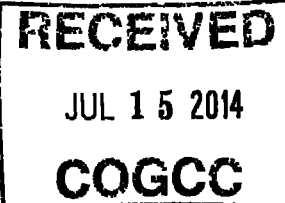




BEFORE THE OIL AND GAS CONSERVATION COMMISSION  
OF THE STATE OF COLORADO



IN THE MATTER OF THE APPLICATION OF  
CONOCOPHILLIPS COMPANY FOR AN  
ORDER TO ESTABLISH AN EXPLORATORY  
1280-ACRE DRILLING AND SPACING UNIT  
AND ESTABLISHING WELL LOCATION RULES  
FOR THE NIOBRARA FORMATION IN  
SECTIONS 5 AND 6, TOWNSHIP 4 SOUTH,  
RANGE 65 WEST, 6TH P.M., AN UNNAMED  
FIELD, ARAPAHOE COUNTY, COLORADO

CAUSE NO. 535

DOCKET NO. 1407-SP-2091

ORIGINAL

**REQUEST FOR RECOMMENDATION OF  
APPROVAL OF APPLICATION WITHOUT A HEARING**

ConocoPhillips Company ("Applicant"), by and through its undersigned attorneys, hereby requests pursuant to Rule 511.a. of the Rules of Regulations of the Colorado Oil and Gas Conservation Commission for the Director to recommend approval of its May 29, 2014, verified application ("Application") and the supporting exhibits without a hearing.

Applicant requests that the above-captioned matter be approved based upon: (i) the merits of the Application, and (ii) Applicant's sworn written testimony verifying sufficient facts along with exhibits that adequately support the relief requested in the Application. To Applicant's information and belief, no protests were timely filed in this matter.

WHEREFORE, Applicant requests that its request for a recommendation for approval of its Application without a hearing be granted.

DATED this 15<sup>th</sup> day of July, 2014.

Respectfully submitted,

ConocoPhillips Company

By: Jamie L. Jost

Jamie L. Jost

James P. Parrot

Jost & Shelton Energy Group, P.C.

Attorneys for Applicant

1675 Larimer Street, Suite 420

Denver, CO 80202

(720) 379-1812

# **ConocoPhillips Company**

**Cause No. 535  
Docket No. 1407-SP-2091**

**ConocoPhillips Company**  
**Samual A. Hamidi - Land Testimony**  
**Cause 535; Docket No. 1407-SP-2091**  
**Drilling and Spacing Unit Application – Niobrara Formation**  
**Unnamed Field, Arapahoe County, Colorado**

**July 2014 Colorado Oil and Gas Conservation Commission Hearing**

My name is Samual A. Hamidi, and I am currently employed as a Landman for ConocoPhillips Company whose address is 600 North Dairy Ashford, Houston, TX 77079 ("Applicant"). I graduated from the University of Oklahoma in Norman, Oklahoma in 2010 with a degree in Business Administration. I have over 3 years of experience in oil and gas land work. I have worked directly with the properties that are subject of this matter.

In support of Applicant's Application and my sworn testimony herein, I am submitting six (6) exhibits. This testimony and exhibits provide the supporting basis for approval of the Applicant's request for an order a) to vacate Order No. 535-97, only as to Section 6 of the Application Lands, as defined below, b) to establish an approximate 1280-acre exploratory drilling and spacing unit and c) to authorize up to two (2) horizontal wells in order to efficiently and economically recover the oil, gas and associated hydrocarbons from the Niobrara Formation underlying the following lands ("Application Lands"):

Township 4 South, Range 65 West, 6<sup>th</sup> P.M.  
Section 5: All  
Section 6: All

1,280 acres, more or less, Arapahoe County, Colorado

**Exhibit A-1: Leasehold Ownership Map:**

Exhibit A-1 is a map showing the location of the Application Lands and the leasehold ownership. The Application Lands consist of 100% FEE mineral interest. The following parties own leasehold or unleased mineral interests in the Application Lands:

<b><u>INTEREST OWNER(S)</u></b>	<b><u>UNIT WI</u></b>
Burlington Resources Oil & Gas Company LP	70.603044%
Other Working Interest Owners	29.396956%
<b>TOTAL:</b>	<b><u>100.000000%</u></b>

ConocoPhillips Company and Burlington Resources Oil & Gas Company are operating in partnership with regard to the Application Lands, and for purposes of the Application are considered a single entity.

**Exhibit A-2: Mineral Ownership Map:**

Exhibit A-2 is a map showing the location of the Application Lands and the mineral ownership.

**Exhibit A-3: Property Location Plat:**

Attached as Exhibit A-3 is a Property Location Plat. The Applicant will conform to its statement that the treated perforation of the well(s) within the Niobrara Formation in the Application Lands will be no closer than 600 feet from the boundaries of the southern section line of Section 5 of the Application Lands, no closer than 460 feet from the northern and eastern section lines of said Section 5, and no closer than 460 feet from the northern, western and southern section lines of Section 6 of the Application Lands. Also, all horizontal wells within said Sections 5 and 6 will be no closer than 960 feet from the treated interval of another well producing from the same source of supply.

**Exhibit A-4: Surface Ownership Map:**

Exhibit A-4 is a map showing the surface ownership of the Application Lands, which is owned in fee. The Applicant is working to secure an agreement with the surface owner.

**Exhibit A-5: Topographic Map:**

Exhibit A-5 is a map showing the topography of the Application Lands. Approval of the Application for a drilling and spacing unit would allow for a less impactful surface development plan.

**Exhibit A-6: Interested Parties:**

Attached as Exhibit A-6 are interested parties within the Application Lands. Based upon our examination of relevant documents all of the interested parties received proper notice. As of the date of this testimony, the Applicant is not aware of any unresolved protests or objections to the Application.

## VERIFICATION

**STATE OF TEXAS**  
**COUNTY OF HARRIS**

)  
)ss.  
)

**Samual A. Hamidi, Landman - Rockies with ConocoPhillips Company, upon oath deposes and says that he has read the foregoing Application and that the statements contained therein are true to the best of his knowledge, information and belief.**

**CONOCOPHILLIPS COMPANY**

And. Chi.

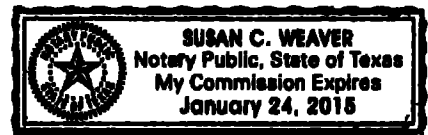
**Samual A. Hamidi**  
**Landman, Rockies Business Unit, Niobrara Land**

Subscribed and sworn to before me this 29th day of May, 2014, by Samuel A. Hamidi, Landman - Rockies of ConocoPhillips Company.

**Witness my hand and official seal.**

My commission expires: 1-24-15

Susan Chuan  
Notary Public



Parachute 4-65 5-6 3H

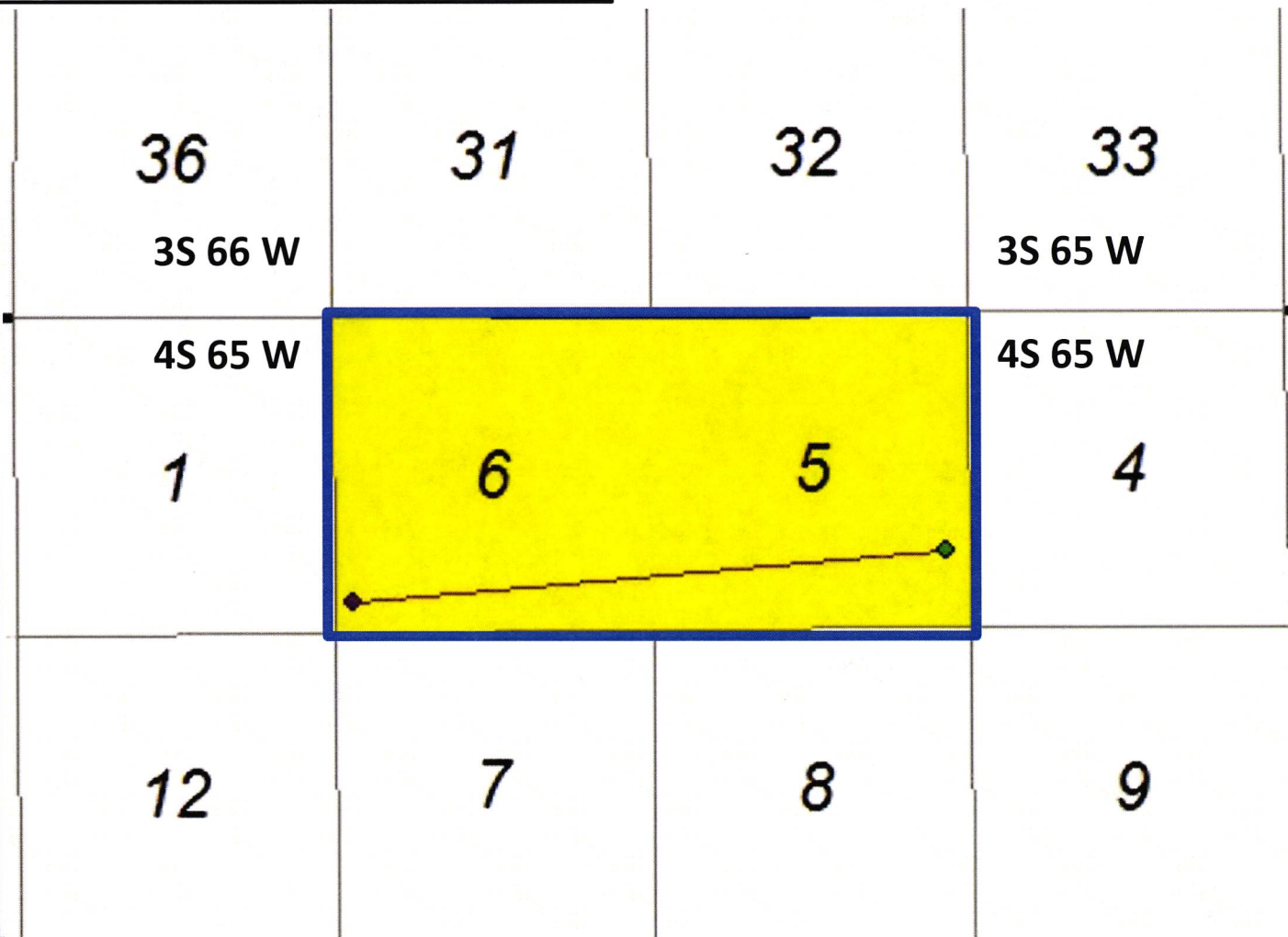
Exhibit : A-1

Docket: 1407-SP-2091 Cause: 585

Leasehold Ownership Map

Parachute 4-65 5-6 3H

Location: Section: 5-6 Township: 4S Range: 65W



Leasehold Ownership

 BROG Majority Ownership

Prepared by Lance  
Young

Parachute 4-65 5-6 3H

Exhibit : A-2

Docket: 1407-SP-2091 Cause: 585

Mineral Ownership Map

Parachute 4-65 5-6 3H

Location: Section: 5-6 Township: 4S Range: 65W

36

31

32

33

3S 66 W

3S 65 W

4S 65 W

4S 65 W

1

6

5

4

12

7

8

9

Mineral Ownership

 Fee Mineral Ownership

Prepared by Lance  
Young



Parachute 4-65 5-6 3H

Exhibit : A-3

Docket: 1407-SP-2091 Cause: 585

Property Location Plat

Parachute 4-65 5-6 3H

Location: Section: 5-6 Township: 4S Range: 65W



Prepared by Lance  
Young



Parachute 4-65 5-6 3H

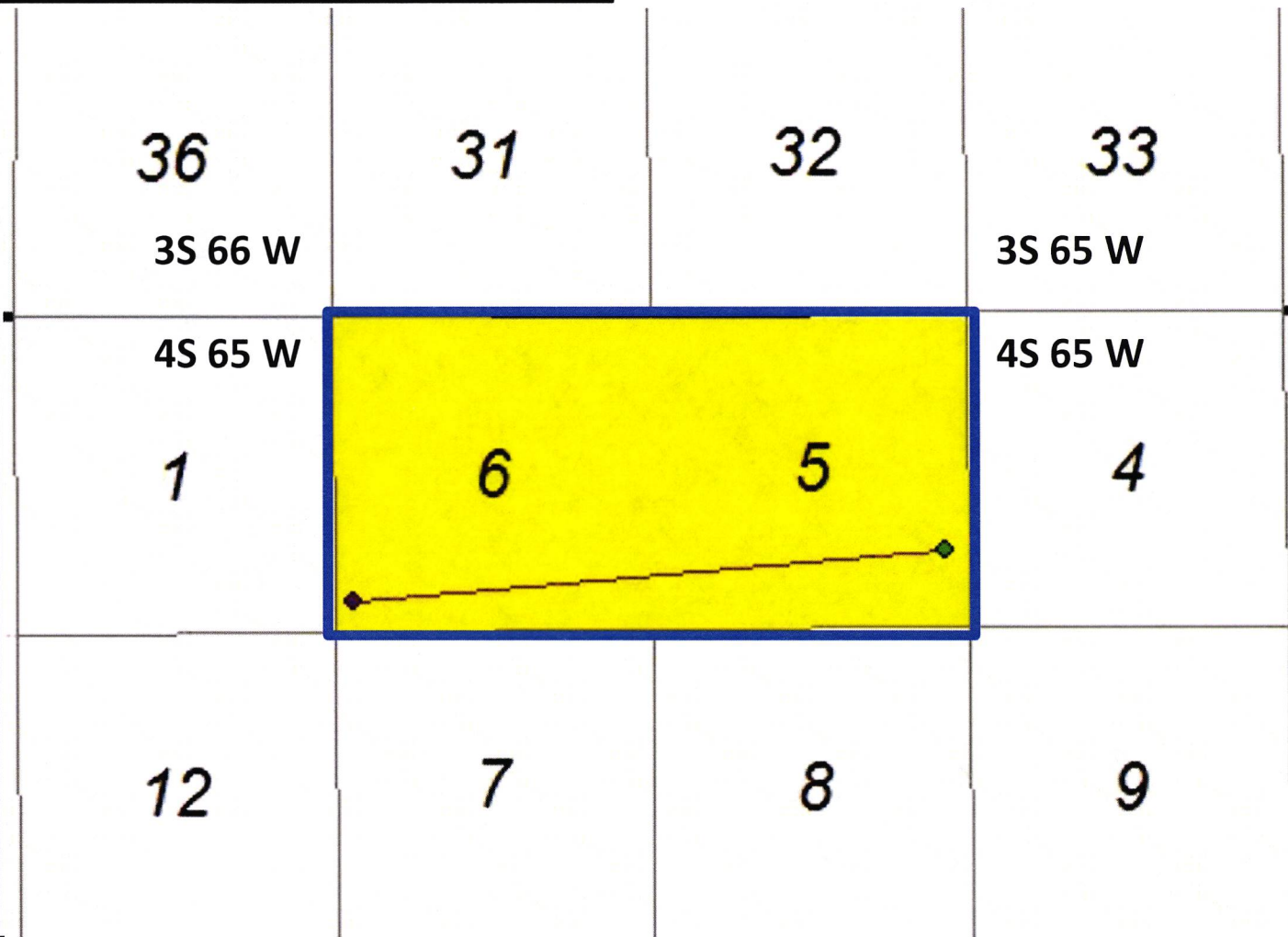
Exhibit : A-4

Docket: 1407-SP-2091 Cause: 585

Surface Ownership Map

Parachute 4-65 5-6 3H

Location: Section: 5-6 Township: 4S Range: 65W



Surface Ownership

 Fee Surface Ownership

Prepared by Lance  
Young

Parachute 4-65 5-6 3H

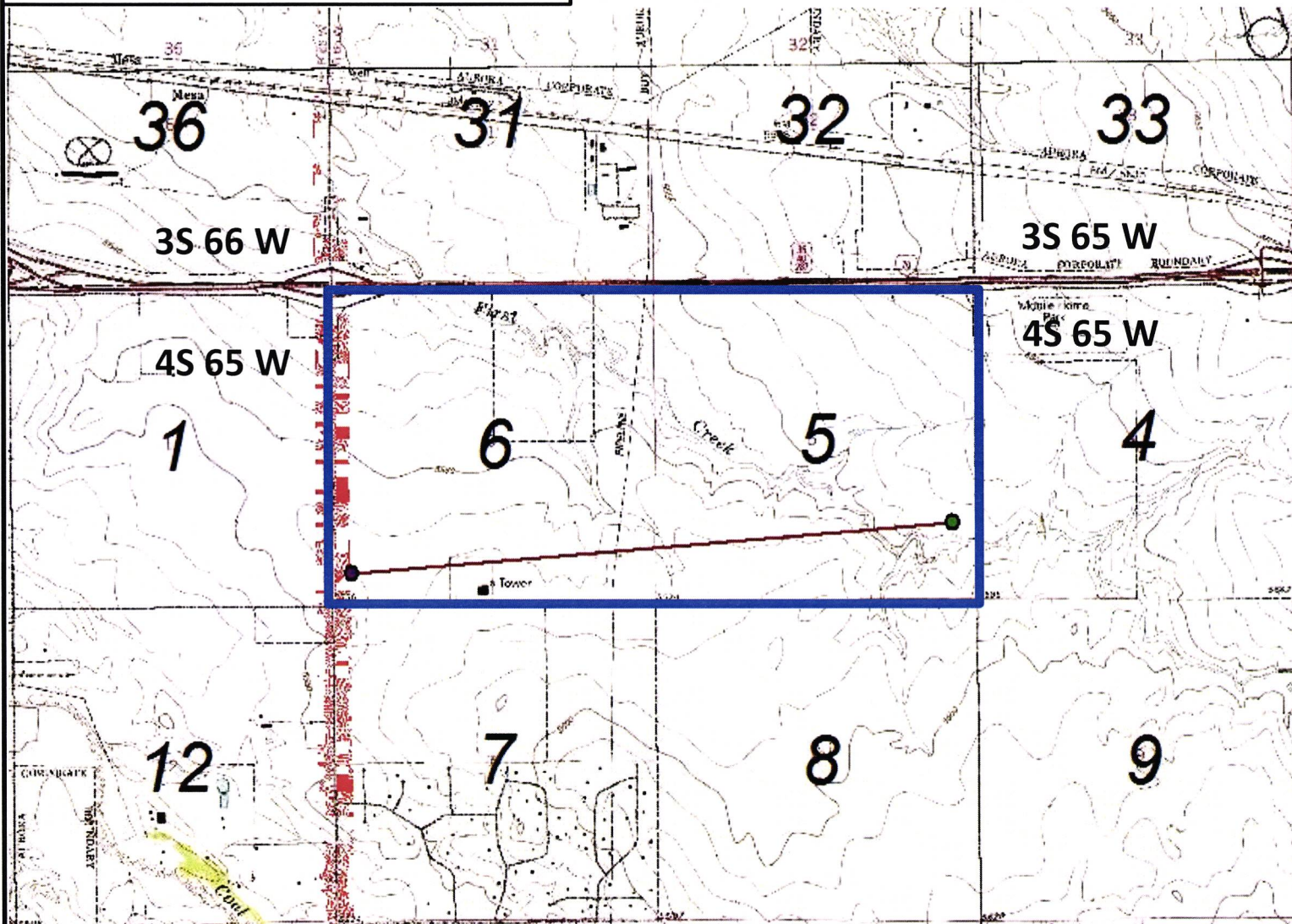
Exhibit : A-5

Docket: 1407-SP-2091 Cause: 585

Topographic Map

Parachute 4-65 5-6 3H

Location: Section: 5-6 Township: 4S Range: 65W



Prepared by Lance  
Young

**Exhibit A-6  
Interested Party List  
SP-Parachute 4-65 5-6**

**Tom Schreiner  
Energy Liaison  
Colorado Parks and Wildlife  
Northeast Regional Office  
6060 Broadway  
Denver, CO 80216**

**Kent Kuster  
Colorado Department of Public Health &  
Environment  
4300 Cherry Creek Drive South  
Denver, CO 80246-1530**

**Diane Kocis  
Arapahoe County Public Works and  
Development  
6924 South Lima Street  
Centennial, CO 80112**

**Anadarko Land Corporation  
Attn: Manager/Land Administrator  
P.O. Box 173779  
Denver, CO 80217-3779**

**ConocoPhillips Company  
600 N. Dairy Ashford  
Houston, Texas 77079**

**Burlington Resources Oil & Gas  
Company LP  
600 N. Dairy Ashford  
Houston, Texas 77079**

**Encana Oil & Gas (USA) Inc.  
Attn: Western Operations DJ Land  
370 17th Street, Suite 1700  
Denver, CO 80202**

**Presidio Exploration, Inc.  
5613 DTC Parkway Suite 800  
Englewood, CO 80111**

**Box Elder Royalties, LLC  
P.O. Box 29  
Denver, CO 80201**

**Ruth A. Bell  
1111 Bonforte Boulevard #1401  
Pueblo, CO 81001**

**Dorothy Louise Farabaugh  
137 Ponderosa Circle  
Golden, CO 80293**

**Barbara J. Hintz, Trustee of the  
Barbara J. Hintz Trust  
dated September 6, 2001  
805 South Washington Street  
Scott City, KS 67871**

**McEniry Ventures  
16612 E. Prentice Circle  
Centennial, CO 80015**

**Property Reserve, Inc.  
5 Triad Center, Suite 650  
Salt Lake City, UT 84180**

**Aurora Crossroads Investors Seven, LLC  
10624 S. Eastern Avenue #920  
Henderson, NV 89052**

**Aurora Crossroads Investors Eight, LLC  
10624 S. Eastern Avenue #920  
Henderson, NV 89052**

**US Bank, Trustee of the Herman A. Flader  
Trust Under Will fbo Laura Britt  
P. O. Box 3499  
Tulsa, OK 74101**

**US Bank, Trustee of the Herman A. Flader  
Trust Under Will fbo Casey Reed  
P. O. Box 3499  
Tulsa, OK 74101**

**BOK FinancialOne  
Williams Center, 10 West  
Tulsa, OK 74172**

**Burlington Resources Oil & Gas Company  
LP  
600 N. Dairy Ashford  
Houston, Texas 77079**

**E-470 Public Highway Authority  
22470 E. 6th Parkway, Suite 100  
Aurora, CO 80018**

The Department of Highways,  
State of Colorado  
4201 E. Arkansas Ave  
Denver, CO 80222

Arapahoe County  
5334 S. Prince Street  
Littleton, CO 80120

Chang Wei-Yi  
12550 Rosy Circle  
Los Angeles, CA 90066-6927

Wilma M. Stoddart  
423 E. Maplewood Drive  
Littleton CO 80121

Heirs or devisees of Frank N. Bancroft  
Unknown

Heirs or devisees of John R. Cline  
Unknown

Glen S. Douthit  
4886 Highway 66  
Longmont, CO 80501

Freedman-Moch Investment Company  
1155 Ash Street, Apt 1108  
Denver, CO 80220

CoMin Investments, LLC  
P.O. Box 40034  
Denver, CO 81504

Centurytel Fiber Company II, LLC  
100 CenturyTel Drive  
Monroe, LA 71203

Woodside Baptist Church  
8500 E. Alameda Avenue  
Denver, CO 80231-1105

Qwest Communication Company  
1801 California, 46th Floor  
Denver, CO 80202

Broadwing Communications Services, Inc.  
1122 Capital of Texas Highway South  
Austin, TX 78746-6426

MCI Telecommunications Corporation  
2400 North Glenville Drive  
Richardson, TX 75082

Beulah O. Rosander  
6341 Milhaven Dr  
Shawnee Mission, KS 66202

Beulah O. Looney  
6341 Milhaven Dr  
Shawnee Mission, KS 66202

Vicki B. Linn and Clifford L. Rock,  
individually and as the Trustee  
of the Evelyn M. Rock Trust  
5861 S. Geneva St  
Greenwood Village, CO 80111

Chesapeake Exploration LLC  
P.O. Box 18496  
Oklahoma City, OK 73118

OOGC America, Inc.  
9805 Katy Freeway, Suite 500  
Houston, TX 77024

Heirs or devisees of James A. Cooksey  
Unknown

Edward G. Gillett  
Unknown

John J. Gillett  
Unknown

James A. Gillett  
Unknown

Public Service Company of Colorado  
P.O. Box 1979  
Denver, CO 80201

Adams County, Colorado  
15151 E. Alameda Parkway, Suite 3200  
Aurora, CO 80012

**ConocoPhillips Company**

**Geoscience Testimony**

**Spacing Application**

**Niobrara Formation**

**Colorado Oil and Gas Conservation Commission Hearing**

**Cause No. 535**

**Docket No. 1407-SP-2091**

**Township 4 South, Range 65 West, Sections 05-06**

**Arapahoe County**

**My name is Christian Marine LaHsberg, and I am currently employed as a Staff Geologist for ConocoPhillips Company. I received a Bachelor's degree in Geophysics from The Universidad Simon Bolivar (2000) and a Master's Degree in Geology from The University of Oklahoma (2006). I have 11 years of experience in the oil and gas industry.**

**I have worked directly with the properties and lands that are subject of this matter.**

**In support of Applicant's application and my sworn testimony herein, I am submitting six (6) exhibits. The exhibits are attached to my sworn testimony and form the basis for the Applicant's request to gain approval for establishing an approximate 1280 acre drilling and spacing unit for the production of oil, gas and associated hydrocarbons from the Niobrara formation underlying the following lands ("Application Lands")**

**Township 4 South, Range 65 West, 6<sup>th</sup> P.M.**

**Section 05: All**

**Section 06: All**

**Arapahoe County, Colorado**

**The Niobrara Formation is a Cretaceous sequence of chinks, marls, limestones, and shales that were deposited in the Western Interior Seaway. This formation is regionally extensive and found throughout most of the Rocky Mountain Region and is in the subsurface throughout the Denver-Julesburg Basin. It is my conclusion that the Niobrara Formation underlies the Application Lands to be spaced.**

**The six geologic exhibits herein were prepared and presented as follows:**

**Exhibit No. G-1**

**Niobrara Type Log**

**Exhibit No. G-1 is the Type Log used for this area. The log is from Andrau Enterprises' #13 Owl Creek, located in Section 29, Township 29 North, Range 64 West. This log was originally published by Longman et al. (1998) and is widely used throughout literature and industry as an established type log for this part of the Denver-Julesburg Basin. Displayed on this log are typical Gamma Ray and Resistivity curves**

associated with modern open-hole logging of the Niobrara in this area. Scales of each are posted at the bottom of the log. The targeted interval is the Smoky Hill Shale Member of the Niobrara formation, which is regionally defined as the upper member of the Niobrara formation, above the Ft Hayes Limestone. The Niobrara top is identified as the upper red line on the log. The base of the Niobrara is defined as the top of the Ft Hayes Limestone Sandstone (green line). The log exhibits a gamma ray and resistivity signature similar to logs derived from the Niobrara producers in nearby Arapahoe County. An increased resistivity measurement is commonly used as a proxy for hydrocarbon presence in the reservoir.

**Exhibit No. G-2**                      **Spacing Locator and Cross Section Line Indicator Map**

Exhibit No. G-2 displays the drilling and spacing units ConocoPhillips is requesting consideration for approval from the Oil and Gas Conservation Commission to establish a 1280 acre drilling and spacing unit for the Niobrara formation in order to drill horizontal wells in this section. The area is sections 05 and 06, township 4 south, range 65 west, in Arapahoe County, Colorado. This area is represented on the map as a red filled rectangle. The location of the cross sections displayed in Exhibits G-3 and G-4 are identified as blue and green lines, respectively, on the map.

**Exhibit No. G-3**                      **Cross Section A-A'**

Exhibit No. G-3 is a cross section of wells in the area which comprises the drilling and spacing unit, showing the Niobrara section. The cross section extends generally from west (A) to east (A') and is hung on the top of the Niobrara. The formation annotation on this cross section is consistent with that of the type log shown in Exhibit No. G-1. All the logs display gamma ray and resistivity curves. Resistivity measurements above 25 ohms are shaded red and are shown as an indication for the likely presence of hydrocarbons in the reservoir. Logs on the cross section exhibit resistivity measurements comparable to productive Niobrara wells located in Arapahoe County.

**Exhibit No. G-4**                      **Cross Section B-B'**

Exhibit No. G-4 is a cross section of wells in the area which comprises the drilling and spacing unit, showing the Niobrara section. The cross section extends generally from north (B) to south (B') and is hung on the top of the Niobrara. The formation annotation on this cross section is consistent with that of the type log shown in Exhibit No. G-1. All the logs display gamma ray and resistivity curves. Resistivity measurements above 25 ohms are shaded red and are shown as an indication for the likely presence of hydrocarbons in the reservoir. Logs on the cross section exhibit resistivity measurements comparable to productive Niobrara wells located in Arapahoe County.

**Exhibit No. G-5**                      **Niobrara Top SubSea Structure**

Exhibit No. G-5 shows the top subsea structure of the top Niobrara contoured in 50' intervals. This map reflects the regional monoclonal dip to the west existing in this area.

**Exhibit No. G-6**

**Niobrara Gross Thickness Isopach**

Exhibit No. G-6 shows the gross thickness from the top of the Niobrara to the top of the Ft Hayes Limestone, contoured in 10' increments. Thickness values are posted on each contour line. In the spacing area, total Niobrara thickness averages around 307'. Local depositional variations in thickness are minimal and rarely exceed 10' to 15'. The Niobrara Formation is shown to thicken gradually to the north in this area.

All six (6) Exhibits are intended to help illustrate:

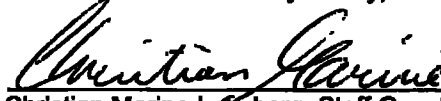
- The Niobrara is productive in the area
- The Niobrara is fairly uniform in thickness and is continuous throughout the area.

The geologic attributes described above, in conjunction with the engineering testimony submitted for this hearing, demonstrate the viability of establishing a 1280 acre drilling and spacing program for sections 05 and 06 in this area.

**Affirmation**

The matters described herein were conducted under my direction and control. To the best of my knowledge and belief, all of the matters set forth herein and in the exhibits are true, correct and accurate.

Dated this 07th day of July, 2014

  
Christian Marine Laubsberg, Staff Geophysicist  
ConocoPhillips Company

STATE OF TEXAS

)  
)ss.  
)

COUNTY OF HARRIS

The foregoing instrument was subscribed and sworn to before me this 7<sup>th</sup> day of July, 2014, by Christian Marine Laubsberg, a geophysicist for ConocoPhillips Company.

Witness my hand and official seal.



My commission expires: March 28, 2017

Sharon K Horton

Notary Public



# MARINE LAHSBERG, CHRISTIAN A.

CHRISTIAN.A.MARINE@CONOCOPHILLIPS.COM

## EXPERIENCE

2007 TO PRESENT  
GEOPHYSICIST

ConocoPhillips Company

*Houston, TX*

**2014-Present: Staff Geophysicist, Niobrara Implementation Team, Rockies Business Unit**

**2012-2013: Staff Geophysicist, Deep Water Gulf of Mexico Exploration, Exploration & Production Unit**

**2009-2012: Senior Geophysicist, Deep Water Gulf of Mexico Exploration, Exploration & Production Unit**

**2007-2009: Senior Geophysicist, Lower 48 Panhandle Development, Onshore Exploration and Production**

## EDUCATION

2004-2006  
M. S. GEOLOGY

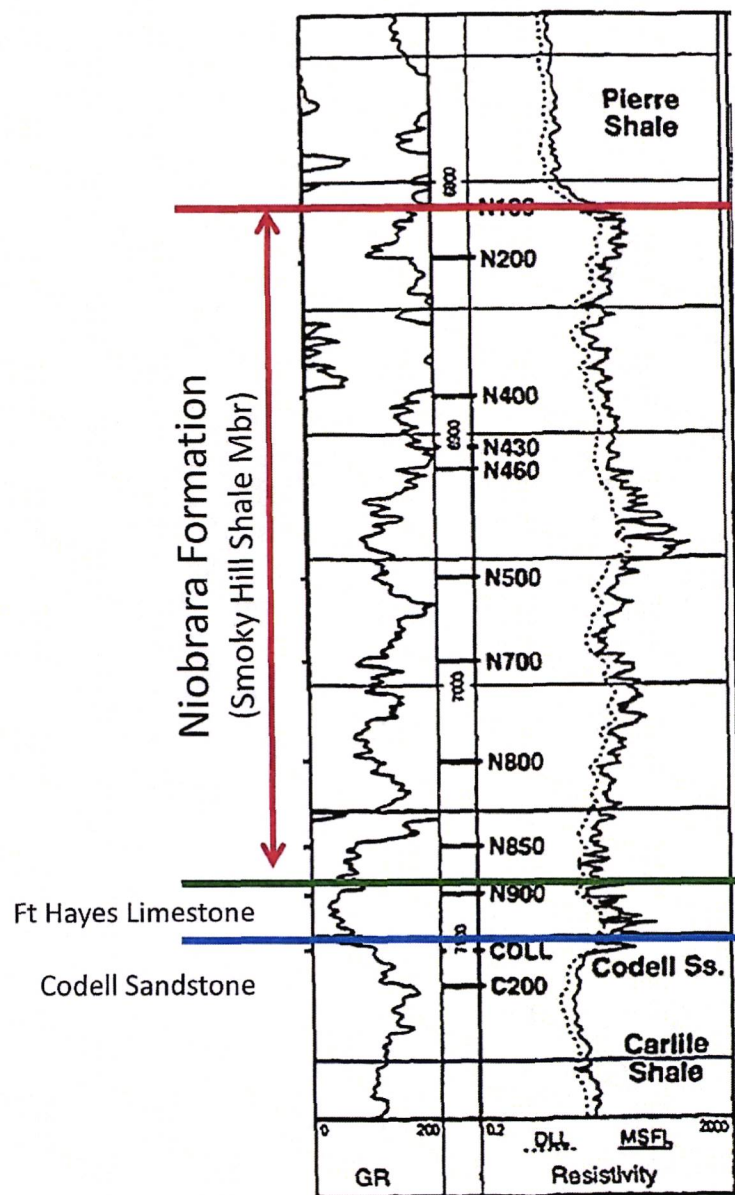
University of Oklahoma

*Norman, OK*

1993-2000  
B. S. GEOPHYSICS

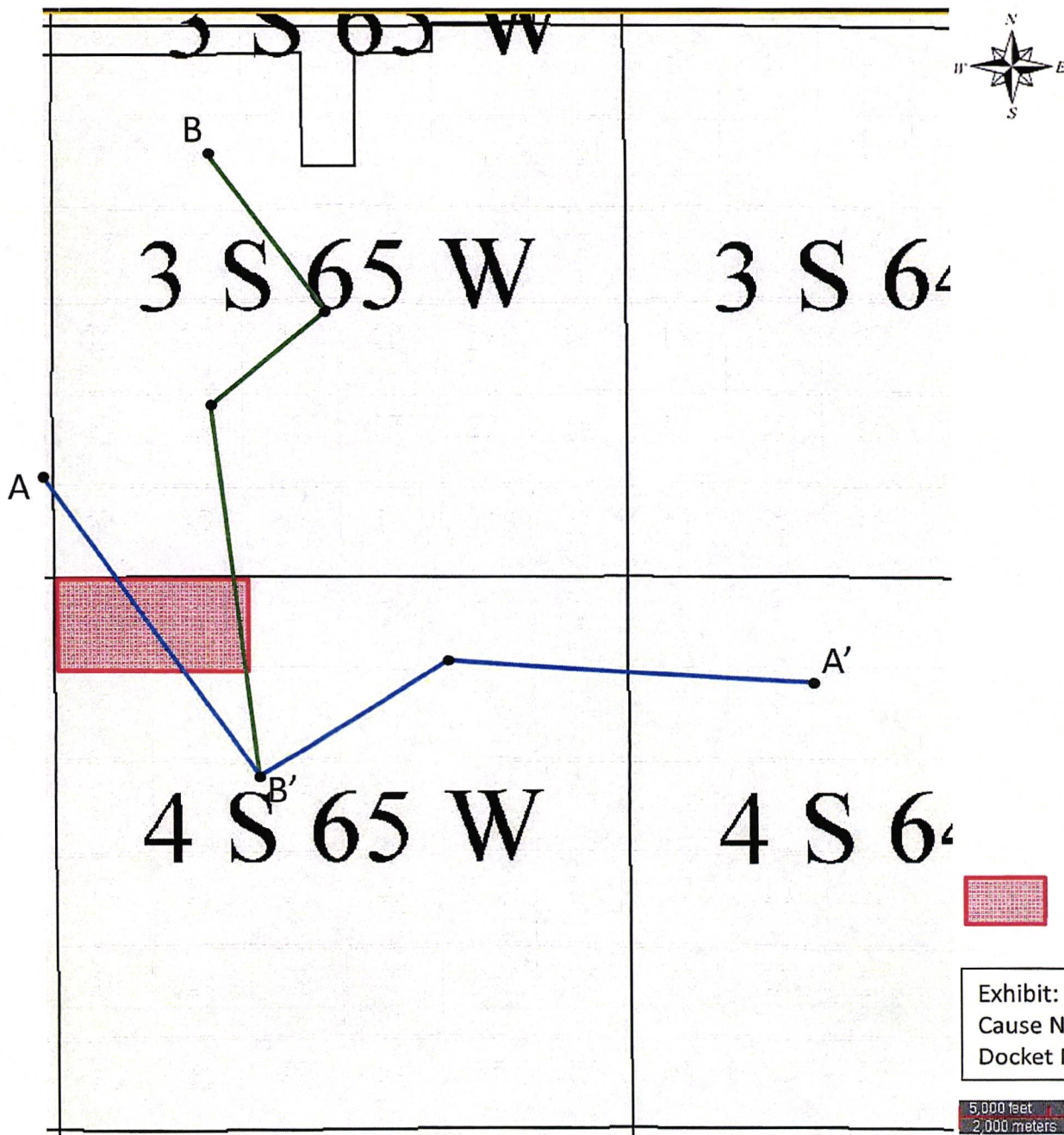
Universidad Simon Bolivar

*Caracas, VZLA.*



**Type Log**  
**Andrau Enterprises**  
**#13 Owl Creek**  
**NW NW Sec. 29 T7N R64W**  
**Weld County, CO**  
 (Modified from Longman et al., 1998)

Exhibit: G-1  
 Cause No. 535  
 Docket No. 1407-SP-2091

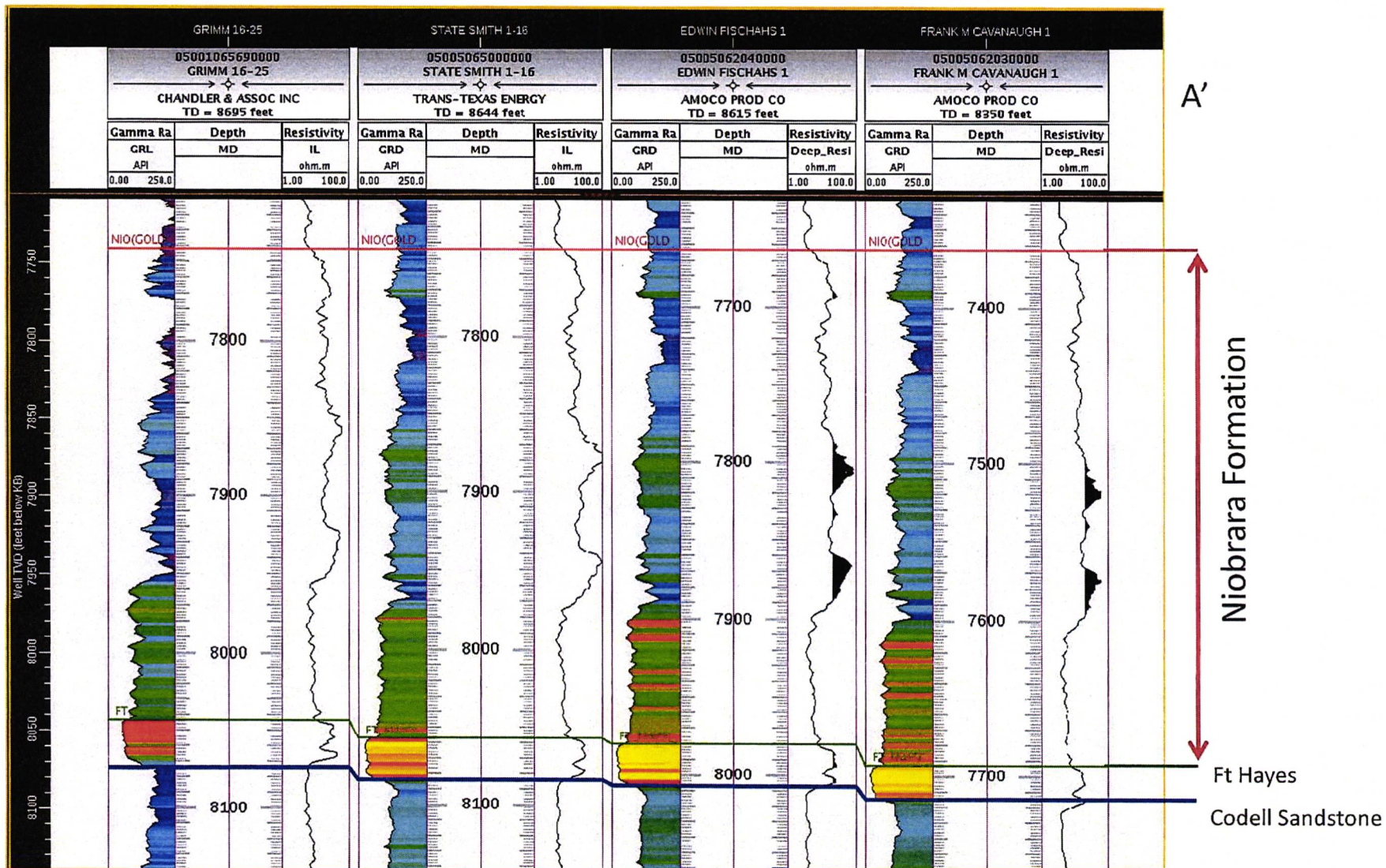


1280 Application  
Lands

Exhibit: G-2  
Cause No. 535  
Docket No. 1407-SP-2091



A



A'

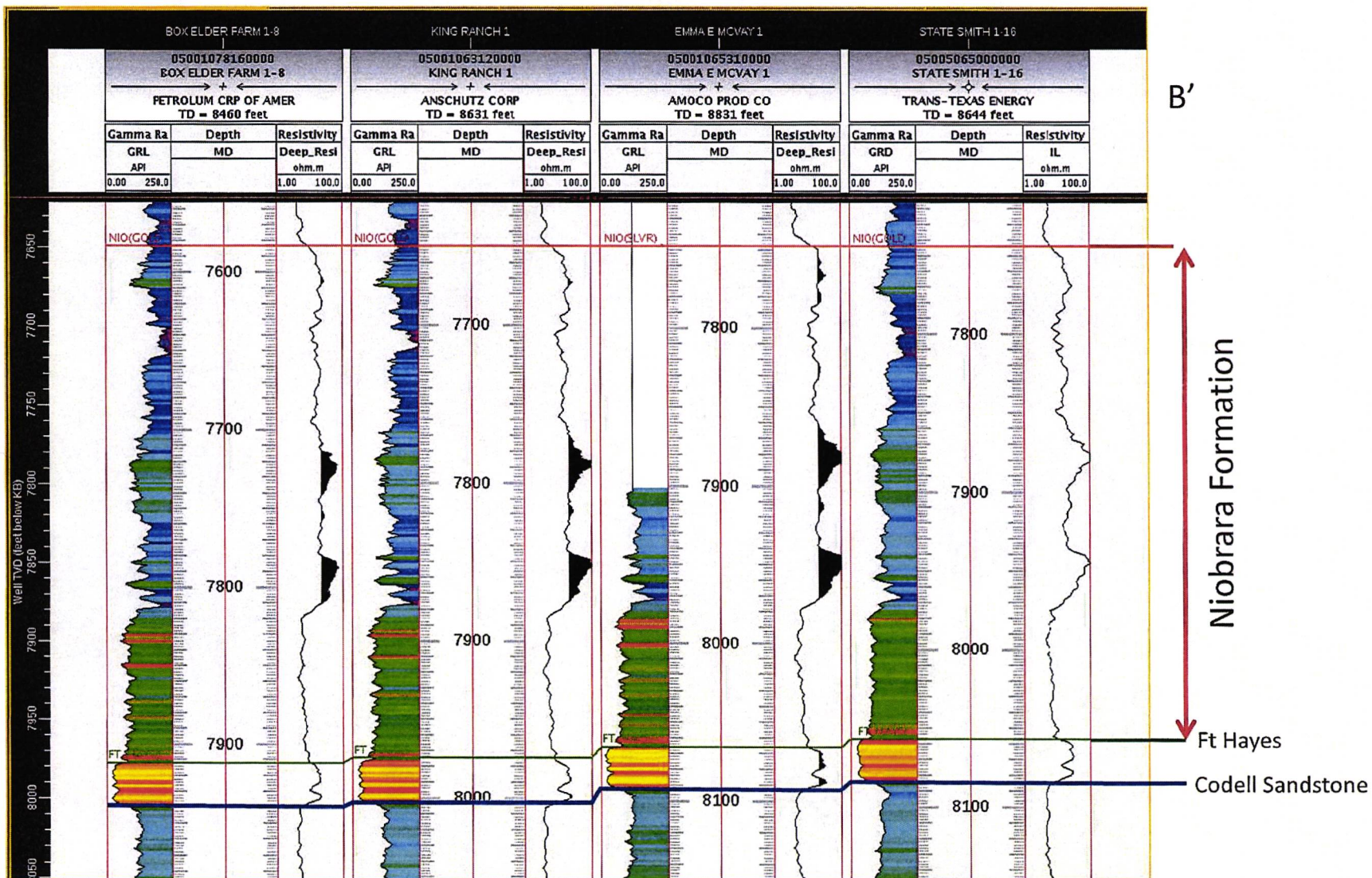
Exhibit: G-3  
Cause No. 535  
Docket No. 1407-SP-2091

ConocoPhillips Company

West-East Cross Section  
Parachute 4-65 5-6 3H



B

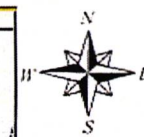
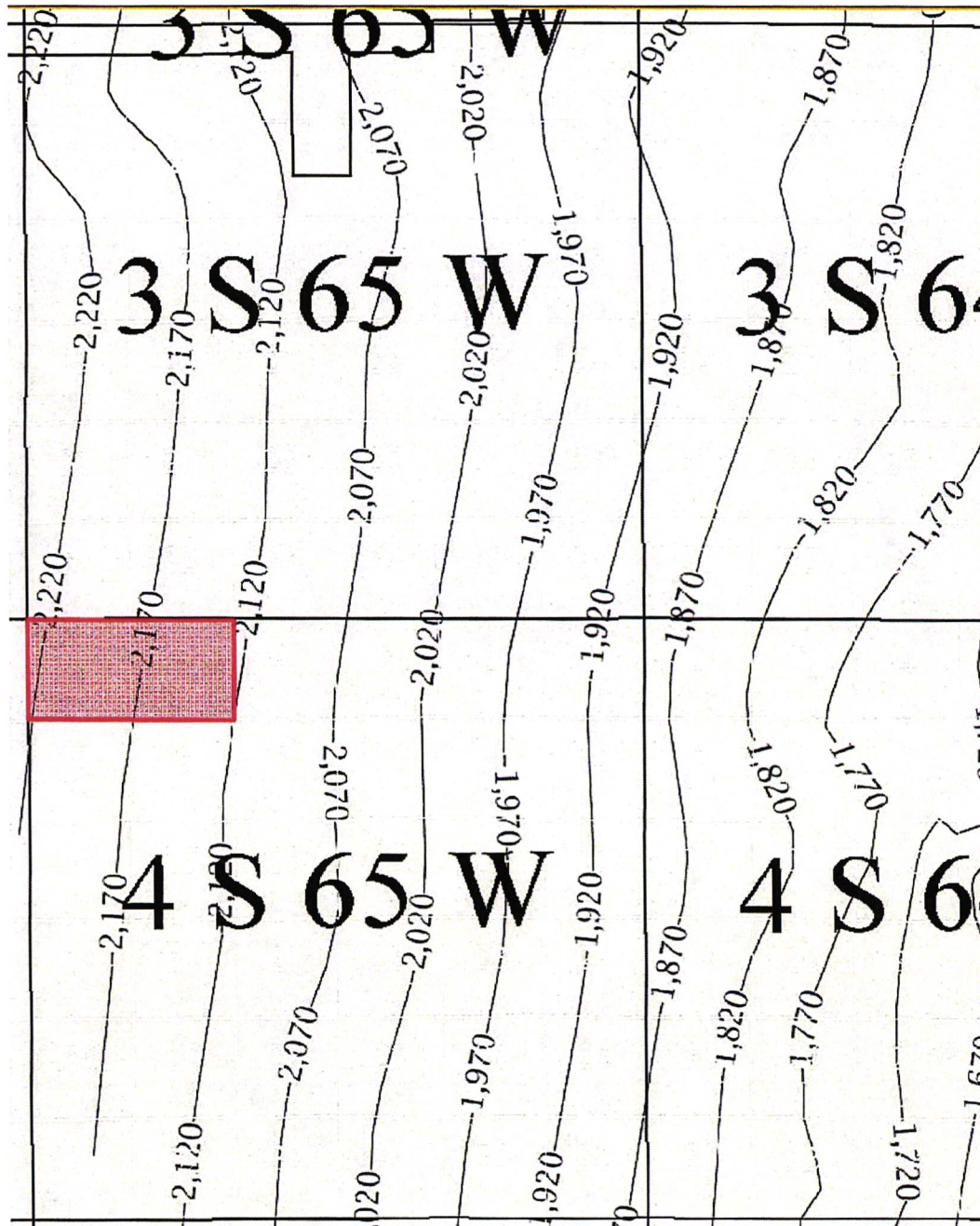


B'

Exhibit: G-4  
Cause No. 535  
Docket No. 1407-SP-2091

ConocoPhillips Company

North-South Cross Section  
Parachute 4-65 5-6 3H



ConocoPhillips Company

Top Niobrara Structure Map

SubSea TVD (Feet)

C.I.: 50'



1280 Application Lands

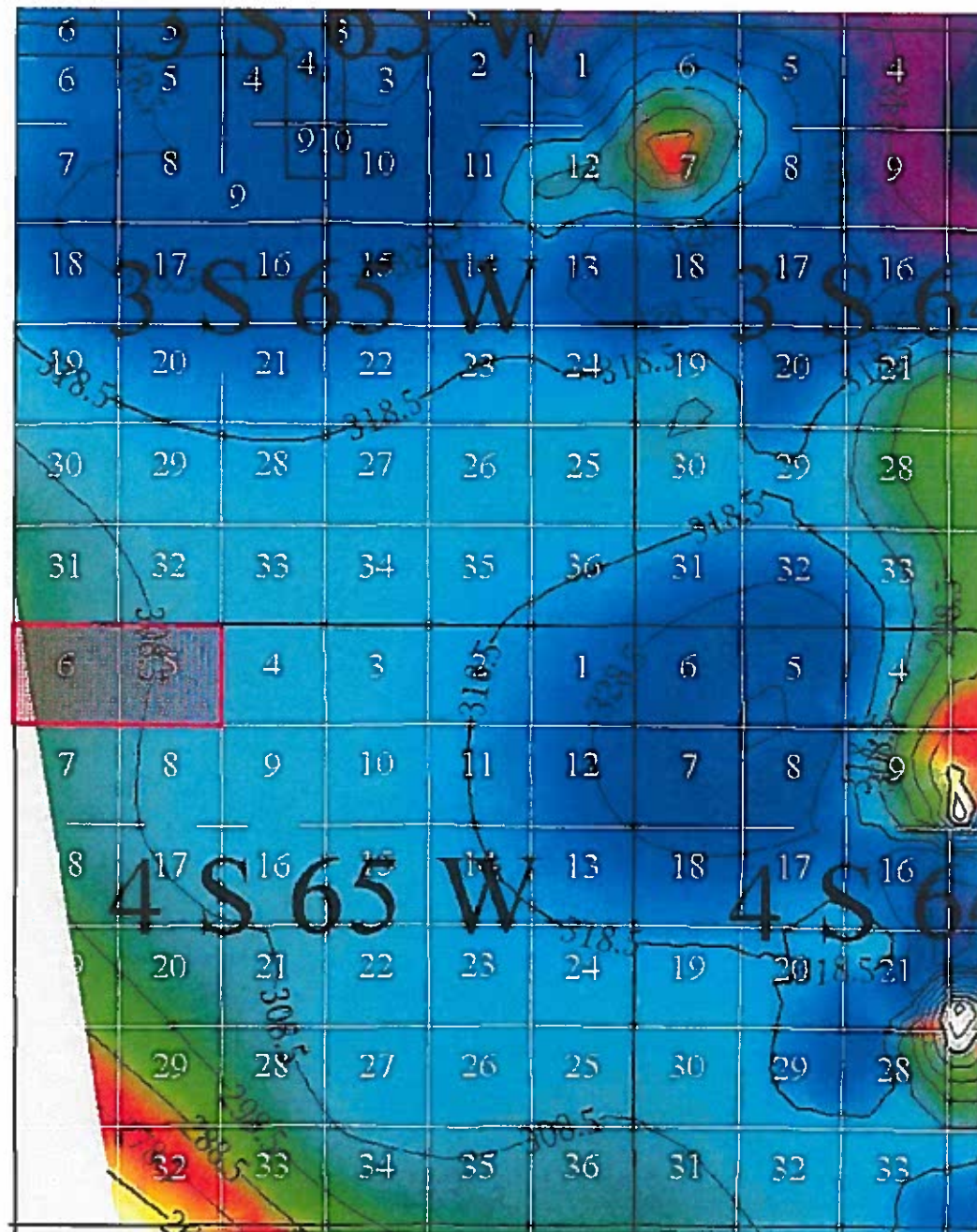
5,000 feet  
2,000 meters

Exhibit: G-5

Cause No. 535

Docket No. 1407-SP-2091





**ConocoPhillips Company**

Niobrara Isopach Map

Thickness (Feet)

C.I.: 10'



1280 Application Lands



Exhibit: G-6

Cause No. 535

Docket No. 1407-SP-2091



**Engineering Testimony – Clint Hutchinson**  
**Cause No. 535; Docket No. 1407-SP-2091**  
**1280 Acres Spacing Application – Niobrara Formation**  
**Arapahoe County**  
**July 2014 Colorado Oil and Gas Conservation Commission Hearing**

In support of the Verified Application of ConocoPhillips in Cause No. 535, Docket 1407-SP-2091 (the Application), Clint Hutchinson, Lead Reservoir Engineer, upon oath, disposes and states as follows:

- a. I am currently employed as a Reservoir Engineer at ConocoPhillips. I have knowledge of the Reservoir Engineering characteristics of the Niobrara formation underlying the Application Lands. I have over 15 years of experience in the oil and gas industry. A true and correct copy of my resume is included as Exhibit E-1. To the best of my knowledge and belief, each of these Exhibits is correct and accurate as of the date of this Verified Statement.
- b. Exhibit E-2 is a base map of the application lands.
- c. Exhibit E-3 demonstrates the additional drainage area available with a long lateral. Allowing for setbacks, the total length of two short laterals is 8,720 feet as compared to the long lateral length of 9,640 feet. The long lateral exposes an additional 920 feet of reservoir. The drilling of a long lateral would permit the recovery with horizontal wells of the resource within the 920-foot area between the two sections which would otherwise not be recovered with 640-acre spacing and 460-foot setbacks on each side of the section line. Drilling a long lateral prevents waste by recovering additional oil and gas resources.
- d. Exhibit E-4 is the type curve developed from my study of offset wells in the Wattenberg Field. This type curve represents the oil profile developed from 27 horizontal wells completed in the Niobrara formation with laterals greater than 6,000 feet in length. Estimated Ultimate Recovery (EUR) for the oil type curve is 208,163 barrels of oil.
- e. Exhibit E-5 shows the estimated drainage area for a horizontal Niobrara well on the Application Lands assuming my estimated Wattenberg oil type curve EUR of 208,163 barrels. ConocoPhillips rock and fluid parameters used in this estimate include a net pay of 40 feet, a porosity of 7.0%, a water saturation of 20%, a formation volume factor of 1.7 reservoir barrels per stock tank barrel, and a recovery factor of 5%.

The effective porosity was derived from a combination of conventional core analysis and interpretation of the bulk density from wireline logging. Bulk density was utilized as an input to a regression tied to the conventional core porosity analysis. The statistical average porosity across our targeted zone in the Niobrara is approximately 7%. The net thickness was derived by utilizing porosity and water saturation cut-offs. The porosity was derived as stated above and the water saturation was an interpretation of our target formation in the Niobrara based on Archie's equation. The statistical average water saturation and net thickness across our targeted zone is approximately 20% and 40 feet, respectively. The petrophysical parameters were statistical averages derived from our type log, the Tebo 29 1H. However, these values are somewhat consistent across acreage we have assessed. The formation volume factor was calculated from company PVT analysis.

The estimated drainage area is not greater than 407.3 acres per individual well. If a second optional well is drilled, total drainage area from both wells is estimated to be not greater than 814.5 acres. Thus, the proposed 1280 acre drilling and spacing units are not smaller than the maximum area that can be economically and efficiently drained by a horizontal well in the Niobrara formation within each such unit, and a second optional horizontal well in each such unit would promote efficient drainage and not result in waste.

- f. Economics were run using completed well costs of \$15,220,881 for the Parachute 4-65 5-6 3H, the type curve presented in this exhibit, and ConocoPhillips operating cost assumptions. The single well economics meet the Company's requirements for exploration wells.
- g. Exhibit E-6 is a summary of my conclusions relevant to this Application.
  - 1. The drainage area of a horizontal well in the Niobrara formation of the Application Lands having a wellbore lateral of greater than 6,000 feet in length is estimated to be no greater than 407.3 acres.
  - 2. A horizontal well with a greater than 6,000 foot lateral producing from the Niobrara formation meets ConocoPhillips' economic requirements for explorations wells.
  - 3. The proposed 1280 acre drilling and spacing unit, with the requested setbacks, for a horizontal well in the Niobrara formation in the Application Lands, and authorization for an optional second such well in each unit, will promote efficient drainage, protect correlative rights, and prevent waste. The drilling of a long lateral will recover resource within the 920 foot area between the two sections which would otherwise not be recovered with 640-acre spacing and 460-foot setbacks.

I reserve the right to modify or supplement this testimony and the attached exhibits prior to the July 2014 COGCC hearing.

Clint Hutchinson  
Clint Hutchinson

Subscribed to and sworn to before me this 2nd day of July, 2014, by Clint Hutchinson, Lead Reservoir Engineer.

Notary Public Sharon K Horton

My Commission Expires: March 28, 2017

Address: 600 N Dairy Ashford, Houston, TX 77079



\*\*\*\*\*Exhibits E-1 through E-6 Follow on the Next Pages\*\*\*\*\*

# Resume

CLINT HUTCHINSON  
ConocoPhillips Company  
P.O. Box 2197 Houston, TX 77252  
Clint.L.Hutchinson@ConocoPhillips.com  
281-647-1813

**2013: Lead Reservoir Engineer – Niobrara Implementation - ConocoPhillips** Houston, TX

Responsible for providing guidance and mentorship to reservoir engineering staff. Coordinate production performance analysis and reservoir studies.

**2009-2013: Staff Reservoir Engineer – Eagle Ford Development - ConocoPhillips** Houston, TX

Responsible for ensuring the implementation of a multi-rig drilling program. Identified and prepared prospects for drilling. Prepared field development plans. Developed type curves. Performed production performance analysis. Coordinated completion studies. Performed reservoir studies. Evaluated acreage for acquisition.

**2003-2009: Staff Reservoir Engineer – South Texas Development- ConocoPhillips** Houston, TX

Responsible for ensuring the implementation of a multi-rig drilling program. Identified and prepared prospects for drilling. Performed production performance analysis. Evaluated acreage for acquisition.

**2001-2003: Reservoir Engineer – Gulf Coast Development - ConocoPhillips** Houston, TX

Evaluated drilling prospects. Prepared acreage for disposition.

**1999-1997: Reservoir Engineer – San Juan Development – Phillips Petroleum** Farmington, NM

Identified and prepared prospects for drilling. Performed performance analysis. Maintained reserve forecasts.

**1996-1999: Reservoir Engineer – Gulf Coast Development – Phillips Petroleum** Houston, TX

Evaluated drilling and recompletion prospects. Maintained reserve forecasts. Prepared acreage for disposition.

## Education

1992-1996: Colorado School of Mines  
B.S. Petroleum Engineering

Golden, CO

**Exhibit E – 1  
Cause #535  
Docket #1407-SP-2091**

# Application Lands – Base Map

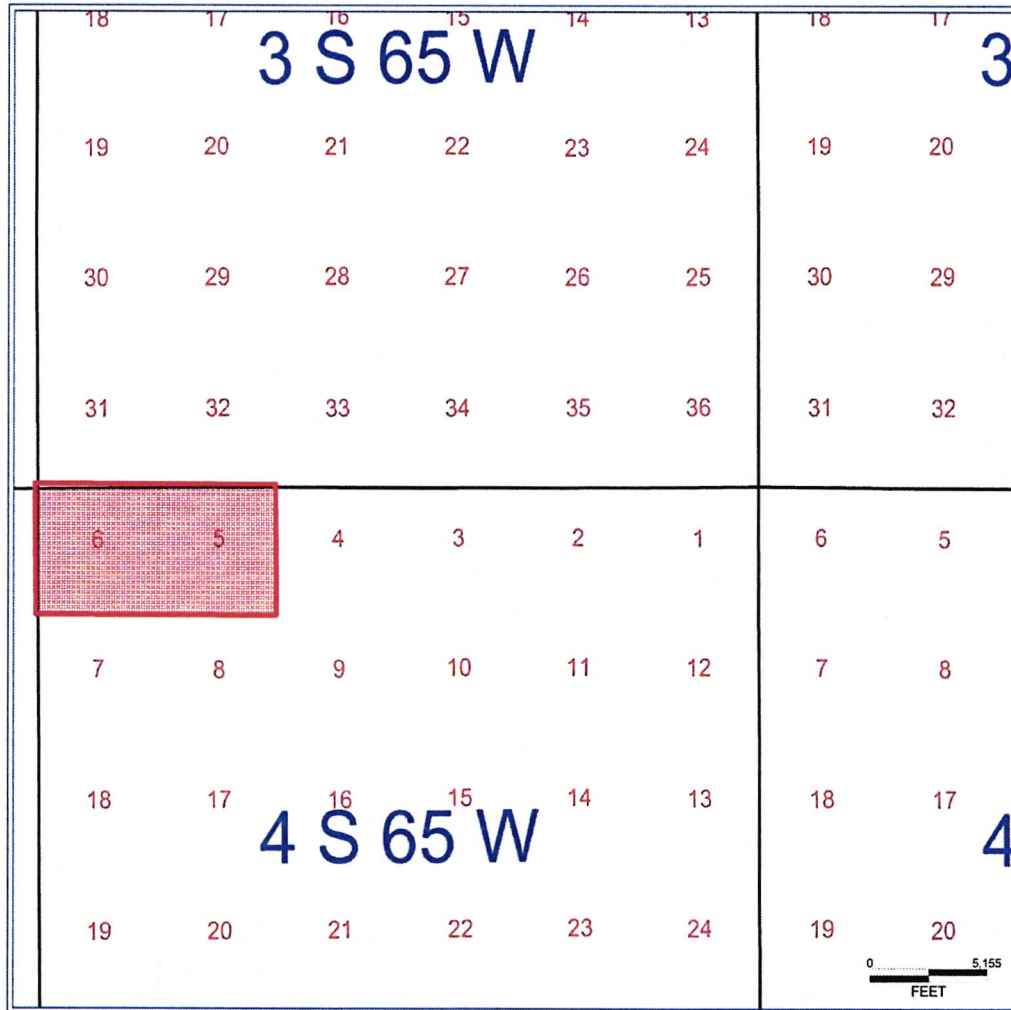
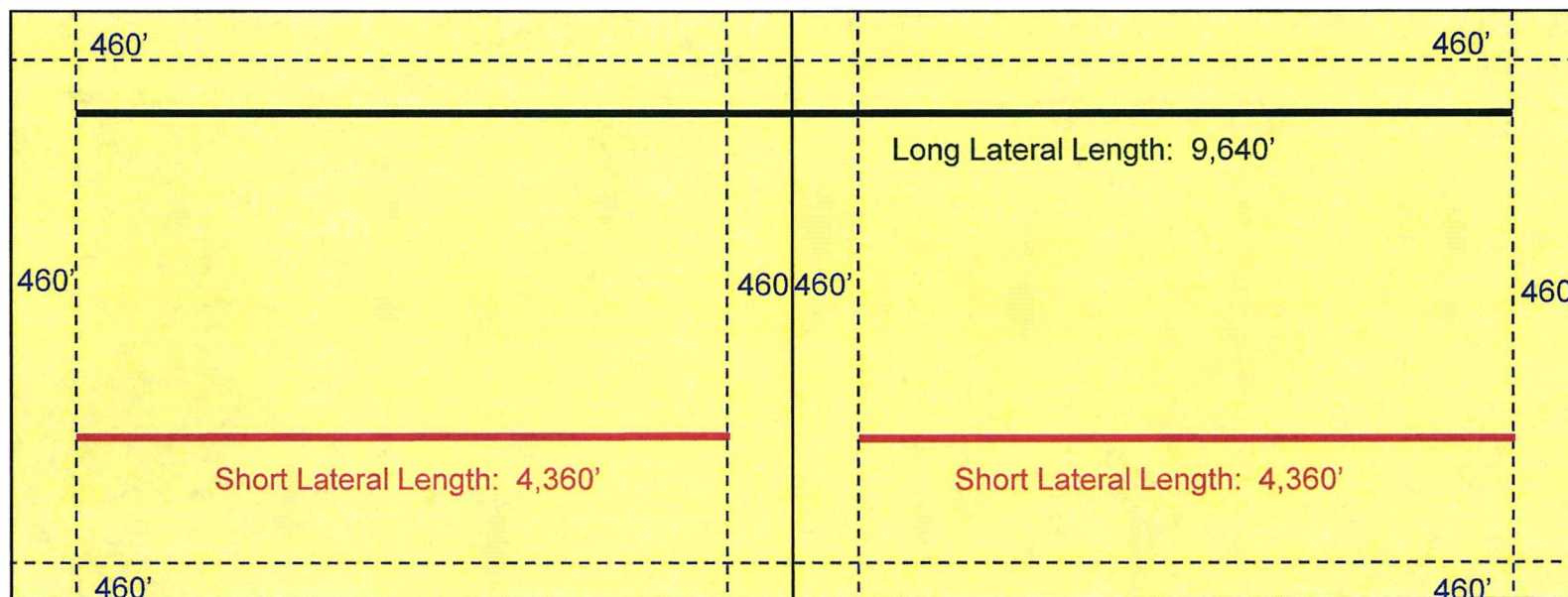


Exhibit E – 2  
Cause #535  
Docket #1407-SP-2091

 1280 Acre Application Lands

# Long Laterals Contact More Reservoir Than Short Laterals



Ref: Wickstrom 18-2H Hearing  
Cause # 535  
Docket # 1305-SP-62 & 1305-UP-75

Lateral Type	Two-Section Lateral Length, ft
1 Long	9,640
2 Short	8,720
Additional length	920

Exhibit E – 3  
Cause #535  
Docket #1407-SP-2091



# Niobrara Long Lateral Type Curve

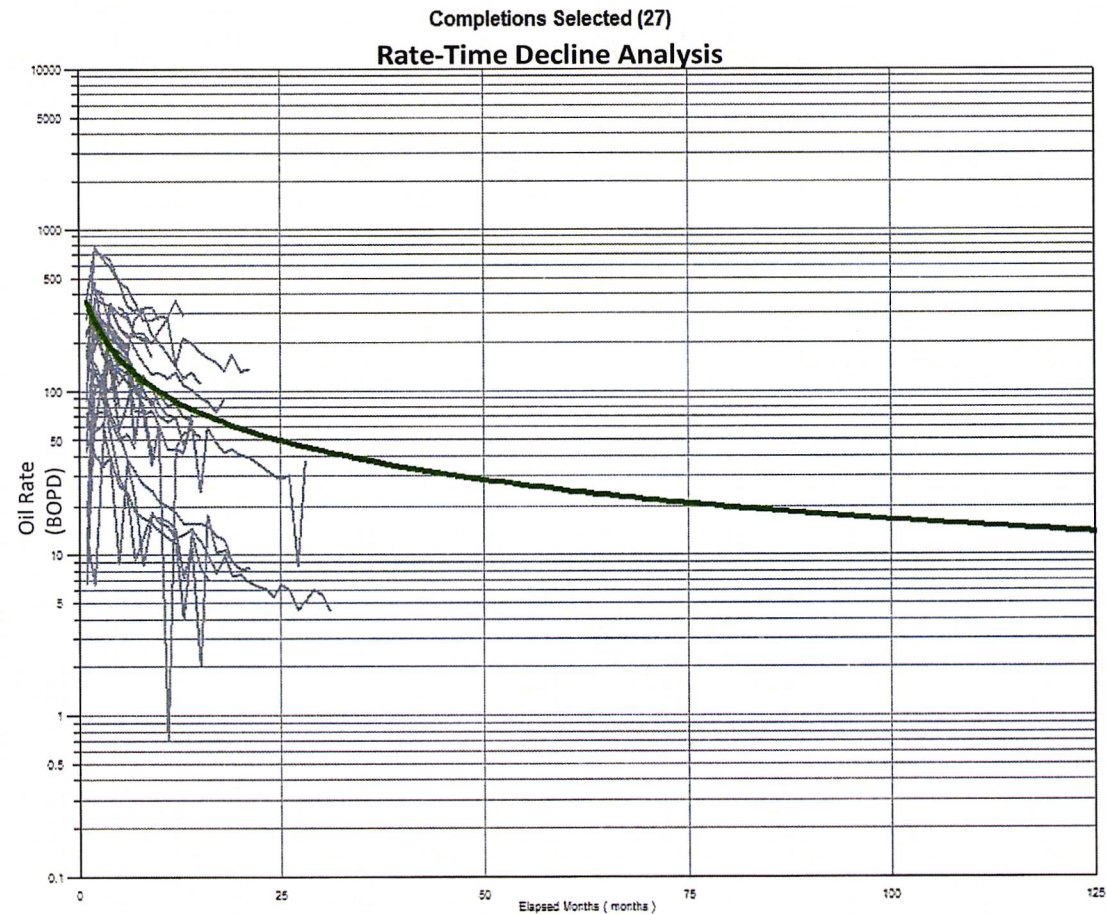


Exhibit E – 4  
Cause #535  
Docket #1407-SP-2091



# Niobrara Long Lateral Drainage Area Calculation

## COP PARAMETERS - LONG LATERAL

EUR Oil, bbls	208,163.00	estimated ultimate oil recovery
h, ft	40	net thickness
Por, fraction	0.07	porosity
Sw, fraction	0.2	water saturation
Boi, rb/stb	1.7	formation volume factor
RF, fraction	0.05	recovery factor
OOIP, stb	4,163,260	EUR/RF

$$\text{Drainage area, acres} = \text{OOIP} * \text{Boi} / [7758 * h * \text{Por} * (1 - \text{Sw})]$$

Drainage area	407.3	acres per well
	814.5	acres per two wells

Exhibit E – 5  
Cause #535  
Docket #1407-SP-2091

# Engineering Summary

- The drainage area of a horizontal well in the Niobrara formation of the Application Lands having a wellbore lateral of greater than 6,000 feet in length is estimated to be no greater than 407.3 acres.
- A horizontal well with a greater than 6,000 foot lateral producing from the Niobrara formation meets ConocoPhillips' economic requirements for exploration wells.
- The proposed 1280 acre drilling and spacing unit, with the requested setbacks, for a horizontal well in the Niobrara formation in the Application Lands, and authorization for an optional second such well in each unit, will promote efficient drainage, protect correlative rights, and prevent waste. The drilling of a long lateral will recover resource within the 920 foot area between the two sections which would otherwise not be recovered with 640-acre spacing and 460-foot setbacks.

**Exhibit E – 6**  
**Cause #535**  
**Docket #1407-SP-2091**