



DEPARTMENT OF NATURAL RESOURCES

John W. Hickenlooper, Governor
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MEMORANDUM

To: Thom Kerr, Karen Spray, Margret Ash, Steve Lindblom

From: Bob Chesson, EPS II NE Colorado

Date: April 25, 2012

Subject: March 5, 2012 Letter to Governor Hickenlooper from Sierra Club regarding “illegal dumping” of drilling and fracking fluids, Weld County.

I have reviewed the photo documentation provided in the March 5, 2012 letter to the governor and have prepared a review document which is attached.

- The review document provides the actual locations and identifies adjacent oil & gas wells by name and API number to aid in location of the sites in comparison to the vague description provided in the SC letter.
- Primarily the areas identified appear to be on lands on the Guttarsen Ranch in Weld County and focused on Township 3 North, Range 64 West.
- One location is in Township 5 North, Range 64 West, which may be on the Welds Ranch (?).
- All of the SC photos provided were images collected in 1999. For comparison I have used imaging from 2011. The contrasts between the two images collected approximately 13 years apart are striking; most of the “features” from the SC review no longer exist.

If you have comments and or questions, please contact me.



Poudre Canyon Group
Rocky Mountain Chapter



March 5, 2012

Governor John Hickenlooper
136 State Capitol
Denver, CO 80203-1792

Dear Governor Hickenlooper,

Over the past year, we have heard many rumors about alleged illegal dumping of drilling and fracking fluids and wastes in Weld County. Using free, publicly available satellite imagery, we investigated some of these possible allegations and have recovered the images below. These images appear to support the rumored allegations and may suggest that drillers and frackers may have been driving tanker trucks offroad, opening the valve on the tanks while driving, and spraying drilling and fracking fluids and wastes across the landscape.

The images suggest that the chemicals sprayed out may have killed the vegetation on the landscape – green areas are turned orange/brown or completely white. Two-track wheel tracks can be seen trailing some of the alleged possible dumping sites.

Here's a detailed inset view of one of these images: <http://water.clean.home.comcast.net/~water.clean/Weld-County-collage-12345.jpg>

Here's a time-sequence of the possible alleged dumping site detailed above showing that the scar remains on the landscape over a year later: <http://water.clean.home.comcast.net/~water.clean/Weld-time-sequence2-2006-2011.jpg>

Given the possibility that these allegations may be true, we suggest that the prudent course of action would be to direct the Colorado Oil and Gas Conservation Commission, the Colorado Department of Public Health and Environment, or another appropriate State agency to investigate the alleged possible illegal dumping of drilling and fracking fluids and wastes in Weld County suggested in the images below. There are many more similar images – feel free to contact us for additional information and details.

We look forward to a response about our request.

Respectfully,

Shane Davis, Chair, Poudre Canyon Group of the Sierra Club, shane.davis@rmc.sierraclub.org, 509-570-4422

Gary Wockner, PhD, Colorado Program Director, Clean Water Action, gwockner@cleanwater.org, 970-218-8310

SPIKE ST
GWS D 16-03
(15906)

SPIKE ST
GWS D 16-02
(15905)

3N-64W -16

GUTTERSEN STATE
D 16-01
(15904)

D 16-27
(31043)

GUTTERSEN
STATE D 16-18
(07581)

SPIKE
ST GWS D
D 16-08
(15910)

N

3N-64W-16

Shane Davis
Weld County
North of Keenesburg, CO
~5 miles

Image © 2012 DigitalGlobe
Imagery © 2012 Google

GUTTERSEN STATE
D 16-22D
(121687)

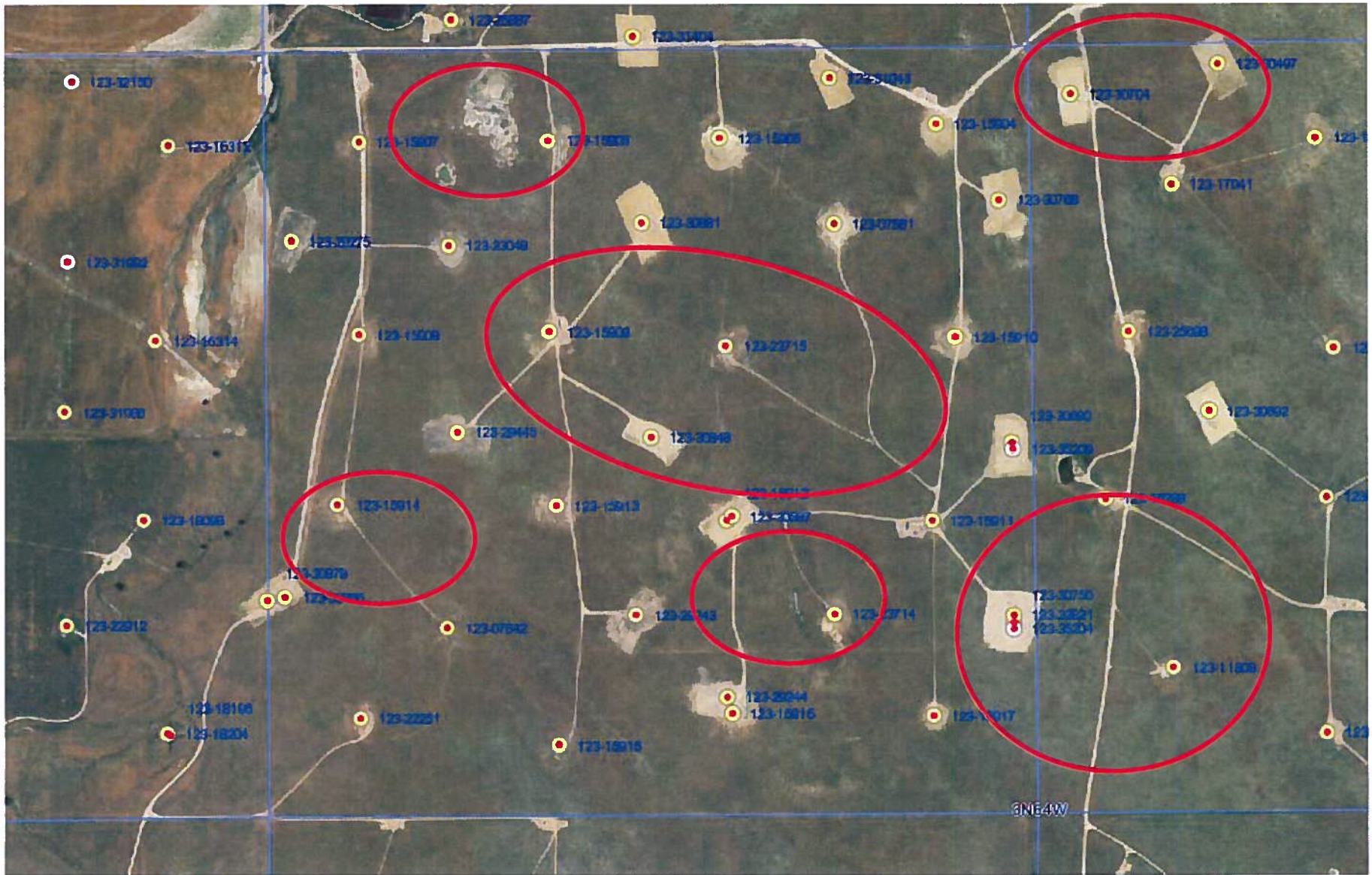
~~GUTTERSEN~~
D 16-23
(122214)

SPIKE ST
GWS D 16-16
(15912)

TWO E RANCHES
1-15B
(11808)

Imagery Date: 4/25/2012 1959

60° 00' 00" N 104° 30' 00" W elev 4746 ft



2011 16-3N-64W

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Surface Location Data for API # 05-123-15906

Status: PR

[Well Name/No:](#) [SPIKE ST GWS #D 16-03](#) (click well name for production)[Operator:](#) NOBLE ENERGY INC - 100322[Status Date:](#) 12/7/2005[Federal or State Lease #:](#)[County:](#) WELD #123[Location:](#)

NENW 16 3N 64W 6 PM

[Field:](#) WATTENBERG - #90750[Elevation:](#)

4,746 ft.

[Planned Location](#) 663 FNL 1977 FWL[Lat/Long:](#) 40.230837/-104.558524[Lat/Long Calculated From Footages](#)[As Drilled Location](#) Footages Not Available[Lat/Long:](#) 40.23093/-104.55852[Lat/Long Source:](#) Field Measured

Wellbore Data for Sidetrack #00

Status: PR 12/7/2005

[Spud Date:](#) 7/6/1992[Spud Date is:](#)

ACTUAL

Wellbore Permit

[Permit #:](#) 19920734[Expiration Date:](#)

6/30/1993

[Prop Depth/Form:](#) 7137[Surface Mineral Owner Same:](#)

N

[Mineral Owner:](#) STATE[Surface Owner:](#)[Unit:](#)[Unit Number:](#)[Formation and Spacing:](#) Code: CODL , Formation: CODELL , Order: 407 , Unit Acreage: 80, Drill Unit: N2NW[Formation and Spacing:](#) Code: SX-CD , Formation: SUSSEX-CODELL , Order: 493 , Unit Acreage: 80, Drill Unit: N2NW

Wellbore Completed

[Completion Date:](#) N/A[Measured TD:](#) 7137[Measured PB depth:](#)

0

[True Vertical TD:](#) 0[True Vertical PB depth:](#)[Log Types:](#) CD, DIL, CBL-CCL-GR[Casing:](#) String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 351, Weight: 24[Cement:](#) Sacks: 280, Top: 0, Bottom: , Method Grade:[Casing:](#) String Type: 1ST , Hole Size: 7.875, Size: 3.5, Top: 0, Depth: 7103, Weight: 9.3[Cement:](#) Sacks: 500, Top: 0, Bottom: , Method Grade: CBL**Formation****Log Top****Log Bottom****Cored****DSTs**

SUSSEX

4208

NIOBRARA

6686

CODELL

6959

Completed information for formation CODL

[1st Production Date:](#) 10/8/1992[Choke Size:](#)

0.250

[Status Date:](#) 12/7/2005[Open Hole Completion:](#)

N

[Commingled:](#) N[Production Method:](#)

FLOWING

[Formation Name:](#) CODELL[Status:](#)

PR

[Formation Treatment:](#)[Treatment Date:](#) 10/8/1992

RE-PERF CODELL: 6960' - 6971', 44 HOLES, 0.27" HOLE SIZE RE-FRAC

CODELL: 133,434 GALS VISTAR W/24/25/26# GEL, 245,880 LBS. 20/40

OTTAWA SAND, ATP: 6479 PSI, ATR: 13.0 BPM

[Tubing Size:](#) 2.0625[Tubing Setting Depth:](#)

6932

[Tubing Packer Depth:](#)[Tubing Multiple Packer:](#)[Open Hole Top:](#)[Open Hole Bottom:](#)[Initial Test Data:](#)[Test Date:](#) 12/7/2005[Test Method:](#)

FLOWING

[Hours Tested:](#) 24[Gas Type:](#)

WET

[Gas Disposal:](#) SOLD**Test Type****Measure**

BBLS_H2O

5

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Surface Location Data for API # 05-123-07581

Status: PR

Well Name/No: [SPIKE STATE GWS D #16-7J](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 7/13/2010

Federal or State Lease #:

70/7884-S

County: WELD #123

Location:

NENE 16 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation:

4,771 ft.

Planned Location 1320 FNL 1320 FEL

Lat/Long: 40.229047/-104.551383 Lat/Long Calculated From Footages

As Drilled Location Footages Not Available

Lat/Long: 40.22932/-104.55147 Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR 7/13/2010

Spud Date: 11/7/1972

Spud Date is:

ACTUAL

Wellbore Permit

Permit #: 19720874

Expiration Date:

10/24/1973

Prop Depth/Form: 7564

Surface Mineral Owner Same:

Y

Mineral Owner: STATE

Surface Owner:

Unit:

Unit Number:

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407-66 , Unit Acreage: 80, Drill Unit: S2NW

Formation and Spacing: Code: JSND , Formation: J SAND , Order: 0 , Unit Acreage: 320, Drill Unit: E2

Formation and Spacing: Code: SUSX , Formation: SUSSEX , Order: 493 & 407 , Unit Acreage: 160, Drill Unit: NE/4

Wellbore Completed

Completion Date: 12/18/1972

Measured TD: 7564

Measured PB depth:

7523

True Vertical TD: 0

True Vertical PB depth:

Log Types: IES, DC

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 341, Weight: 24

Cement: Sacks: 275, Top: 0, Bottom: , Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7560, Weight: 11.6

Cement: Sacks: 150, Top: 0, Bottom: , Method Grade: CBL

Casing: String Type: S.C. 1.1 , Hole Size: , Size: , Top: , Depth: 6885, Weight:

Cement: Sacks: 100, Top: 6550, Bottom: 6885, Method Grade:

Casing: String Type: S.C. 1.2 , Hole Size: , Size: , Top: , Depth: 4630, Weight:

Cement: Sacks: 300, Top: , Bottom: 4630, Method Grade:

Formation

Log Top

Log Bottom

Cored

DSTs

CODELL

6950

J SAND

7412

Completed information for formation CODL

1st Production Date: 10/29/1993

Choke Size:

Status Date: 10/19/2010

Open Hole Completion:

N

Commingle: Y

Production Method:

Formation Name: CODELL

Status:

CM

Formation Treatment:

Treatment Date: 7/6/2010

Nothing new happened to Codell during Niobrara recompletion, but it is commingled afterwards

Treatment Date: 12/18/1972

RE-PERF'D CODELL 6953'-6961' (32 HOLES), 7/6/05. RE-FRAC'D CODELL W/127,176 GAL VISTAR; W/24/25/26# GEL; 245,660# 20/40 JORDAN SAND; 7/13/05

Tubing Size:

Tubing Setting Depth:

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

Initial Test Data:

Test Date: N/A

Test Method:

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Surface Location Data for API # 05-123-15910

Status: PR

Well Name/No: [SPIKE ST GWS #D 16-08](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 3/1/2007 **Federal or State Lease #:**

County: WELD #123 **Location:** SENE 16 3N 64W 6 PM

Field: WATTENBERG - #90750 **Elevation:** 4,788 ft.

Planned Location 2163 FNL 509 FEL **Lat/Long:** 40.226737/-104.548453 **Lat/Long Calculated From Footages**

As Drilled Location Footages Not Available **Lat/Long:** 40.227152/-104.548488 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 3/1/2007

Spud Date: 7/21/1992 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 19920738 **Expiration Date:** 6/30/1993

Prop Depth/Form: 7100 **Surface Mineral Owner Same:** N

Mineral Owner: STATE **Surface Owner:**

Unit: **Unit Number:**

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407 , Unit Acreage: 80, Drill Unit: S2NE

Formation and Spacing: Code: SX-CD , Formation: SUSSEX-CODELL , Order: 493-2 , Unit Acreage: 80, Drill Unit: S2NE

Wellbore Completed

Completion Date: 8/6/1992

Measured TD: 7142 **Measured PB depth:** 7091

True Vertical TD: 0 **True Vertical PB depth:**

Log Types: CD, DIL, CBL-CCL-GR

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 387, Weight: 24

Cement: Sacks: 200, Top: 0, Bottom: , Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 3.5, Top: 0, Depth: 7130, Weight: 9.3

Cement: Sacks: 760, Top: 0, Bottom: , Method Grade:

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4280			
NIOBRARA	6706			
CODELL	6974			

Completed information for formation CODL

1st Production Date: 10/30/2006 **Choke Size:** 0.219

Status Date: 11/14/2006 **Open Hole Completion:** N

Commingled: N **Production Method:**

Formation Name: CODELL **Status:** PR

Formation Treatment:

Treatment Date: 9/19/2006 RE-FRAC'D CODELL W/127,008 GALS OF VISTAR WITH 22/23/24# GEL LOADINGS AND 245,700#S OF 20/40 OTTAWA SAND.

Tubing Size: **Tubing Setting Depth:**

Tubing Packer Depth: **Tubing Multiple Packer:**

Open Hole Top: **Open Hole Bottom:**

Initial Test Data:

Test Date: 11/14/2006 **Test Method:** FLOWING

Hours Tested: 24 **Gas Type:** WET

Gas Disposal: SOLD

Test Type	Measure
BBLS_H2O	8
BBLS_OIL	25

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Surface Location Data for API # 05-123-11808

Status: PR

Well Name/No: [TWO E RANCHES #1-15B](#) (click well name for production)

Operator: PETROLEUM DEVELOPMENT CORPORATION - 69175

Status Date: 3/7/2006 **Federal or State Lease #:** 62661

County: WELD #123 **Location:** SWSW 15 3N 64W 6 PM

Field: WATTENBERG - #90750 **Elevation:** 4,790 ft.

Planned Location 1000 FSL 1000 FWL **Lat/Long:** 40.220828/-104.542993 **Lat/Long Calculated From Footages**

As Drilled Location Footages Not Available **Lat/Long:** 40.22083/-104.54314 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 3/7/2006

Spud Date: 5/19/1984 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 19840592 **Expiration Date:** 10/15/1997

Prop Depth/Form: 7550 **Surface Mineral Owner Same:** N

Mineral Owner: FEE **Surface Owner:**

Unit: **Unit Number:**

Formation and Spacing: Code: JSND , Formation: J SAND , Order: 0 , Unit Acreage: 320 , Drill Unit: S2

Formation and Spacing: Code: SX-CD , Formation: SUSSEX-CODELL , Order: 493 & 407 , Unit Acreage: 320 , Drill Unit: S2

Wellbore Completed

Completion Date: 10/29/1985

Measured TD: 7550 **Measured PB depth:** 7533

True Vertical TD: 0 **True Vertical PB depth:**

Log Types: DI, DN, CBL

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 426, Weight: 24

Cement: Sacks: 300, Top: 0, Bottom: , Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7550, Weight: 11.6

Cement: Sacks: 450, Top: 0, Bottom: , Method Grade:

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4232			
NIOBRARA	6684			
CODELL	6952			
D SAND	7355			
J SAND	7415			

Completed information for formation CODL

1st Production Date: N/A

Status Date: N/A

Commingle: Y

Formation Name: CODELL

Formation Treatment:

Choke Size:

Open Hole Completion: N

Production Method: FLOWING

Status: PR

Treatment Date: 10/29/1985

PULLED LOCKSET PACKER AT 4462'. SET CIBP AT 4650'. SQUEEZED SUSX PERFS. DRILLED OUT CIBP AT 4650' AND 7308'. COMMINGLED JSND WITH CODL (BOTH PREVIOUSLY TA) AND RESUMED PRODUCTION ON 10-22-05. NO NEW TESTS.

Tubing Size: 2.375 **Tubing Setting Depth:** 7397

Tubing Packer Depth: **Tubing Multiple Packer:**

Open Hole Top: **Open Hole Bottom:**

Initial Test Data:

Test Date: N/A

Test Method:

Hours Tested:

Gas Type:

Gas Disposal:

Test Type	Measure
BBLS_OIL	16
BTU_GAS	1377

HSR-WEEKS 10-17
(18099)

HSR-WEEKS 9-17
(18098)

WEEKS 20-17
(22912)



3N-64W-17

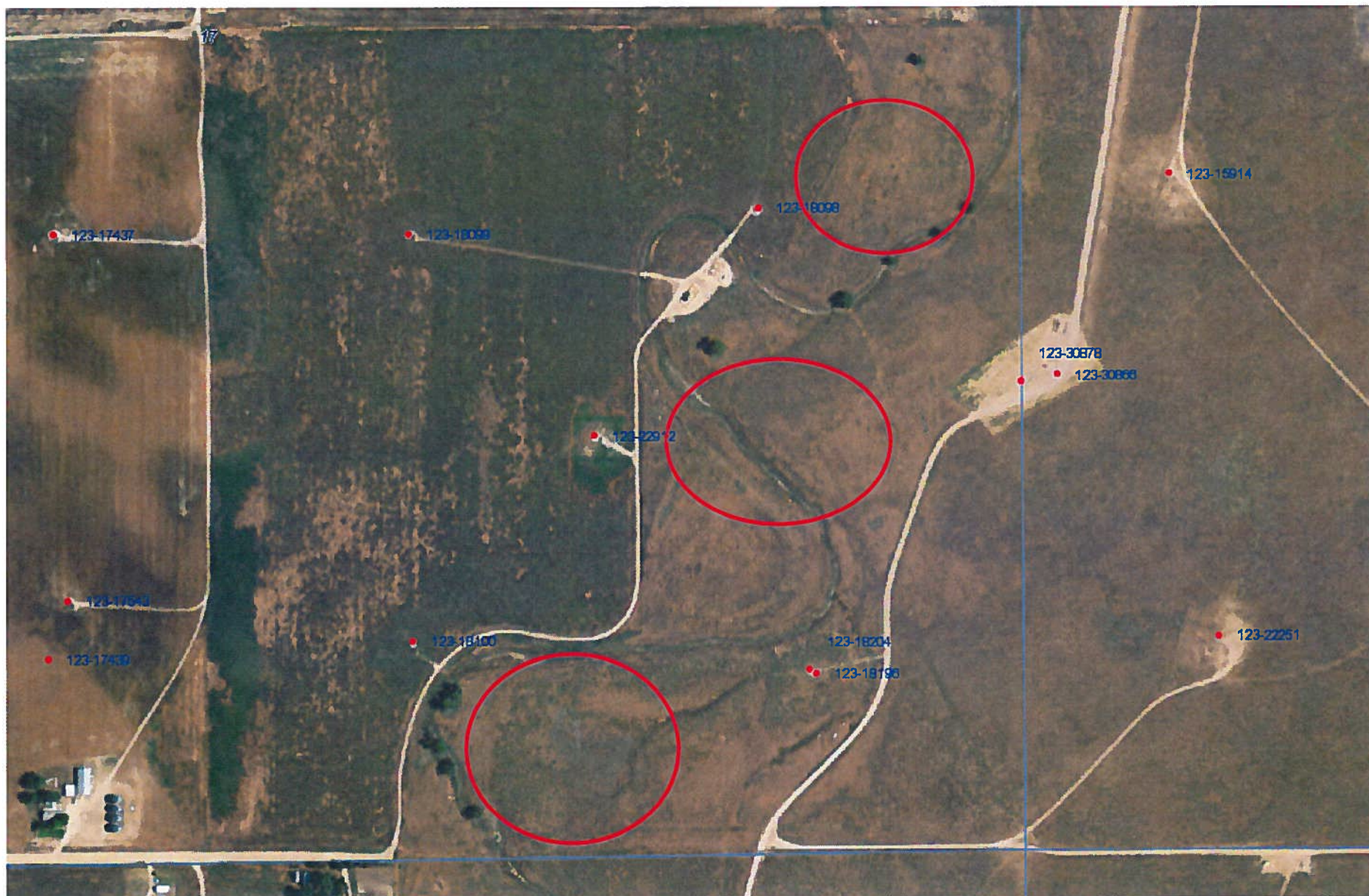
HSR-MIKE GUTERSEN
16-17X

HSR-MIKE GUTERSEN
16-17

Shane Davis
Weld County
North of Keenesburg, CO
~3 miles

© 2012 Google
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40°13'14.62"N 104°40'58.02"W elev. 4205ft



2011 17-3N-64W

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Surface Location Data for API # 05-123-18099

Status: PR

Well Name/No: [HSR-WEEKS #10-17](#) (click well name for production)
Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120
Status Date: 4/28/1995 **Federal or State Lease #:**
County: WELD #123 **Location:** NWSE 17 3N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,749 ft.
Planned Location 1980 FSL 1991 FEL **Lat/Long:** 40.223477/-104.572714 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.22353/-104.57266 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 4/28/1995

Spud Date: 4/12/1994 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 940284 **Expiration Date:** 9/3/1994
Prop Depth/Form: **Surface Mineral Owner Same:** N
Mineral Owner: FEE **Surface Owner:**
Unit: **Unit Number:**

Formation and Spacing: Code: NBCSX , Formation: NIOBRARA-CODELL-SUSSEX , Order: 407-67 , Unit Acreage: 80, Drill Unit: N2SE

Wellbore Completed

Completion Date: 5/6/1994
Measured TD: 7114 **Measured PB depth:** 7035
True Vertical TD: 0 **True Vertical PB depth:**
Log Types: DIL/SFL/GR; CBL; CDEN/GR
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 715, Weight: 24
Cement: Sacks: 550, Top: 0, Bottom: , Method Grade:
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7109, Weight: 11.6
Cement: Sacks: 380, Top: 0, Bottom: , Method Grade:

Formation	Log Top	Log Bottom	Cored	DSTs
DAKOTA	0			
J SAND	0			
MORRISON	0			
SHANNON	0			
FOX HILLS	100			
SUSSEX	4234			
FORT HAYS	6638			
NIOBRARA	6687			
CODELL	6959			
CARLILE	6971			
GREENHORN	7028			

Completed information for formation NB-CD

1st Production Date: N/A **Choke Size:**
Status Date: 4/28/1995 **Open Hole Completion:**
Commingled: Y **Production Method:**
Formation Name: NIOBRARA-CODELL **Status:** PR
Formation Treatment:
Treatment Date: 5/6/1994 **FRAC'D W/ 413,800# 20/40 M SAND + 108,300 GAL GEL**
Tubing Size: 2.375 **Tubing Setting Depth:** 6730
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**

No Initial Test Data was found for formation NB-CD .

Perforation Data:
Interval Bottom: 6970 **Interval Top:** 6739
of Holes: 18 **Hole Size:** 0.31

Completed information for formation NBCSX

1st Production Date: 5/6/1994 **Choke Size:** 0.000
Status Date: N/A **Open Hole Completion:**
Commingled: Y **Production Method:** FLOWING

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Surface Location Data for API # 05-123-18098

Status: PR

Well Name/No: [HSR-WEEKS #9-17](#) (click well name for production)
Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120
Status Date: 4/28/1995 **Federal or State Lease #:**
County: WELD #123 **Location:** NESE 17 3N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,748 ft.
Planned Location 2042 FSL 854 FEL **Lat/Long:** 40.223677/-104.568644 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.22374/-104.56859 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 4/28/1995

Spud Date: 4/8/1994 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 19940283 **Expiration Date:** 9/3/1994
Prop Depth/Form: 7120 **Surface Mineral Owner Same:** N
Mineral Owner: FEE **Surface Owner:**
Unit: **Unit Number:**

Formation and Spacing: Code: NBCSX , Formation: NIOBRARA-CODELL-SUSSEX , Order: 407-67 , Unit Acreage: 80, Drill Unit: N2SE

Wellbore Completed

Completion Date: 5/6/1994
Measured TD: 7102 **Measured PB depth:** 7040
True Vertical TD: 0 **True Vertical PB depth:**
Log Types: DIL/SFL/GR; CBL; CDEN/GR
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 573, Weight: 24
Cement: Sacks: 450, Top: 0, Bottom: , Method Grade:
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7079, Weight: 11.6
Cement: Sacks: 395, Top: 0, Bottom: , Method Grade:

Formation	Log Top	Log Bottom	Cored	DSTs
FOX HILLS	100			
SUSSEX	4243			
NIOBRARA	6681			
FORT HAYS	6928			
CODELL	6950			
CARLILE	6960			

Completed information for formation NB-CD

1st Production Date: N/A **Choke Size:**
Status Date: 4/28/1995 **Open Hole Completion:**
Commingle: Y **Production Method:**
Formation Name: NIOBRARA-CODELL **Status:** PR
Formation Treatment:
Treatment Date: 5/6/1994 **FRAC'D W/ 412,000# 20/40 M SAND + 110,544 GAL GELLED FLUID**
Tubing Size: 2.375 **Tubing Setting Depth:** 6701
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**

No Initial Test Data was found for formation NB-CD .

Perforation Data:
Interval Bottom: 6959 **Interval Top:** 6733
of Holes: 18 **Hole Size:** 0.31

Completed information for formation NBCSX

1st Production Date: 5/6/1994 **Choke Size:** 0.000
Status Date: N/A **Open Hole Completion:**
Commingle: Y **Production Method:** FLOWING
Formation Name: NIOBRARA-CODELL-SUSSEX **Status:**
Formation Treatment:
Tubing Size: 2.375 **Tubing Setting Depth:** 6701
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**

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Surface Location Data for API # 05-123-22912

Status: PR

Well Name/No: [WEEKS #20-17](#) (click well name for production)
Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120
Status Date: 8/26/2010 **Federal or State Lease #:**
County: WELD #123 **Location:** SWSE 17 3N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,735 ft.
Planned Location 1320 FSL 1370 FEL **Lat/Long:** 40.221677/-104.570484 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.22175/-104.57051 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 8/26/2010

Spud Date: 4/30/2005 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 20050899 **Expiration Date:** 4/13/2006
Prop Depth/Form: 7115 **Surface Mineral Owner Same:** N
Mineral Owner: FEE **Surface Owner:** FEE
Unit: **Unit Number:**

Formation and Spacing: Code: JSND , Formation: J SAND , Order: 232 , Unit Acreage: 320 , Drill Unit: S2

Formation and Spacing: Code: NB-CD , Formation: NIOBRARA-CODELL , Order: 407 , Unit Acreage: 160 , Drill Unit: SE4

Wellbore Completed

Completion Date: 5/18/2005
Measured TD: 7594 **Measured PB depth:** 7559
True Vertical TD: **True Vertical PB depth:**

Log Types: CBL, DIGL, GR, CDCN

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 861, Weight: 24

Cement: Sacks: 600, Top: 0, Bottom: 861, Method Grade: CALC

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7575, Weight: 11.6

Cement: Sacks: 680, Top: 3613, Bottom: 7575, Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4246		N	N
NIOBRARA	6682		N	N
FORT HAYS	6927		N	N
CODELL	6951		N	N
D SAND	7354		N	N
J SAND	7414		N	N

Completed information for formation CODL

1st Production Date: 8/2/2010 **Choke Size:**
Status Date: 9/2/2010 **Open Hole Completion:** N
Commingle: Y **Production Method:**
Formation Name: CODELL **Status:** CM
Formation Treatment:
Treatment Date: 7/28/2010 **Drill out CIBP and 2 sacks of cement set @ 6880' to commingle CODL w/ NBRR.**
Treatment Date: 5/18/2005 **CODELL 139248 GAL FLUID 99500 LBS 30/50 SAND FRAC INFO REPRESENTS: CODELL**
Tubing Size: **Tubing Setting Depth:**
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**
Initial Test Data:
Test Date: N/A **Test Method:**

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Surface Location Data for API # 05-123-18204

Status: PR

Well Name/No: [HSR-MIKE GUTTERSEN #16-17X](#) (click well name for production)

Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120

Status Date: 4/26/1995

Federal or State Lease #:

County: WELD #123

Location:

SESE 17 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation:

4,757 ft.

Planned Location 570 FSL 693 FEL

Lat/Long: 40.219637/-104.568054

Lat/Long Calculated From Footages

As Drilled Location Footages Not Available

Lat/Long: 40.219684/-104.568027

Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR 4/26/1995

Spud Date: 4/12/1994

Spud Date is:

ACTUAL

Wellbore Permit

Permit #: 19940429

Expiration Date:

10/9/1994

Prop Depth/Form: 7115

Surface Mineral Owner Same:

N

Mineral Owner: FEE

Surface Owner:

Unit:

Unit Number:

Formation and Spacing: Code: NBCSX , Formation: NIOBRARA-CODELL-SUSSEX , Order: 407-67 , Unit Acreage: 80, Drill Unit: S2SE

Wellbore Completed

Completion Date: 5/9/1994

Measured TD: 7110

Measured PB depth:

7070

True Vertical TD: 0

True Vertical PB depth:

Log Types: DIL/SFL/GR; CBL; DEN/GR

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 743, Weight: 24

Cement: Sacks: 490, Top: 0, Bottom: , Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7104, Weight: 11.6

Cement: Sacks: 480, Top: 0, Bottom: , Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
FOX HILLS	100			
SUSSEX	4238			
NIOBRARA	6688			
FORT HAYS	6936			
CODELL	6958			
CARLILE	6967			
GREENHORN	7028			

Completed information for formation NB-CD

1st Production Date: 5/9/1994

Choke Size:

0.313

Status Date: 4/26/1995

Open Hole Completion:

Commingle: Y

Production Method:

FLOWING

Formation Name: NIOBRARA-CODELL

Status:

PR

Formation Treatment:

Treatment Date: 5/9/1994

FRAC'D W/ 412,000# 20/40 M SAND + 107,646 GAL GEL

Tubing Size: 2.375

Tubing Setting Depth:

6736

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

Initial Test Data:

Test Date: 5/16/1994

Test Method:

FLOWING

Hours Tested: 24

Gas Type:

Gas Disposal: SOLD

Test Type	Measure
BBLS_OIL	48
CALC_GOR	3750
CASING_PRESS	1050
GRAVITY_OIL	60
MCF_GAS	180
TUBING_PRESS	800

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Surface Location Data for API # 05-123-18196

Status: DA

Well Name/No: [HSR-MIKE GUTTERSEN #16-17](#) (click well name for production)

Operator: ELK EXPLORATION INC - 26607

Status Date: 4/11/1994

Federal or State Lease #:

County: WELD #123

Location: SESE 17 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation: 4,757 ft.

Planned Location 570 FSL 663 FEL

Lat/Long: 40.219647/-104.567944 Lat/Long Calculated From Footages

Wellbore Data for Sidetrack #00

Status: DA 4/11/1994

Spud Date: 4/9/1994

Spud Date is: ACTUAL

Wellbore Permit

Permit #: 19940413

Expiration Date: 9/28/1994

Prop Depth/Form: 7115

Surface Mineral Owner Same: N

Mineral Owner: FEE

Surface Owner:

Unit:

Unit Number:

Formation and Spacing: Code: NBCSX , Formation: NIOBRARA-CODELL-SUSSEX , Order: 407-67 , Unit Acreage: 80, Drill Unit: S2SE

Wellbore Completed

Completion Date: N/A

Measured TD: 1666

Measured PB depth: 0

True Vertical TD: 0

True Vertical PB depth:

Log Types: DIL/SFL/GR; CBL; CDEN/GR

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 543, Weight: 24

Cement: Sacks: 380, Top: 0, Bottom: , Method Grade:

Formation

Log Top

Log Bottom

Cored

DSTs

Completed information for formation NBCSX

1st Production Date: N/A

Choke Size: 0.000

Status Date: N/A

Open Hole Completion:

Commingled:

Production Method:

Formation Name: NIOBRARA-CODELL-SUSSEX

Status: DA

Formation Treatment:

Tubing Size:

Tubing Setting Depth:

Tubing Packer Depth:

Tubing Multiple Packer:

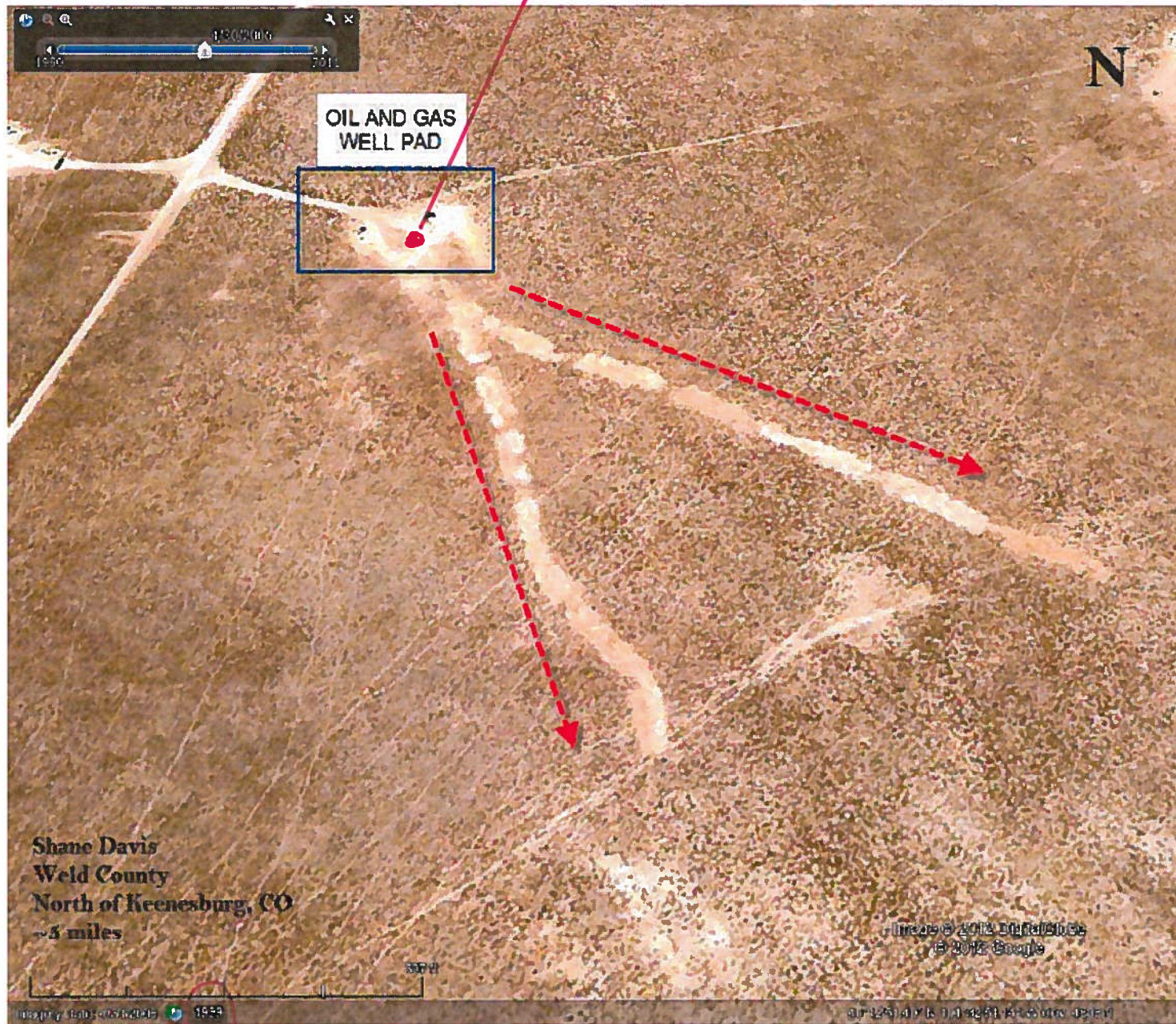
Open Hole Top:

Open Hole Bottom:

No Initial Test Data was found for formation NBCSX .

No Perforation Data was found for formation NBCSX .

DALBEY D 22-5
(15647)



3N-64W -
22

DALBEY D 22-5
(15647)



20111 Section 22 3N-64W

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Surface Location Data for API # 05-123-15647

Status: PR

Well Name/No: [DALBEY D #22-5](#) (click well name for production)
Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120
Status Date: 6/23/2010 **Federal or State Lease #:**
County: WELD #123 **Location:** SWNW 22 3N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,806 ft.
Planned Location 2080 FNL 560 FWL **Lat/Long:** 40.212378/-104.544703 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.21252/-104.54478 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 6/23/2010

Spud Date: 3/18/1992 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 19920269 **Expiration Date:** 7/10/1992
Prop Depth/Form: 7150 **Surface Mineral Owner Same:** Y
Mineral Owner: FEE **Surface Owner:**
Unit: **Unit Number:**

Formation and Spacing: Code: NBCSX , Formation: NIOBRARA-CODELL-SUSSEX , Order: 407-67 , Unit Acreage: 80, Drill Unit: W2NW

Wellbore Completed

Completion Date: 6/5/1992
Measured TD: 7125 **Measured PB depth:** 6942
True Vertical TD: 0 **True Vertical PB depth:**
Log Types: DIL/CDL/CBL
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 606, Weight: 24
Cement: Sacks: 425, Top: 0, Bottom: , Method Grade: CBL
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7130, Weight: 11.6
Cement: Sacks: 375, Top: 0, Bottom: , Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4332			
PIERRE	4505			
NIOBRARA	6704			
FORT HAYS	6952			
CODELL	6976			
CARLILE	7044			

Completed information for formation CODL

1st Production Date: 5/26/2010 **Choke Size:**
Status Date: 11/24/2010 **Open Hole Completion:** N
Commingle: Y **Production Method:**
Formation Name: CODELL **Status:** CM
Formation Treatment:
Treatment Date: 4/26/2010 **REPERF CODL 6978-6990 HOLES 24 SIZE 0.38. REFRAC CODL W/ 120372 GAL VISTAR AND 261580# 20/40 SAND AND 4020# 20/40 SB EXCEL.**
Tubing Size: **Tubing Setting Depth:**
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**

No Initial Test Data was found for formation CODL .

Perforation Data:
Interval Bottom: 6990 **Interval Top:** 6978
of Holes: 32 **Hole Size:** 0.38

Completed information for formation NB-CD

1st Production Date: 5/26/2010 **Choke Size:**
Status Date: 6/23/2010 **Open Hole Completion:** N
Commingle: N **Production Method:**
Formation Name: NIOBRARA-CODELL **Status:** PR
Formation Treatment:
Treatment Date: 4/26/2010 **NBRR PERF 6710-6764 HOLES 50 SIZE 0.38. CODL PERF 6978-6990 HOLES 32 SIZE 0.38.**

HSR-GUTTERSEN 10-3
(18095)

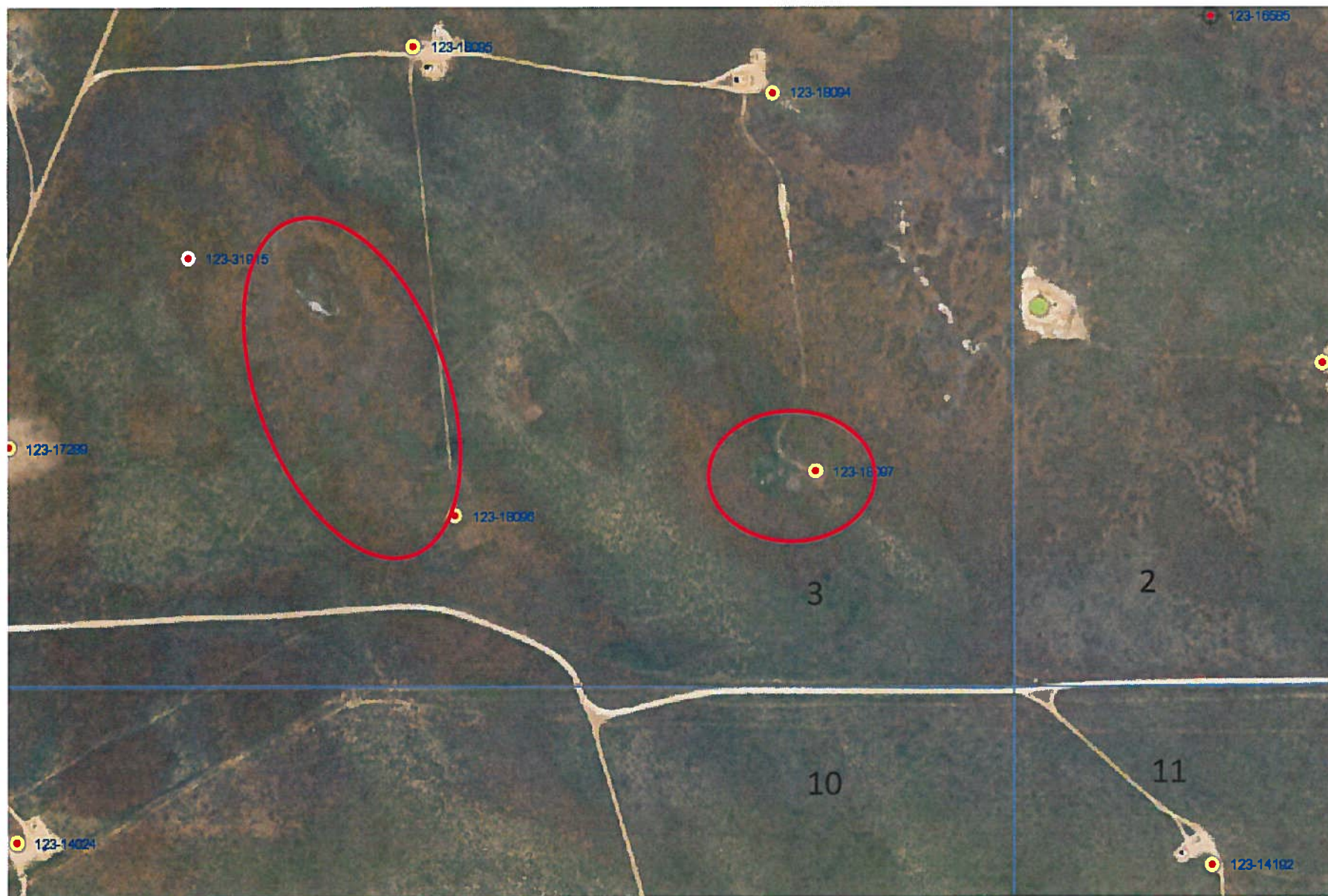
HSR-GUTTERSEN 11-3
(18094)



3N-64W
3

HSR-GUTTERSEN 15-3
(18096)

HSR-GUTTERSEN "A" 16-3
(18097)



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Surface Location Data for API # 05-123-18095

Status: PR

Well Name/No: [HSR-GUTTERSEN #10-3](#) (click well name for production)

Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120

Status Date: 5/20/1994 **Federal or State Lease #:** 61881

County: WELD #123 **Location:** NWSE 3 3N 64W 6 PM

Field: WATTENBERG - #90750 **Elevation:** 4,708 ft.

Planned Location 1980 FSL 1965 FEL **Lat/Long:** 40.252617/-104.534923 **Lat/Long Calculated From Footages**

As Drilled Location Footages Not Available **Lat/Long:** 40.25263/-104.53477 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 5/20/1994

Spud Date: 3/21/1994 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 19940280 **Expiration Date:** 9/3/1994

Prop Depth/Form: 7025 **Surface Mineral Owner Same:** N

Mineral Owner: FEE **Surface Owner:**

Unit: **Unit Number:**

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407-67 , Unit Acreage: 80, Drill Unit: W2SE

Formation and Spacing: Code: NBRR , Formation: NIOBRARA , Order: 407-67 , Unit Acreage: 80, Drill Unit: W2SE

Formation and Spacing: Code: SUSX , Formation: SUSSEX , Order: 407-67 , Unit Acreage: 80, Drill Unit: W2SE

Wellbore Completed

Completion Date: 5/13/1994

Measured TD: 7028 **Measured PB depth:** 6950

True Vertical TD: 0 **True Vertical PB depth:**

Log Types: DIL/SFL/GR, CBL, CDEN/GR

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 531, Weight: 24

Cement: Sacks: 370, Top: 0, Bottom: , Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7011, Weight: 11.6

Cement: Sacks: 665, Top: 0, Bottom: , Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
FOX HILLS	100			
SUSSEX	4238			
NIOBRARA	6610			
FORT HAYS	6854			
CODELL	6876			
CARLILE	6886			
GREENHORN	6946			

Completed information for formation NB-CD

1st Production Date: 5/13/1994

Status Date: 5/20/1994

Commingled: Y

Formation Name: NIOBRARA-CODELL

Formation Treatment:

Treatment Date: 5/13/1994

Tubing Size: 2.375

Tubing Packer Depth:

Open Hole Top:

Choke Size:

Open Hole Completion:

Production Method: FLOWING

Status: PR

FRAC'D W/ 412,000# 20/40 MESH + 111,315 GAL GELLED FLUID

Tubing Setting Depth: 6643

Tubing Multiple Packer:

Open Hole Bottom:

No Initial Test Data was found for formation NB-CD .

Perforation Data:

Interval Bottom: 6885

of Holes: 18

Interval Top: 6671

Hole Size: 0.31

Completed information for formation NBCSX

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Surface Location Data for API # 05-123-18094

Status: PR

Well Name/No: [HSR-GUTTERSEN "A" #9-3](#) (click well name for production)
Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120
Status Date: 10/27/2009 **Federal or State Lease #:**
County: WELD #123 **Location:** NESE 3 3N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,702 ft.
Planned Location 1840 FSL 795 FEL **Lat/Long:** 40.252217/-104.530733 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.25222/-104.5306 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 10/27/2009

Spud Date: 3/25/1994 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 20040239 **Expiration Date:** 2/23/2005
Prop Depth/Form: 7500 **Surface Mineral Owner Same:** N
Mineral Owner: FEE **Surface Owner:** FEE
Unit: **Unit Number:**

Formation and Spacing: Code: JSND , Formation: J SAND , Order: 232 , Unit Acreage: 320 , Drill Unit: S/2
Formation and Spacing: Code: NBCSX , Formation: NIOBRARA-CODELL-SUSSEX , Order: 407-67 , Unit Acreage: 80 , Drill Unit: E2SE
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: , Depth: 486, Weight: 24
Cement: Sacks: 340, Top: 0, Bottom: 486, Method Grade:
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: , Depth: 6988, Weight: 11.6
Cement: Sacks: 485, Top: 3720, Bottom: 6988, Method Grade:

Wellbore Completed

Completion Date: 5/10/2004
Measured TD: 7495 **Measured PB depth:** 7463
True Vertical TD: 7495 **True Vertical PB depth:** 7463
Log Types: CDL, GR, CBL, DIFL, CAL 2004-CBL, CDL
Log Types: DIL/SFL/GR, CBL, DEN/GR
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 486, Weight: 24
Cement: Sacks: 340, Top: 0, Bottom: 486, Method Grade: CALC
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 6988, Weight: 11.6
Cement: Sacks: 485, Top: 3750, Bottom: 6988, Method Grade: CBL
Casing: String Type: 1ST LINER , Hole Size: 3.875, Size: 2.875, Top: 6905, Depth: 7496, Weight: 6.5
Cement: Sacks: 25, Top: 6905, Bottom: 7496, Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
FOX HILLS	100			
SUSSEX	4180		N	N
NIOBRARA	6585		N	N
FORT HAYS	6829		N	N
CODELL	6851		N	N
CARLILE	6861			
GREENHORN	6920			
J SAND	7328		N	N

Completed information for formation CODL

1st Production Date: N/A **Choke Size:**
Status Date: N/A **Open Hole Completion:** N
Commingled: Y **Production Method:**
Formation Name: CODELL **Status:** CM
Formation Treatment:
Treatment Date: 10/2/2009 121,243 GAL GEL WITH 262,180# 20/40 & 4,000# 20/40 SB EXCEL
Tubing Size: **Tubing Setting Depth:**
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**

No Initial Test Data was found for formation CODL .

Perforation Data:

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Surface Location Data for API # 05-123-18096

Status: PR

Well Name/No: [HSR-GUTTERSEN #15-3](#) (click well name for production)
Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120
Status Date: 11/6/2007 **Federal or State Lease #:** 61882
County: WELD #123 **Location:** SWSE 3 3N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,708 ft.
Planned Location 520 FSL 1825 FEL **Lat/Long:** 40.248607/-104.534433 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.24864/-104.53432 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 11/6/2007

Spud Date: 4/4/1994 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 19940281 **Expiration Date:** 9/3/1994
Prop Depth/Form: 7030 **Surface Mineral Owner Same:** N
Mineral Owner: FEE **Surface Owner:**
Unit: **Unit Number:**

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407-67 , Unit Acreage: 80, Drill Unit: W2SE
Formation and Spacing: Code: NBCSX , Formation: NIOBRARA-CODELL-SUSSEX , Order: , Unit Acreage: 80, Drill Unit: W2SE
Formation and Spacing: Code: NBRR , Formation: NIOBRARA , Order: 407-67 , Unit Acreage: 80, Drill Unit: W2SE
Formation and Spacing: Code: SUSX , Formation: SUSSEX , Order: , Unit Acreage: 80, Drill Unit: W2SE

Wellbore Completed

Completion Date: 5/13/1994
Measured TD: 7016 **Measured PB depth:** 6960
True Vertical TD: 0 **True Vertical PB depth:**
Log Types: DIL/SFL/GR, CBL, CDEN/GR
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 699, Weight: 24
Cement: Sacks: 490, Top: 4090, Bottom: , Method Grade:
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7006, Weight: 11.6
Cement: Sacks: 410, Top: 5900, Bottom: , Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
FOX HILLS	100			
SUSSEX	4185			
NIOBRARA	6600			
FORT HAYS	6840			
CODELL	6862			
CARLILE	6870			
GREENHORN	6928			

Completed information for formation NB-CD

1st Production Date: 5/13/1994 **Choke Size:** 0.313
Status Date: 5/20/1994 **Open Hole Completion:**
Commingled: Y **Production Method:** FLOWING
Formation Name: NIOBRARA-CODELL **Status:** PR
Formation Treatment:
Treatment Date: 5/13/1994 **FRAC'D W/ 414,500# 20/40 MESH SAND PLUS 109,130 GAL GELLED FLUID**
Tubing Size: 2.375 **Tubing Setting Depth:** 6629
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**

No Initial Test Data was found for formation NB-CD .

Perforation Data:
Interval Bottom: 6870 **Interval Top:** 6657
of Holes: 18 **Hole Size:** 0.31

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Surface Location Data for API # 05-123-18097

Status: PR

Well Name/No: [HSR-GUTTERSEN "A" #16-3](#) (click well name for production)

Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120

Status Date: 5/20/1994 **Federal or State Lease #:** 61884

County: WELD #123 **Location:** SESE 3 3N 64W 6 PM

Field: WATTENBERG - #90750 **Elevation:** 4,711 ft.

Planned Location 660 FSL 655 FEL **Lat/Long:** 40.248967/-104.530233 **Lat/Long Calculated From Footages**

As Drilled Location Footages Not Available **Lat/Long:** 40.249/-104.53013 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 5/20/1994

Spud Date: 3/30/1994 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 19940282 **Expiration Date:** 9/3/1994

Prop Depth/Form: 7010 **Surface Mineral Owner Same:** N

Mineral Owner: FEE **Surface Owner:**

Unit: **Unit Number:**

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407-67 , Unit Acreage: 80, Drill Unit: S2SE

Formation and Spacing: Code: NBRR , Formation: NIOBRARA , Order: 407-67 , Unit Acreage: 80, Drill Unit: S2SE

Formation and Spacing: Code: SUSX , Formation: SUSSEX , Order: 407-67 , Unit Acreage: 80, Drill Unit: S2SE

Wellbore Completed

Completion Date: 5/13/1994

Measured TD: 6994 **Measured PB depth:** 6950

True Vertical TD: 0 **True Vertical PB depth:**

Log Types: DIL/SFL/FR; CBL; CDEN/GR

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 487, Weight: 24

Cement: Sacks: 340, Top: 0, Bottom: , Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 6989, Weight: 11.6

Cement: Sacks: 520, Top: 0, Bottom: , Method Grade:

Formation	Log Top	Log Bottom	Cored	DSTs
FOX HILLS	100			
SUSSEX	4183			
NIOBRARA	6580			
FORT HAYS	6822			
CODELL	6844			
CARLILE	6871			
GREENHORN	6913			

Completed information for formation NB-CD

1st Production Date: 5/13/1994 **Choke Size:** 0.313

Status Date: 5/20/1994 **Open Hole Completion:**

Commingle: Y **Production Method:** FLOWING

Formation Name: NIOBRARA-CODELL **Status:** PR

Formation Treatment:

Treatment Date: 5/13/1994 **FRAC'D W/** 412,000# 20/40 SAND + 123,606 GAL GELLED FLUID

Tubing Size: 2.375 **Tubing Setting Depth:** 6626

Tubing Packer Depth: **Tubing Multiple Packer:**

Open Hole Top: **Open Hole Bottom:**

No Initial Test Data was found for formation NB-CD .

Perforation Data:

Interval Bottom: 6870 **Interval Top:** 6657

of Holes: 18 **Hole Size:** 0.31

Completed information for formation NBCSX



3N-64W -3



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Surface Location Data for API # 05-123-16941

Status: PR

Well Name/No: [CODY WHITE #D 3-2](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 7/18/2006

Federal or State Lease #:

59868

County: WELD #123

Location:

NWNE 3 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation:

4,695 ft.

Planned Location 660 FNL 1980 FEL

Lat/Long: 40.259807/-104.534963

Lat/Long Calculated From Footages

As Drilled Location Footages Not Available

Lat/Long: 40.25995/-104.53478

Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR **7/18/2006**

Spud Date: 4/23/1993

Spud Date is:

ACTUAL

Wellbore Permit

Permit #: 19930350

Expiration Date:

8/17/1994

Prop Depth/Form: 7033

Surface Mineral Owner Same:

N

Mineral Owner: FEE

Surface Owner:

Unit:

Unit Number:

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407 , Unit Acreage: 80, Drill Unit: N2NE

Formation and Spacing: Code: SUSX , Formation: SUSSEX , Order: 493-2 , Unit Acreage: 80, Drill Unit: N2NE

Wellbore Completed

Completion Date: 6/15/1993

Measured TD: 7010

Measured PB depth:

6986

True Vertical TD: 0

True Vertical PB depth:

Log Types: CD, DIL, CBL-DDL-GR

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 481, Weight: 24

Cement: Sacks: 330, Top: 0, Bottom: , Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 3.5, Top: 0, Depth: 7010, Weight: 9.3

Cement: Sacks: 6400, Top: 0, Bottom: , Method Grade:

Formation

Log Top

Log Bottom

Cored

DSTs

SUSSEX

4291

NIOBRARA

6597

CODELL

6863

Completed information for formation CODL

1st Production Date: 7/5/2006

Choke Size:

0.250

Status Date: 7/18/2006

Open Hole Completion:

N

Commingled: N

Production Method:

Formation Name: CODELL

Status:

PR

Formation Treatment:

Treatment Date: 5/10/2006

RE-FRAC'D CODELL W/127,680 GALS OF VISTAR WITH 22/23/24# GEL LOADINGS AND 246,0003 OF 20/40 OTTAWA SAND.

Tubing Size:

Tubing Setting Depth:

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

Initial Test Data:

Test Date: 7/18/2006

Test Method:

FLOWING

Hours Tested: 24

Gas Type:

WET

Gas Disposal: SOLD

Test Type

Measure

BBLS_H2O

6

BBLS_OIL

14

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Surface Location Data for API # 05-123-28197

Status: PR

Well Name/No: [GUTTERSEN D #03-17](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 7/10/2009

Federal or State Lease #:

County: WELD #123

Location:

SWNE 3 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation:

4,697 ft.

Planned Location 1380 FNL 1350 FEL

[Lat/Long:](#) 40.257968/-104.532546

Lat/Long Source: Field Measured

As Drilled Location Footages Not Available

[Lat/Long:](#) 40.257971/-104.532561

Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR 7/10/2009

Spud Date: 5/12/2009

Spud Date is:

ACTUAL

Wellbore Permit

Permit #: 20084417

Expiration Date:

9/7/2009

Prop Depth/Form: 7020

Surface Mineral Owner Same:

N

Mineral Owner: FEE

Surface Owner:

FEE

Unit:

Unit Number:

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407-87 , Unit Acreage: 160, Drill Unit: NE4

Formation and Spacing: Code: NBRR , Formation: NIOBRARA , Order: 407-87 , Unit Acreage: 160, Drill Unit: NE4

Wellbore Completed

Completion Date: 5/14/2009

Measured TD: 7016

Measured PB depth:

6979

True Vertical TD:

True Vertical PB depth:

Log Types: CBL/GR/CCL, CDL/CNL/ML, DIL/GR

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 688, Weight:

Cement: Sacks: 267, Top: 0, Bottom: 688, Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 6996, Weight:

Cement: Sacks: 770, Top: 956, Bottom: 6996, Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
PARKMAN	3589		N	N
SUSSEX	4209		N	N
SHANNON	4845		N	N
NIOBRARA	6597		N	N
FORT HAYS	6838		N	N
CODELL	6861		N	N

Completed information for formation CODL

1st Production Date: 6/26/2009

Choke Size:

Status Date: N/A

Open Hole Completion:

N

Commingled: Y

Production Method:

Formation Name: CODELL

Status:

CM

Formation Treatment:

Treatment Date: 6/23/2009

FRAC'D CODL W/ 133,392 GALS SILVERSTIM & SLICKWATER W/ 272,119# OTTAWA SAND. CODELL PRODUCING THROUGH FLOW PLUG.

Tubing Size:

Tubing Setting Depth:

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

No Initial Test Data was found for formation

CODL .

Perforation Data:

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Surface Location Data for API # 05-123-34143

Status: PR

Well Name/No: [GUTTERSEN D #02-32D](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 1/16/2012

Federal or State Lease #:

County: WELD #123

Location:

SENE 3 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation:

4,698 ft.

Planned Location 1982 FNL 608 FEL

Lat/Long: 40.25632/-104.5299

Lat/Long Source: Field Measured

As Drilled Location Footages Not Available

Lat/Long: 40.25633/-104.52994

Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR 1/16/2012

Spud Date: 9/16/2011

Spud Date is:

ACTUAL

Wellbore Permit

DIRECTIONAL

Permit #:

Expiration Date:

8/14/2013 4:42:57 PM

Prop Depth/Form: 7128

Surface Mineral Owner Same:

N

Mineral Owner: FEE

Surface Owner:

FEE

Unit:

Unit Number:

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407-87 , Unit Acreage: 160, Drill Unit: GWA

Formation and Spacing: Code: NBRR , Formation: NIOBRARA , Order: 407-87 , Unit Acreage: 160, Drill Unit: GWA

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 650, Weight: 24

Cement: Sacks: 200, Top: 0, Bottom: 650, Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7128, Weight: 11.6

Cement: Sacks: 650, Top: , Bottom: 7128, Method Grade:

Wellbore Completed

Completion Date: 9/21/2011

Measured TD: 7148

Measured PB depth:

7090

True Vertical TD: 7024

True Vertical PB depth:

6966

Top PZ Location: Sec: 2 Twp: 3N 64W

Footage: 2564 FSL 77 FWL

Depth

Bottom Hole Location: Sec: 2 Twp: 3N 64W

Footages: 2565 FSL 79 FWL

Depth

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 707, Weight: 24.00

Cement: Sacks: 280, Top: 0, Bottom: 707, Method Grade: VISU

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7135, Weight: 11.60

Cement: Sacks: 570, Top: 2100, Bottom: 7135, Method Grade: CBL

Formation

Log Top

Log Bottom

Cored

DSTs

NIOBRARA

6672

FORT HAYS

6942

CODELL

6967

GREENHORN

7054

Completed information for formation N-COM

1st Production Date: N/A

Choke Size:

Status Date: 1/16/2012

Open Hole Completion:

Commingled:

Production Method:

Formation Name: NOT COMPLETED

Status:

PR

Formation Treatment:

Tubing Size:

Tubing Setting Depth:

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

No Initial Test Data was found for formation N-COM .

No Perforation Data was found for formation N-

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Surface Location Data for API # 05-123-16942

Status: PR

Well Name/No: [CODY WHITE D #3-8](#) (click well name for production)
Operator: NOBLE ENERGY INC - 100322
Status Date: 11/20/2009 **Federal or State Lease #:** 59868
County: WELD #123 **Location:** SENE 3 3N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,696 ft.
Planned Location 1980 FNL 660 FEL **Lat/Long:** 40.256157/-104.530233 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.25632/-104.53007 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 11/20/2009

Spud Date: 4/10/1993 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 19930351 **Expiration Date:** 7/24/1993
Prop Depth/Form: 7019 **Surface Mineral Owner Same:** N
Mineral Owner: FEE **Surface Owner:**
Unit: **Unit Number:**
Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407 , Unit Acreage: 80, Drill Unit: S2NE
Formation and Spacing: Code: SUSX , Formation: SUSSEX , Order: 493-2 , Unit Acreage: 80, Drill Unit: S2NE

Wellbore Completed

Completion Date: 6/15/1993
Measured TD: **Measured PB depth:**
True Vertical TD: 7029 **True Vertical PB depth:** 6993
Log Types: CD, DIL, CBL-CCL-GR
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.675, Top: 0, Depth: 500, Weight: 24
Cement: Sacks: 350, Top: , Bottom: , Method Grade:
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7020, Weight: 10.5
Cement: Sacks: 590, Top: , Bottom: , Method Grade:

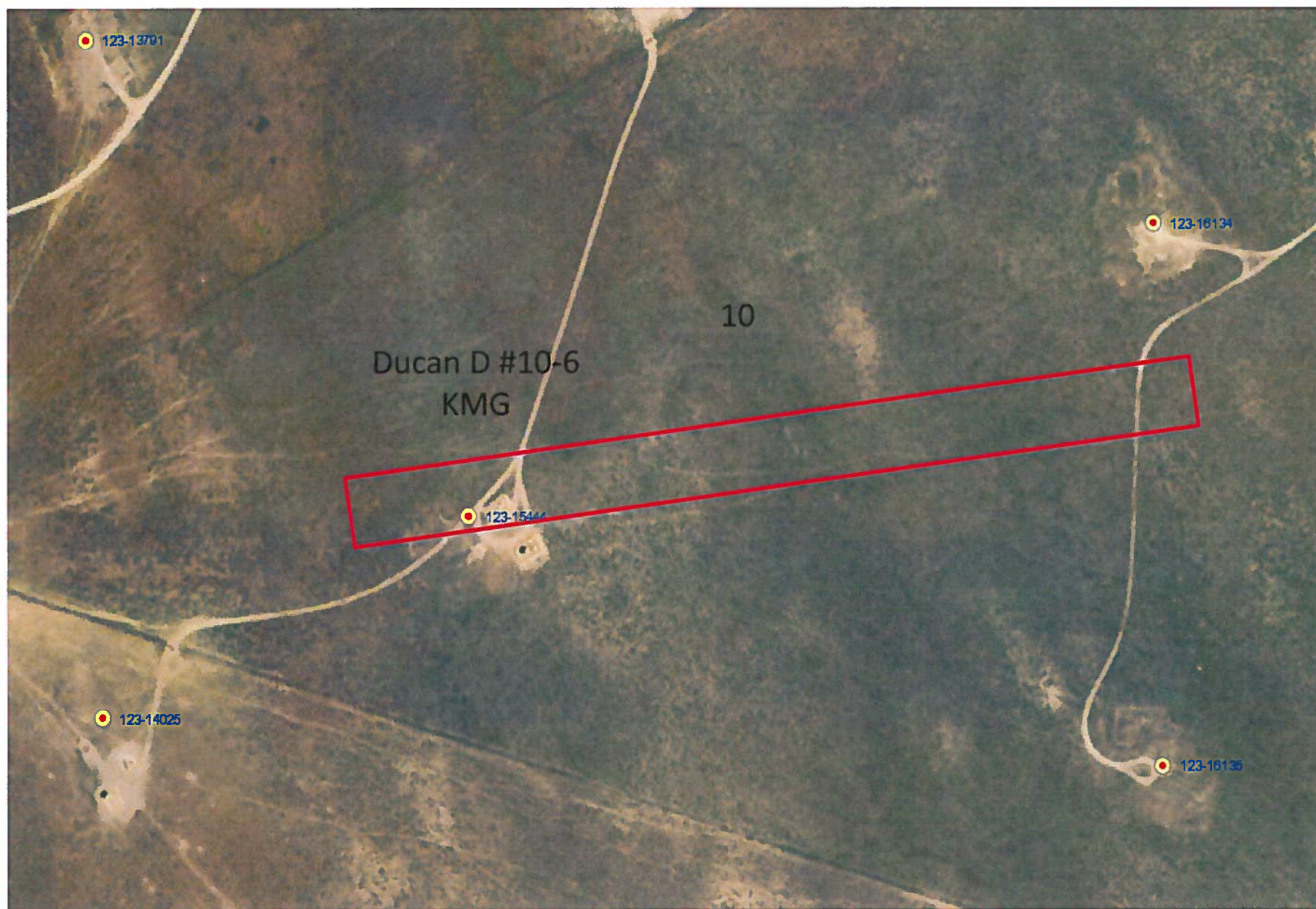
Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4271			
NIOBRARA	6589			
CODELL	6845			

Completed information for formation CODL

1st Production Date: N/A **Choke Size:**
Status Date: N/A **Open Hole Completion:** N
Commingle: N **Production Method:**
Formation Name: CODELL **Status:** TA
Formation Treatment:
Treatment Date: 6/15/1993 **CODL UNDER SAND PLUG @ 6981'.**
Tubing Size: **Tubing Setting Depth:**
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**
Initial Test Data:
Test Date: N/A **Test Method:**
Hours Tested: **Gas Type:**
Gas Disposal:

Test Type	Measure
BBLS_H2O	12
BBLS_OIL	14
BTU_GAS	1278

$$3N - 64W - 10$$



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Surface Location Data for API # 05-123-15444

Status: PR

Well Name/No: [DUNCAN D #10-6](#) (click well name for production)
Operator: KERR-MCGEE OIL & GAS ONSHORE LP - 47120
Status Date: 4/5/1996 Federal or State Lease #: 67605
County: WELD #123 Location: SENW 10 3N 64W 6 PM
Field: WATTENBERG - #90750 Elevation: 4,743 ft.
Planned Location 1645 FNL 1631 FWL Lat/Long: 40.242697/-104.540883 Lat/Long Calculated From Footages
As Drilled Location Footages Not Available Lat/Long: 40.24292/-104.54081 Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR 4/5/1996

Spud Date: 11/29/1991 Spud Date is: ACTUAL

Wellbore Permit

Permit #: 19911202 Expiration Date: 3/29/1992
Prop Depth/Form: 7500 Surface Mineral Owner Same: N
Mineral Owner: FEE Surface Owner:
Unit: Unit Number:

Formation and Spacing: Code: JSND , Formation: J SAND , Order: 232 , Unit Acreage: 320 , Drill Unit: N2

Wellbore Completed

Completion Date: 2/13/1992
Measured TD: 7530 Measured PB depth: 4490
True Vertical TD: 0 True Vertical PB depth:
Log Types: DIL/CDL/CBL
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 351, Weight: 24
Cement: Sacks: 255, Top: 0, Bottom: , Method Grade:
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: , Depth: 7526, Weight: 11.6
Cement: Sacks: 265, Top: , Bottom: , Method Grade:

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4318			
NIOBRARA	6640			
CODELL	6910			

Completed information for formation NB-CD

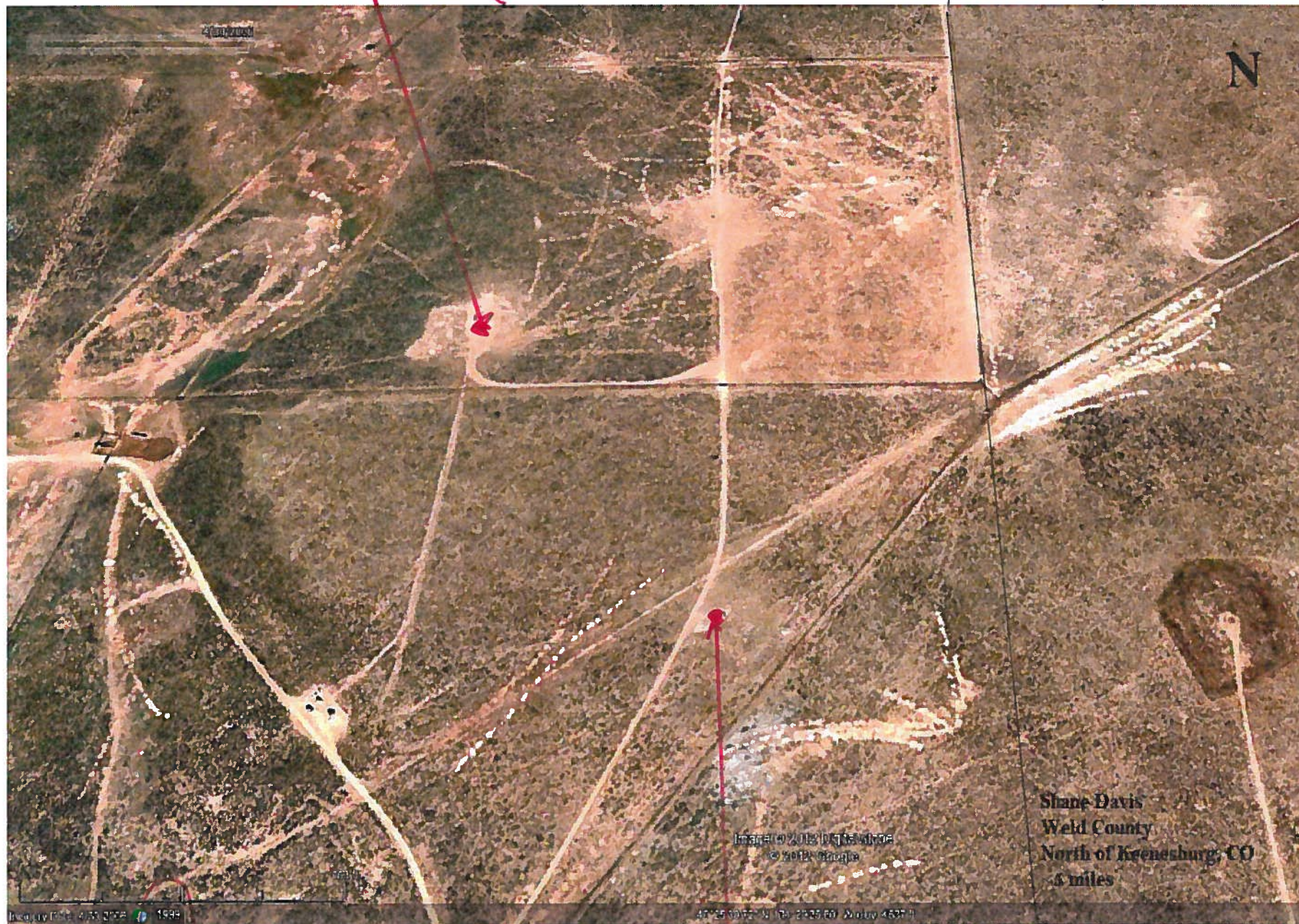
1st Production Date: 1/7/1992 Choke Size:
Status Date: 4/5/1996 Open Hole Completion:
Commingle: Y Production Method: PUMPING
Formation Name: NIOBRARA-CODELL Status: PR
Formation Treatment:
Treatment Date: 2/13/1992 97,000 GAL CROSS-LINKED FRAC FLUID, 500 GAL 7.5% HCL, 350,000# PROPPANT
Tubing Size: 2.375 Tubing Setting Depth: 4249
Tubing Packer Depth: Tubing Multiple Packer:
Open Hole Top: Open Hole Bottom:
Initial Test Data:
Test Date: 1/12/1992 Test Method: PUMPING
Hours Tested: 24 Gas Type:
Gas Disposal: SOLD

Test Type	Measure
BBLS_H2O	20
BBLS_OIL	53
CALC_GOR	830
CASING_PRESS	200
GRAVITY_OIL	47.2
MCF_GAS	44

TREBOR
B12-8
(22169)

5N-64W-12

5N-63W-7



TREBOR B12-8
(13777)



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Surface Location Data for API # 05-123-13777

Status: PR

Well Name/No: [TREBOR #B12-8](#) (click well name for production)
Operator: NOBLE ENERGY INC - 100322
Status Date: 8/8/2006 **Federal or State Lease #:** 67870
County: WELD #123 **Location:** SENE 12 5N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,615 ft.
Planned Location 1980 FNL 660 FEL **Lat/Long:** 40.415795/-104.491313 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.41564/-104.49125 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 8/8/2006

Wellbore Permit

Permit #: 871059 **Expiration Date:** 12/21/1988
Prop Depth/Form: **Surface Mineral Owner Same:**
Mineral Owner: STATE **Surface Owner:**
Unit: **Unit Number:**
Formation and Spacing: Code: NB-CD , Formation: NIOBRARA-CODELL , Order: 0 , Unit Acreage: 80, Drill Unit: S2NE

Wellbore Completed

Completion Date: 1/21/1988
Measured TD: 6919 **Measured PB depth:** 6906
True Vertical TD: 6919 **True Vertical PB depth:**
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 295, Weight:
Cement: Sacks: 0, Top: 0, Bottom: , Method Grade:
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 6919, Weight:
Cement: Sacks: 0, Top: 0, Bottom: , Method Grade:

Formation	Log Top	Log Bottom	Cored	DSTs
NIOBRARA	6479			
CODELL	6755			

Completed information for formation CODL

1st Production Date: N/A **Choke Size:**
Status Date: N/A **Open Hole Completion:** N
Commingled: N **Production Method:**
Formation Name: CODELL **Status:** CM
Formation Treatment:
Treatment Date: 1/21/1988 **PUMP SAND OVER CODELL PERFS, TOP OF SAND PLUG @ 6663', 8/6/04.**
Tubing Size: **Tubing Setting Depth:**
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**

No Initial Test Data was found for formation CODL .

Perforation Data:
Interval Bottom: 6765 **Interval Top:** 6757
of Holes: 6 **Hole Size:**

Completed information for formation NB-CD

1st Production Date: 7/12/2006 **Choke Size:** 0.250
Status Date: 8/8/2006 **Open Hole Completion:** N
Commingled: N **Production Method:**
Formation Name: NIOBRARA-CODELL **Status:** PR
Formation Treatment:
Treatment Date: 7/7/2006 **COMMINGLED CODELL & NIOBRARA**

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Surface Location Data for API # 05-123-22159

Status: PR

Well Name/No: [TREBOR B #12-17](#) (click well name for production)
Operator: NOBLE ENERGY INC - 100322
Status Date: 5/4/2005 **Federal or State Lease #:**
County: WELD #123 **Location:** NWNE 12 5N 64W 6 PM
Field: WATTENBERG - #90750 **Elevation:** 4,622 ft.
Planned Location 1112 FNL 1390 FEL **Lat/Long:** 40.418175/-104.493883 **Lat/Long Calculated From Footages**
As Drilled Location Footages Not Available **Lat/Long:** 40.4182/-104.49381 **Lat/Long Source:** Field Measured

Wellbore Data for Sidetrack #00

Status: PR 5/4/2005

Spud Date: 5/7/2004 **Spud Date is:** ACTUAL

Wellbore Permit

Permit #: 20040734 **Expiration Date:** 4/20/2005
Prop Depth/Form: 6900 **Surface Mineral Owner Same:** Y
Mineral Owner: FEE **Surface Owner:** FEE
Unit: **Unit Number:**

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 318 , Unit Acreage: 160, Drill Unit: NE/4

Wellbore Completed

Completion Date: 5/30/2004
Measured TD: 6910 **Measured PB depth:** 6870
True Vertical TD: **True Vertical PB depth:**
Log Types: DIL, DENSITY, CBL
Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 401, Weight: 24
Cement: Sacks: 203, Top: 0, Bottom: 401, Method Grade: CALC
Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 6889, Weight: 11.6
Cement: Sacks: 130, Top: 6063, Bottom: 6889, Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4140		N	N
NIOBRARA	6425		N	N
FORT HAYS	6708		N	N
CODELL	6733		N	N

Completed information for formation CODL

1st Production Date: 4/6/2005 **Choke Size:**
Status Date: 6/11/2004 **Open Hole Completion:** N
Commingle: Y **Production Method:**
Formation Name: CODELL **Status:** CM
Formation Treatment:
Treatment Date: 5/30/2004 **CBP SET @ 6640', 2/28/05.**
Tubing Size: **Tubing Setting Depth:**
Tubing Packer Depth: **Tubing Multiple Packer:**
Open Hole Top: **Open Hole Bottom:**
Initial Test Data:
Test Date: 6/11/2004 **Test Method:** FLOWING
Hours Tested: 24 **Gas Type:** WET
Gas Disposal: SOLD

Test Type	Measure
BBLS_H2O	2
BBLS_OIL	22
BTU_GAS	1214

reclamation.



SPIKE ST
GWS D 15-03
(15906)

3N-64W
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Surface Location Data for API # 05-123-15906

Status: PR

Well Name/No: [SPIKE ST GWS #D 16-03](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 12/7/2005

Federal or State Lease #:

County: WELD #123

Location:

NENW 16 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation:

4,746 ft.

Planned Location 663 FNL 1977 FWL

[Lat/Long:](#) 40.230837/-104.558524

Lat/Long Calculated From Footages

As Drilled Location Footages Not Available

[Lat/Long:](#) 40.23093/-104.55852

Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR 12/7/2005

Spud Date: 7/6/1992

Spud Date is:

ACTUAL

Wellbore Permit

Permit #: 19920734

Expiration Date:

6/30/1993

Prop Depth/Form: 7137

Surface Mineral Owner Same: N

Mineral Owner: STATE

Surface Owner:

Unit:

Unit Number:

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407 , Unit Acreage: 80, Drill Unit: N2NW

Formation and Spacing: Code: SX-CD , Formation: SUSSEX-CODELL , Order: 493 , Unit Acreage: 80, Drill Unit: N2NW

Wellbore Completed

Completion Date: N/A

Measured TD: 7137

Measured PB depth:

0

True Vertical TD: 0

True Vertical PB depth:

Log Types: CD, DIL, CBL-CCL-GR

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 351, Weight: 24

Cement: Sacks: 280, Top: 0, Bottom: , Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 3.5, Top: 0, Depth: 7103, Weight: 9.3

Cement: Sacks: 500, Top: 0, Bottom: , Method Grade: CBL

Formation

Log Top

Log Bottom

Cored

DSTs

SUSSEX

4208

NIOBRARA

6686

CODELL

6959

Completed information for formation CODL

1st Production Date: 10/8/1992

Choke Size:

0.250

Status Date: 12/7/2005

Open Hole Completion:

N

Commingled: N

Production Method:

FLOWING

Formation Name: CODELL

Status:

PR

Formation Treatment:

Treatment Date: 10/8/1992

RE-PERF CODELL: 6960' - 6971', 44 HOLES, 0.27" HOLE SIZE RE-FRAC

CODELL: 133,434 GALS VISTAR W/24/25/26# GEL, 245,880 LBS. 20/40

OTTAWA SAND, ATP: 6479 PSI, ATR: 13.0 BPM

Tubing Size: 2.0625

Tubing Setting Depth:

6932

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

Initial Test Data:

Test Date: 12/7/2005

Test Method:

FLOWING

Hours Tested: 24

Gas Type:

WET

Gas Disposal: SOLD

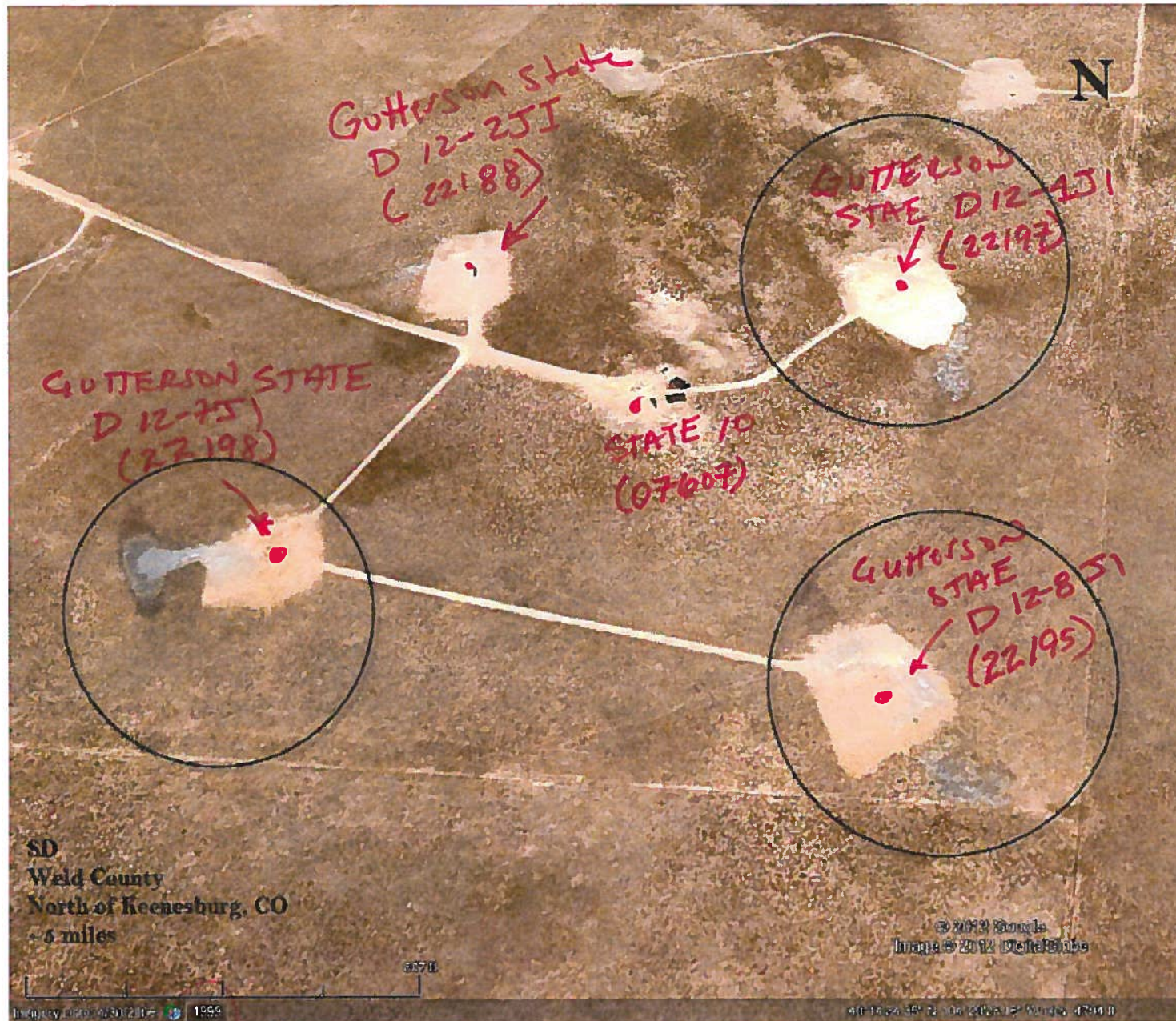
Test Type

Measure

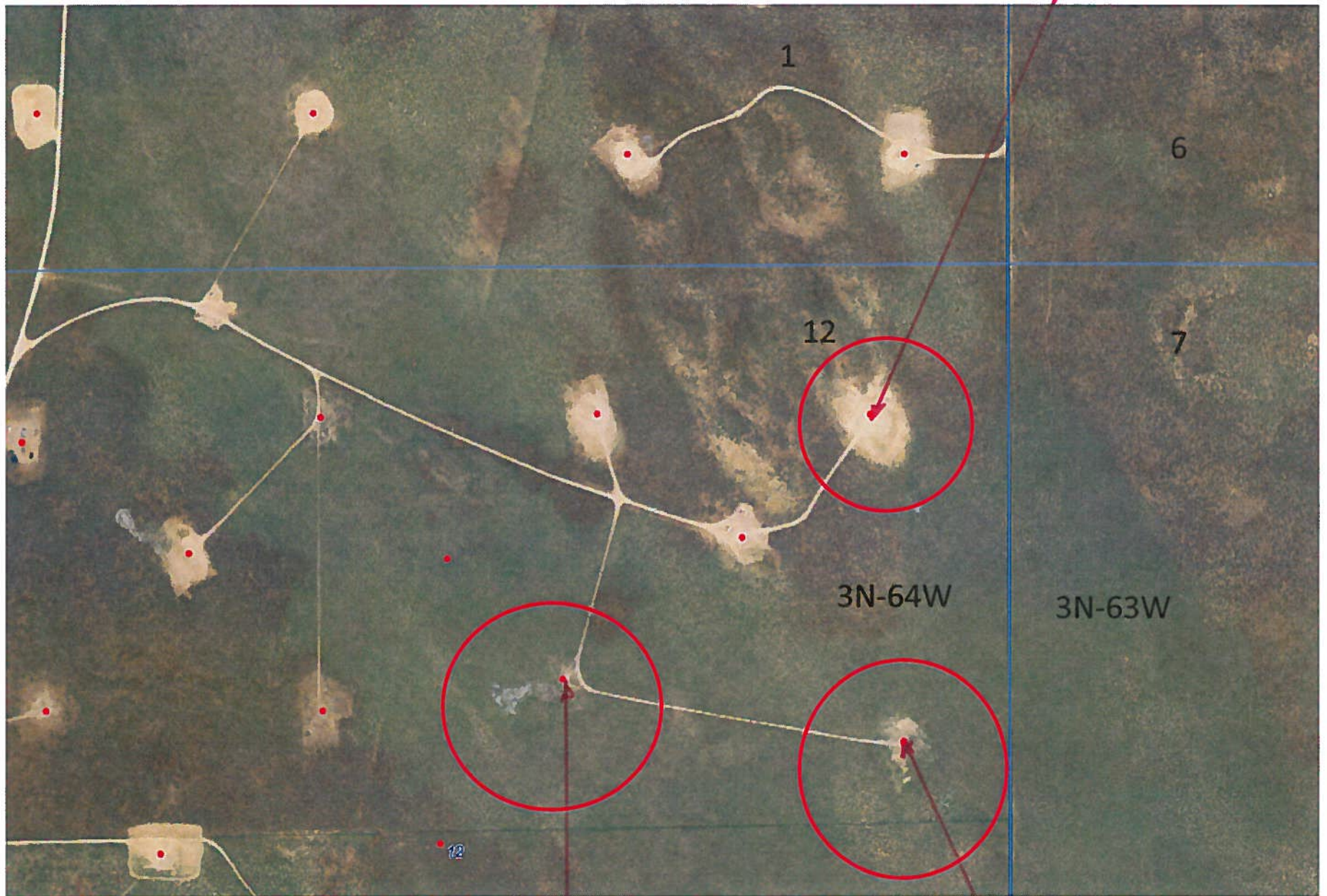
BBLS_H2O

5

3N-64W-12



GUTTERSON STATE D#12-1-JI



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GUTTERSON STATE
D#12-8JI

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Surface Location Data for API # 05-123-22195

Status: PR

Well Name/No: [GUTTERSEN STATE D #12-8 JI](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 11/4/2009

Federal or State Lease #:

County: WELD #123

Location:

SENE 12 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation:

4,780 ft.

Planned Location 2150 FNL 500 FEL

[Lat/Long:](#) 40.241258/-104.491942

Lat/Long Calculated From Footages

As Drilled Location Footages Not Available

[Lat/Long:](#) 40.24124/-104.49192

Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR 11/4/2009

Spud Date: 5/11/2005

Spud Date is:

ACTUAL

Wellbore Permit

Permit #: 20087659

Expiration Date:

12/7/2009

Prop Depth/Form: 7470

Surface Mineral Owner Same:

N

Mineral Owner: STATE

Surface Owner:

FEE

Unit:

Unit Number:

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407 , Unit Acreage: 80, Drill Unit: S2NE

Formation and Spacing: Code: JSND , Formation: J SAND , Order: 232 , Unit Acreage: 320, Drill Unit: N2

Formation and Spacing: Code: NBRR , Formation: NIOBRARA , Order: 407 , Unit Acreage: 80, Drill Unit: S2NE

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: , Depth: 677, Weight: 24

Cement: Sacks: 515, Top: 0, Bottom: 677, Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: , Depth: 7455, Weight: 11.6

Cement: Sacks: 230, Top: 6108, Bottom: 7455, Method Grade:

Wellbore Completed

Completion Date: 6/10/2005

Measured TD: 7470

Measured PB depth:

7439

True Vertical TD:

True Vertical PB depth:

Log Types: DIL, GR, CALIPER, SP, MICRO LOG, COM DENSITY/NEUTRON, CBL/VDL/GR/CCL

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 677, Weight: 24

Cement: Sacks: 515, Top: 0, Bottom: 677, Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7455, Weight: 11.6

Cement: Sacks: 230, Top: 6108, Bottom: 7455, Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4218		N	N
NIOBRARA	6550		N	N
FORT HAYS	6799		N	N
CODELL	6824		N	N
J SAND	7286		N	N

Completed information for formation CODL

1st Production Date: 11/4/2009

Choke Size:

Status Date: 12/9/2010

Open Hole Completion:

Commingled: Y

Production Method:

Formation Name: CODELL

Status:

CM

Formation Treatment:

Treatment Date: 11/3/2009

FRAC'D CODELL W/ 131,124 GALS OF SLICK WATER, VISTAR, AND 15% HCL WITH 267,680#S OF OTTAWA SAND.

Tubing Size:

Tubing Setting Depth:

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

No Initial Test Data was found for formation CODL .

Perforation Data:

Interval Bottom: 6836

Interval Top:

6825

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Surface Location Data for API # 05-123-22198

Status: PR

Well Name/No: [GUTTERERSEN STATE D #12-7J1](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 4/13/2010

Federal or State Lease #:

County: WELD #123

Location:

SWNE 12 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation:

4,756 ft.

Planned Location 1875 FNL 2100 FEL

[Lat/Long:](#) 40.242008/-104.497672 [Lat/Long Calculated From Footages](#)

As Drilled Location Footages Not Available

[Lat/Long:](#) 40.24204/-104.49774 [Lat/Long Source: Field Measured](#)

Wellbore Data for Sidetrack #00

Status: PR 4/13/2010

Spud Date: 5/5/2005

Spud Date is:

ACTUAL

Wellbore Permit

Permit #: 20087216

Expiration Date:

11/17/2009

Prop Depth/Form: 7466

Surface Mineral Owner Same:

Mineral Owner: STATE

Surface Owner:

FEE

Unit:

Unit Number:

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407-87 , Unit Acreage: 80, Drill Unit: S2NE

Formation and Spacing: Code: JSND , Formation: J SAND , Order: 232 , Unit Acreage: 320, Drill Unit: N2

Formation and Spacing: Code: NBRR , Formation: NIOBRARA , Order: 407-87 , Unit Acreage: 80, Drill Unit: S2NE

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: , Depth: 667, Weight: 24

Cement: Sacks: 475, Top: 0, Bottom: 667, Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: , Depth: 7434, Weight: 11.6

Cement: Sacks: 200, Top: 6095, Bottom: 7434, Method Grade:

Casing: String Type: STAGE TOOL, Hole Size: , Size: , Top: , Depth: 4664, Weight:

Cement: Sacks: 200, Top: 3740, Bottom: 4667, Method Grade:

Wellbore Completed

Completion Date: 6/14/2005

Measured TD: 7466

Measured PB depth:

7402

True Vertical TD:

True Vertical PB depth:

Log Types: DIL, GR, CALIPER, SP, MICRO LOG, COMP DENSITY/NEUTRON, CBL

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 677, Weight: 24

Cement: Sacks: 475, Top: 0, Bottom: 677, Method Grade: CALC

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7434, Weight: 11.6

Cement: Sacks: 220, Top: 6095, Bottom: 7434, Method Grade: CBL

Casing: String Type: S.C. 1.1 , Hole Size: , Size: , Top: , Depth: 4666, Weight:

Cement: Sacks: 200, Top: 3740, Bottom: 4666, Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4200		N	N
NIOBRARA	6557		N	N
FORT HAYS	6804		N	N
CODELL	6829		N	N
J SAND	7288		N	N

Completed information for formation JSND

1st Production Date: N/A

Choke Size:

0.188

Status Date: 6/29/2005

Open Hole Completion:

N

Commingle: N

Production Method:

FLOWING

Formation Name: J SAND

Status:

PR

Formation Treatment:

Treatment Date: 6/14/2005

SEE SCANNED DOC #01447293

Tubing Size:

Tubing Setting Depth:

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

Initial Test Data:

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Surface Location Data for API # 05-123-22197

Status: PR

Well Name/No: [GUTTERSEN STATE D #12-1J1](#) (click well name for production)

Operator: NOBLE ENERGY INC - 100322

Status Date: 10/15/2010 10:34:40 AM

Federal or State Lease #: 70/7882-S

County: WELD #123

Location: NENE 12 3N 64W 6 PM

Field: WATTENBERG - #90750

Elevation: 4,808 ft.

Planned Location 664 FNL 658 FEL

Lat/Long: 40.245337/-104.492502 Lat/Long Calculated From Footages

As Drilled Location Footages Not Available

Lat/Long: 40.2453/-104.49246 Lat/Long Source: Field Measured

Wellbore Data for Sidetrack #00

Status: PR 10/15/2010

Spud Date: 7/27/2004

Spud Date is: ACTUAL

Wellbore Permit

Permit #: 20051288

Expiration Date: 5/8/2006

Prop Depth/Form: 6916

Surface Mineral Owner Same: N

Mineral Owner: STATE

Surface Owner: FEE

Unit:

Unit Number:

Formation and Spacing: Code: CODL , Formation: CODELL , Order: 407 , Unit Acreage: 160, Drill Unit: NE4

Formation and Spacing: Code: JSND , Formation: J SAND , Order: 232 , Unit Acreage: 320, Drill Unit: N/2

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: , Depth: 685, Weight: 24

Cement: Sacks: 260, Top: 0, Bottom: 685, Method Grade:

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: , Depth: 7447, Weight: 11.6

Cement: Sacks: 450, Top: 6190, Bottom: 7447, Method Grade:

Wellbore Completed

Completion Date: 9/2/2004

Measured TD: 7465

Measured PB depth: 7418

True Vertical TD:

True Vertical PB depth:

Log Types: DIL, CDL, CNL, GR, SP, CBL

Casing: String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 685, Weight: 24

Cement: Sacks: 260, Top: 0, Bottom: 685, Method Grade: CALC

Casing: String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7447, Weight: 11.6

Cement: Sacks: 210, Top: 6190, Bottom: 7447, Method Grade: CBL

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	4270		N	N
NIOBRARA	6695		N	N
FORT HAYS	6875		N	N
CODELL	6905		N	N
J SAND	7321		N	N

Completed information for formation CODL

1st Production Date: 5/30/2005

Choke Size:

Status Date: 10/15/2010

Open Hole Completion: N

Commingled: Y

Production Method:

Formation Name: CODELL

Status: CM

Formation Treatment:

Treatment Date: 6/17/2010

Codell refrac Frac'd Codell w/ 126336 gals Vistar and Slick Water with 250082 lbs Ottawa sand

Treatment Date: 9/2/2004

PERF'D CODELL 6906'-6916' (40 HOLES), 5/20/05. FRAC'D CODLL W/127,092 GAL VISTAR 22/20# GEL AND 270,180# 20/40 OTTAWA SAND, 5/27/05.

Tubing Size:

Tubing Setting Depth:

Tubing Packer Depth:

Tubing Multiple Packer:

Open Hole Top:

Open Hole Bottom:

Initial Test Data: