bakken Pool, established proper spacing for the development of Zone I at one horizontal

well per 640 acres, Zone II at up to three horizontal wells per 640 acres, Zones III and IV at one horizontal well per 1280 acres, and Zone V at up to three horizontal wells per 1280 acres.

(8) Case No. 14557, also on today's docket is a motion to consider temporary spacing to develop an oil and/or gas pool discovered by the Samson #4-9-163-98H Nova well (File No. 19530), located in the NW/4 NE/4 of Section 4, Township 163 North, Range 98 West, Divide County, North Dakota, define the field limits, and enact such special field rules as may be necessary. Order No. 16835 entered in Case No. 14557 will establish the Candak-Bakken Pool and will include Sections 29 and 32.

(9) Order No. 15384 entered in Case No. 13116 established Sections 25, 26, 35, and 36; and Sections 29, 30, 31, and 32 as 1440-acre drilling units for the exclusive purpose of drilling one horizontal well within each said drilling unit within the Bakken Pool. These drilling units were incorrectly identified as containing approximately 1440 acres when they actually contain approximately 1600 acres.

(10) Sections 25, 26, 29, and 30 are short sections adjacent to the North Dakota-Canada border containing approximately 155.58 acres, 155.62 acres, 156.26 acres, and 149.34 acres, respectively.

(11) There are no wells currently permitted to or producing from the Bakken Pool in Sections 25, 26, 35, 36, 29, 30, 31, or 32.

(12) Samson plans to develop the upper Three Forks Formation in the Bakken Pool underlying each proposed 800-acre spacing unit described as Sections 25 and 36; Sections 26 and 35; Sections 29 and 32; and Sections 30 and 31 by drilling a single-lateral horizontal well approximately down the long axis. 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 Ambrose-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.

(13) There were no objections to this application.

(14) If Samson'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) Order No. 15384 is hereby rescinded.

(2) Sections 25 and 36; Sections 26 and 35, Township 164 North, Range 99 West; and Sections 30 and 31, Township 164 North, Range 98 West, Divide County, North Dakota, are hereby established as standup 800-acre spacing units for the exclusive purpose of drilling one horizontal well within each said spacing unit within the Ambrose-Bakken Pool and Zone III is hereby redefined 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. Zone III is redefined as Zone IV, Zone IV is redefined as Zone V, and Zone V is redefined as Zone VI.

(3) Sections 29 and 32, Township 164 North, Range 98 West, Divide County, North Dakota, are hereby established as a standup 800-acre spacing unit for the exclusive purpose of drilling one horizontal well within said spacing unit within the Candak-Bakken Pool and Zone I is hereby created to include said spacing unit. Existing and future vertical and directional wells drilled within the spacing unit herein established shall not be subject to this order.

(4) The Director is hereby authorized to exercise continuing jurisdiction in this matter to determine whether a horizontal well proposed or drilled upon the 800-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.

(5) Provisions established herein for the Ambrose-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 (6) below shall not be subject to this order.

(6) The Ambrose Field is hereby redefined as the following described tracts of land in Divide County, North Dakota:

TOWNSHIP 164 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 25, 26, 35 AND 36,

TOWNSHIP 164 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 30 AND 31,

TOWNSHIP 163 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 AND 36,

TOWNSHIP 163 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 6, 7, 18, 19, 30 AND 31,

TOWNSHIP 162 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 1 THROUGH 36, INCLUSIVE,

TOWNSHIP 162 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 6, 7, 18, 19, 30 AND 31,

together with those additional 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.

(7) The Ambrose-Bakken Pool is hereby redefined as the following described tracts of land in Divide County, North Dakota:

ZONE I (640H)

TOWNSHIP 163 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 15, 22, 26, 27, 34 AND 35,

TOWNSHIP 163 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 30 AND 31,

TOWNSHIP 162 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 2, 3, 10, 11, 13, 14, 15, 22, 23, 24, 25 AND 36,

together with those additional 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.

ZONE II (3/640H)

TOWNSHIP 162 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 4, 5, 8 AND 9.

ZONE III (800H-STANDUP)

TOWNSHIP 164 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 25, 26, 35 AND 36,

TOWNSHIP 164 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 30 AND 31.

ZONE IV (1280H-STANDUP)

TOWNSHIP 163 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 16, 17, 20, 21, 23, 24, 25, 28, 29, 30, 31, 32, 33 AND 36,

TOWNSHIP 163 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 6, 7, 18 AND 19,

TOWNSHIP 162 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 1 AND 12,

TOWNSHIP 162 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 6, 7, 18 AND 19.

ZONE V (1280H-LAYDOWN-OVERLAPPING 640S)

TOWNSHIP 162 NORTH, RANGE 99 WEST, 5TH PM
ALL OF SECTIONS 4 AND 5.

ZONE VI (3/1280H-STANDUP)

TOWNSHIP 162 NORTH, RANGE 99 WEST, 5TH PM

ALL OF SECTIONS 6, 7, 16, 17, 18, 19, 20, 21, 26, 27, 28, 29, 30, 31, 32, 33, 34 AND 35,

TOWNSHIP 162 NORTH, RANGE 98 WEST, 5TH PM

ALL OF SECTIONS 30 AND 31.

(8) The Ambrose-Bakken Pool is hereby defined as that accumulation of oil and gas found in the interval from 50 feet above the top of the Bakken Formation to 50 feet below the top of the Three Forks Formation within the limits of the field as set forth above.

(9) The proper spacing for the development of Zone I in the Ambrose-Bakken Pool is hereby set at one horizontal well per 640-acre spacing unit.

(10) All portions of the well bore not isolated by cement of any horizontal well in Zone I in the Ambrose-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.

(11) Spacing units hereafter created in Zone I in the Ambrose-Bakken Pool shall consist of a governmental section.

(12) The proper spacing for the development of Zone II in the Ambrose-Bakken Pool is hereby set at up to three horizontal wells per 640-acre spacing unit.

(13) All portions of the well bore not isolated by cement of any horizontal well in Zone II in the Ambrose-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 when calculating the bottom hole location in a horizontal well need not be considered.

(14) Spacing units hereafter created in Zone II in the Ambrose-Bakken Pool shall consist of a governmental section.

(15) Sections 4 and 5, Township 162 North, Range 99 West, Divide County, North Dakota, are also designated a laydown 1280-acre spacing unit in Zone V in the Ambrose-Bakken Pool.

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

(17) The proper spacing for the development of Zone III in the Ambrose-Bakken Pool is hereby set at one horizontal well per standup 800-acre spacing unit.

(18) All portions of the well bore not isolated by cement of any horizontal well in Zone III in the Ambrose-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.

(19) Sections 25 and 36; Sections 26 and 35, Township 164 North, Range 99 West; and Sections 30 and 31, Township 164 North, Range 98 West, Divide County, North Dakota, are hereby designated standup 800-acre spacing units in Zone III in the Ambrose-Bakken Pool.

(20) Spacing units hereafter created in Zone III in the Ambrose-Bakken Pool shall be standup spacing units designated by the Commission.

(21) Zone III in the Ambrose-Bakken Pool shall not be extended except by further order of the Commission after due notice and hearing.

(22) The proper spacing for the development of Zone IV in the Ambrose-Bakken Pool is hereby set at one horizontal well per standup 1280-acre spacing unit.

(23) All portions of the well bore not isolated by cement of any horizontal well in Zone IV in the Ambrose-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.

(24) Sections 1 and 12; Sections 2 and 11; Sections 3 and 10; Sections 4 and 9; Sections 5 and 8; Sections 13 and 24; Sections 14 and 23; Sections 16 and 21; Sections 17 and 20; Sections 25 and 36; Sections 28 and 33; Sections 29 and 32; Sections 30 and 31, Township 163 North, Range 99 West; Sections 6 and 7; Sections 18 and 19, Township 163 North, Range 98 West; Sections 1 and 12, Township 162 North, Range 99 West; Sections 6 and 7; and Sections 18 and 19, Township 162 North, Range 98 West, Divide County, North Dakota, are hereby designated standup 1280-acre spacing units in Zone IV in the Ambrose-Bakken Pool.

(25) Spacing units hereafter created in Zone IV in the Ambrose-Bakken Pool shall be standup spacing units consisting of two adjacent governmental sections.

(26) Zone IV in the Ambrose-Bakken Pool shall not be extended except by further order of the Commission after due notice and hearing.

(27) The proper spacing for the development of Zone V in the Ambrose-Bakken Pool is hereby set at one horizontal well per laydown 1280-acre spacing unit.

(28) All portions of the well bore not isolated by cement of any horizontal well in Zone V in the Ambrose-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.

(29) Sections 4 and 5, Township 162 North, Range 99 West, Divide County, North Dakota, are hereby designated a laydown 1280-acre spacing unit in Zone V in the Ambrose-Bakken Pool.

(30) Spacing units hereafter created in Zone V in the Ambrose-Bakken Pool shall be laydown spacing units consisting of two adjacent governmental sections which overlap 640-acre spacing units.

(31) Section 4; and Section 5, Township 162 North, Range 99 West, Divide County, North Dakota, are also designated 640-acre spacing units in Zone II in the Ambrose-Bakken Pool.

(32) Zone V in the Ambrose-Bakken Pool shall not be extended except by further order of the Commission after due notice and hearing.

(33) The proper spacing for the development of Zone VI in the Ambrose-Bakken Pool is hereby set at up to three horizontal wells per standup 1280-acre spacing unit.

(34) All portions of the well bore not isolated by cement of any horizontal well in Zone VI in the Ambrose-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.

(35) Sections 6 and 7; Sections 16 and 21; Sections 17 and 20; Sections 18 and 19; Sections 26 and 35; Sections 27 and 34; Sections 28 and 33; Sections 29 and 32; Sections 30 and 31, Township 162 North, Range 99 West; and Sections 30 and 31, Township 162 North, Range 98 West, Divide County, North Dakota, are hereby designated standup 1280-acre spacing units in Zone VI in the Ambrose-Bakken Pool.

(36) Spacing units hereafter created in Zone VI in the Ambrose-Bakken Pool shall be standup spacing units consisting of two adjacent governmental sections.

(37) Zone VI in the Ambrose-Bakken Pool shall not be extended except by further order of the Commission after due notice and hearing.

(38) The operator of any horizontally drilled well in the Ambrose-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.

(39) 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 Ambrose-Bakken Pool.

(40) 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 Ambrose-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 Ambrose-Bakken Pool as the Commission deems appropriate.

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

(42) The following rules concerning the casing, tubing and equipping of wells shall apply to the subsequent drilling and operation of wells in the Ambrose-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.

(43) 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 Ambrose-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 5740 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.

(44) 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.

(45) All wells in the Ambrose-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.

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

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

(48) Provisions established herein for the Candak-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 (49) below shall not be subject to this order.

(49) The Candak Field is hereby redefined as the following described tracts of land in Divide County, North Dakota:

TOWNSHIP 164 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 25, 26, 27, 28, 29, 32, 33, 34, 35 AND 36,

TOWNSHIP 163 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 1, 2, 3, 4, 5, 8, 9, 10, 11 AND 12.

(50) The Candak-Bakken Pool is hereby defined as the following described tracts of land in Divide County, North Dakota:

ZONE I (800H-STANDUP)

TOWNSHIP 164 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 29 AND 32.

ZONE II (1280H-STANDUP)

TOWNSHIP 163 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 1, 2, 3, 4, 5, 8, 9, 10, 11 AND 12.

ZONE III (1600H-LAYDOWN)

TOWNSHIP 164 NORTH, RANGE 98 WEST, 5TH PM
ALL OF SECTIONS 25, 26, 27, 28, 33, 34, 35 AND 36.

(51) The Candak-Bakken Pool is hereby defined as that accumulation of oil and gas found in the interval from 50 feet above the top of the Bakken Formation to 50 feet below the top of the Three Forks Formation within the limits of the field as set forth above.

(52) The temporary spacing for the development of Zone I in the Candak-Bakken Pool is hereby set at one horizontal well per standup 800-acre spacing unit.

(53) All portions of the well bore not isolated by cement of any horizontal well in Zone I in the Candak-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.

(54) Sections 29 and 32, Township 164 North, Range 98 West, Divide County, North Dakota, are hereby designated a standup 800-acre spacing unit in Zone I in the Candak-Bakken Pool.

(55) Spacing units hereafter created in Zone I in the Candak-Bakken Pool shall be standup spacing units designated by the Commission.

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

(57) The temporary spacing for the development of Zone II in the Candak-Bakken Pool is hereby set at one horizontal well per standup 1280-acre spacing unit.

(58) All portions of the well bore not isolated by cement of any horizontal well in Zone II in the Candak-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.

(59) Sections 1 and 12; Sections 2 and 11; Sections 3 and 10; Sections 4 and 9; and Sections 5 and 8, Township 163 North, Range 98 West, Divide County, North Dakota, are hereby designated standup 1280-acre spacing units in Zone II in the Candak-Bakken Pool.

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

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

(62) The temporary spacing for the development of Zone III in the Candak-Bakken Pool is hereby set at one horizontal well per laydown 1600-acre spacing unit.

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

(64) Sections 25, 26, 35, and 36; and Sections 27, 28, 33, and 34, Township 164 North, Range 98 West, Divide County, North Dakota, are hereby designated laydown 1600-acre spacing units in Zone III in the Candak-Bakken Pool.

(65) Spacing units hereafter created in Zone III in the Candak-Bakken Pool shall be laydown spacing units designated by the Commission.

(66) Zone III in the Candak-Bakken Pool shall not be extended except by further order of the Commission after due notice and hearing.

(67) The operator of any horizontally drilled well in the Candak-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.

(68) 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 Candak-Bakken Pool.

(69) 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 Candak-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 Candak-Bakken Pool as the Commission deems appropriate.

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

(71) The following rules concerning the casing, tubing and equipping of wells shall apply to the subsequent drilling and operation of wells in the Candak-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.

(72) 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 Candak-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 5500 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.

(73) 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.

(74) 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.

(75) All wells in the Candak-Bakken Pool shall be allowed to produce at a maximum efficient rate through October 31, 2011.

(76) After October 31, 2011, all wells in the Candak-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.

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

(78) This portion of this order shall cover all of the Candak-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 January, 2013. If the Candak-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 December, 2012. If, however, the Candak-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.

Dated this 1st day of August, 2011.

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA

By the Director, on behalf of the Commission

/s/ Lynn D. Helms, Director

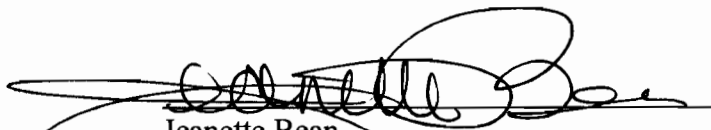
STATE OF NORTH DAKOTA

AFFIDAVIT OF MAILING

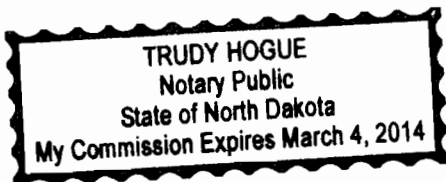
COUNTY OF BURLEIGH

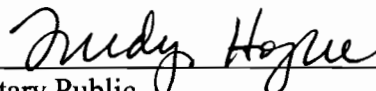
I, Jeanette Bean, being duly sworn upon oath, depose and say: That on the 12th day of August, 2011 enclosed in separate envelopes true and correct copies of the attached Order No. 16836 of the North Dakota Industrial Commission, and deposited the same with the United States Postal Service in Bismarck, North Dakota, with postage thereon fully paid, directed to the following persons by the Industrial Commission in Case No. 14558:

LAWRENCE BENDER
FREDRICKSON & BYRON
PO BOX 1855
BISMARCK ND 58502-1855


Jeanette Bean
Oil & Gas Division

On this 12th day of August, 2011 before me personally appeared Jeanette Bean to me known as the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.




Notary Public
State of North Dakota, County of Burleigh

Schmidt, Bethany R.

From: Entzi-Odden, Lyn <lodden@fredlaw.com>
Sent: Tuesday, May 31, 2011 10:26 AM
To: Bohrer, Mark F.
Cc: Hicks, Bruce E.; Schmidt, Bethany R.; Heilman, Tracy A.; Connie Wagers; Bender, Lawrence
Subject: Letters requesting expedited orders-Cases 14557 and 14558
Attachments: Samson 14557_20110531102057.pdf; Samson 14558_20110531102124.pdf

Mark,
Please see the attached letters.

Lyn Entzi-Odden

Legal Assistant to Lawrence Bender and William P. Pearce

Fredrikson & Byron, P.A. / 200 North 3rd Street, Suite 150 / Bismarck, ND 58501 / Ph: (701) 221-4020 / Fx: (701) 221-4040
lodden@fredlaw.com

****This is a transmission from the law firm of Fredrikson & Byron, P.A. and may contain information which is privileged, confidential, and protected by the attorney-client or attorney work product privileges. If you are not the addressee, note that any disclosure, copying, distribution, or use of the contents of this message is prohibited. If you have received this transmission in error, please destroy it and notify us immediately at our telephone number (701) 221-4020. The name and biographical data provided above are for informational purposes only and are not intended to be a signature or other indication of an intent by the sender to authenticate the contents of this electronic message.****

 *Please consider the environment before printing this email.*

May 31, 2011

VIA EMAIL

Mr. Mark Bohrer
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310


RE: Case No. 14558: Application of Samson Resources Co. for an order creating four 720-acre drilling units comprised of Sections 25 and 36; and Sections 26 and 35, T.164N., R.99W.; Sections 29 and 32; and Sections 30 and 31, T.164N., R.98W., Divide County, ND, authorizing the drilling of a horizontal well within each drilling unit and such other relief as is appropriate.

Dear Mr. Bohrer:

I am writing on behalf of Samson Resources Company to request an expedited order with regard to the captioned matter, heard April 28, 2011. Samson has a lease expiring and a well planned for late July and accordingly, is requesting an expedited order with regard to this matter.

Should you have any questions, please advise.

Sincerely,



LAWRENCE BENDER

LB/leo

cc: Mr. Bruce Hicks *Via Email*
Ms. Connie Wagers *Via Email*
4936013_1.DOC

Attorneys & Advisors
main 701.221.4020
fax 701.221.4040
www.fredlaw.com

Fredrikson & Byron, P.A.
200 North Third Street, Suite 150
Bismarck, North Dakota
58501-3879

May 2, 2011



Mr. Bruce Hicks
Assistant Director
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310

**RE: NDIC CASE NO. 14558
SAMSON RESOURCES COMPANY**

Dear Mr. Hicks:

Please find enclosed herewith for filing TELEPHONIC COMMUNICATION AFFIDAVITS in regard to the above-captioned matter.

Should you have any questions, please advise.

Sincerely,

A handwritten signature in dark ink, appearing to read "Lawrence Bender".

LAWRENCE BENDER

LB/mpg

Enclosures

cc: Ms. Connie Wagers – (w enc.) *Via Email*

4920658_1.DOC

Attorneys & Advisors
main 701.221.4020
fax 701.221.4040
www.fredlaw.com

Fredrikson & Byron, P.A.
200 North Third Street, Suite 150
Bismarck, North Dakota
58501-3879

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE No. 14558

Application of Samson Resources Co. for an order creating four 720-acre drilling units comprised of Sections 25 and 36; and Sections 26 and 35, T.164N., R.99W.; Sections 29 and 32; and Sections 30 and 31, T.164N., R.98W., Divide County, ND, authorizing the drilling of a horizontal well within each drilling unit and such other relief as is appropriate.



TELEPHONIC COMMUNICATION AFFIDAVIT

Brian Berwick being first duly sworn deposes and states as follows: That on April 28, 2011, I testified under oath before the North Dakota Industrial Commission in Case No. 14558. My testimony was presented by telephone from (720) 239-4377 at, and on behalf of, Samson Resources Company, 370 17th Street, Suite 3000, Denver, Colorado 80202.

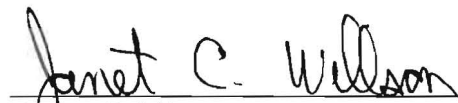


BRIAN BERWICK

STATE OF COLORADO)
) ss.
COUNTY OF DENVER)

On 4/28, 2011, Brian Berwick of Samson Resources Company, known to me to be the person described in and who executed the foregoing instrument, personally appeared before me and acknowledged that he executed the same as a free act and deed.

JANET C WILLSON
NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires 06/11/2014



Notary Public
My Commission Expires: 6/11/2014
4919167_1.DOC

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE NO. 14558

Application of Samson Resources Co. for an order creating four 720-acre drilling units comprised of Sections 25 and 36; and Sections 26 and 35, T.164N., R.99W.; Sections 29 and 32; and Sections 30 and 31, T.164N., R.98W., Divide County, ND, authorizing the drilling of a horizontal well within each drilling unit and such other relief as is appropriate.



TELEPHONIC COMMUNICATION AFFIDAVIT

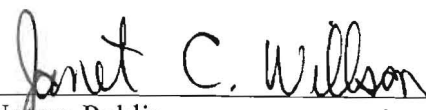
Connie Wagers being first duly sworn deposes and states as follows: That on April 28, 2011, I testified under oath before the North Dakota Industrial Commission in Case No. 14558. My testimony was presented by telephone from (720) 239-4377 at, and on behalf of, Samson Resources Company, 370 17th Street, Suite 3000, Denver, Colorado 80202.


CONNIE WAGERS

STATE OF COLORADO)
) ss.
COUNTY OF DENVER)

On April 28, 2011, Connie Wagers of Samson Resources Company, known to me to be the person described in and who executed the foregoing instrument, personally appeared before me and acknowledged that she executed the same as a free act and deed.

JANET C WILLSON
NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires 06/11/2014


Notary Public
My Commission Expires: 6/11/2014
4919169_1.DOC

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE NO. 14558

Application of Samson Resources Co. for an order creating four 720-acre drilling units comprised of Sections 25 and 36; and Sections 26 and 35, T.164N., R.99W.; Sections 29 and 32; and Sections 30 and 31, T.164N., R.98W., Divide County, ND, authorizing the drilling of a horizontal well within each drilling unit and such other relief as is appropriate.



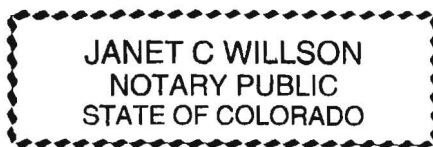
TELEPHONIC COMMUNICATION AFFIDAVIT

Dan Graeve being first duly sworn deposes and states as follows: That on April 28, 2011, I testified under oath before the North Dakota Industrial Commission in Case No. 14558. My testimony was presented by telephone from (720) 239-4377 at, and on behalf of, Samson Resources Company, 370 17th Street, Suite 3000, Denver, Colorado 80202.

DAN GRAEVE

STATE OF COLORADO)
) ss.
COUNTY OF DENVER)

On April 28th, 2011, Dan Graeve of Samson Resources Company, known to me to be the person described in and who executed the foregoing instrument, personally appeared before me and acknowledged that he executed the same as a free act and deed.



My Commission Expires 06/11/2014

Notary Public
My Commission Expires: 6/11/2014
4919171_1.DOC



NORTH DAKOTA INDUSTRIAL COMMISSION

CASE No. 14557

**TEMPORARY SPACING TO DEVELOP AN OIL
AND/OR GAS POOL DISCOVERED BY THE
SAMSON RESOURCES CO. #4-9-163-98H NOVA,
NWNE SECTION 4, T.163N., R.98W.,
DIVIDE COUNTY, ND**

&

CASE No. 14558

**APPLICATION FOR AN ORDER
CREATING FOUR 720-ACRE DRILLING UNITS
COMPRISED OF SECTIONS 25 AND 36; AND
SECTIONS 26 AND 35, T.164N., R.99W.;
SECTIONS 29 AND 32; AND SECTIONS
30 AND 31, T.164N., R.98W.,
DIVIDE COUNTY, ND**

**BEFORE THE
OIL & GAS DIVISION
of the
INDUSTRIAL COMMISSION
of the
STATE OF NORTH DAKOTA**

APRIL 28, 2011

Exhibit 1A – Case No. 14557

Regional Location Map

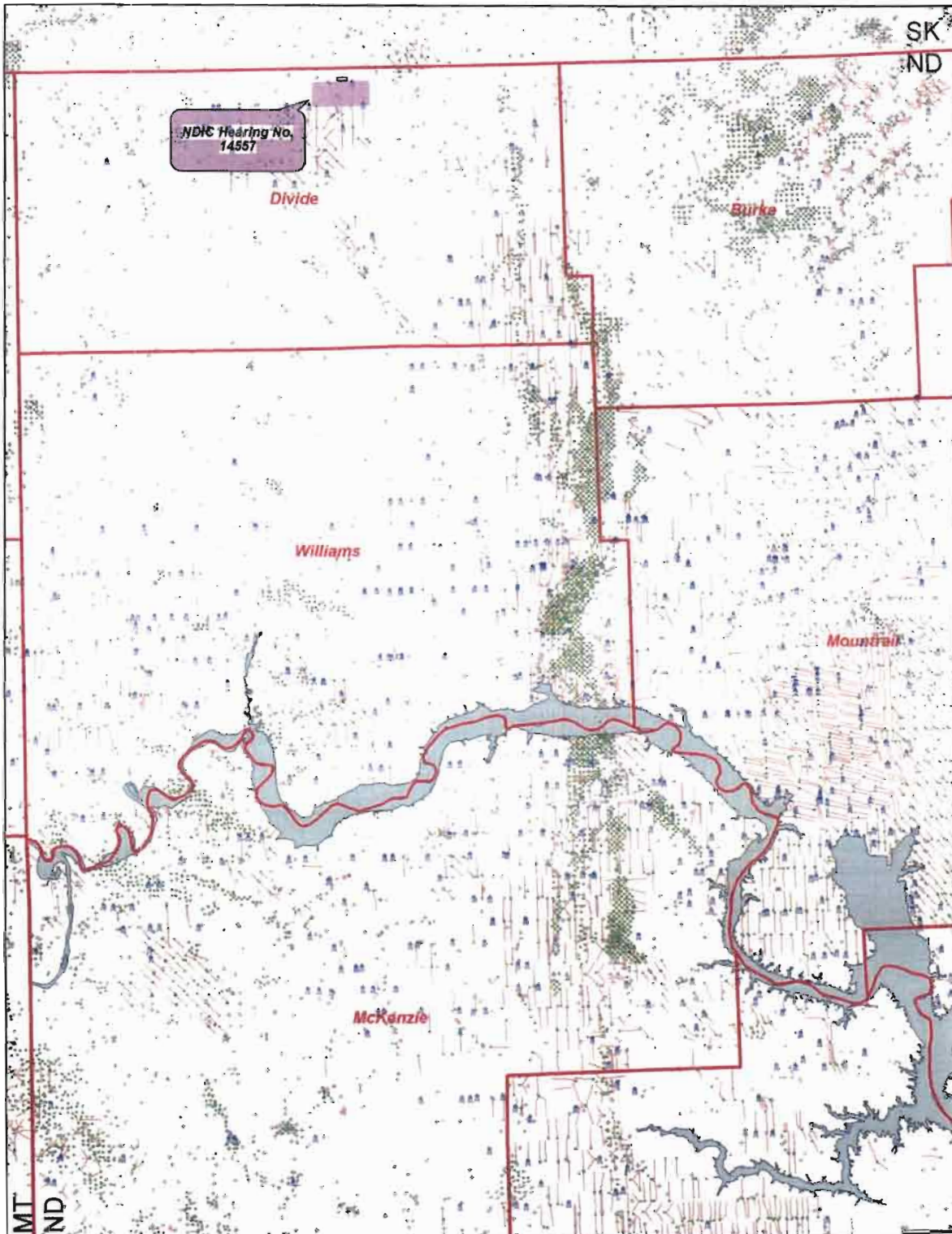


Exhibit 1B – Case No. 14558
Regional Location Map

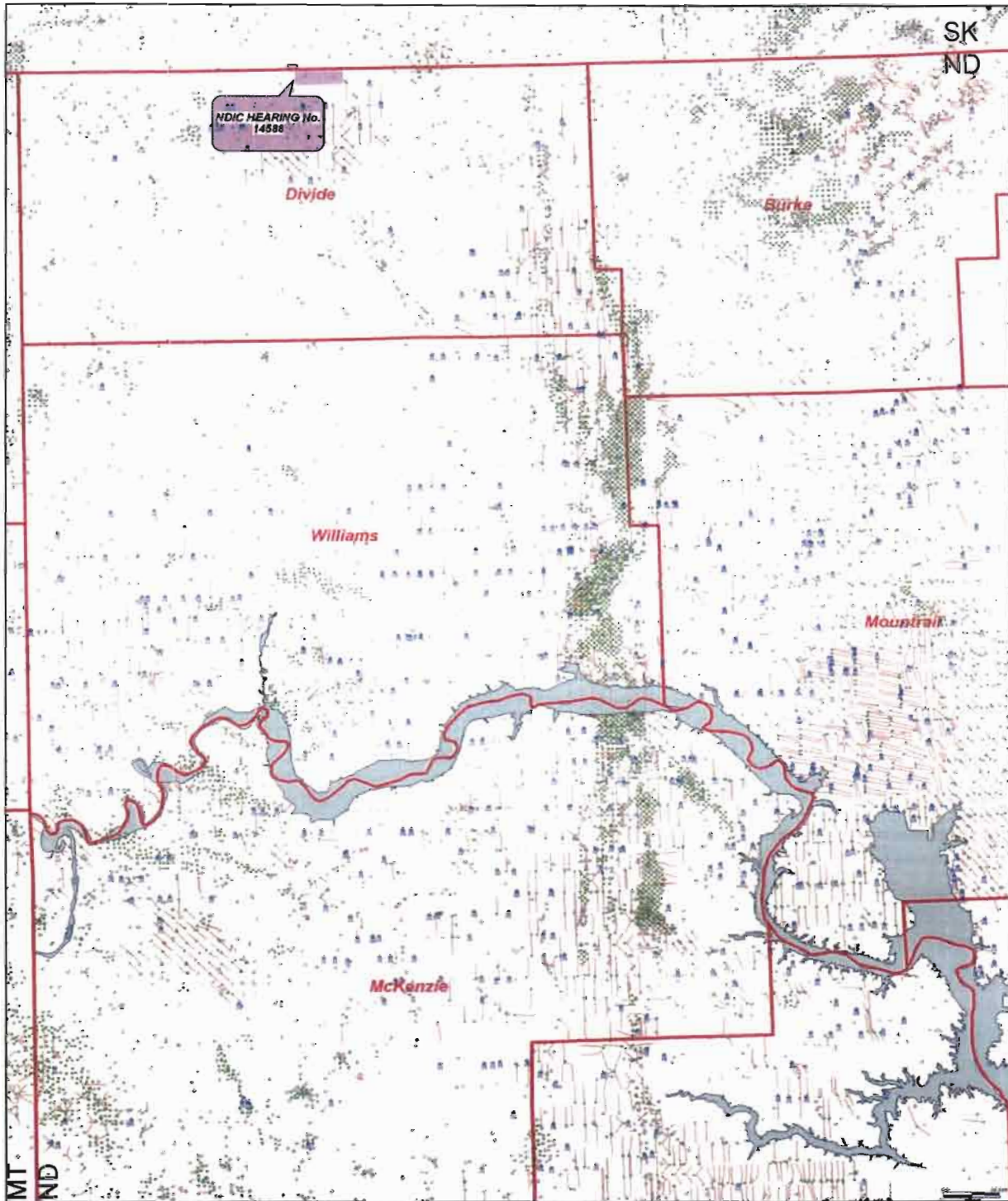


Exhibit No. 2A – Case No. 14557 Lease Ownership Map

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/20/11 CASE NO. 14557 & 14558
Introduced By Samson 14558
Exhibit 2A
Identified By Wagers

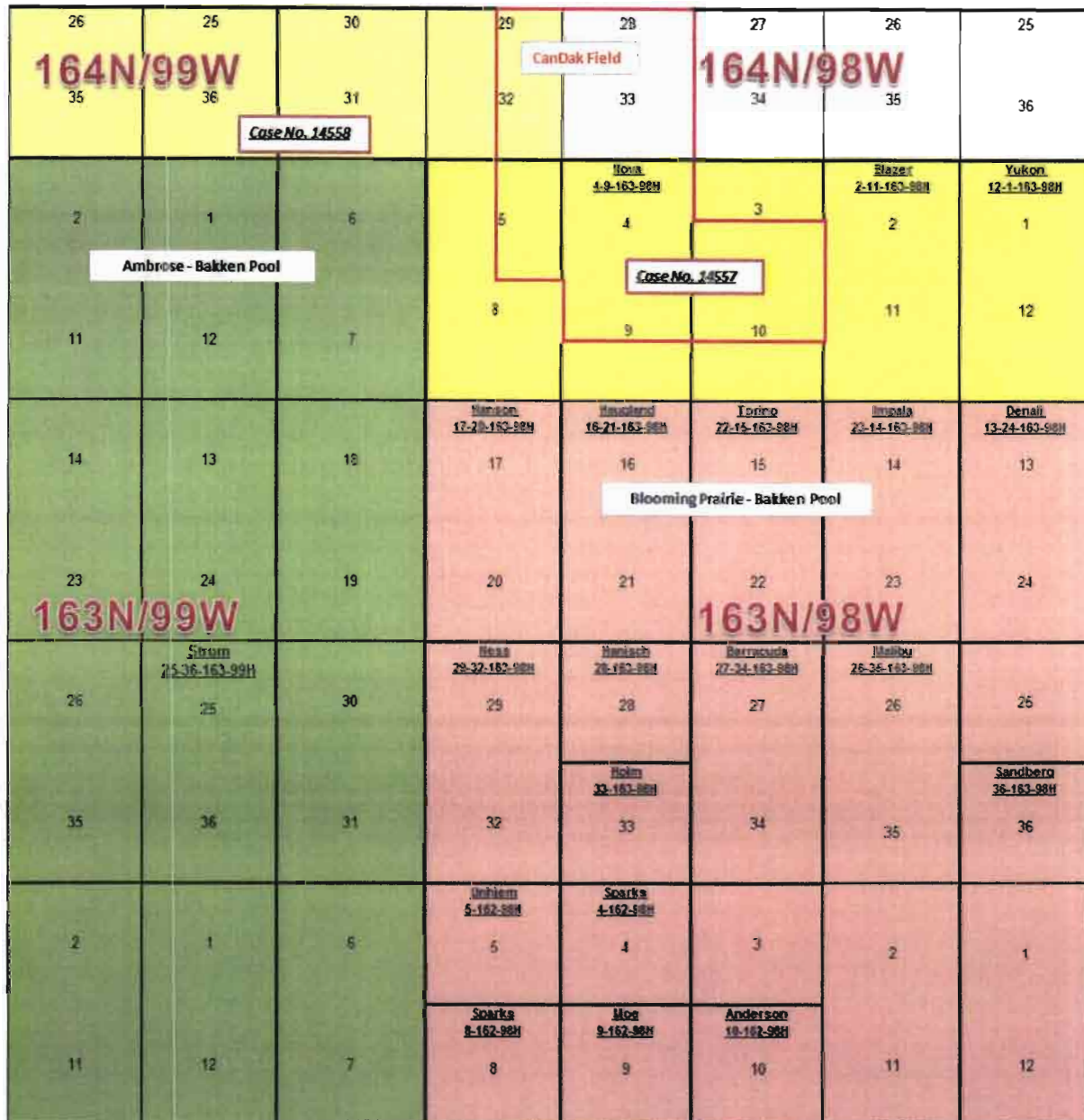


Exhibit No. 2B – Case No. 14557 Lease Ownership Map

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/28/11 CASE NO. 14557 & 14558
Introduced By Samson
Exhibit 2B
Identified By Wagers

Sections 4 & 9	Sections 4 & 9	Sections 3 & 10	Sections 2 & 11	Sections 1 & 12
Twp 163 North - Rge 98 West	Twp 163 North - Rge 98 West	Twp 163 North - Rge 98 West	Twp 163 North - Rge 98 West	Twp 163 North - Rge 98 West
1,280.96 Ac	1,280.96 Ac	1,281.12 Ac	1,281.76 Ac	1,280.96

<u>Working Interest Ownership</u>	<u>Working Interest Ownership</u>	<u>Working Interest Ownership</u>	<u>Working Interest Ownership</u>	<u>Working Interest Ownership</u>
Samson/Baytex/NuLoch - 83.615%	Samson/Baytex/NuLoch - 100%	Samson/Baytex/NuLoch - 98.607%	Samson/Baytex/NuLoch - 90.62%	Samson/Baytex/NuLoch - 87.556%
Section 5	Section 4	Section 3	Section 2	Section 1
Section 8	Section 9	Section 10	Section 11	Section 12

Exhibit 2C – Case No. 14558 Lease Ownership Map

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/20/11 CASE NO. 14558 1/2
Introduced By Samson 14557
Exhibit 2C
Identified By Wagers

Sections 26 & 35 T164N - R99W 795.60 Actual Acres Samson et al - 76.6657%	Sections 25 & 36 T164N - R99W 795.56 Actual Acres Samson et al - 95.61%	Sections 30 & 31 T164N - R98W 764.38 Actual Acres Samson et al - 94.4%	Sections 29 & 32 T164N - R98W 796.24 Actual Acres Samson et al - 91.614%
Section 26	Section 25	Section 30	Section 29
Section 35	Section 36	Section 31	Section 32

Exhibit No. 3A – Case No. 14557

Structure Map

Top Bakken (50' Contours)

DATE 4/28/11 CASE NO. 14557-158
Introduced By Samsen
Exhibit 3A
Identified By Bennick

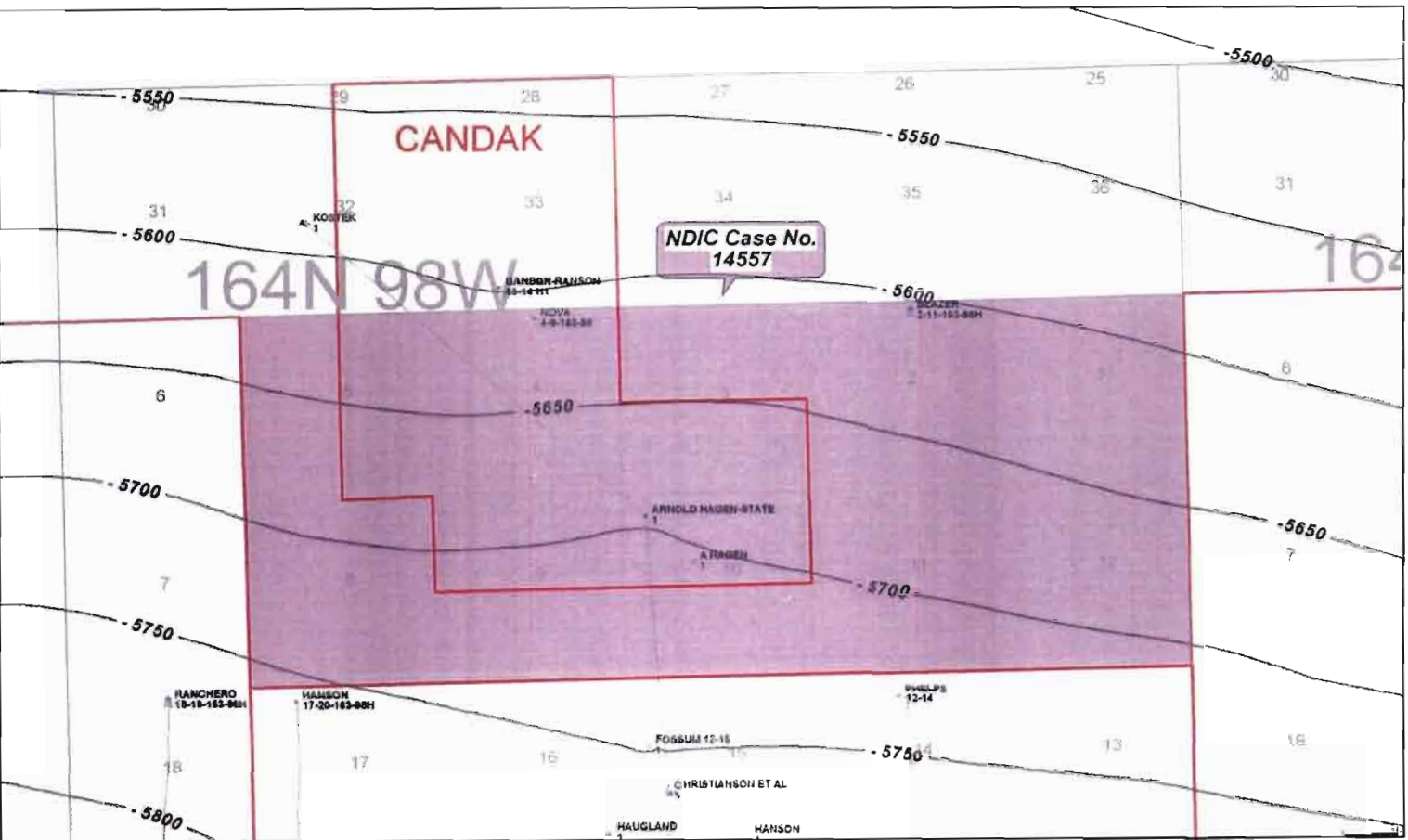


Exhibit No. 3B – Case No. 14558
Structure Map
Top Bakken (50' Contours)

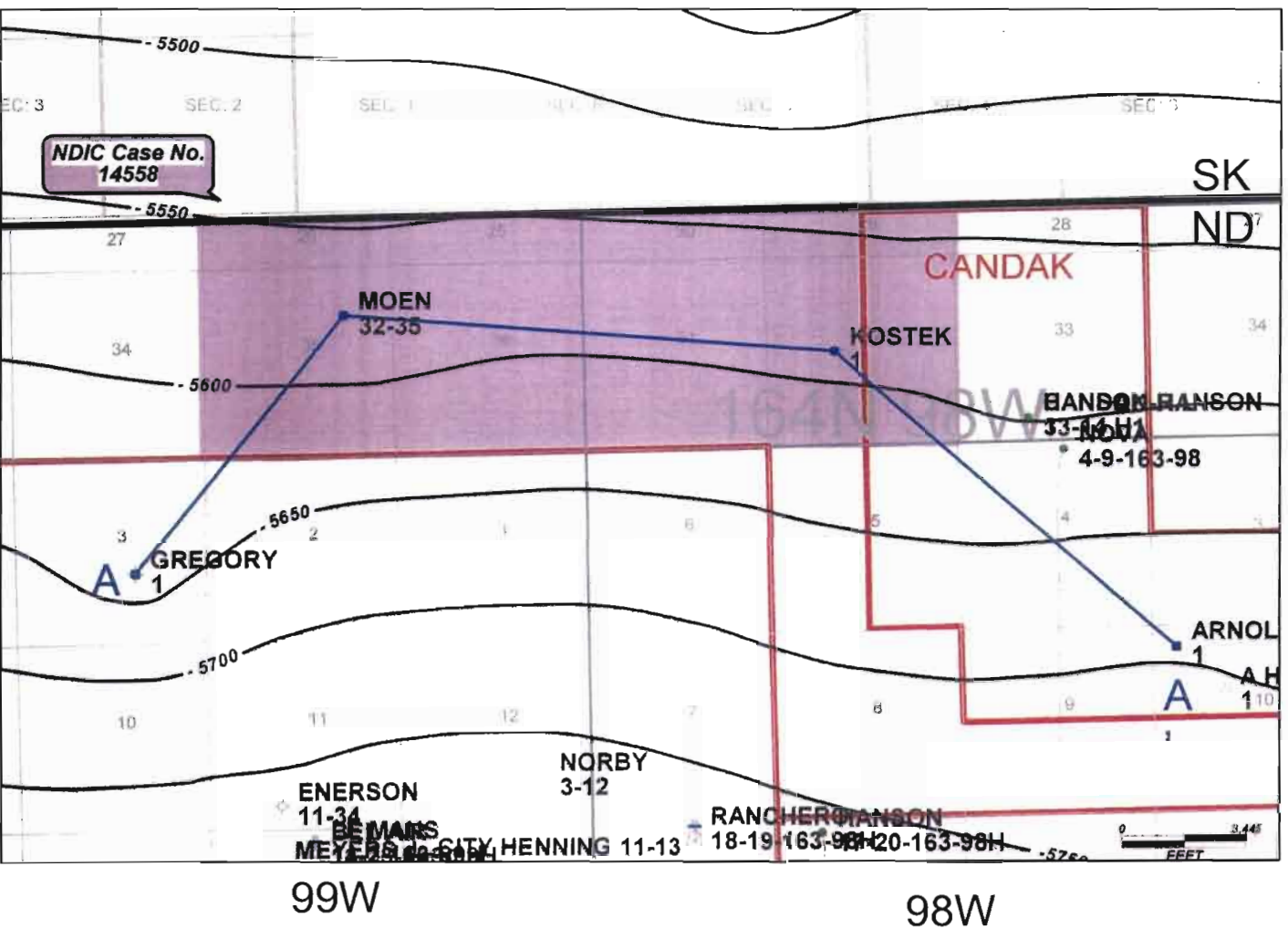
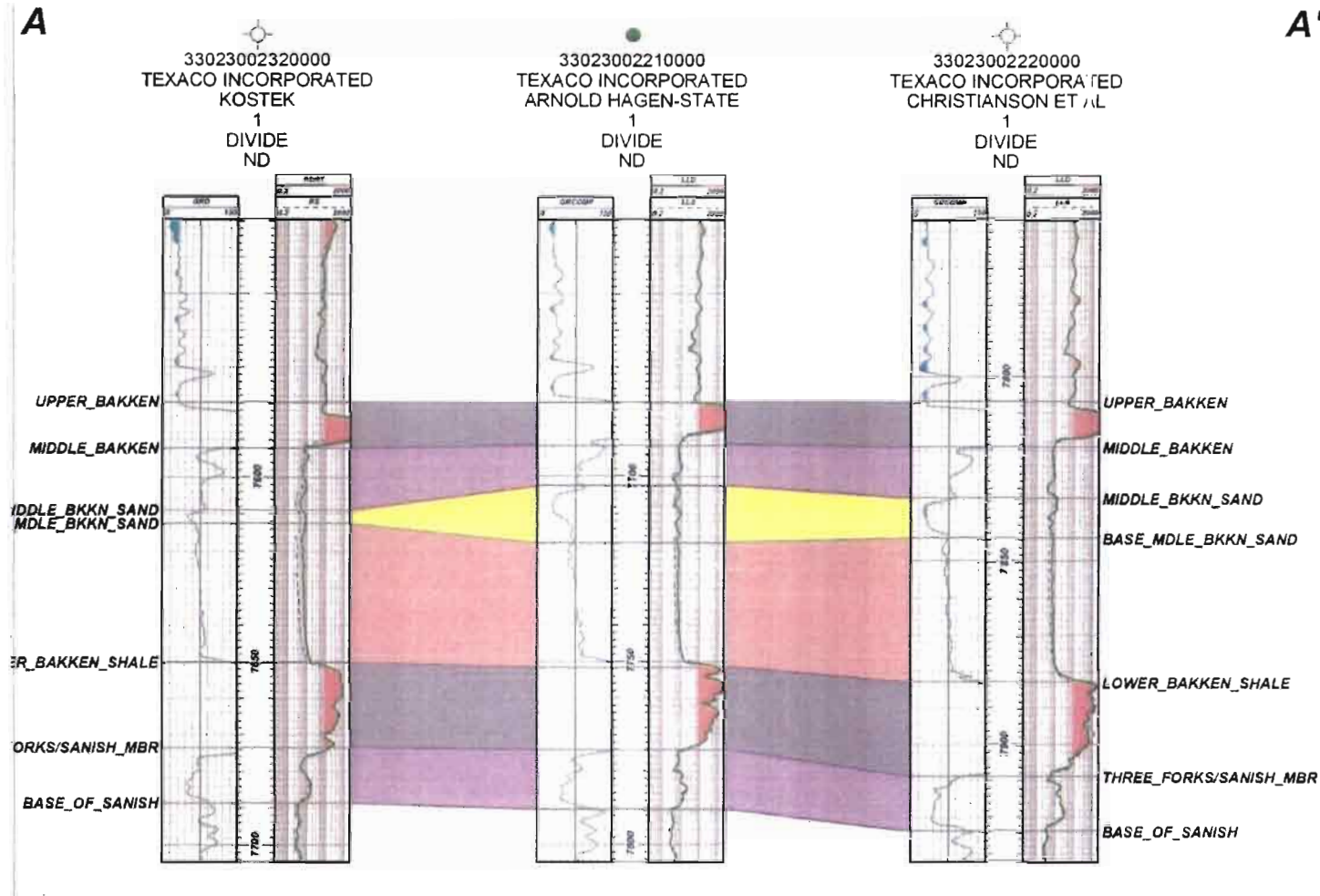


Exhibit No. 4A – Case No. 14557

Cross Section A – A'



INDUSTRIAL COMMISSION
 STATE OF NORTH DAKOTA
 DATE 4/28/11 CASE NO. 14557 & 14558
 Introduced By Samsen
 Exhibit 4A
 Identified By Perrick

April 28, 2011

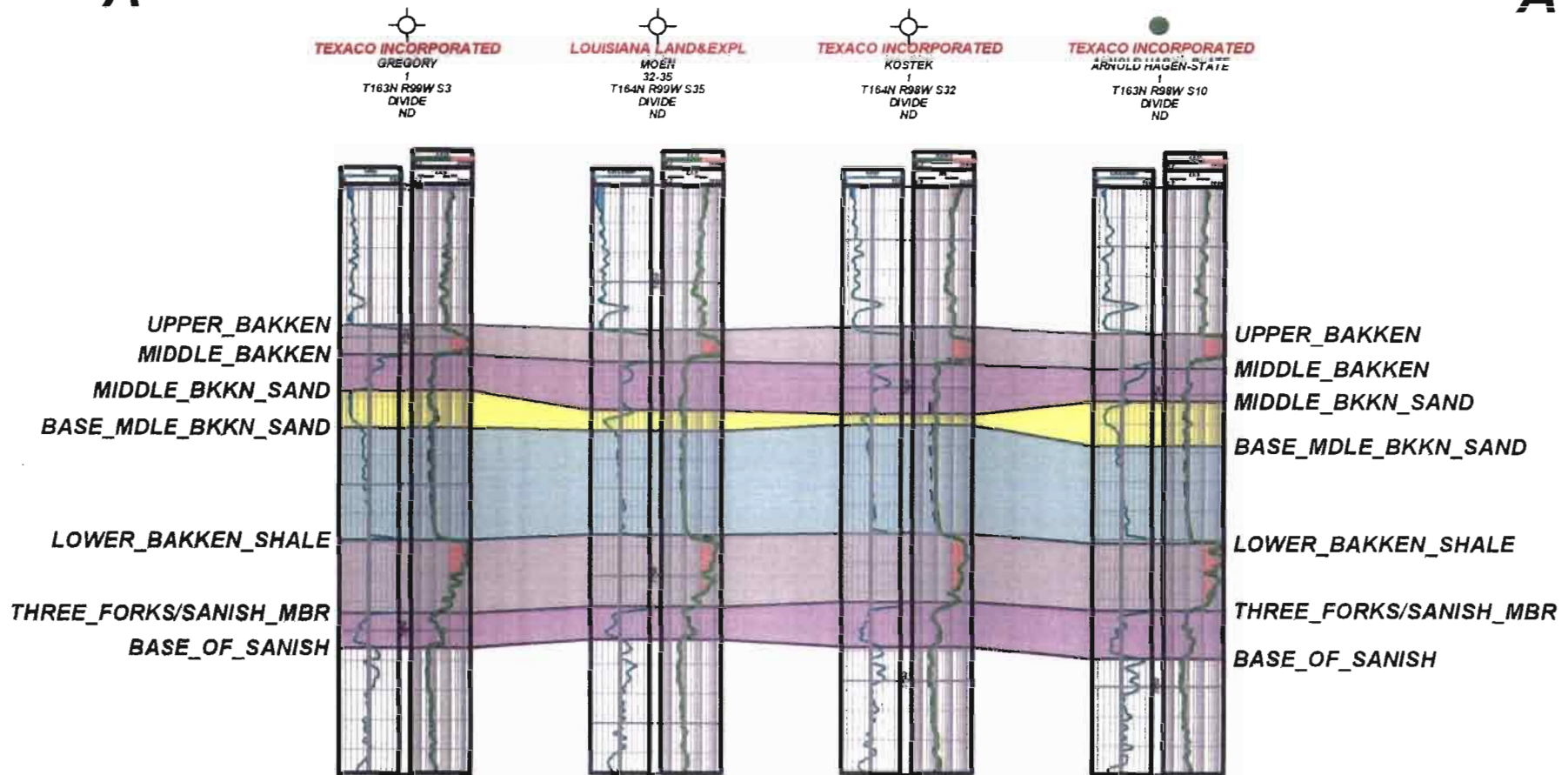
NDIC Case No. 14557 & 14558

Exhibit No. 4B – Case No. 14558

Cross Section A – A'

A

A'

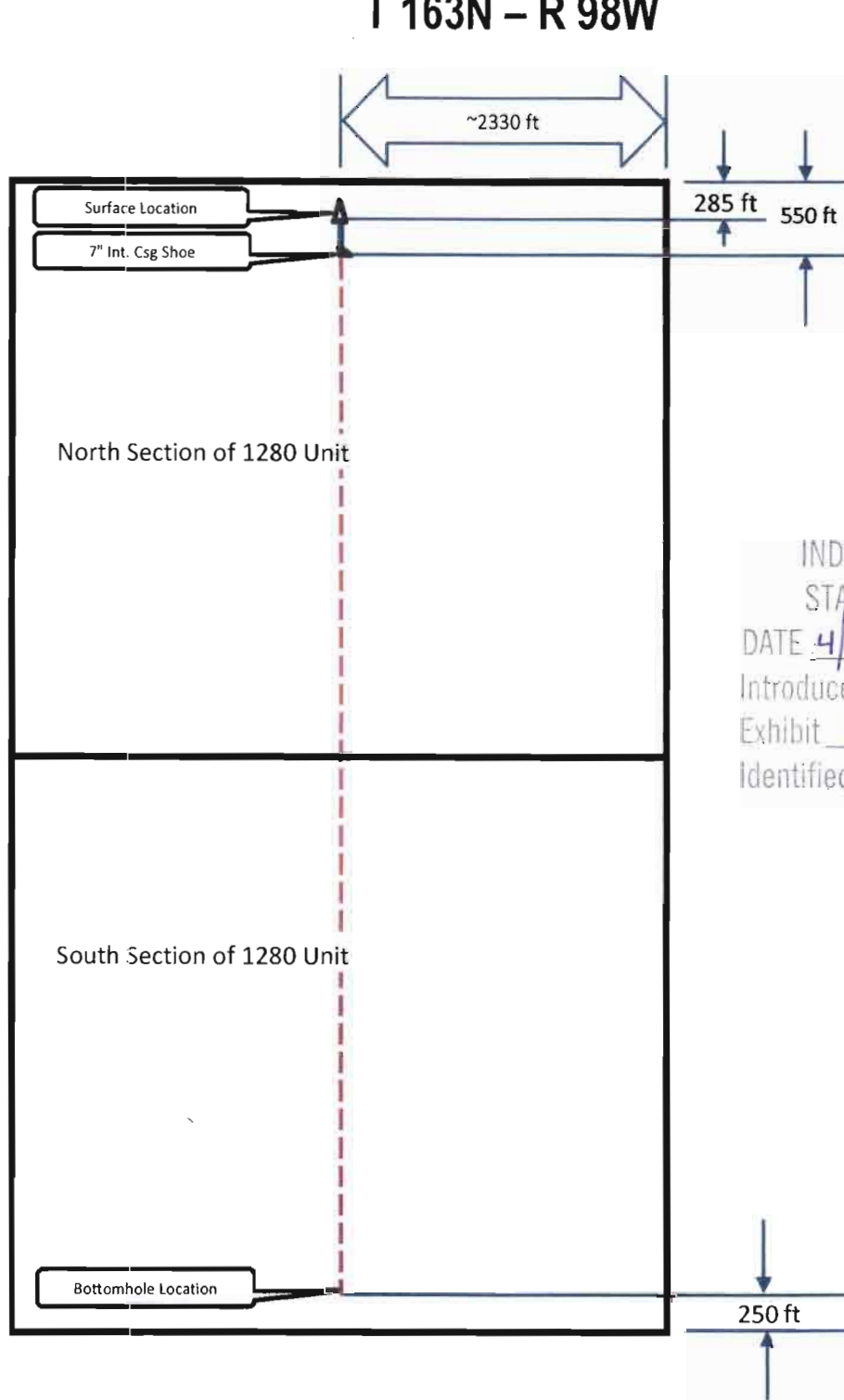


April 28, 2011

NDIC Case No. 14557 & 14558

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/28/11 CASE NO. 14557 & 14558
Introduced By Samson
Exhibit 4B
Identified By Bernick

Exhibit No. 5A – Case No. 14557
1280 Acre Horizontal Well Schematic
T 163N – R 98W



INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/28/11 CASE NO. 14557 & 14558
Introduced By Samson
Exhibit 5A
Identified By Graeve

Exhibit No. 5B – Case 14558
720-Acre Horizontal Well Schematic – Map View

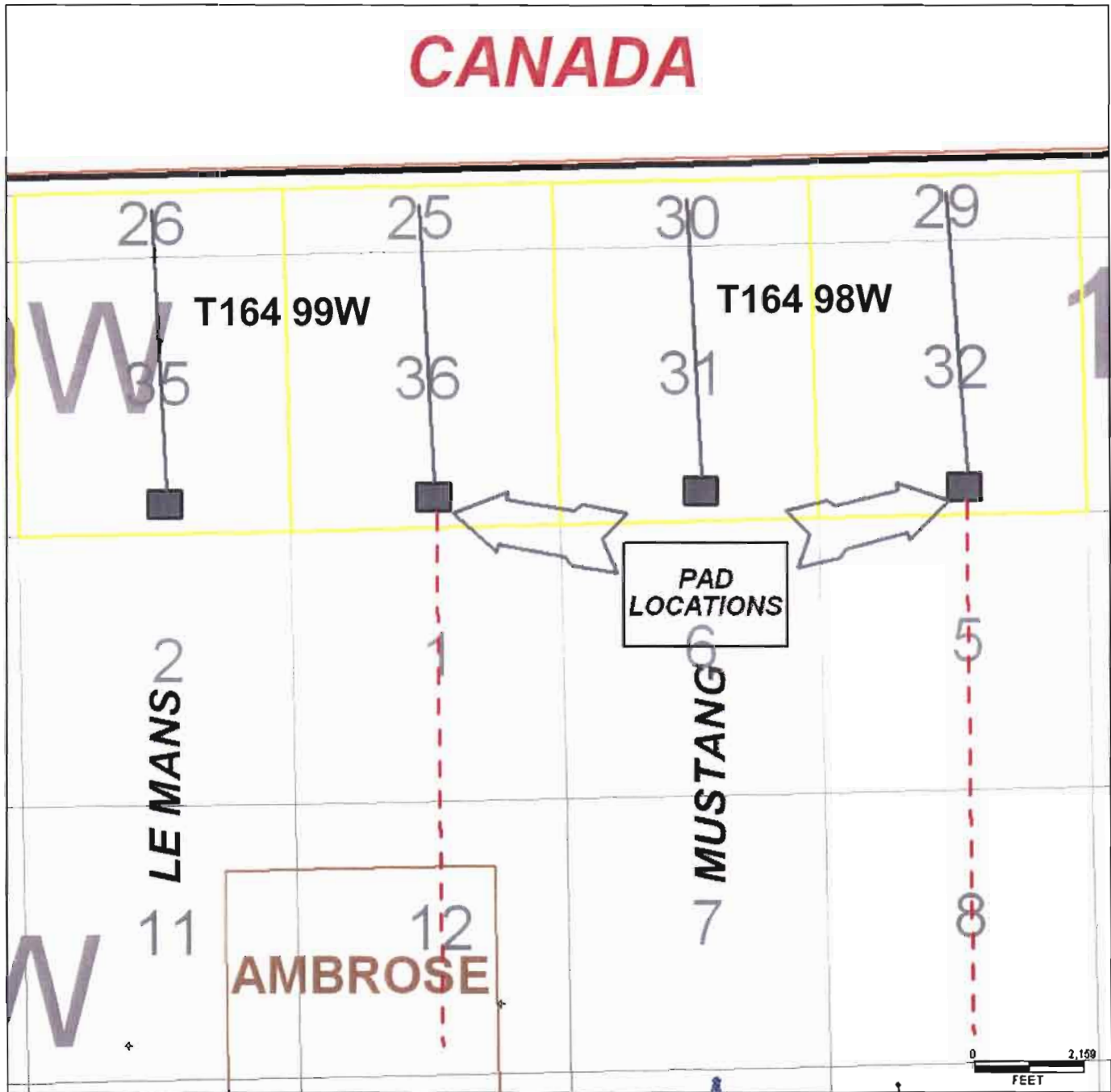


Exhibit No. 5C – Case No. 14558
720-Acre Horizontal Well Schematic

T164N R99W & T164N R98W

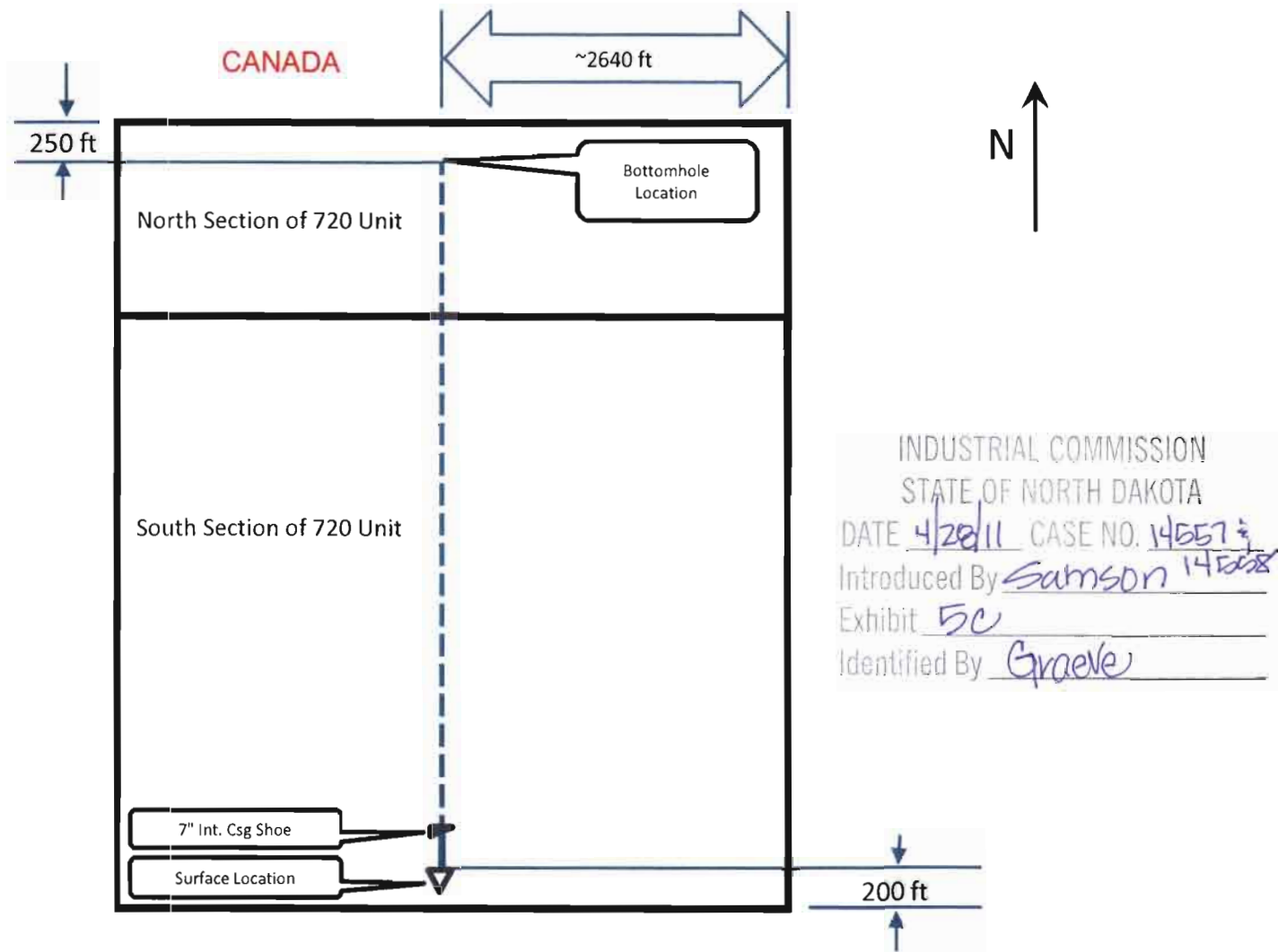
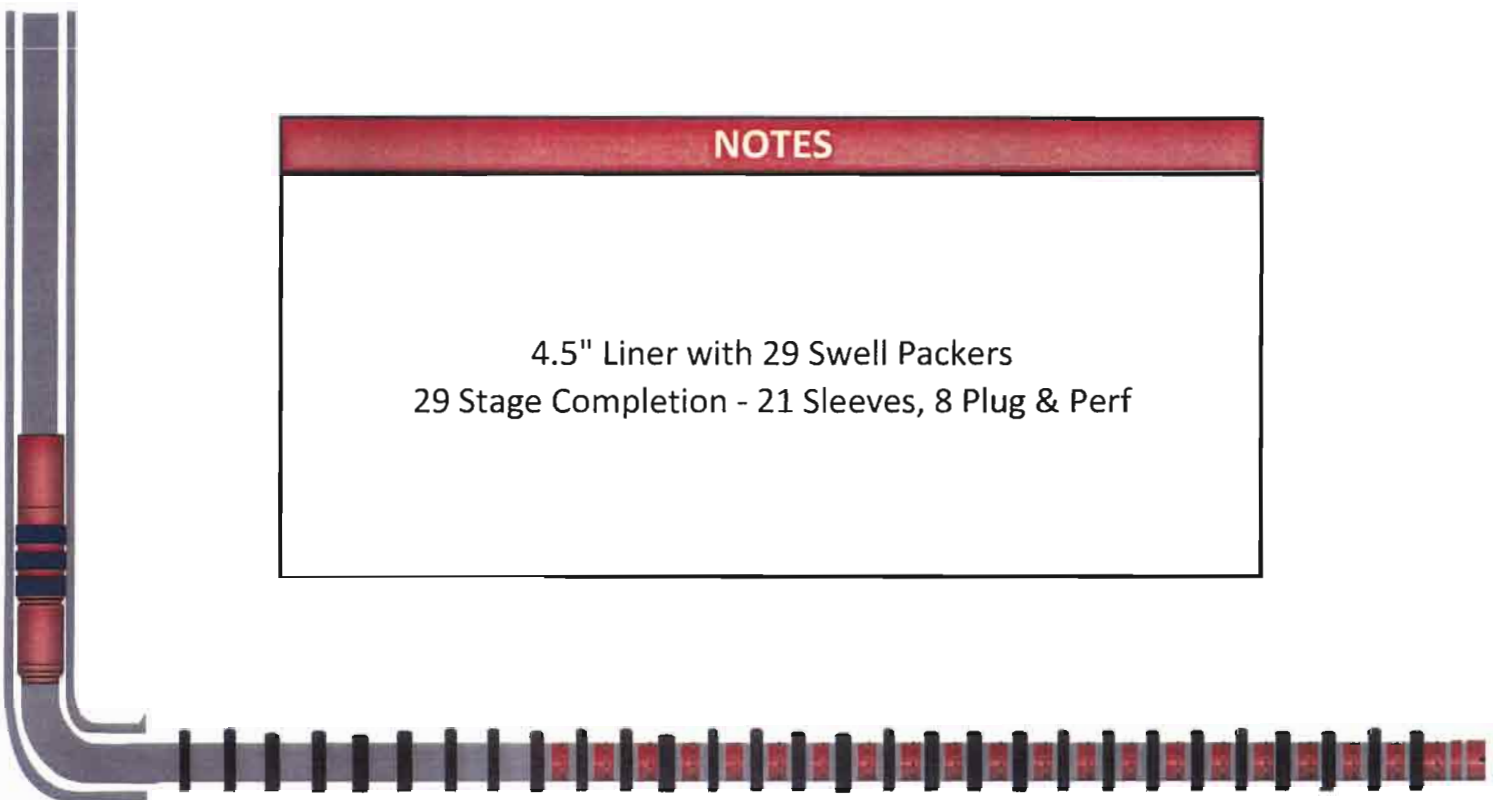


Exhibit No. 6A – Case No. 14557 1280 Acre Horizontal Wellbore Diagram



INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/20/11 CASE NO. 14557
Introduced By Samson 14558
Exhibit 6A
Identified By Gravel

Exhibit No. 6B – Case No. 14558 720-Acre Horizontal Wellbore Diagram

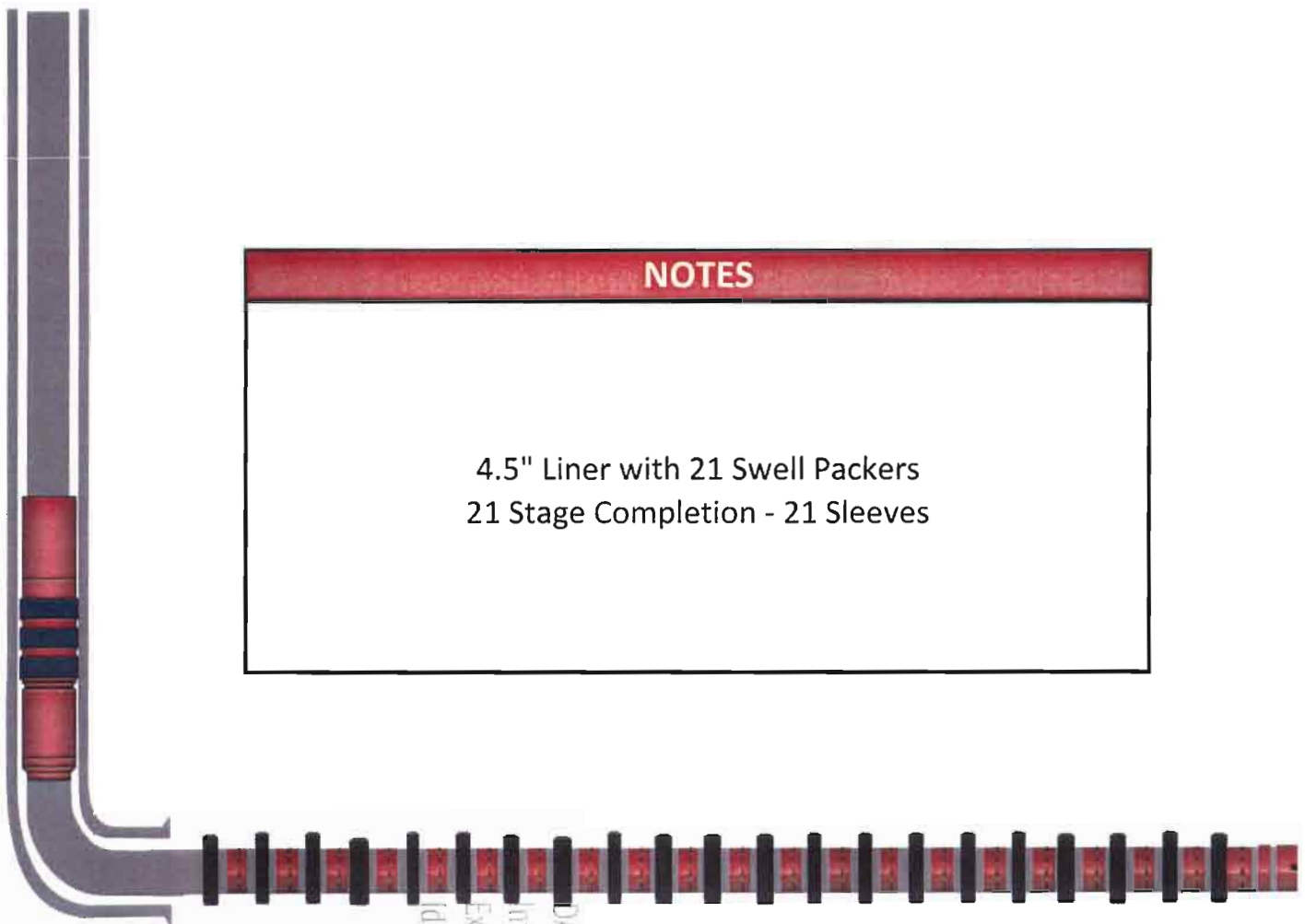


Exhibit No. 7A – Case No 14557 Reservoir Properties & Economics

Reservoir Properties

Formation Type	Fractured Silty Dolomite
Depth (TVD)	8123'
Vertical Thickness	12'
Porosity	5%
Water Saturation	30%
GOR:	1,050 scf/STB
OOIP (1280 acres)	2,670 MSTB
Primary Recovery Factor	~12%
Primary Estimated Recoverable Reserves	320,377 STB 336,395 MSCF

Single Well Economics (1280 acres)

Operating Cost	\$9000 per mth
Royalties & Over-Rides	20%
Average Oil Price	\$80/bbl
Average Gas Price	\$4/mcf
Net Sales	\$21,580,595
Oil Severance Tax (11.5%)	\$2,357,975
Gas Severance Tax (\$0.1476/MSCF)	\$39,722
Operating Expenses (30 years)	\$3,240,000
Net Income	\$15,942,898
Investment	\$7,000,000
Return on Investment	2.28

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/28/11 CASE NO. 14557 & 14558
Introduced By Samson
Exhibit 7A
Identified By Graeve

Exhibit No. 7B – Case No. 14558

Reservoir Properties & Economics

Reservoir Properties

Formation Type	Silty Dolomite
Depth (TVD)	8060'
Vertical Thickness	12'
Porosity	6%
Water Saturation	30%
Oil Gravity	41.8° API
Bottom Hole Temperature	199° F
Bottom Hole Pressure	4,520 psia
Formation Volume Factor	1.54 STB/RB
GOR:	1,000 scf/STB
Gas Gravity	.939
Gas Heating Value (dry)	1,639 btu
OOIP (800 acres)	2,036 MSTB
Primary Recovery Factor	~12%
Primary Estimated Recoverable Reserves	244,357 STB 244,357 MSCF

Single Well Economics (720 acre unit)

Operating Cost	\$9000 per mth
Royalties & Over-Rides	20%
Average Oil Price	\$80/bbl
Average Gas Price	\$4/mcf
Net Sales	\$16,420,790
Oil Severance Tax (11.5%)	\$1,798,468
Gas Severance Tax (\$0.1476/MSCF)	\$28,854
Operating Expenses (30 years)	\$3,240,000
Net Income	\$11,353,469
Investment	\$5,500,000
Return on Investment	2.06

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/28/11 CASE NO. 14557 & 14558
Introduced By Samson
Exhibit 7B
Identified By Graeve

Exhibit No. 8 Oil Analysis Report

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972
P.O. Box 972

Phone: (701) 572-7355

OIL ANALYSIS REPORT

SAMPLE NUMBER 0-11-1170 DATE OF ANALYSIS 3-29-11
COMPANY Samson Resources
CITY Crosby STATE ND
WELL NAME Nova 4-9-163-98H
DATE RECEIVED 3-28-11 DST NUMBER
SAMPLE SOURCE Treater
FORMATION DEPTH
LOCATION SECTION TOWNSHIP RANGE
DISTRIBUTION Barry Nelson - Crosby, ND

Specific Gravity : 0.8309 at 60/60 °F
API Gravity : 38.8 at 60 °F
Salt Content : 5 lbs/1000 bbls
Pour Point : (-40 °F
Viscosity : 2.75 Kinematic cSt at 100 °F
35.1 Saybolt Universal Seconds at 100 °F
Total Sulfur : 0.25 % by Weight
BS&W : 0.1 % in Gross Sample
0.1 % in Sample as Analyzed
Paraffin : 0.73 % by Weight

REMARKS Sampled 3-25-11 by B. Kyllö, ACL.

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/28/11 CASE NO. 14557; 14558
Introduced By Samson
Exhibit 8
Identified By Graeve

ANALYZED BY:

Graeve

Exhibit No. 9 Oil Distillation Report

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/28/11 CASE NO. 14557 & 14558
Introduced By Samson
Exhibit 9
Identified By Gvaeye

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972
P.O. Box 972

Phone: (701) 572-7355

DISTILLATION REPORT

Sample Number O-11-1170 Date Analyzed 3/29/11

Samson Resources Crosby ND
City State

Treater Nova 4-9-163-98H
Source Well Name Formation Depth

ENGLER DISTILLATION; 100 mL SAMPLE

INITIAL BOILING POINT 132° F

REMARKS:

mL Distilled	Temp ° F.	% Distilled
IBP	132	
5	187	5
10	230	10
15	260	15
20	296	20
25	327	25
30	355	30
35	384	35
40	435	40
45	465	45
50	499	50
60	570	60
70	647	70
80		80
90		90
100		100

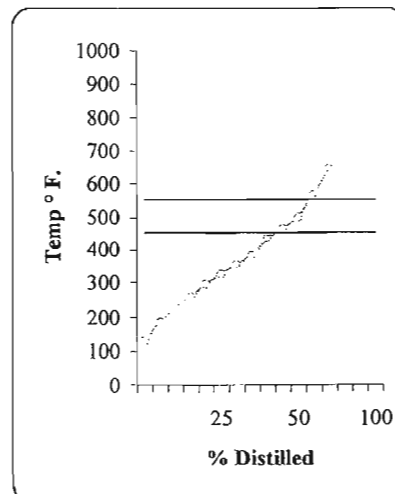


Exhibit No. 10 Water Analysis

INDUSTRIAL COMMISSION

STATE OF NORTH DAKOTA

DATE 4/28/11 CASE NO. 14557 & 14558

Introduced By Samson

Exhibit 10

Identified By Graeve

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972
P.O. Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

SAMPLE NUMBER W-11-1169 DATE OF ANALYSIS 4-1-11
COMPANY Samson Resources
CITY Crosby STATE ND
WELL NAME AND/OR NUMBER Nova 4-9-163-98H
DATE RECEIVED 3-28-11 DST NUMBER
SAMPLE SOURCE Treater
LOCATION OF SEC. TWN. RANGE COUNTY
FORMATION DEPTH
DISTRIBUTION Barry Nelson

RESISTIVITY @ 77°F = 0.044 Ohm-Meters pH = 6.10

SPECIFIC GRAVITY @ 77°F = 1.165 H₂S = Negative

TOTAL DISSOLVED SOLIDS (CALCULATED) = 239122 mg/L (205255 ppm)

SODIUM CHLORIDE (CALCULATED) = 235716 mg/L (202331 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	460.0	9125	CHLORIDE	4032.0	142946
MAGNESIUM	80.0	889	CARBONATE	0.0	0
SODIUM	3558.1	81800	BICARBONATE	2.2	134
IRON	0.2	2.8	SULFATE	9.0	433
CHROMIUM	0.1	0.7	NITRATE	0.0	0
BARIUM	0.1	9.0			
POTASSIUM	96.7	3780			

WATER ANALYSIS PATTERN

Na,K	1000.0	4	4	1000.0	Cl
Ca	100.0	5	22	0.1	HCO ₃
Mg	10.0	8	9	1.0	SO ₄
Fe	0.1	2	0	0.1	CO ₃

MEQ/L

REMARKS Sampled 3-25-11 by B. Kyllb, ACL.

ANALYZED BY: C. Jungels

Exhibit No. 11

Case No. 14557

Development Well: Nova 4-9-163-98H

Operator: Samson Resources Company

Horizontal Three Forks-Sanish Well

Surface Location: 285' FNL and 2,330' FEL of Section 4-T163N-R98W

Updip BHL: 10,047.5' South and 382.8' West of surface location

Field Designation Area:

Township 163 North, Range 98 West, Sections 1, 2, 3, 4, 5, 8, 9, 10, 11, and 12

Field Rules Requested:

A 1,280 acres spacing pattern in accordance with the patterned spacing established by Order No. 14402; designate setbacks of 200 feet to the north or south boundary of the spacing unit and 500 feet to the east or west boundary of the spacing unit.

Pools to be included:

50' above the top of the Upper Bakken Shale and 50' below the base of the Lower Bakken Shale.

Disposition of Fluids:

Oil transported by Shell Trading (US) Company

Salt Water Hauled by Key Energy Services, Inc.

Natural Gas is currently being flared

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA
DATE 4/28/11 CASE NO. 14557 & 14558
Introduced By Samson
Exhibit 11
Identified By Graeve

Fredrikson

& BYRON, P.A.

March 28, 2010

Mr. Bruce Hicks
Assistant Director
North Dakota Industrial Commission
Oil and Gas Division
600 East Boulevard
Bismarck, North Dakota 58505-0310



RE: APPLICATION OF SAMSON
RESOURCES COMPANY FOR
APRIL 2011 HEARINGS

Dear Mr. Hicks:

Please find enclosed herewith for filing an APPLICATION OF SAMSON RESOURCES COMPANY.

As you will note, pursuant to N.D. Admin. Code § 43-02-03-88.2, Samson requests that its witnesses be allowed to participate at the hearing by telephonic means.

Should you have any questions, please advise.

Sincerely,


LAWRENCE BENDER

LB/leo

Enclosure

cc: Ms. Karlene Fine - (w/enc.)
Mr. Lynn Helms - (w/enc.)
Mr. Todd Sattler - (w/enc.)
Ms. Connie Wagers - (w/enc.)

Attorneys & Advisors
main 701.221.4020
fax 701.221.4040
www.fredlaw.com

Fredrikson & Byron, P.A.
200 North Third Street, Suite 150
Bismarck, North Dakota
58501-3879

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

CASE No. 14558

Application of Samson Resources Company for an order creating four 720-acre drilling units comprised of Sections 25 and 36 and Sections 26 and 35, Township 164 North, Range 99 West, and Sections 29 and 32 and Sections 30 and 31, Township 164 North, Range 98 West, Divide County, North Dakota, authorizing the drilling of a horizontal well within each drilling unit and such other and further relief.



APPLICATION OF SAMSON RESOURCES COMPANY

Samson Resources Company ("Samson"), for its application to the North Dakota Industrial Commission ("Commission"), respectfully states as follows:

1.

That Samson is an owner of an interest in the oil and gas leasehold estate in portions of Sections 25 and 36 and Sections 26 and 35, Township 164 North, Range 99 West, and Sections 29 and 32 and Sections 30 and 31, Township 164 North, Range 98 West, Divide County, North Dakota (the "Subject Lands").

2.

That the Subject Lands are currently within an area for which the Commission has not established spacing for the Bakken formation.

3.

That Samson is desirous of drilling a horizontal test well to the Bakken formation in the proposed drilling units.

4.

That Samson is of the opinion that drilling a horizontal test well is necessary to protect correlative rights, prevent waste and to effect the greater ultimate recovery of oil and gas from the pool.

5.

That Samson therefore requests an order of the Commission creating four 720-acre drilling units comprised of Sections 25 and 36 and Sections 26 and 35, Township 164 North, Range 99 West, and Sections 29 and 32 and Sections 30 and 31, Township 164 North, Range 98 West, Divide County, North Dakota, authorizing the drilling of a horizontal well within each drilling unit and such other and further relief as the Commission deems appropriate.

WHEREFORE, Samson requests the following:

- (a) That this matter be set for the regularly scheduled April 2011 hearings of the Commission;
- (b) That pursuant to Section 43-02-03-88.2 of the North Dakota Administrative Code, Samson's witnesses in this matter be allowed to participate by telephonic means; and
- (c) That the Commission issue its order granting the relief requested and such other and further relief as the Commission may deem appropriate.

DATED this 28th day of March, 2011.

FREDRIKSON & BYRON, P.A.

By _____

LAWRENCE BENDER, ND Bar #03908

Attorneys for Applicant

Samson Resources Company

200 North 3rd Street, Suite 150

Post Office Box 1855

Bismarck, North Dakota 58502-1855

Phone: (701) 221-4020

STATE OF NORTH DAKOTA)
)ss.
COUNTY OF BURLEIGH)

LAWRENCE BENDER, being first duly sworn on oath, deposes and says that he is the attorney for the applicant named herein, that he has read the foregoing application, knows the contents thereof, and that the same is true to the best of this affiant's knowledge and belief.

LAWRENCE BENDER

Subscribed and sworn to before me this 28th day of March, 2011.



Notary Public
Burleigh County, North Dakota
My Commission Expires: _____

4897218 1.DOC

The North Dakota Industrial Commission will hold a public hearing at 9:00 a.m. Thursday, April 28, 2011, at the N.D. Oil & Gas Division, 1016 East Calgary Ave., Bismarck, N. D. At the hearing the Commission will receive testimony and exhibits. Persons with any interest in the cases listed below, take notice.

PERSONS WITH DISABILITIES:

If at the hearing you need special facilities or assistance, contact the Oil and Gas Division at 701-328-8038 by Friday, April 15, 2011.

STATE OF NORTH DAKOTA TO:

Case No. 14551: Application of Continental Resources, Inc. for an order amending the field rules for the Stoneview-Bakken Pool to create two 2560-acre spacing units comprised of Sections 27 and 34, T.160N., R.95W. and Sections 3 and 10, T.159N., R.95W.; and Sections 26 and 35, T.160N., R.95W. and Sections 2 and 11, T.159N., R.95W., Divide and Williams Counties, ND, authorizing the drilling of multiple horizontal wells from said well pad within each 2560-acre spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14557: Temporary spacing to develop an oil and/or gas pool discovered by the Samson Resources Co. #4-9-163-98H Nova, NWNE Section 4, T.163N., R.98W., Divide County, ND, define the field limits, and enact such special field rules as may be necessary.

Case No. 14558: Application of Samson Resources Co. for an order creating four 720-acre drilling units comprised of Sections 25 and 36; and Sections 26 and 35, T.164N., R.99W.; Sections 29 and 32; and Sections 30 and 31, T.164N., R.98W., Divide County, ND, authorizing the drilling of a horizontal well within each drilling unit and such other relief as is appropriate.

Case No. 14560: Application of Crescent Point Energy U.S. Corp. for an order extending the field boundaries and amending the field rules for the West Ambrose-Bakken Pool to create and establish a 1280-acre spacing unit comprised of Sections 6 and 7, T.163N., R.99W., Divide County, ND, authorizing the drilling of one horizontal well on said spacing unit and such other relief as is appropriate.

Case No. 14598: Application of Continental Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 18 and 19, T.161N., R.96W., Upland-Bakken Pool, Divide County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14599: Application of Continental Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 16 and 21, T.161N., R.96W., Upland-Bakken Pool, Divide County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14600: Application of Continental Resources, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 30 and 31, T.161N., R.96W., Upland-Bakken Pool, Divide County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14615: Application of Continental Resources, Inc. for an order authorizing the drilling, completing and producing of a total of not more than two wells on a 1280-acre spacing unit described as Sections 17 and 20, T.161N., R.96W., Upland-Bakken Pool, Divide County, ND, eliminating any tool error requirements and such other relief as is appropriate.

April 28th, 2011

X
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18
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N.D. Oil & Gas
Division

Affidavit of Publication

State of North Dakota, County of Divide, ss:

I, Steven J. Andrist, being first duly sworn, on my oath, say that I am the publisher of The Journal, a weekly newspaper of general circulation and official newspaper of Divide County, State of North Dakota, published in the city of Crosby, ND, and that the advertisement headed

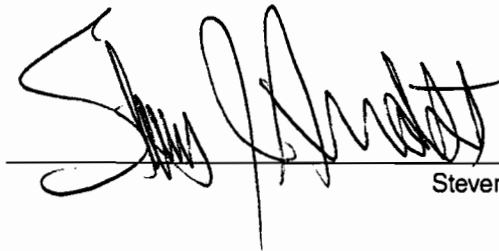
NOTICE OF HEARING

a printed copy of which is here attached, was published in The Journal on the following dates:

April 6, 2011..... 162 lines @ .62 = 100.44

TOTAL CHARGE.....\$100.44

Signed



Steven J. Andrist, Publisher

Subscribed and sworn to before me April 6, 2011



Vonni L. Anderson
Notary Public, State of North Dakota

VONNI L. ANDERSON
Notary Public
State of North Dakota
My Commission Expires Aug. 2, 2011

Case No. 14638: Application of Samson Resources Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 2 and 11, T.163N., R.99W., Ambrose-Bakken Pool, Divide County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14639: Application of Samson Resources Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 5 and 8, T.163N., R.99W., Ambrose-Bakken Pool, Divide County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14640: Application of Samson Resources Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 14 and 23, T.163N., R.99W., Ambrose-Bakken Pool, Divide County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14641: Application of Samson Resources Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 6 and 7, T.163N., R.98W., Ambrose-Bakken Pool, Divide County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14642: Application of Samson Resources Co. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 18 and 19, T.163N., R.98W., Ambrose-Bakken Pool, Divide County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Samson Resources Co. for an order pursuant to NDAC § 43-02-03-88.1 authorizing the flaring of gas from the Ness #29-32-163-98H well located in the N/2 NW/4 of Section 29, T.163N., R.98W., Divide County, ND, Blooming Prairie-Bakken Pool, as an exception to the provisions of NDCC § 38-08-06.4 and such other relief as is appropriate.

Case No. 14695: Application of Baytex Energy USA Ltd. for an order pursuant to NDAC § 43-02-03-88.1 authorizing the flaring of gas from the Jacobson #15-161-98H well located in the SESE of Section 15, T.161N., R.98W., Divide County, ND, Whiteaker-Bakken Pool, as an exception to the provisions of NDCC § 38-08-06.4 and such other relief as is appropriate.

Case No. 14696: Application of Baytex Energy USA Ltd. for an order pursuant to NDAC § 43-02-03-88.1 authorizing the flaring of gas from the Furhman #36-162-99H well located in the NWNW of Section 36, T.162N., R.99W., Divide County, ND, Ambrose-Bakken Pool, as an exception to the provisions of NDCC § 38-08-06.4 and such other relief as is appropriate.

Case No. 14697: Application of Baytex Energy USA Ltd. for an order pursuant to NDAC § 43-02-03-88.1 authorizing the flaring of gas from the Myers #2-162-99H well located in the SESE of Section 2, T.162N., R.99W., Divide County, ND, Ambrose-Bakken Pool, as an exception to the provisions of NDCC § 38-08-06.4 and such other relief as is appropriate.

Case No. 14698: Application of Baytex Energy USA Ltd. for an order pursuant to NDAC § 43-02-03-88.1 authorizing the flaring of gas from the Goldal #16-10-161-98H well located in the SESE of Section 10, T.161N., R.98W., Divide County, ND, Whiteaker-Bakken Pool, as an exception to the provisions of NDCC § 38-08-06.4 and such other relief as is appropriate.

Signed by,
Jack Dalrymple, Governor

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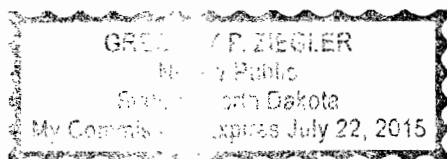
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PO: Notice of Hearing

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Affidavit of Publication

State of North Dakota) SS County of Burleigh
Before me a Notary Public for the State of North Dakota
personally appeared CK who being duly sworn, deposes and
says that he (she) is the Clerk of Bismarck Tribune Co.,
and that the publication(s) were made through the
Bismarck Tribune on the following dates
4/5 Signed Carmen Kunk
sworn and subscribed to before me this 8th
day of April 20 11

Notary Public in and for the State of North Dakota



NOTICE OF HEARING N.D. INDUSTRIAL COMMISSION OIL AND GAS DIVISION

The North Dakota Industrial Commission will hold a public hearing at 9:00 a.m. Thursday, April 28, 2011, at the N.D. Oil & Gas Division, 1016 East Calgary Ave., Bismarck, N. D. At the hearing the Commission will receive testimony and exhibits. Persons with any interest in the cases listed below, take notice. PERSONS WITH DISABILITIES: If at the hearing you need special facilities or assistance, contact the Oil and Gas Division at 701-328-8038 by Friday, April 15, 2011.

STATE OF NORTH DAKOTA TO:

Case No. 14542: Application of Gregory Tank to determine if Continental Resources, Inc. is authorized to recover from his interest as a nonparticipating owner in a spacing unit in the Johnson Corner-Bakken Pool consisting of Sections 4 and 9, T.150N., R.96W., McKenzie County, ND, a risk penalty as provided in NDCC § 38-08-08.

Case No. 14543: Temporary spacing to develop an oil and/or gas pool discovered by the Continental Resources, Inc. #1X-21H Haag, SESW Section 21, T.144N., R.99W., Billings County, ND, define the field limits, and enact such special field rules as may be necessary.

Case No. 14544: Temporary spacing to develop an oil and/or gas pool discovered by the Continental Resources, Inc. #1-19H Bud, NENW Section 19, T.153N., R.99W., Williams County, ND, define the field limits,

and enact such special field rules as may be necessary.

Case No. 14545: Application of Continental Resources, Inc. for an order extending the 1280-acre drilling unit comprised of field boundaries and amending the field Sections 24 and 25, T.141N., R.101W., rules for the Beaver Lodge-Bakken Pool to Billings County, ND, authorizing the drilling create and establish two 1280-acre spacing of a horizontal well within said drilling units comprised of Sections 23 and 24 and such other relief as is appropriate. T.156N., R.95W.; and Sections 1 and 2.

Case No. 14546: Application of Continental Resources, Inc. for an order amending the field rules for the Little Knife-Bakken Pool well on each spacing unit and such other to create and establish a 1280-acre spacing relief as is appropriate.

Case No. 14551: Application of Continental Resources, Inc. for an order amending the field rules for the Stoneview-Bakken Pool well on each spacing unit and such other to create two 2560-acre spacing units comprised of Sections 27 and 34, T.160N., R.95W.; and Sections 3 and 10, T.159N., R.95W.; and Sections 26 and 35, T.160N., R.95W.; and Sections 2 and 11, T.159N., R.95W., Divide and Williams County ND, authorizing the drilling of multiple horizontal wells from said well pad with each 2560-acre spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14547: Application of Continental Resources, Inc. for an order extending the field boundaries and amending the field rules for the Leaf Mountain-Bakken Pool to create and establish two 1280-acre spacing units comprised of Sections 2 and 11; Sections 3 and 10; and Sections 14 and 23, T.160N., R.94W., Burke County, ND, authorizing the drilling of one horizontal well on each spacing unit and such other relief as is appropriate.

Case No. 14548: Application of Continental Resources, Inc. for an order extending the field boundaries and amending the field rules for the North Tioga-Bakken Pool to create and establish three 1280-acre spacing units comprised of Sections 2 and 11; Sections 3 and 10; and Sections 14 and 23, T.160N., R.94W., Burke County, ND, authorizing the drilling of one horizontal well on each spacing unit and such other relief as is appropriate.

Case No. 14549: Application of Continental Resources, Inc. for an order extending the field boundaries and amending the field rules for the Ray-Bakken Pool to create and establish thirteen 1280-acre spacing units comprised of Sections 28 and 33; Sections 29 and 32; Sections 30 and 31, T.158N., R.98W.; Sections 3 and 10; Sections 4 and 9; Sections 5 and 8; Sections 6 and 7; Sections 13 and 24; Sections 15 and 22; Sections 17 and 20; Sections 18 and 19; Sections 28 and 33; and Sections 27 and 34, T.157N., R.98W., Williams County, ND, authorizing the drilling of a total of not more than seven wells on each spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14355: (Continued) Prop spacing for the development of t Northwest McGregor-Bakken Pool Williams County, ND, define the field limits, and enact such special field rules as it necessary. Continental Resources, Inc.

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of Continental Resources, Inc. for an order amending the field rules for the Elm Tree-Bakken Pool to create a 2560-acre spacing unit comprised of all of Sections 5, 8, 17 and 20, T.153N., R.94W., McKenzie County, ND, authorizing the drilling of up to four horizontal wells from said well pad within said 2560-acre spacing unit; eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14062: (Continued) Temporary spacing to develop an oil and/or gas pool discovered by the Continental Resources, Inc. #1-SH Norway, NENW Section 5, T.150N., R.96W., McKenzie County, ND, define the field limits, and enact such special field rules as may be necessary.

Case No. 13442: (Continued) Application of Continental Resources, Inc. for an order amending the field rules for the Stoneview-Bakken Pool to create and establish two 320-acre spacing units comprised of the N/2 and the E/2 of Section 31, T.161N., R.94W., Burke County, ND, authorizing the drilling of one horizontal well on each spacing unit, and such other relief as is appropriate.

Case No. 14553: Application of Newfield Production Co. for an order to establish temporary spacing for the development of an oil and/or gas pool discovered by the following wells: #1-9H Caliente, WNWNE of Section 9, T.156N., R.99W.; and #21-16 1 H Yanoia, SWSE of Section 21, T.156N., R.99W., Williams County, ND, define the field limits, enact such special field rules as may be necessary and such other relief as is appropriate.

Case No. 14554: Application of Newfield Production Co. for an order suspending and, after hearing, revoking the permit issued to BTA Oil Producers, LLC to drill the 20711 Peterson 1552 #1-H well (File No. 20563), with a surface location in the WNWNE of Section 15, T.155N., R.99W., Williams County, ND, and such other relief as is appropriate.

Case No. 14555: Application of Newfield Production Co. for an order authorizing the production #150-99-7-6-1H well, which was inadvertently drilled with the heel of the well located approximately 87 feet from the such line and 1370 feet from the east line of Section 7, T.150N., R.99W., McKenzie County, ND, to be completed and allowed to produce at an unrestricted rate and designating Sections 6 and 7, T.150N., R.99W., as the appropriate spacing unit or said well and such other relief as is appropriate.

Case No. 14391: (Continued) Application of Newfield Production Co. for an order suspending, and after hearing, revoking a permit issued to XTO Energy Co. for the drilling of the Berg Federal #21X-30 well on drilling unit consisting of Sections 30 and 31, T.149N., R.97W., McKenzie County, ND; alternatively, designating Newfield Production Co. as operator of said well; and such other relief as is appropriate.

Case No. 14556: Temporary spacing to develop an oil and/or gas pool discovered by the G3 Operating, LLC #1-28-33H Irtola, NWNW Section 28, T.157N., R.102W., Williams County, ND, define the field limits, and enact such special field rules as may be necessary.

Case No. 14557: Temporary spacing to develop an oil and/or gas pool discovered by the Samson Resources Co. #4-9-163H Nova, WNWNE Section 4, T.163N., R.98W., Divide County, ND, define the field limits, and enact such special field rules as may be necessary.

Case No. 14558: Application of Samson Resources Co. for an order creating four 10-acre drilling units comprised of Sections 25 and 36; and Sections 26 and 35, T.164N., R.99W.; Sections 29 and 32; and Sections 30 and 31, T.164N., R.98W., Divide County, ND, authorizing the drilling of a horizontal well within each drilling unit and such other relief as is appropriate.

Case No. 14559: Proper spacing for the development of the Patterson Lake-degpole Pool, Stark County, ND, redefine the field limits, and enact such special field rules as may be necessary. Armstrong Operating, Inc.

Point Energy U.S. Corp. for an order extending the field boundaries and amending the field rules for the West Ambrose-Bakken Pool to create and establish a 1280-acre spacing unit comprised of Sections 6 and 7, T.163N., R.99W., Divide County, ND, authorizing the drilling of one horizontal well on said spacing unit and such other relief as is appropriate.

Case No. 14561: Application of Corinthian Exploration (USA) Corp. for an order amending the field rules for the North Souris-Spearfish Pool to create and establish the following 320-acre spacing units comprised of the following narrow sections: Sections 25; 26; 27; 28; and 29; and in addition, the N/2 of Section 32; the S/2 of Section 32; the N/2 of Section 33; the S/2 of Section 33; the N/2 of Section 34; the S/2 of Section 34; the N/2 of Section 35; and the S/2 of Section 35, T.164N., R.77W.; and the N/2 of Section 2; the S/2 of Section 2; the N/2 of Section 3; the S/2 of Section 3; the N/2 of Section 4; the S/2 of Section 4; the N/2 of Section 5; and the S/2 of Section 5, T.163N., R.77W., Bottineau County, ND, authorizing the drilling of a total of not more than 12 wells on each spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14562: Application of EOG Resources, Inc. for an order extending the field boundaries and amending the field rules for the Kittleson Slough-Bakken Pool to create and establish two 1280-acre spacing units comprised of Sections 21 and 22, T.158N., R.91W.; and Sections 5 and 8, T.157N., R.91W., Mountrail County, ND, authorizing the drilling of a total of not more than three wells on each spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14563: Application of EOG Resources, Inc. for an order amending the field rules for the Cottonwood-Bakken Pool to create and establish a 1280-acre spacing unit comprised of Sections 23 and 26, T.157N., R.92W., Mountrail County, ND, authorizing the drilling of a total of not more than three wells on said spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14564: Application of EOG Resources, Inc. for an order extending the field boundaries and amending the field rules for the Clearwater-Bakken Pool, or in the alternative to establish Bakken spacing in the Vanville Field and/or Niobe Field, to create and establish five 1280-acre spacing units comprised of Sections 12 and 13; Sections 14 and 23; Sections 21 and 22; Sections 24 and 25; and Sections 28 and 33, T.159N., R.90W., Burke County, ND, authorizing the drilling of a total of not more than three wells on each spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 13809: (Continued) Temporary spacing to develop an oil and/or gas pool discovered by the EOG Resources, Inc. #1-01H Lebron, SESE Section 1, T.155N., R.104W., Williams County, ND, define the field limits, and enact such special field rules as may be necessary.

Case No. 14565: Application of Enerplus Resources (U.S.A.) Inc. for an order extending the field boundaries and amending the field rules for the Spotted Hawk-Bakken Pool, or the Mandaree-Bakken Pool to create and establish a 1280-acre spacing unit comprised of Sections 1 and 2, T.149N., R.94W., McKenzie County, ND, authorizing the drilling of a total of not more than seven wells on said spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Oil Co. for an order extending the field boundaries and amending the field rules for the Foreman Butte, Sather Lake, Bear Butte, and/or Buffalo Wallow Fields to establish Bakken spacing to create and establish the following 1280-acre spacing units: Sections 13 and 24; Sections 14 and 23; Sections 15 and 22; Sections 25 and 36; Sections 26 and 35; Sections 27 and 34; Sections 28 and 33; Sections 29 and 32; Sections 30 and 31, T.149N., R.101W.; Sections 18 and 19; on said spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14572: Application of Strike Oil Co. for an order amending the field rules for the North Haas-Madison Pool to move 5 and 8; Sections 6 and 7, T.148N., R.101W.; and established by Order No. 12189, to create a 160-acre spacing unit comprised of the SW/4 of Section 15, T.163N., R.82W., Bottineau County, ND, authorizing the drilling of a horizontal well within said unit and such other relief as is appropriate.

Case No. 14567: Application of Hunt Oil Co. for an order amending the field rules for the Clear Water-Bakken Pool to create and establish a 1280-acre spacing unit comprised of Sections 23 and 26, T.157N., R.90W., Mountrail County, ND, authorizing the drilling of one horizontal well on said spacing unit and/or such other and further relief as is appropriate.

Case No. 14568: Application of Slawson Exploration Co., Inc. for an order amending spacing unit and such other relief as is the field rules for the Big Bend-Bakken Pool to create and establish a 320-acre spacing unit comprised of the N/2 of Section 17, T.152N., R.92W., Mountrail County, ND, authorizing the drilling of a total of not more than three wells on said spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14569: Application of Slawson Exploration Co., Inc. for an order amending the field rules for the Sanish-Bakken Pool to create and establish a 320-acre spacing unit comprised of the W/2 of Section 20, T.154N., R.91W., Mountrail County, ND, authorizing the drilling of a total of not more than three wells on said spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14570: Application of Slawson Exploration Co., Inc. for an order amending the field rules for the Kittleson Slough-Bakken Pool to create and establish a 1280-acre spacing unit comprised of Sections 29 and 32, T.158N., R.91W., Mountrail County, ND, authorizing the drilling of one horizontal well on said spacing unit and such other relief as is appropriate.

Case No. 14571: Application of Spotted Hawk Development, LLC for an order extending the field boundaries and amending the field rules for the Heart Butte-Bakken Pool to create and establish five 640-acre spacing units comprised of the amending the field rules for the Van Hook-N/2 of Section 23 and the N/2 of Section 24; the S/2 of Section 23 and the S/2 of Section 24; T.149N., R.91W.; the N/2 of 6, 7, 8 and 9, T.150N., R.91W., McLean County, ND, authorizing the drilling of the S/2 of Section 19 and the S/2 of Section 20; a total of not more than nine wells and the N/2 of Section 29 and the N/2 of Section 30, T.149N., R.90W., Dunn and back rule, eliminating any tool error requirements and such other relief as is drilling of a total of not more than two wells on each spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14572: Application of Spotted Hawk Development, LLC for an order extending the field boundaries and amending the field rules for the Heart Butte-Bakken Pool to create and establish a 3840-acre spacing unit comprised of Sections 4, 5, Section 24; T.149N., R.91W.; the N/2 of 6, 7, 8 and 9, T.150N., R.91W., McLean County, ND, authorizing the drilling of the S/2 of Section 19 and the S/2 of Section 20; a total of not more than nine wells and the N/2 of Section 29 and the N/2 of Section 30, T.149N., R.90W., Dunn and back rule, eliminating any tool error requirements and such other relief as is drilling of a total of not more than two wells on each spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14368: (Continued) Temporary spacing to develop an oil and/or gas pool discovered by the Fidelity Exploration & Production Co. #34-34H Okpouk, SWSE of Section 34, T.139N., R.97W., Stark County, ND, define the field limits, and enact such special field rules as may be necessary.

Case No. 14061: (Continued) Temporary spacing to develop an oil and/or gas pool discovered by the Fidelity Exploration & Production Co. #31-6H Kostecky, Lot 2 authorizing the drilling of a total of not more than eleven wells on said spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14573: Application of Spotted Hawk Development, LLC for an order extending the field boundaries and amending the field rules for the Van Hook-Bakken Pool to create and establish a 3200-acre spacing unit comprised of Sections 16, R.77W., Harem Field, Bottineau County, 17, 18, 19 and 20, T.150N., R.91W., McLean ND, pursuant to NDAC Chapter 43-02-05 and Dunn Counties, ND, authorizing the drilling of a total of not more than ten wells on said spacing unit, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14581: Application of Slawson Exploration Co., Inc. for an order pursuant to NDAC § 43-02-03-88.1 authorizing the conversion to saltwater disposal into the Dakota Group of the Roy Moen #1 well, NWNW Section 35, T.150N., R.100W., Timber Creek Field, McKenzie County, ND, pursuant to NDAC Chapter 43-02-05 and

Slawson Exploration Co., Inc. for an order authorizing the drilling, completing and producing of a total of not more than three horizontal increase density wells on each 320-acre spacing unit; six horizontal increase density wells on each 640-acre spacing unit; and six horizontal increase density wells on each 1600-acre spacing unit within the Van Hook-Bakken Pool, Dunn, McLean, and Mountrail Counties, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14583: Application of Slawson Exploration Co., Inc. for an order authorizing the drilling, completing and producing of a total of not more than three horizontal increase density wells on each 320-acre spacing unit; and six horizontal increase density wells on each 640-acre spacing unit within the Big Bend-Bakken Pool, Mountrail County, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14584: Application of Slawson Exploration Co., Inc. for an order authorizing the drilling, completing and producing of a total of not more than three wells on a 320-acre spacing unit described as W/2 of Section 20, T.151N., R.94W., Antelope-Bakken Pool, McKenzie and Mountrail Counties, ND, eliminating any tool error requirements and such other relief as is appropriate.

Case No. 14585: Application of Dakota-3 E&P Co., LLC for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Section 32, T.149N., R.92W., Heart Butte-Bakken Pool, Dunn County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14586: Application of Corinthian Exploration (USA) Corp. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as the NE/4 of the SW/4 of Section 34, T.164N., R.77W., North Souris-Spearfish Pool, Bottineau County, ND as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14587: Application of Zenergy, Inc. for an order pursuant to NDAC Section 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 7 and 18, T.154N., R.102W., Painted Woods-Bakken, Williams County, ND, as provided by NDCC Section 38-08-08 and such other and further relief.

Case No. 14588: Application of Zenergy, Inc. for an order pursuant to NDAC Section 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 27 and 34, T.153N., R.97W., Sand Creek-Bakken, McKenzie County, ND, as provided by NDCC Section 38-08-08 and such other and further relief.

Case No. 14589: Application of Zenergy, Inc. for an order pursuant to NDAC Section 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 30 and 31, T.152N., R.98W., Banks-Bakken, McKenzie County, ND, as provided by NDCC Section 38-08-08 and such other and further relief.

Case No. 14590: Application of Zenergy, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 21 and 28, T.151N., R.104W., Dore or Briar Creek-Bakken, McKenzie County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

Case No. 14591: Application of Zenergy, Inc. for an order pursuant to NDAC Section 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 11 and 14, T.151N., R.104W., Dore or Briar Creek-Bakken, McKenzie County, ND, as provided by NDCC Section 38-08-08 and such other and further relief.

Case No. 14592: Application of Zenergy, Inc. for an order pursuant to NDAC § 43-02-03-88.1 pooling all interests in a spacing unit described as Sections 21 and 28, T.151N., R.104W., Dore or Briar Creek-Bakken, McKenzie County, ND, as provided by NDCC § 38-08-08 and such other relief as is appropriate.

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✓ Case No. 14707: Application of Sinclair Oil & Gas Co. for an order authorizing the drilling, completing and producing of a total of not more than two wells on a 1280-acre spacing unit described as Sections 25 and 36, T.154N., R.93W., Robinson Lake-Bakken Pool, Mountrail County, ND, eliminating any tool error requirements and such other relief as is appropriate.

✓ Case No. 14708: Application of XTO Energy Inc. for an order authorizing the drilling, completing and producing of a total of not more than three wells on each 1280-acre spacing unit described as Sections 2 and 11; Sections 13 and 24; and Sections 14 and 23, T.148N., R.105W.; Sections 21 and 22, T.148N., R.104W.; and Sections 1 and 2, T.147N., R.104W., MonDak-Bakken Pool, McKenzie County, ND, eliminating any tool error requirements and such other relief as is appropriate.

✓ Case No. 14709: Application of XTO Energy Inc. for an order authorizing the drilling, completing and producing of a total of not more than three wells on each 1280-acre spacing unit described as Sections 5 and 8, T.156N., R.96W.; and Sections 17 and 20, T.155N., R.96W., Dollar Joe-Bakken Pool, Williams County, ND, eliminating any tool error requirements and such other relief as is appropriate.

Signed by:

Jack Dalrymple, Governor
Chairman, ND Industrial Commission

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